Electrical and Electronic Solutions Catalog

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YEAR FOUNDED
1957

NUMBER OF EMPLOYEES
APPROXIMATELY
8,700

MORE THAN
50
COUNTRIES

APPROXIMATELY
125,000
CUSTOMERS

APPROXIMATELY
320
WAREHOUSES/ BRANCHES

$1.2 BILLION
INVENTORY

IN OVER
300
CITIES

STOCK SYMBOL
AXE

OVER
450,000
PRODUCTS

FORTUNE
500 LIST

Approximately
125,000
customers

At Anixter, we enable the connected world. By building, connecting, protecting and powering valuable assets and critical infrastructures, we help to sustain and grow businesses and communities worldwide. We accomplish this by offering full-line solutions, technical intelligence, supply chain expertise and an unmatched global distribution network.

Building, Equipment and Appliance Wire

Section 1 Building, Equipment and Appliance Wire

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Bare Copper

Solid and Stranded, Soft-/Medium-/Hard-drawn Tempers

SPECIFICATIONS

1. SOLID: ASTM B-1 Hard-drawn temper
   ASTM B-2 Medium-hard drawn temper
   ASTM B-3 Soft-drawn temper
2. STRANDED: ASTM B-8 Concentric lay; all tempers

APPLICATIONS

Solid and stranded (medium- or hard-drawn temper) for use in overhead, outdoor applications on insulators for distribution circuits.
Stranded (hard-, medium- or soft-drawn temper) for grounding purposes.

Anixter No. (Hard Temper)	Anixter No. (Medium Temper)	Anixter No. (Soft Temper)	Conductor Size	No. of Strands	Nominal O.D.		Approx. Weight	
			AWG/kcmil		in.	mm	lb./1,000 ft.	kg/km
SOLID COPPER CONDUCTOR								
1A-1401H	1A-1401M	1A-1401	14	1	0.0641	1.63	12	18
1A-1201H	1A-1201M	1A-1201	12	1	0.0808	2.06	20	30
1A-1001H	1A-1001M	1A-1001	10	1	0.1019	2.60	31	46
1A-0801H	1A-0801M	1A-0801	8	1	0.1285	3.28	50	74
1A-0601H	1A-0601M	1A-0601	6	1	0.1620	4.12	79	118
1A-0401H	1A-0401M	1A-0401	4	1	0.2043	5.18	126	188
1A-0201H	1A-0201M	1A-0201	2	1	0.2576	6.55	201	299
STRANDED COPPER CONDUCTOR								
1B-0807H	1B-0807M	1B-0807	8	7	0.146	3.71	51	76
1B-0607H	1B-0607M	1B-0607	6	7	0.184	4.67	81	121
1B-0407H	1B-0407M	1B-0407	4	7	0.232	5.89	129	192
1B-0201H	1B-0207M	1B-0207	2	7	0.292	7.42	205	305
1B-0119H	1B-0119M	1B-0119	1	19	0.332	6.43	253	377
1B-10119H	1B-10119M	1B-10119	1/0	19	0.373	9.47	326	485
1B-20219H	1B-20219M	1B-20219	2/0	19	0.419	10.64	411	612
1B-30319H	1B-30319M	1B-30319	3/0	19	0.470	11.94	518	771
1B-40419H	1B-40419M	1B-40419	4/0	19	0.528	13.41	653	972
1B-25037H	1B-25037M	1B-25037	250	37	0.574	14.61	772	1,149
1B-30037H	1B-30037M	1B-30037	300	37	0.629	16.00	927	1,380
1B-35037H	1B-35037M	1B-35037	350	37	0.679	17.23	1,080	1,607
1B-40037H	1B-40037M	1B-40037	400	37	0.720	18.49	1,235	1,838
1B-50037H	1B-50037M	1B-50037	500	37	0.813	20.65	1,544	2,298
1B-60061H	1B-60061M	1B-60061	600	61	0.891	22.68	1,853	2,758
1B-75061H	1B-75061M	1B-75061	750	61	0.998	25.35	2,316	3,447
1B-100061H	1B-100061M	1B-100061	1000	61	1.152	29.26	3,088	4,595

Bare Aluminum

Solid and Stranded

SPECIFICATIONS
1. CONDUCTOR: ASTM B-230 Aluminum wire
ASTM B-231 Aluminum; concentric-lay-stranded
2. STANDARDS: 1350 Alloy H19 temper

APPLICATIONS
Solid or stranded for overhead outdoor applications in distribution circuits.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Nominal O.D. in.	Nominal O.D. mm	Approx. Weight lb./1,000 ft.	Approx. Weight kg/km
SOLID ALUMINUM CONDUCTOR						
1C-1201	12	1	0.081	2.06	6	9
1C-1001	10	1	0.102	2.59	10	15
1C-0801	8	1	0.129	3.28	15	22
1C-0601	6	1	0.162	4.11	24	36
1C-0401	4	1	0.204	5.18	38	57
1C-0201	2	1	0.258	6.55	61	91
STRANDED ALUMINUM CONDUCTOR						
1D-0801	8	7	0.146	3.71	16	24
1D-0601	6	7	0.184	4.67	25	37
1D-0401	4	7	0.232	5.89	39	58
1D-0301	3	7	0.260	6.60	49	73
1D-0201	2	7	0.292	7.42	60	89
1D-0101	1	19	0.332	8.43	79	118
1D-1011	1/0	19	0.373	9.47	99	147
1D-2021	2/0	19	0.419	10.64	125	186
1D-3031	3/0	19	0.470	11.94	158	235
1D-4041	4/0	19	0.528	13.41	198	295
1D-2501	250	37	0.575	14.60	235	350
1D-3001	300	37	0.630	16.00	281	418
1D-3501	350	37	0.681	17.97	329	490
1D-4001	400	37	0.728	18.49	376	559
1D-5001	500	37	0.813	20.65	469	698
1D-6001	600	61	0.893	22.68	564	839
1D-7001	700	67	0.964	24.48	657	978
1D-7501	750	61	0.998	25.35	704	1,048
1D-10001	1000	61	1.152	29.26	938	1,396

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ANIXTER

Copperweld

Copperweld, 7 Strand

SPECIFICATIONS

1. Each wire in the strand shall be composed of a steel core with a copper covering thoroughly welded to the core so that an inseparable and interlocking crystalline bond is secured between the two metals.

APPLICATIONS

For use in overhead line construction where strength, corrosion resistance and conductance are important requirements.
As a messenger for aerial cable.

Anixter No.	Size AWG	No. of Strands	Nominal O.D.		Resistance at 20°C	Breaking Load Extra High Strength 30% Cond.		Approx. Weight	
			in.	mm	ohms/1,000 ft.	lb.	kg	lb./1,000 ft.	kg/km
1M-0516-EHS	7 X #10	7	5/16	7.92	0.490	9,168	4,158	203	301
1M-0716-EHS	7 X #7	7	7/16	10.97	0.244	16,890	7,661	408	606
1M-0816-EHS	7 X #6	7	1/2	12.70	0.194	20,460	9,280	515	765
1M-1016-EHS	7 X #4	7	5/8	15.87	0.122	29,430	13,349	818	1,215

NOTE: Also available in 19 and 37 strand, please contact your local Anixter sales office.

Type TW75

Copper Conductor, Thermoplastic Insulation, 75°C, 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Solid or stranded annealed (soft) bare copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. TEMPERATURE: 75°C
4. VOLTAGE: 600 V
5. STANDARDS: In accordance with CSA C22.2 No.75
6. COLOURS: Various colours available; see note below. Please contact your local Anixter sales office.

APPLICATIONS

General-purpose wiring for lighting and power in residential, commercial and industrial buildings, in accordance with the Canadian Electrical Code. Maximum conductor temperature of 75°C in wet or dry locations for circuits not exceeding 600 volts.

Anixter No.	Conductor Size	No. of Strands	Insulation Thickness		Nominal O.D.		Approx. Weight	
	AWG/kcmil		in.	mm	in.	mm	lb./1,000 ft.	kg/km
SINGLE SOLID CONDUCTOR								
6CC-1401	14	1	0.030	0.76	0.13	3.30	22	32
6CC-1201	12	1	0.030	0.76	0.15	3.81	31	46
6CC-1001	10	1	0.030	0.76	0.17	4.32	45	66
6CC-0801	8	1	0.045	1.14	0.23	5.84	73	108
SINGLE STRANDED CONDUCTOR								
6CC-1407	14	7	0.030	0.76	0.13	3.56	24	35
6CC-1207	12	7	0.030	0.76	0.16	4.06	33	49
6CC-1007	10	7	0.030	0.76	0.18	4.57	48	71
6CC-0807	8	7	0.045	1.14	0.24	6.10	77	114
6CC-0607	6	7	0.060	1.52	0.31	7.87	112	166
6CC-0407	4	7	0.060	1.52	0.36	9.14	167	248
6CC-0307	3	7	0.060	1.52	0.39	9.91	205	304
6CC-0207	2	7	0.060	1.52	0.42	10.67	253	375
6CC-0119	1	19	0.080	2.03	0.49	12.45	323	479
6CC-10119	1/0	19	0.080	2.03	0.53	13.46	397	589
6CC-20219	2/0	19	0.080	2.03	0.58	14.73	491	729
6CC-20219	3/0	19	0.080	2.03	0.63	16.00	608	903
6CC-40419	4/0	19	0.080	2.03	0.69	17.53	753	1,118
6CC-25037	250	37	0.095	2.41	0.77	19.56	900	1,337
6CC-30037	300	37	0.095	2.41	0.82	20.83	1,065	1,582
6CC-35037	350	37	0.095	2.41	0.87	22.10	1,232	1,830
6CC-40037	400	37	0.095	2.41	0.92	23.37	1,391	2,066
6CC-50037	500	37	0.095	2.41	1.01	25.65	1,722	2,558
6CC-60061	600	61	0.110	2.79	1.12	28.45	2,088	3,102
6CC-75061	750	61	0.110	2.79	1.22	30.99	2,576	3,827
6CC-100061	1000	61	0.110	2.79	1.38	35.05	3,390	5,036

Add the following to the Anixter part numbers for colour code:

-01 = White -02 = Black -03 = Red -04 = Green -05 = Yellow
-06 = Blue -07 = Brown -08 = Orange -09 = Grey

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Type TWU

Copper Conductor, Thermoplastic Insulation, 60°C, 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Solid or stranded annealed (soft) bare copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. TEMPERATURE: 60°C
4. VOLTAGE: 600 V
5. STANDARDS: In accordance with CSA C22.2 No.75
6. COLOURS: Various colours available; see note below. Please contact your local Anixter sales office.

APPLICATIONS

For open wiring where exposed to the weather, and for service entrance below ground. Also approved for direct burial installations. Maximum conductor temperature of 60°C in wet or dry locations for circuits not exceeding 600 volts.

Anixter No.	Conductor Size	No. of Strands	Insulation Thickness		Nominal O.D.		Approx. Weight	
	AWG/kcmil		in.	mm	in.	mm	lb./1,000 ft.	kg/km
SINGLE SOLID CONDUCTOR								
6CA-1401	14	1	0.060	1.52	0.19	4.83	26	39
6CA-1201	12	1	0.060	1.52	0.20	5.08	35	53
6CA-1001	10	1	0.060	1.52	0.22	5.59	49	73
6CA-0801	8	1	0.080	2.03	0.31	7.87	82	121
SINGLE STRANDED CONDUCTOR								
6CA-1407	14	7	0.060	1.52	0.19	5.08	27	41
6CA-1207	12	7	0.060	1.52	0.21	5.33	37	55
6CA-1007	10	7	0.060	1.52	0.24	6.10	52	77
6CA-0807	8	7	0.080	2.03	0.31	7.87	85	126
6CA-0607	6	7	0.080	2.03	0.34	8.64	121	180
6CA-0407	4	7	0.080	2.03	0.39	9.65	177	263
6CA-0207	2	7	0.080	2.03	0.45	11.18	263	392
6CA-0119	1	19	0.095	2.41	0.51	12.70	329	490
6CA-10119	1/0	19	0.095	2.41	0.55	13.72	407	606
6CA-20219	2/0	19	0.095	2.41	0.59	14.73	506	753
6CA-30319	3/0	19	0.095	2.41	0.64	15.75	618	919
6CA-40419	4/0	19	0.095	2.41	0.70	17.27	764	1,137
6CA-25037	250	37	0.110	2.79	0.76	19.05	906	1,348
6CA-30037	300	37	0.110	2.79	0.84	20.32	1,079	1,606
6CA-35037	350	37	0.110	2.79	0.88	21.34	1,245	1,852
6CA-40037	400	37	0.110	2.79	0.93	22.61	1,409	2,097
6CA-50037	500	37	0.110	2.79	1.02	24.64	1,737	2,586
6CA-60061	600	61	0.125	3.18	1.13	27.18	2,089	3,108
6CA-75061	750	61	0.125	3.18	1.23	29.72	2,577	3,835
6CA-100061	1000	61	0.125	3.18	1.32	33.53	3,400	5,059

Add the following to the Anixter part numbers for colour code:

-01 = White -02 = Black -03 = Red -04 = Green -05 = Yellow
-06 = Blue -07 = Brown -08 = Orange -09 = Grey

Type T90

Copper Conductor, Thermoplastic Insulation, Nylon Jacket, 90°C Dry/75°C Wet, 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Solid or stranded annealed (soft) bare copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. JACKET: Nylon
4. TEMPERATURE: 90°C dry /75°C wet
5. VOLTAGE: 600 V
6. STANDARDS: In accordance with CSA C22.2 No.75
7. COLOURS: Various colours available; see note below. Please contact your local Anixter sales office.

APPLICATIONS

General-purpose small-diameter wiring for new construction or modernizing existing systems.
Suitable for lighting and power in residential, commercial and industrial buildings in accordance with the Canadian Electrical Code.
Maximum conductor temperature of 90°C dry or 75°C wet locations for circuits not exceeding 600 volts.

Anixter No.	Conductor Size	No. of Strands	Insulation Thickness		Jacket Thickness		Nominal O.D.		Approx. Weight	
	AWG/kcmil		in.	mm	in.	mm	in.	mm	lb./1,000 ft.	kg/km
SINGLE SOLID CONDUCTOR										
6F-1401	14	1	0.015	0.38	0.004	0.10	0.104	2.63	15	22
6F-1201	12	1	0.015	0.38	0.004	0.10	0.120	3.06	23	35
6F-1001	10	1	0.020	0.51	0.004	0.10	0.152	3.86	36	54
6F-0801	8	1	0.030	0.76	0.005	0.13	0.207	5.28	62	92
SINGLE STRANDED CONDUCTOR										
6G-1401	14	19	0.015	0.38	0.004	0.10	0.112	2.85	16	23
6G-1201	12	19	0.015	0.38	0.004	0.10	0.131	3.33	23	35
6G-1001	10	19	0.020	0.51	0.004	0.10	0.166	4.21	37	55
6G-0801	8	19	0.030	0.76	0.005	0.13	0.219	5.56	61	91
6G-0601	6	19	0.030	0.76	0.005	0.13	0.257	6.52	93	138
6G-0401	4	19	0.040	1.02	0.006	0.15	0.322	8.17	148	221
6G-0301	3	19	0.040	1.02	0.006	0.15	0.350	8.88	184	273
6G-0201	2	19	0.040	1.02	0.006	0.15	0.382	9.69	228	339
6G-0101	1	19	0.050	1.27	0.007	0.18	0.440	11.16	290	432
6G-1011	1/0	19	0.050	1.27	0.007	0.18	0.479	12.16	361	537
6G-2021	2/0	19	0.050	1.27	0.007	0.18	0.523	13.27	448	667
6G-3031	3/0	19	0.050	1.27	0.007	0.18	0.573	14.54	557	829
6G-4041	4/0	19	0.050	1.27	0.007	0.18	0.629	15.97	695	1,034
6G-2501	250	37	0.060	1.52	0.008	0.20	0.699	17.77	829	1,233
6G-3001	300	37	0.060	1.52	0.008	0.20	0.752	19.11	985	1,467
6G-3501	350	37	0.060	1.52	0.008	0.20	0.802	20.38	1,142	1,700
6G-4001	400	37	0.060	1.52	0.008	0.20	0.847	21.52	1,297	1,931
6G-5001	500	37	0.060	1.52	0.008	0.20	0.930	23.63	1,608	2,393

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RW90 Copper

Copper Conductor, XLPE Insulation, 90°C Dry/Wet, 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Solid or stranded annealed (soft) bare copper
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. TEMPERATURE: 90°C
4. VOLTAGE: 600 V
5. STANDARDS: In accordance with CSA C22.2 No.38
6. COLOURS: Various colours available; see note below. Please contact your local Anixter sales office.

APPLICATIONS

General purpose wiring for control, power and lighting circuits in residential, commercial and industrial environments.
Maximum conductor temperature of 90°C in dry or wet locations for circuits not exceeding 600 volts.
May be installed in conduit and other recognized raceways in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	No. of Strands	Insulation Thickness		Nominal O.D.		Approx. Weight	
	AWG/kcmil		in.	mm	in.	mm	lb./1,000 ft.	kg/km
SINGLE SOLID CONDUCTOR								
6CL-1401	14	1	0.030	0.76	0.13	3.2	16	24
6CL-1201	12	1	0.030	0.76	0.14	3.6	24	35
6CL-1001	10	1	0.030	0.76	0.16	4.1	36	54
SINGLE STRANDED CONDUCTOR								
6CL-1407	14	7	0.030	0.76	0.13	3.3	17	25
6CL-1207	12	7	0.030	0.76	0.15	3.8	25	37
6CL-1007	10	7	0.030	0.76	0.18	4.6	38	57
6CL-0807	8	7	0.045	1.14	0.23	5.9	62	92
6CL-0607	6	7	0.045	1.14	0.27	6.8	95	141
6CL-0407	4	7	0.045	1.14	0.32	8.0	146	217
6CL-0307	3	7	0.045	1.14	0.34	8.7	181	269
6CL-0207	2	7	0.045	1.14	0.37	9.5	226	336
6CL-0119	1	19	0.055	1.40	0.43	11.0	288	429
6CL-10119	1/0	19	0.055	1.40	0.47	11.8	358	532
6CL-20219	2/0	19	0.055	1.40	0.51	12.9	452	672
6CL-30319	3/0	19	0.055	1.40	0.56	14.2	560	833
6CL-40419	4/0	19	0.055	1.40	0.61	15.6	699	1,040
6CL-25037	250	37	0.065	1.65	0.68	17.2	832	1,238
6CL-30037	300	37	0.065	1.65	0.74	18.8	977	1,454
6CL-35037	350	37	0.065	1.65	0.78	19.9	1,151	1,713
6CL-40037	400	37	0.065	1.65	0.84	21.2	1,293	1,924
6CL-50037	500	37	0.065	2.03	0.92	23.3	1,604	2,387
6CL-60061	600	61	0.080	2.03	1.02	25.9	1,943	2,892
6CL-75061	750	61	0.080	2.03	1.13	28.9	2,407	3,582
6CL-100061	1000	61	0.080	2.03	1.28	32.4	3,184	4,438

Add the following to the Anixter part numbers for colour code:

-01 = White -02 = Black -03 = Red -04 = Green -05 = Yellow
-06 = Blue -07 = Brown -08 = Orange -09 = Grey

RWU90 Copper

Copper Conductor, XLPE Insulation, 90°C Dry/Wet, 1000 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Stranded annealed (soft) bare copper
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. TEMPERATURE: 90°C
4. VOLTAGE: 1000 V
5. STANDARDS: In accordance with CSA C22.2 No.38
6. COLOURS: Various colours available; see note below. Please contact your local Anixter sales office.

APPLICATIONS

General-purpose wiring for control, power and lighting circuits in residential, commercial and industrial environments.
Maximum conductor temperature of 90°C in dry or wet locations for circuits not exceeding 1,000 volts.
Suitable for direct burial and may be installed in conduit and other recognized raceways in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	No. of Strands	Insulation Thickness		Nominal O.D.		Approx. Weight	
	AWG/kcmil		in.	mm	in.	mm	lb./1,000 ft.	kg/km
6CN-1407	14	7	0.060	1.52	0.19	4.9	23	34
6CN-1207	12	7	0.060	1.52	0.21	5.4	32	48
6CN-1007	10	7	0.060	1.52	0.24	6.0	46	69
6CN-0807	8	7	0.080	2.03	0.31	7.8	76	112
6CN-0607	6	7	0.080	2.03	0.35	8.8	110	164
6CN-0407	4	7	0.080	2.03	0.39	10.0	164	243
6CN-0307	3	7	0.080	2.03	0.42	10.6	201	298
6CN-0207	2	7	0.080	2.03	0.45	11.4	247	367
6CN-0119	1	19	0.095	2.41	0.51	13.0	312	464
6CN-10119	1/0	19	0.095	2.41	0.55	13.9	384	572
6CN-20219	2/0	19	0.095	2.41	0.59	15.0	480	715
6CN-30319	3/0	19	0.095	2.41	0.64	16.2	590	878
6CN-40419	4/0	19	0.095	2.41	0.69	17.6	732	1,089
6CN-25037	250	37	0.110	2.79	0.77	19.5	874	1,300
6CN-30037	300	37	0.110	2.79	0.84	21.4	1,038	1,544
6CN-35037	350	37	0.110	2.79	0.86	21.9	1,193	1,775
6CN-40037	400	37	0.110	2.79	0.94	23.9	1,362	2,027
6CN-50037	500	37	0.110	2.79	1.02	26.0	1,685	2,507
6CN-60061	600	61	0.125	3.17	1.13	28.7	2,024	3,012
6CN-75061	750	61	0.125	3.17	1.23	31.3	2,505	3,728
6CN-100061	1000	61	0.125	3.17	1.38	35.1	3,304	4,917

Add the following to the Anixter part numbers for colour code:

-01 = White -02 = Black -03 = Red -04 = Green -05 = Yellow
-06 = Blue -07 = Brown -08 = Orange -09 = Grey

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RW90 Aluminum

Aluminum Conductor, XLPE Insulation, 90°C Dry/Wet, 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Stranded aluminum
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. TEMPERATURE: 90°C
4. VOLTAGE: 600 V
5. STANDARDS: In accordance with CSA C22.2 No.38
6. COLOURS: Various colours available; see note below. Please contact your local Anixter sales office.

APPLICATIONS

General-purpose wiring for control, power and lighting circuits in residential, commercial and industrial environments.
Maximum conductor temperature of 90°C in dry or wet locations for circuits not exceeding 600 volts.
May be installed in conduit and other recognized raceways in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	No. of Strands	Insulation Thickness		Nominal O.D.		Approx. Weight	
	AWG/kcmil		in.	mm	in.	mm	lb./1,000 ft.	kg/km
6CM-0607	6	7	0.045	1.14	0.26	6.6	38	57
6CM-0407	4	7	0.045	1.14	0.30	7.7	56	83
6CM-0307	3	7	0.045	1.14	0.33	8.3	68	101
6CM-0207	2	7	0.045	1.14	0.36	9.1	82	122
6CM-0119	1	19	0.055	1.40	0.41	10.4	106	158
6CM-10119	1/0	19	0.055	1.40	0.45	11.3	130	193
6CM-20219	2/0	19	0.055	1.40	0.49	12.3	159	237
6CM-30319	3/0	19	0.055	1.40	0.53	13.5	195	290
6CM-40419	4/0	19	0.055	1.40	0.59	14.8	242	360
6CM-25037	250	37	0.065	1.65	0.65	16.5	291	433
6CM-30037	300	37	0.065	1.65	0.70	17.8	343	510
6CM-35037	350	37	0.065	1.65	0.75	18.9	395	588
6CM-40037	400	37	0.065	1.65	0.79	20.0	445	662
6CM-50037	500	37	0.065	1.65	0.87	22.0	548	815
6CM-60061	600	61	0.080	2.03	0.97	24.7	671	1,000
6CM-75061	750	61	0.080	2.03	1.07	27.1	830	1,235
6CM-100061	1000	61	0.080	2.03	1.22	31.0	1,082	1,610

Add the following to the Anixter part numbers for colour code:

-01 = White -02 = Black -03 = Red -04 = Green -05 = Yellow
-06 = Blue -07 = Brown -08 = Orange -09 = Grey

RWU90 Aluminum

Aluminum Conductor, XLPE Insulation, 90°C Dry/Wet, 1,000 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Stranded aluminum
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. TEMPERATURE: 90°C
4. VOLTAGE: 1,000 V
5. STANDARDS: In accordance with CSA C22.2 No.38
6. COLOURS: Various colours available; see note below. Please contact your local Anixter sales office.

APPLICATIONS

General purpose wiring for control, power and lighting circuits in residential, commercial and industrial environments.
Maximum conductor temperature of 90°C in dry or wet locations for circuits not exceeding 1,000 volts.
Suitable for direct burial and may be installed in conduit and other recognized raceways in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	No. of Strands	Insulation Thickness		Nominal O.D.		Approx. Weight	
	AWG/kcmil		in.	mm	in.	mm	lb./1,000 ft.	kg/km
6CO-0607	6	7	0.080	2.03	0.33	8.4	52	77
6CO-0407	4	7	0.080	2.03	0.38	9.6	71	106
6CO-0307	3	7	0.080	2.03	0.40	10.2	85	126
6CO-0207	2	7	0.080	2.03	0.44	11.1	101	150
6CO-0119	1	19	0.095	2.41	0.49	12.4	130	193
6CO-10119	1/0	19	0.095	2.41	0.53	13.5	156	232
6CO-20219	2/0	19	0.095	2.41	0.57	14.5	187	278
6CO-30319	3/0	19	0.095	2.41	0.62	15.7	225	335
6CO-40419	4/0	19	0.095	2.41	0.68	17.3	274	408
6CO-25037	250	37	0.110	2.79	0.75	19.0	332	494
6CO-30037	300	37	0.110	2.79	0.80	20.3	387	576
6CO-35037	350	37	0.110	2.79	0.85	21.6	442	668
6CO-40037	400	37	0.110	2.79	0.89	22.6	495	737
6CO-50037	500	37	0.110	2.79	0.97	24.6	602	896
6CO-60061	600	61	0.125	3.17	1.07	27.2	802	1,193
6CO-75061	750	61	0.125	3.17	1.17	29.7	895	1,332
6CO-100061	1000	61	0.125	3.17	1.32	33.5	1,156	1,720

Add the following to the Anixter part numbers for colour code:

-01 = White -02 = Black -03 = Red -04 = Green -05 = Yellow
-06 = Blue -07 = Brown -08 = Orange -09 = Grey

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NMD90

Non-metallic Sheathed Cable, Copper Conductor, FT1, 90°C, 300 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Solid or stranded annealed (soft) bare copper
2. INSULATION: Polyvinyl Chloride (PVC) insulation and nylon jacket over each phase conductor
3. JACKET: Polyvinyl Chloride (PVC); FT1
4. CONSTRUCTION: Colour coded, assembled with bare ground wire
   Two-conductors with ground are laid parallel
   Three-conductors with ground are twisted around the grounding conductor with suitable fillers
5. TEMPERATURE: 90°C
6. VOLTAGE: 300 V
7. STANDARDS: In accordance with CSA C22.2 No.48
8. NOTES: Aluminum conductor, XLPE insulation and various colours also available; see colour code note below. Please contact your local Anixter sales office.

APPLICATIONS

For open and concealed wiring in dry or damp locations when not exposed to mechanical injury in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	No. of Strands	Insulation Thickness		Jacket Thickness		Nominal O.D.		Approx. Weight	
	AWG		in.	mm	in.	mm	in.	mm	lb./1,000 ft.	kg/km
TWO-CONDUCTORS WITH GROUND										
6QA-1402Q	14	Sol.	0.034	0.86	0.030	0.76	0.388 x .0192	9.86 x 4.88	68	101
6QA-1202Q	12	Sol.	0.034	0.86	0.030	0.76	0.422 x 0.209	10.71 x 5.30	87	129
6QA-1002Q	10	Sol.	0.034	0.86	0.030	0.76	0.481 x 0.230	12.21 x 5.84	122	182
6QA-0802Q	8	7	0.040	1.02	0.045	1.14	0.636 x 0.312	16.15 x 7.92	209	311
6QA-0602Q	6	7	0.051	1.30	0.045	1.14	0.792 x .0370	20.12 x 9.40	315	469
THREE-CONDUCTORS WITH GROUND										
6QA-1403Q	14	Sol.	0.034	0.86	0.030	0.76	0.345	8.77	87	129
6QA-1203Q	12	Sol.	0.034	0.86	0.030	0.76	0.381	9.69	114	170
6QA-1003Q	10	Sol.	0.034	0.86	0.030	0.76	0.427	10.85	163	243
6QA-0803Q	8	7	0.040	1.02	0.045	1.14	0.570	14.47	275	410
6QA-0603Q	6	7	0.051	1.30	0.045	1.14	0.695	17.65	423	629
6QA-0403Q	4	7	0.051	1.30	0.045	1.14	0.774	19.66	452	673
6QA-0303Q	3	7	0.051	1.30	0.080	2.03	0.925	23.48	801	1,192
6QA-0203Q	2	7	0.051	1.30	0.080	2.03	0.992	25.20	951	1,415

Add the following to the Anixter part numbers for colour code:

-01 = White -02 = Black -03 = Red -04 = Green -05 = Yellow
-06 = Blue -07 = Brown -08 = Orange -09 = Grey

NMWU

Non-metallic Sheathed Cable, Copper Conductor, 60°C, 300 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Solid or stranded annealed (soft) bare copper
2. INSULATION: Polyvinyl Chloride (PVC) insulation and nylon jacket over each phase conductor
3. JACKET: Black Polyvinyl Chloride (PVC)
4. CONSTRUCTION: Conductors are colour coded, and laid parallel or cabled with bare ground wire
5. TEMPERATURE: 60°C
6. VOLTAGE: 300 V
7. STANDARDS: In accordance with CSA C22.2 No.48

APPLICATIONS

For exposed and concealed wiring in dry, damp or wet locations where not exposed to mechanical injury.
For use in Category 1 and Category 2 locations and suitable for direct burial installations in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	No. of Strands	Insulation Thickness		Jacket Thickness		Nominal O.D.		Approx. Weight	
	AWG		in.	mm	in.	mm	in.	mm	lb./1,000 ft.	kg/km
TWO-CONDUCTORS WITH GROUND										
6QB-1402	14	Sol.	0.060	1.52	0.030	0.76	0.492 x 0.244	12.50 x 6.20	89	132
6QB-1202	12	Sol.	0.060	1.52	0.030	0.76	0.526 x 0.261	13.35 x 6.62	109	163
6QB-1002	10	Sol.	0.060	1.52	0.030	0.76	0.585 x 0.282	14.85 x 7.16	147	219
6QB-0802	8	7	0.075	1.91	0.045	1.14	0.776 x 0.382	19.71 x 9.70	253	377
6QB-0602	6	7	0.090	2.29	0.045	1.14	0.908 x 0.448	23.06 x 11.38	355	528
THREE-CONDUCTORS WITH GROUND										
6QB-1403	14	Sol.	0.060	1.52	0.030	0.76	0.458	11.63	116	172
6QB-1203	12	Sol.	0.060	1.52	0.030	0.76	0.494	12.54	146	217
6QB-1003	10	Sol.	0.060	1.52	0.030	0.76	0.539	13.70	198	295
6QB-0803	8	7	0.075	1.91	0.045	1.14	0.721	18.31	338	503
6QB-0603	6	7	0.090	2.29	0.045	1.14	0.863	21.93	487	724

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AC90 Copper

Copper Conductor, XLPE Insulation, Aluminum Interlocking Armour, 90°C, 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Annealed (soft) bare copper
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. GROUNDING CONDUCTOR: Bare copper
4. ARMOUR: Aluminum interlocking armour
5. VOLTAGE: 600 V
6. TEMPERATURE: 90°C
7. STANDARDS: In accordance with CSA C22.2 No.51
8. COLOUR CODING: 2/C (Black, White); 3/C (Black, White, Red); 4/C (Black, Red, Blue, White)

APPLICATIONS

For use in ventilated and unventilated cable troughs and flexible cableways in dry locations.
Also suitable for exposed and concealed wiring in dry locations in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	Bonding Conductor Size	Insulation Thickness		Nominal Diameter Over Armour		Cable Weight	
	AWG	AWG	in.	mm	in.	mm	lb./1,000 ft.	kg/km
TWO COPPER CONDUCTORS								
7Q-1402	14 (Solid)	14	0.030	0.76	0.47	11.94	98	145
7Q-1202	12 (Solid)	14	0.030	0.76	0.51	12.95	115	176
7Q-1002	10 (Solid)	12	0.030	0.76	0.55	13.97	156	233
THREE COPPER CONDUCTORS								
7Q-1403	14 (Solid)	14	0.030	0.76	0.49	12.45	115	171
7Q-1203	12 (Solid)	14	0.030	0.76	0.53	13.46	145	216
7Q-1003	10 (Solid)	12	0.030	0.76	0.57	14.48	195	290
7Q-0803	8	10	0.045	1.14	0.75	19.05	340	506
7Q-0603	6	8	0.045	1.14	0.84	21.34	475	707
7Q-0403	4	8	0.045	1.14	0.95	24.13	650	967
7Q-0303	3	6	0.045	1.14	1.00	25.40	800	1,190
7Q-0203	2	6	0.045	1.14	1.06	26.92	950	1,414
7Q-0103	1	6	0.055	1.40	1.20	30.48	1,155	1,719
7Q-1013	1/0	6	0.055	1.40	1.28	32.51	1,380	2,053
7Q-2023	2/0	6	0.055	1.40	1.38	35.05	1,670	2,485
7Q-3033	3/0	4	0.055	1.40	1.49	37.85	2,075	3,088
7Q-4043	4/0	4	0.055	1.40	1.61	40.89	2,520	3,750
FOUR COPPER CONDUCTORS								
7Q-1404	14 (Solid)	14	0.030	0.76	0.52	13.21	137	204
7Q-1204	12 (Solid)	14	0.030	0.76	0.56	14.22	175	260
7Q-1004	10 (Solid)	12	0.030	0.76	0.62	15.75	239	356
7Q-0804	8	10	0.045	1.14	0.73	18.54	355	528
7Q-0604	6	8	0.045	1.14	0.93	23.62	585	870
7Q-0404	4	8	0.045	1.14	1.03	26.16	815	1,213
7Q-0304	3	6	0.045	1.14	1.11	28.19	1,005	1,495
7Q-0204	2	6	0.045	1.14	1.18	29.97	1,200	1,786
7Q-0104	1	6	0.055	1.40	1.31	33.27	1,465	2,180
7Q-1014	1/0	6	0.055	1.40	1.41	35.81	1,770	2,634
7Q-2024	2/0	6	0.055	1.40	1.51	38.35	2,115	3,147
7Q-3034	3/0	4	0.055	1.40	1.63	41.40	2,670	3,973
7Q-4044	4/0	4	0.055	1.40	1.82	46.23	3,375	5,022

AC90 Aluminum

Aluminum Conductor, XLPE Insulation, Aluminum Interlocking Armour, 90°C, 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Solid or stranded aluminum
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. GROUNDING CONDUCTOR: Bare aluminum
4. ARMOUR: Aluminum interlocking armour
5. VOLTAGE: 600 V
6. TEMPERATURE: 90°C
7. STANDARDS: In accordance with CSA C22.2 No.51
8. COLOUR CODING: 2/C (Black, White); 3/C (Black, White, Red); 4/C (Black, Red, Blue, White)

APPLICATIONS

For use in ventilated and unventilated cable troughs and flexible cableways in dry locations.
Also suitable for exposed and concealed wiring in dry locations in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	Bonding Conductor Size	Insulation Thickness		Nominal Diameter Over Armour		Cable Weight	
	AWG	AWG	in.	mm	in.	mm	lb./1,000 ft.	kg/km
TWO ALUMINUM CONDUCTORS								
7Q-1202AL	12 (Solid)	12	0.030	0.76	0.51	12.95	76	114
7Q-1002AL	10 (Solid)	10	0.030	0.76	0.55	13.97	92	137
THREE ALUMINUM CONDUCTORS								
7Q-1203AL	12 (Solid)	12	0.030	0.76	0.53	13.46	95	141
7Q-1003AL	10 (Solid)	10	0.030	0.76	0.57	14.48	115	171
7Q-0803AL	8	10	0.045	1.14	0.75	19.05	200	298
7Q-0603AL	6	8	0.045	1.14	0.81	20.57	255	379
7Q-0403AL	4	6	0.045	1.14	0.91	23.11	330	491
7Q-0303AL	3	6	0.045	1.14	0.96	24.38	375	558
7Q-0203AL	2	6	0.045	1.14	1.02	25.91	430	640
7Q-0103AL	1	4	0.055	1.40	1.14	28.96	530	789
7Q-1013AL	1/0	4	0.055	1.40	1.22	30.99	605	900
7Q-2023AL	2/0	4	0.055	1.40	1.30	33.02	710	1,056
7Q-3033AL	3/0	4	0.055	1.40	1.41	35.81	825	1,228
7Q-4043AL	4/0	4	0.055	1.40	1.52	38.61	975	1,451
FOUR ALUMINUM CONDUCTORS								
7Q-1204AL	12 (Solid)	12	0.030	0.76	0.56	14.22	102	152
7Q-1004AL	10 (Solid)	10	0.030	0.76	0.62	15.75	128	190
7Q-0804AL	8	10	0.045	1.14	0.73	18.54	180	268
7Q-0604AL	6	8	0.045	1.14	0.89	22.61	305	454
7Q-0404AL	4	6	0.045	1.14	1.00	25.40	405	603
7Q-0304AL	3	6	0.045	1.14	1.06	26.92	560	833
7Q-0204AL	2	6	0.045	1.14	1.13	28.70	530	789
7Q-0104AL	1	4	0.055	1.40	1.26	32.00	650	967
7Q-1014AL	1/0	4	0.055	1.40	1.35	34.29	760	1,131
7Q-2024AL	2/0	4	0.055	1.40	1.44	36.58	880	1,309
7Q-3034AL	3/0	4	0.055	1.40	1.55	39.37	1,035	1,540
7Q-4044AL	4/0	4	0.055	1.40	1.67	42.42	1,335	1,986

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Type LVT (Low-voltage Thermostat)

Solid Copper Conductor, PVC Insulation, FT4, 60°C, 30 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Solid annealed (soft) bare copper
2. INSULATION: Colour-coded thermoplastic insulation; twisted conductors
3. JACKET: Polyvinyl Chloride (PVC); FT4
4. TEMPERATURE: 60°C
5. VOLTAGE: 30V
6. STANDARDS: In accordance with CSA C22.2 No.35
7. COLOURS: Various colours available; see note below. Please contact your local Anixter sales office.

APPLICATIONS

For use with thermostat control, heating and air conditioning installations, touch-plate systems, burglar alarms, intercom systems, door bells, annunciator and bell systems, remote control units, signal systems and other low-voltage installations.

Anixter No.	Conductor Size	No. of Conductors	Insulation Thickness		Jacket Thickness		Nominal O.D.		Approx. Weight	
	AWG		in.	mm	in.	mm	in.	mm	lb./1,000 ft.	kg/km
18 AWG										
6T-1802LVT-XX-FR	18	2	0.015	0.38	0.030	0.76	0.210	5.33	22	33
6T-1803LVT-XX-FR	18	3	0.015	0.38	0.030	0.76	0.223	5.66	31	46
6T-1804LVT-XX-FR	18	4	0.015	0.38	0.030	0.76	0.243	6.17	39	58
6T-1805LVT-XX-FR	18	5	0.015	0.38	0.030	0.76	0.264	6.71	47	70
6T-1806LVT-XX-FR	18	6	0.015	0.38	0.030	0.76	0.286	7.26	55	82
6T-1807LVT-XX-FR	18	7	0.015	0.38	0.030	0.76	0.286	7.26	62	92
6T-1808LVT-XX-FR	18	8	0.015	0.38	0.030	0.76	0.309	7.85	69	104
6T-1809LVT-XX-FR	18	9	0.015	0.38	0.030	0.76	0.327	8.31	78	116
6T-1810LVT-XX-FR	18	10	0.015	0.38	0.030	0.76	0.355	9.02	85	127
6T-1812LVT-XX-FR	18	12	0.015	0.38	0.030	0.76	0.365	9.27	100	149
16 AWG										
6T-1602LVT-XX-FR	16	2	0.015	0.38	0.030	0.76	0.234	5.94	32	48
6T-1603LVT-XX-FR	16	3	0.015	0.38	0.030	0.76	0.247	6.27	43	65
6T-1604LVT-XX-FR	16	4	0.015	0.38	0.030	0.76	0.269	6.83	55	82

Replace -XX in Anixter part numbers for colour code:

01 - White, 02 - Black, 03 - Red, 04 - Green, 05 - Yellow
06 - Blue, 07 - Brown, 08 - Orange, 09 - Grey

Type SIS

Switchboard Wire, Tinned Copper Conductor, XLPE Insulation, 90°C, 600 V

SPECIFICATIONS

1. CONDUCTOR: Solid or stranded annealed (soft) tinned copper
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. TEMPERATURE: 90°C
4. VOLTAGE: 600 V
5. NOTES: VW1-rated or CSA material available, please contact your local Anixter sales office.

APPLICATIONS

For use in wiring switchboards and all other types of control apparatus. Resists heat, moisture, flame, oil and corrosive vapors.

Anixter No.	Conductor Size	No. of Strands	Insulation Thickness		Nominal O.D.		Approx. Weight	
	AWG		in.	mm	in.	mm	lb./1,000 ft.	kg/km
SINGLE SOLID CONDUCTOR								
6KL-1801	18	1	0.030	0.79	0.102	2.59	10	14
6KL-1601	16	1	0.030	0.79	0.110	2.79	14	20
6KL-1401	14	1	0.030	0.79	0.130	3.30	19	28
6KL-1201	12	1	0.030	0.79	0.150	3.81	28	41
6KL-1001	10	1	0.030	0.79	0.170	4.32	41	61
6KL-0801	8	1	0.045	1.19	0.230	5.84	69	102
6KL-0601	6	1	0.060	1.57	0.300	7.62	110	163
SINGLE STRANDED CONDUCTOR								
6KL-1801S	18	7	0.030	0.79	0.110	2.79	11	16
6KL-1601S	16	7	0.030	0.79	0.120	3.05	15	22
6KL-1401S	14	7	0.030	0.79	0.140	3.56	20	28
6KL-1201S	12	7	0.030	0.79	0.160	4.06	28	41
6KL-1001S	10	7	0.030	0.79	0.187	4.57	42	62
6KL-0801S	8	7	0.045	1.19	0.250	6.35	70	104
6KL-0601S	6	7	0.060	1.57	0.320	8.13	113	168
6KL-0401S	4	7	0.060	1.57	0.380	9.65	164	244
SINGLE FLEXIBLE STRANDED CONDUCTOR								
6KL-1801F	18	16	0.030	0.79	0.112	2.84	11	16
6KL-1601F	16	26	0.030	0.79	0.130	3.30	15	22
6KL-1401F	14	41	0.030	0.79	0.140	3.56	20	29
6KL-1201F	12	65	0.030	0.79	0.160	4.06	28	41
6KL-1001F	10	105	0.030	0.79	0.190	4.83	43	63
6KL-0801F	8	133	0.045	1.19	0.270	6.86	75	111
6KL-0601F	6	133	0.060	1.57	0.340	8.64	119	177
6KL-0401F	4	133	0.060	1.57	0.400	10.16	170	252

Add the following to the Anixter part numbers for colour code:

-01 = White -02 = Black -03 = Red -04 = Green -05 = Yellow
-06 = Blue -07 = Brown -08 = Orange -09 = Grey

Note: For CSA material, add the suffix - CSA to the Anixter part numbers
Sizes 14 AWG and smaller are not CSA certified, they are UL 44 VW1

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Building, Equipment and Appliance Wire

Type TEW

Thermoplastic Equipment Wire, 105°C, 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Solid or stranded bare or tinned copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. TEMPERATURE: 105°C
4. VOLTAGE: 600 V
5. STANDARDS: In accordance with CSA C22.2 No.127
7. COLOURS: Various colours available; see note below. Please contact your local Anixter sales office.

APPLICATIONS

For use with machine tools and appliances where temperatures do not exceed 105°C and for internal wiring of electrical equipment. Intended only for internal wiring in equipment – not as a general-purpose circuit conductor for use in raceways.

Anixter No.	Conductor Size	No. of Strands	Insulation Thickness		Nominal O.D.		Approx. Weight	
	AWG		in.	mm	in.	mm	lb./1,000 ft.	kg/km
SINGLE SOLID CONDUCTOR								
6WA-2401	24	Sol.	0.030	0.762	0.082	2.08	4	7
6WA-2201	22	Sol.	0.030	0.762	0.087	2.20	5	8
6WA-2001	20	Sol.	0.030	0.762	0.094	2.38	7	10
6WA-1801	18	Sol.	0.030	0.762	1.102	2.59	9	14
6WA-1601	16	Sol.	0.030	0.762	0.113	2.87	13	19
6WA-1401	14	Sol.	0.030	0.762	0.126	3.20	18	27
6WA-1201	12	Sol.	0.030	0.762	0.143	3.63	26	39
6WA-1001	10	Sol.	0.030	0.762	0.164	4.16	39	58
SINGLE STRANDED CONDUCTOR								
6WA-2407	24	7 x 0.008	0.030	0.762	0.085	2.15	4	7
6WA-2207	22	7 x 0.010	0.030	0.762	0.092	2.83	6	9
6WA-2007	20	7 x 0.013	0.030	0.762	0.100	2.64	8	12
6WA-1807	18	7 x 0.015	0.030	0.762	0.100	2.76	10	15
6WA-1607	16	7 x 0.019	0.030	0.762	0.120	3.04	14	21
6WA-1407	14	7 x 0.024	0.030	0.762	0.135	3.42	19	28
6WA-1207	12	7 x 0.030	0.030	0.762	0.154	3.91	28	41
6WA-1007	10	7 x 0.038	0.030	0.762	0.178	4.52	42	63
6WA-2010	20	10 x 0.010	0.030	0.762	0.097	2.46	7	11
6WA-1816	18	16 x 0.010	0.030	0.762	0.109	2.76	10	14
6WA-1626	16	26 x 0.010	0.030	0.762	0.120	3.04	14	20
6WA-1441	14	41 x 0.010	0.030	0.762	0.136	3.45	19	28
6WA-1265	12	65 x 0.010	0.030	0.762	0.157	3.98	29	43
6WA-1104	10	104 x 0.010	0.030	0.762	0.183	4.64	40	60
6WA-1616	16	19 x 0.012	0.030	0.762	0.120	3.04	18	27
6WA-1419	14	19 x 0.015	0.030	0.762	0.135	3.42	19	29
6WA-1219	12	19 x 0.018	0.030	0.762	0.155	3.93	27	41
6WA-1019	10	19 x 0.023	0.030	0.762	0.180	4.57	42	63

Add the following to the Anixter part numbers for colour code:

-01 = White -02 = Black -03 = Red -04 = Green -05 = Yellow
-06 = Blue -07 = Brown -08 = Orange -09 = Grey

Type FAS 105 (Unshielded)

Solid Bare Copper Conductors, PVC Insulation, Red PVC Jacket, 105°C, 300 V, CSA

SPECIFICATIONS
1. CONDUCTOR: Solid bare copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. JACKET: Polyvinyl chloride (PVC); red; FT4
4. TEMPERATURE: 105°C
5. VOLTAGE: 300 V
6. STANDARDS: In accordance with CSA C22.2 No.208

APPLICATIONS
Power limited fire alarm and security systems.

Anixter No.	No. of Conductors	Stranding	Insulation Thickness		Outer Jacket Thickness		Nominal O.D.	
			in.	mm	in.	mm	in.	mm
18 AWG								
9C180209	2	Solid	0.015	0.38	0.035	0.89	0.145 x 0.216	3.68 x 5.48
9C180210	2	Solid	0.015	0.38	0.035	0.89	0.216	5.48
9C180301	3	Solid	0.015	0.38	0.035	0.89	0.226	5.74
9C180404	4	Solid	0.015	0.38	0.035	0.89	0.245	6.21
9C180603	6	Solid	0.015	0.38	0.040	1.02	0.297	7.54
9C180803	8	Solid	0.015	0.38	0.040	1.02	0.319	8.10
9C181002	10	Solid	0.015	0.38	0.040	1.02	0.344	8.74
9C182001	20	Solid	0.015	0.38	0.050	1.27	0.476	12.08
9C183001	30	Solid	0.015	0.38	0.050	1.27	0.566	14.38
16 AWG								
9C160204	2	Solid	0.015	0.38	0.035	0.89	0.156 x 0.238	3.96 x 6.04
9C160205	2	Solid	0.015	0.38	0.035	0.89	0.238	6.04
9C160403	4	Solid	0.015	0.38	0.035	0.89	0.271	6.39
14 AWG								
9C140202	2	Solid	0.015	0.38	0.035	0.89	0.256	6.51

Solid Bare Copper Conductors, PVC Insulation, Red Inner PVC Jacket, AIA, 105°C, 300 V, CSA

SPECIFICATIONS
1. CONDUCTOR: Solid bare copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. INNER JACKET: Polyvinyl Chloride (PVC); red
4. ARMOUR: Aluminum interlocking armour; FT4; no overall jacket
4. TEMPERATURE: 105°C
5. VOLTAGE: 300 V
6. STANDARDS: In accordance with CSA C22.2 No.208

Anixter No.	Conductor Size AWG	No. of Conductors	Stranding	Insulation Thickness		Outer Jacket Thickness		Nominal O.D.	
				in.	mm	in.	mm	in.	mm
9C180302	18	2	Solid	0.015	0.38	0.038	0.97	0.451	11.46
9C180304	18	3	Solid	0.015	0.38	0.047	1.19	0.451	11.46
9C180405	18	4	Solid	0.015	0.38	0.038	0.97	0.451	11.46
9C180500	18	5	Solid	0.015	0.38	0.035	0.89	0.465	11.82
9C180604	18	6	Solid	0.015	0.38	0.040	1.02	0.497	12.62
9C180804	18	8	Solid	0.015	0.38	0.040	1.02	0.519	13.18
9C181003	18	10	Solid	0.015	0.38	0.040	1.02	0.544	13.82

Note: Type FAS 105 with red aluminum interlocking armour is also available (Anixter part number prefix FAS); please contact your local Anixter sales office.

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Building, Equipment and Appliance Wire

Type FAS 105 (Shielded)

Solid Bare Copper Conductors, PVC Insulation, Overall Shield, Red PVC Jacket, 105°C, 300 V, CSA

SPECIFICATIONS
1. CONDUCTOR: Solid bare copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. SHIELD: Overall aluminum/mylar shield with tinned copper drain wire
4. JACKET: Polyvinyl Chloride (PVC); red; FT4
5. TEMPERATURE: 105°C
6. VOLTAGE: 300 V
7. STANDARDS: In accordance with CSA C22.2 No.208

APPLICATIONS
Power limited fire alarm and security systems.

Anixter No.	No. of Conductors	Stranding	Insulation Thickness		Outer Jacket Thickness		Nominal O.D.	
			in.	mm	in.	mm	in.	mm
18 AWG								
9E180205	2	Solid	0.015	0.38	0.035	0.89	0.223	5.65
9E180302	3	Solid	0.015	0.38	0.035	0.89	0.240	6.10
9E180404	4	Solid	0.015	0.38	0.035	0.89	0.252	6.39
9E180502	5	Solid	0.015	0.38	0.035	0.89	0.262	6.65
16 AWG								
9E160202	2	Solid	0.015	0.38	0.035	0.89	0.242	6.13
9E160302	3	Solid	0.015	0.38	0.040	1.02	0.265	6.73
9E160401	4	Solid	0.015	0.38	0.040	1.02	0.286	7.25
14 AWG								
9E140200	2	Solid	0.015	0.38	0.035	0.89	0.267	6.77

Solid Bare Copper Conductors, PVC Insulation, Overall Shield, Red Inner PVC Jacket, AIA, 105°C, 300 V, CSA

SPECIFICATIONS
1. CONDUCTOR: Solid bare copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. SHIELD: Overall aluminum/mylar shield with tinned copper drain wire
4. JACKET: Polyvinyl Chloride (PVC); Red
5. ARMOUR: Aluminum interlocking armour; FT4; no overall jacket
6. TEMPERATURE: 105°C
7. VOLTAGE: 300 V
8. STANDARDS: CSA C22.2 No.208

APPLICATIONS
Power limited fire alarm and security systems.

Anixter No.	No. of Conductors	Stranding	Insulation Thickness		Outer Jacket Thickness		Nominal O.D.	
			in.	mm	in.	mm	in.	mm
18 AWG								
9E180301	3	Solid	0.015	0.38	0.035	0.89	0.512	13.02
16 AWG								
9E160301	3	Solid	0.015	0.38	0.035	0.89	0.470	11.95

Note: Type FAS 105 with red aluminum interlocking armour is also available (Anixter part number prefix FAS); please contact your local Anixter sales office.

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Rapid response is not only our mindset – it's built into our processes.

Armoured Power and Control Cable

2

Section 2 Armoured Power and Control Cable

Teck 90 600 V 14 AWG. P.2-3

Teck 90 600 V 12 AWG. P.2-4

Teck 90 600 V 10 AWG. P.2-5

Teck 90 600 V Composite. P.2-6

Teck 90 1,000 V Single Conductor. P.2-7

Teck 90 1,000 V Two Conductor. P.2-8

Teck 90 1,000 V Three Conductor. P.2-9

Teck 90 1,000 V Four Conductor. P.2-10

Teck 90 1,000 V Single Conductor Aluminum. P.2-11

Teck 90 1,000 V Multiconductor Aluminum. P.2-12

Teck 90 5 kV (Nonshielded) Single Conductor. P.2-13

Teck 90 5 kV (Nonshielded) Three Conductor. P.2-14

Teck 5 kV (Shielded) Single Conductor. P.2-15

Teck 5 kV (Shielded) Three Conductor. P.2-16

Teck 15 kV Single Conductor. P.2-17

Teck 15 kV Three Conductor. P.2-18

Teck 25 kV Single Conductor. P.2-19

Teck 25 kV Three Conductor. P.2-20

Teck 28 kV Single Conductor. P.2-21

Teck 28 kV Three Conductor. P.2-22

AC90 Copper. P.2-23

AC90 Aluminum. P.2-24

ACWU Single Conductor. P.2-25

ACWU Multiconductor. P.2-26

Type RA90 Copper. P.2-27

Type RA90 Aluminum. P.2-28

Teck 90 600 V 14 AWG

14 AWG Multiconductor, XLPE Insulation, Inner/Outer PVC Jacket, Aluminum Interlocking Armour, 90°C, 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Class B stranded bare copper
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. GROUNDING CONDUCTOR: 14 AWG uninsulated Class B stranded grounding conductor is included in the cable assembly
4. ASSEMBLY: Multiple conductor cables are assembled with suitable fillers and binder tape
5. INNER JACKET: Polyvinyl Chloride (PVC)
6. ARMOUR: Aluminum interlocking armour
7. OVERALL JACKET: Black Polyvinyl Chloride (PVC); FT4; -40°C
8. TEMPERATURE: 90°C
9. VOLTAGE: 600 V
10. STANDARDS: In accordance with CSA C22.2 No.131 and CSA C22.2 No.174 for use in Class 1, Division 1 Hazardous Locations

APPLICATIONS

Suitable for direct earth burial and for exposed or concealed wiring in wet or dry locations.
Also for use in ventilated, nonventilated and ladder-type cable tray in wet or dry locations in accordance with the Canadian Electrical Code.

Anixter No.	No. of Conductors	Insulation Thickness		Inner Jacket Thickness		Nominal Diameters						Approx. Weight	
						Inner Jacket		Armour		Outer Jacket			
		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lb. /1,000 ft.	kg/km
7TD-1402AJ	2	0.030	0.76	0.045	1.14	0.369	9.37	0.600	15.24	0.688	17.48	191	284
7TD-1403AJ	3	0.030	0.76	0.045	1.14	0.390	9.91	0.621	15.77	0.709	18.01	225	335
7TD-1404AJ	4	0.030	0.76	0.045	1.14	0.444	11.27	0.676	17.17	0.761	19.33	266	396
7TD-1405AJ	5	0.030	0.76	0.045	1.14	0.472	11.99	0.703	17.86	0.787	19.99	306	455
7TD-1406AJ	6	0.030	0.76	0.045	1.14	0.515	13.08	0.743	18.87	0.828	21.03	316	471
7TD-1407AJ	7	0.030	0.76	0.045	1.14	0.522	13.26	0.755	19.18	0.844	21.44	338	502
7TD-1408AJ	8	0.030	0.76	0.060	1.52	0.597	15.16	0.825	20.96	0.909	23.09	384	571
7TD-1410AJ	10	0.030	0.76	0.060	1.52	0.671	17.04	0.898	22.81	0.984	24.99	448	667
7TD-1412AJ	12	0.030	0.76	0.060	1.52	0.700	17.78	0.927	23.55	1.013	25.73	489	728
7TD-1415AJ	15	0.030	0.76	0.060	1.52	0.750	19.05	0.990	25.15	1.090	27.39	583	868
7TD-1420AJ	20	0.030	0.76	0.060	1.52	0.850	21.59	1.105	28.07	1.189	30.20	766	1,140
7TD-1425AJ	25	0.030	0.76	0.080	2.03	0.983	24.99	1.239	31.47	1.326	33.68	852	1,268
7TD-1430AJ	30	0.030	0.76	0.080	2.03	1.060	26.92	1.311	33.30	1.399	35.53	995	1,481
7TD-1440AJ	40	0.030	0.76	0.080	2.03	1.179	29.95	1.431	36.35	1.519	38.86	1,224	1,822
7TD-1450AJ	50	0.030	0.76	0.080	2.03	1.282	32.56	1.535	38.99	1.642	41.71	1,468	2,184

Note: For Steel Interlock Armour (SIA), replace Anixter part number suffix **AJ** with **SJ**.

Armoured Power and Control Cable

Teck 90 600 V 12 AWG

12 AWG Multiconductor, XLPE Insulation, Inner/Outer PVC Jacket, Aluminum Interlocking Armour, 90°C, 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Class B stranded bare copper
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. GROUNDING CONDUCTOR: 14 AWG uninsulated Class B stranded grounding conductor is included in the cable assembly
4. ASSEMBLY: Multiple conductor cables are assembled with suitable fillers and binder tape
5. INNER JACKET: Polyvinyl Chloride (PVC)
6. ARMOUR: Aluminum interlocking armour
7. OVERALL JACKET: Black Polyvinyl Chloride (PVC); FT4; -40°C
8. TEMPERATURE: 90°C
9. VOLTAGE: 600 V
10. STANDARDS: In accordance with CSA C22.2 No.131 and CSA C22.2 No.174 for use in Class 1, Division 1 Hazardous Locations

APPLICATIONS

Suitable for direct earth burial and for exposed or concealed wiring in wet or dry locations.
Also for use in ventilated, nonventilated and ladder-type cable tray in wet or dry locations in accordance with the Canadian Electrical Code.

Anixter No.	No. of Conductors	Insulation Thickness		Inner Jacket Thickness		Nominal Diameters						Approx. Weight	
						Inner Jacket		Armour		Outer Jacket			
		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lb. /1,000 ft.	kg/km
7TE-1202AJ	2	0.030	0.76	0.045	1.14	0.405	10.29	0.636	16.15	0.724	18.39	238	354
7TE-1203AJ	3	0.030	0.76	0.045	1.14	0.429	10.90	0.660	16.76	0.745	18.92	280	417
7TE-1204AJ	4	0.030	0.76	0.045	1.14	0.502	12.75	0.733	18.62	0.817	20.75	298	443
7TE-1205AJ	5	0.030	0.76	0.045	1.14	0.522	13.26	0.752	19.10	0.939	21.31	347	516
7TE-1206AJ	6	0.030	0.76	0.060	1.52	0.599	15.21	0.828	21.03	0.912	23.16	402	598
7TE-1207AJ	7	0.030	0.76	0.060	1.52	0.614	15.60	0.843	21.41	0.927	23.55	438	652
7TE-1208AJ	8	0.030	0.76	0.060	1.52	0.656	16.66	0.884	22.45	0.970	24.66	476	708
7TE-1210AJ	10	0.030	0.76	0.060	1.52	0.744	18.90	0.988	25.10	1.077	27.35	531	790
7TE-1212AJ	12	0.030	0.76	0.060	1.52	0.776	19.71	1.037	26.34	1.125	28.57	651	969
7TE-1215AJ	15	0.030	0.76	0.060	1.52	0.842	21.39	1.101	27.97	1.189	30.20	755	1,123
7TE-1220AJ	20	0.030	0.76	0.080	2.03	0.974	24.74	1.233	31.32	1.321	33.55	973	1,448
7TE-1225AJ	25	0.030	0.76	0.080	2.03	1.093	27.76	1.348	34.24	1.436	36.47	1,165	1,733
7TE-1230AJ	30	0.030	0.76	0.080	2.03	1.167	29.64	1.421	36.09	1.509	38.32	1,302	1,938
7TE-1240AJ	40	0.030	0.76	0.080	2.03	1.367	34.72	1.642	41.71	1.737	44.12	1,593	2,370

Note: For Steel Interlock Armour (SIA), replace Anixter part number suffix **AJ** with **SJ**.

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Teck 90 600 V 10 AWG

10 AWG Multiconductor, XLPE Insulation, Inner/Outer PVC Jacket, Aluminum Interlocking Armour, 90°C, 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Class B stranded bare copper
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. GROUNDING CONDUCTOR: 12 AWG uninsulated Class B stranded grounding conductor is included in the cable assembly
4. ASSEMBLY: Multiple conductor cables are assembled with suitable fillers and binder tape
5. INNER JACKET: Polyvinyl Chloride (PVC)
6. ARMOUR: Aluminum interlocking armour
7. OVERALL JACKET: Black Polyvinyl Chloride (PVC); FT4; -40°C
8. TEMPERATURE: 90°C
9. VOLTAGE: 600 V
10. STANDARDS: In accordance with CSA C22.2 No.131 and CSA C22.2 No.174 for use in Class 1, Division 1 Hazardous Locations

APPLICATIONS

Suitable for direct earth burial and for exposed or concealed wiring in wet or dry locations.
Also for use in ventilated, nonventilated and ladder-type cable tray in wet or dry locations in accordance with the Canadian Electrical Code.

Anixter No.	No. of Conductors	Insulation Thickness		Inner Jacket Thickness		Nominal Diameters						Approx. Weight	
						Inner Jacket		Armour		Outer Jacket			
		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lb. /1,000 ft.	kg/km
7TF-1002AJ	2	0.030	0.76	0.045	1.14	0.452	11.48	0.684	17.37	0.769	19.53	272	405
7TF-1003AJ	3	0.030	0.76	0.045	1.14	0.481	12.23	0.712	18.08	0.798	20.27	339	504
7TF-1004AJ	4	0.030	0.76	0.045	1.14	0.560	14.22	0.783	19.89	0.867	22.02	383	570
7TF-1006AJ	6	0.030	0.76	0.060	1.52	0.671	17.04	0.900	22.86	0.985	25.01	517	770
7TF-1008AJ	8	0.030	0.76	0.060	1.52	0.726	18.44	0.954	24.23	1.047	26.59	617	918
7TF-1010AJ	10	0.030	0.76	0.060	1.52	0.840	21.33	1.100	27.94	1.188	30.18	776	1,154
7TF-1012AJ	12	0.030	0.76	0.080	2.03	0.917	23.29	1.178	29.92	1.266	32.16	885	1,318
7TF-1015AJ	15	0.030	0.76	0.080	2.03	0.987	25.06	1.247	31.67	1.335	33.91	1,056	1,571
7TF-1020AJ	20	0.030	0.76	0.080	2.03	1.098	27.89	1.357	34.47	1.445	36.70	1,291	1,966
7TF-1025AJ	25	0.030	0.76	0.080	2.03	1.229	31.22	1.504	38.20	1.596	40.54	1,528	2,274
7TF-1030AJ	30	0.030	0.76	0.080	2.03	1.317	33.45	1.573	39.95	1.680	42.67	1,770	2,634
7TF-1040AJ	40	0.030	0.76	0.080	2.03	1.567	39.80	1.917	48.69	1.967	49.96	2,298	3,421

Note: For Steel Interlock Armour (SIA), replace Anixter part number suffix **AJ** with **SJ**.

Teck 90 600 V Composite

Three Power Conductors, Three 14 AWG Control Conductors, Aluminum Interlocking Armour, 90°C, 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Class B stranded bare copper; three power, three 14 AWG control and one grounding conductor
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. GROUNDING CONDUCTOR: Uninsulated Class B stranded grounding conductor is included in the cable assembly
4. ASSEMBLY: Multiple conductor cables are assembled with suitable fillers and binder tape
5. INNER JACKET: Polyvinyl Chloride (PVC)
6. ARMOUR: Aluminum interlocking armour
7. OVERALL JACKET: Black Polyvinyl Chloride (PVC); FT4; -40°C
8. TEMPERATURE: 90°C
9. VOLTAGE: 600 V
10. STANDARDS: In accordance with CSA C22.2 No.131 and CSA C22.2 No.174 for use in Class 1, Division 1 Hazardous Locations

APPLICATIONS

Suitable for direct earth burial and for exposed or concealed wiring in wet or dry locations.
Also for use in ventilated, nonventilated and ladder-type cable tray in wet or dry locations in accordance with the Canadian Electrical Code.

Anixter No.	Power Conductor Size	Ground Conductor Size	Nominal Diameters						Approx. Weight	
			Inner Jacket		Armour		Outer Jacket			
	AWG	AWG	in.	mm	in.	mm	in.	mm	lb./1,000 ft.	kg/km
7TEE-1203AJ	12	14	0.59	15.0	0.75	19.0	0.85	21.5	360	540
7TEE-1003AJ	10	12	0.64	16.5	0.80	20.5	0.90	23.0	430	650
7TEE-0803AJ	8	10	0.72	18.5	0.88	22.5	0.98	25.0	550	820
7TEE-0603AJ	6	8	0.91	23.0	1.13	29.0	1.24	31.5	850	1,250
7TEE-0403AJ	4	8	1.00	25.5	1.22	31.0	1.33	33.5	1,050	1,550
7TEE-0203AJ	2	6	1.03	26.0	1.25	32.0	1.36	34.5	1,300	1,950
7TEE-0103AJ	1	6	1.21	30.5	1.43	36.0	1.53	39.0	1,600	2,400
7TEE-1013AJ	1/0	6	1.28	32.5	1.50	38.0	1.61	41.0	1,900	2,800
7TEE-2023AJ	2/0	6	1.37	35.0	1.59	40.5	1.71	43.5	2,200	3,300
7TEE-3033AJ	3/0	4	1.48	37.5	1.70	43.0	1.81	46.0	2,700	4,000
7TEE-4043AJ	4/0	4	1.58	40.0	1.83	46.5	1.95	49.5	3,200	4,700

Note: For Steel Interlock Armour (SIA), replace Anixter part number suffix AJ with SJ.

Request the latest literature and guides from Anixter.
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Teck 90 1,000 V Single Conductor

Single Conductor, XLPE Insulation, Inner/Outer PVC Jacket, Aluminum Interlocking Armour, 90°C, 1,000 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Class B stranded bare copper
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. GROUNDING CONDUCTOR: Composed of individual copper wires applied helically over the insulation
4. INNER JACKET: Polyvinyl Chloride (PVC)
5. ARMOUR: Aluminum interlocking armour (for single-conductor cables for use in AC circuits, aluminum armour only is provided and nonmagnetic [aluminum] connectors and locknuts must be used)
6. OVERALL JACKET: Black Polyvinyl Chloride (PVC); FT4; -40°C
7. TEMPERATURE: 90°C
8. VOLTAGE: 1,000 V
9. STANDARDS: In accordance with CSA C22.2 No.131 and CSA C22.2 No.174 for use in Class 1, Division 1 Hazardous Locations

APPLICATIONS

Suitable for direct earth burial and for exposed or concealed wiring in wet or dry locations.
Also for use in ventilated, nonventilated and ladder-type cable tray in wet or dry locations in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	Ground Conductor Size	Insulation Thickness		Nominal Diameters						Approx. Weight	
					Inner Jacket		Armour		Outer Jacket			
	AWG/kcmil	AWG	in.	mm	in.	mm	in.	mm	in.	mm	lb. /1,000 ft.	kg/km
7TI-0601AJ	6	8	0.060	1.52	0.453	11.50	0.693	17.60	0.791	20.09	331	493
7TI-0401AJ	4	6	0.060	1.52	0.497	12.63	0.737	18.72	0.835	21.21	428	637
7TI-0301AJ	3	6	0.060	1.52	0.525	13.33	0.765	19.43	0.863	21.92	473	704
7TI-0201AJ	2	6	0.060	1.52	0.555	14.10	0.795	20.19	0.893	22.68	528	786
7TI-0101AJ	1	4	0.080	2.03	0.658	16.70	0.898	22.81	0.996	25.30	696	1,036
7TI-1011AJ	1/0	4	0.080	2.03	0.725	18.42	0.965	24.51	1.069	27.15	781	1,162
7TI-2021AJ	2/0	4	0.080	2.03	0.745	18.84	0.982	24..94	1.072	27.23	873	1,300
7TI-3031AJ	3/0	3	0.080	2.03	0.798	20.27	1.073	27.25	1.163	29.54	1,097	1,632
7TI-4041AJ	4/0	3	0.080	2.03	0.859	21.82	1.134	28.80	1.244	31.60	1,272	1,893
7TI-2501AJ	250	2	0.090	2.29	0.957	24.31	1.232	31.29	1.338	33.98	1,497	2,228
7TI-3001AJ	300	2	0.090	2.29	1.005	25.53	1.280	32.51	1.409	35.79	1,715	2,552
7TI-3501AJ	350	1	0.090	2.29	1.066	27.07	1.341	34.06	1.446	36.73	1,910	2,842
7TI-4001AJ	400	1	0.090	2.29	1.123	28.53	1.398	35.51	1.527	38.79	2,164	3,220
7TI-5001AJ	500	1/0	0.090	2.29	1.204	30.58	1.479	37.57	1.585	40.26	2,515	3,742
7TI-6001AJ	600	1/0	0.090	2.29	1.278	32.47	1.553	39.45	1.682	42.72	2,960	4,405
7TI-7501AJ	750	2/0	0.090	2.29	1.408	35.75	1.683	42.75	1.812	46.02	3,648	5,429
7TI-10001AJ	1000	2/0	0.090	2.29	1.545	39.24	1.896	48.16	2.011	51.08	4,456	6,631

Teck 90 1,000 V Two Conductor

Two Conductor, XLPE Insulation, Inner/Outer PVC Jacket, Aluminum Interlocking Armour, 90°C, 1,000 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Class B stranded bare copper
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. GROUNDING CONDUCTOR: An uninsulated Class B stranded grounding conductor is included in the cable assembly
4. INNER JACKET: Polyvinyl Chloride (PVC)
5. ARMOUR: Aluminum interlocking armour
6. OVERALL JACKET: Black Polyvinyl Chloride (PVC); FT4; -40°C
7. TEMPERATURE: 90°C
8. VOLTAGE: 1,000 V
9. STANDARDS: In accordance with CSA C22.2 No.131 and CSA C22.2 No.174 for use in Class 1, Division 1 Hazardous Locations

APPLICATIONS

Suitable for direct earth burial and for exposed or concealed wiring in wet or dry locations.
Also for use in ventilated, nonventilated and ladder-type cable tray in wet or dry locations in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	Ground Conductor Size	Insulation Thickness		Nominal Diameters						Approx. Weight	
					Inner Jacket		Armour		Outer Jacket			
	AWG/kcmil	AWG	in.	mm	in.	mm	in.	mm	in.	mm	lb. /1,000 ft.	kg/km
7TJ-1402AJ	14	14	0.045	1.14	0.423	10.74	0.663	16.84	0.761	19.32	216	321
7TJ-1202AJ	12	14	0.045	1.14	0.464	11.78	0.696	17.67	0.794	20.17	272	405
7TJ-1002AJ	10	12	0.045	1.14	0.510	12.95	0.750	19.05	0.848	21.54	296	440
7TJ-0802AJ	8	10	0.045	1.14	0.590	14.98	0.819	20.80	0.926	23.52	407	606
7TJ-0602AJ	6	8	0.060	1.52	0.718	18.25	0.945	24.00	1.055	26.80	545	811
7TJ-0402AJ	4	8	0.060	1.52	0.812	20.61	1.084	27.53	1.190	30.18	742	1,104
7TJ-0302AJ	3	6	0.060	1.52	0.902	22.91	1.177	29.90	1.306	33.17	912	1,357
7TJ-0202AJ	2	6	0.060	1.52	0.963	24.45	1.235	31.37	1.339	34.01	1,029	1,531
7TJ-0102AJ	1	6	0.080	2.03	1.110	28.20	1.385	35.18	1.514	38.45	1,252	1,863
7TJ-1012AJ	1/0	6	0.080	2.03	1.185	30.09	1.454	36.93	1.558	39.57	1,451	2,159
7TJ-2022AJ	2/0	6	0.080	2.03	1.263	32.09	1.533	38.94	1.640	41.68	1,675	2,493
7TJ-3032AJ	3/0	4	0.080	2.03	1.358	34.50	1.633	41.48	1.762	44.75	2,031	3,022
7TJ-4042AJ	4/0	4	0.080	2.03	1.463	37.16	1.731	43.97	1.863	47.32	2,385	3,549
7TJ-2502AJ	250	4	0.090	2.29	1.598	40.59	1.948	49.48	2.082	52.88	2,870	4,270
7TJ-3002AJ	300	4	0.090	2.29	1.699	43.15	2.049	52.04	2.183	55.44	3,281	4,882
7TJ-3502AJ	350	3	0.090	2.29	1.852	47.03	2.202	55.93	2.336	59.33	3,837	5,710
7TJ-4002AJ	400	3	0.090	2.29	1.938	49.23	2.288	58.11	2.442	61.52	4,236	6,303
7TJ-5002AJ	500	3	0.090	2.29	2.097	53.27	2.477	62.15	2.580	65.56	5,082	7,563

Note: For Steel Interlock Armour (SIA), replace Anixter part number suffix AJ with SJ.

Request the latest literature and guides from Anixter.
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Teck 90 1,000 V Three Conductor

Three Conductor, XLPE Insulation, Inner/Outer PVC Jacket, Aluminum Interlocking Armour, 90°C, 1,000 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Class B stranded bare copper
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. GROUNDING CONDUCTOR: An uninsulated Class B stranded grounding conductor is included in the cable assembly
4. INNER JACKET: Polyvinyl Chloride (PVC)
5. ARMOUR: Aluminum interlocking armour
6. OVERALL JACKET: Black Polyvinyl Chloride (PVC); FT4; -40°C
7. TEMPERATURE: 90°C
8. VOLTAGE: 1,000 V
9. STANDARDS: In accordance with CSA C22.2 No.131 and CSA C22.2 No.174 for use in Class 1, Division 1 Hazardous Locations

APPLICATIONS

Suitable for direct earth burial and for exposed or concealed wiring in wet or dry locations.
Also for use in ventilated, nonventilated and ladder-type cable tray in wet or dry locations in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	Ground Conductor Size	Insulation Thickness		Nominal Diameters						Approx. Weight	
					Inner Jacket		Armour		Outer Jacket			
	AWG/kcmil	AWG	in.	mm	in.	mm	in.	mm	in.	mm	lb. /1,000 ft.	kg/km
7TK-1403AJ	14	14	0.045	1.14	0.448	11.38	0.685	17.40	0.770	19.56	247	368
7TK-1203AJ	12	14	0.045	1.14	0.503	12.78	0.735	18.67	0.821	20.85	297	442
7TK-1003J	10	12	0.060	1.52	0.576	14.63	0.807	20.50	0.891	22.63	381	567
7TK-0803AJ	8	10	0.060	1.52	0.627	15.93	0.855	21.72	0.942	23.93	491	731
7TK-0603AJ	6	8	0.060	1.52	0.766	19.46	1.035	26.29	1.125	28.58	644	958
7TK-0403AJ	4	8	0.080	2.03	0.904	22.96	1.176	29.87	1.265	32.13	924	1,375
7TK-0303AJ	3	6	0.080	2.03	0.964	24.49	1.236	31.39	1.326	33.68	1,026	1,527
7TK-0203AJ	2	6	0.080	2.03	1.026	26.06	1.300	33.02	1.388	35.26	1,274	1,896
7TK-0103AJ	1	6	0.080	2.03	1.182	30.02	1.457	37.01	1.547	39.29	1,539	2,290
7TK-1013AJ	1/0	6	0.080	2.03	1.256	31.90	1.531	38.89	1.653	41.99	1,852	2,756
7TK-2023AJ	2/0	6	0.080	2.03	1.348	34.24	1.621	41.17	1.729	43.92	2,165	3,222
7TK-3033J	3/0	4	0.080	2.03	1.450	36.83	1.725	43.82	1.835	46.61	2,571	3,826
7TK-4043AJ	4/0	4	0.080	2.03	1.567	39.80	1.815	46.10	1.925	48.90	3,196	4,756
7TK-2503AJ	250	4	0.090	2.29	1.768	44.91	2.120	53.85	2.250	57.15	3,830	5,699
7TK-3003AJ	300	4	0.090	2.29	1.877	47.68	2.235	56.77	2.367	60.12	4,382	6,520
7TK-3503AJ	350	3	0.090	2.29	1.976	50.19	2.330	59.18	2.462	62.53	4,990	7,425
7TK-4003AJ	400	3	0.090	2.29	2.074	52.68	2.422	61.52	2.554	64.87	5,534	8,235
7TK-5003AJ	500	3	0.090	2.29	2.241	56.92	2.595	65.91	2.757	70.03	6,674	9,931
7TK-6003AJ	600	2	0.090	2.29	2.408	61.16	2.758	70.05	2.935	74.55	7,747	11,528
7TK-7503AJ	750	2	0.090	2.29	2.614	66.40	2.959	75.16	3.121	79.27	9,596	14,279
7TK-10003AJ	1000	1	0.090	2.29	3.00	76.20	3.28	83.31	3.44	87.38	12,184	18,130

Note: For Steel Interlock Armour (SIA), replace Anixter part number suffix AJ with SJ.

Teck 90 1,000 V Four Conductor

Four Conductor, XLPE Insulation, Inner/Outer PVC Jacket, Aluminum Interlocking Armour, 90°C, 1,000 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Class B stranded bare copper
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. GROUNDING CONDUCTOR: An uninsulated Class B stranded grounding conductor is included in the cable assembly
4. INNER JACKET: Polyvinyl Chloride (PVC)
5. ARMOUR: Aluminum interlocking armour
6. OVERALL JACKET: Black Polyvinyl Chloride (PVC); FT4, -40°C
7. TEMPERATURE: 90°C
8. VOLTAGE: 1,000 V
9. STANDARDS: In accordance with CSA C22.2 No.131 and CSA C22.2 No.174 for use in Class 1, Division 1 Hazardous Locations

APPLICATIONS

Suitable for direct earth burial and for exposed or concealed wiring in wet or dry locations.
Also for use in ventilated, nonventilated and ladder-type cable tray in wet or dry locations in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	Ground Conductor Size	Insulation Thickness		Nominal Diameters						Approx. Weight	
					Inner Jacket		Armour		Outer Jacket			
	AWG/kcmil	AWG	in.	mm	in.	mm	in.	mm	in.	mm	lb. /1,000 ft.	kg/km
7TL-1404AJ	14	14	0.045	1.14	0.50	12.70	0.72	18.29	0.80	20.32	290	432
7TL-1204AJ	12	14	0.045	1.14	0.57	14.48	0.79	20.07	0.88	22.35	357	531
7TL-1004AJ	10	12	0.045	1.14	0.63	16.00	0.85	21.59	0.93	23.62	455	677
7TL-0804AJ	8	10	0.045	1.14	0.70	17.78	0.92	23.37	1.00	25.40	548	815
7TL-0604AJ	6	8	0.060	1.52	0.90	22.86	1.15	29.21	1.25	31.75	907	1,350
7TL-0404AJ	4	8	0.060	1.52	1.01	25.65	1.26	32.00	1.35	34.29	1,168	1,738
7TL-0304AJ	3	6	0.060	1.52	1.06	26.92	1.31	33.27	1.40	35.56	1,373	2,043
7TL-0204AJ	2	6	0.060	1.52	1.12	28.45	1.37	34.80	1.46	37.08	1,583	2,356
7TL-0104AJ	1	6	0.080	2.03	1.32	33.53	1.60	40.64	1.72	43.69	2,032	3,024
7TL-1014AJ	1/0	6	0.080	2.03	1.41	35.81	1.69	42.93	1.81	45.97	2,365	3,519
7TL-2024AJ	2/0	6	0.080	2.03	1.51	38.35	1.79	45.47	1.91	48.51	2,745	4,085
7TL-3034AJ	3/0	4	0.080	2.03	1.63	41.40	1.91	48.51	2.03	51.56	3,398	5,056
7TL-4044AJ	4/0	4	0.080	2.03	1.81	45.97	2.09	53.09	2.21	56.13	4,170	6,205
7TL-2504AJ	250	4	0.090	2.29	1.95	49.53	2.23	56.64	2.35	59.69	4,789	7,126
7TL-3004AJ	300	4	0.090	2.29	2.07	52.58	2.32	58.93	2.46	62.48	5,511	8,200
7TL-3504AJ	350	3	0.090	2.29	2.18	55.37	2.46	62.48	2.60	66.04	6,307	9,385
7TL-4004AJ	400	3	0.090	2.29	2.29	58.17	2.54	64.52	2.68	68.07	6,972	10,374
7TL-5004AJ	500	3	0.090	2.29	2.47	62.74	2.76	70.10	2.90	73.66	8,438	12,556
7TL-7504AJ	750	2	0.090	2.29	2.96	75.18	3.24	82.30	3.42	86.87	12,411	18,468
7TL-10004	1000	1	0.090	2.29	3.37	85.60	3.65	92.71	3.84	97.54	15,800	23,510

Note: For Steel Interlock Armour (SIA), replace Anixter part number suffix AJ with SJ.

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Teck 90 1,000 V Single Conductor Aluminum

Aluminum Conductor, XLPE Insulation, Inner/Outer PVC Jacket, Aluminum Interlocking Armour, 90°C, 1,000 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Stranded aluminum conductor
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. GROUNDING CONDUCTOR: Composed of individual aluminum wires applied helically over the insulation
4. INNER JACKET: Polyvinyl Chloride (PVC)
5. ARMOUR: Aluminum interlocking armour (for single-conductor cables for use in AC circuits, aluminum armour only is provided and nonmagnetic [aluminum] connectors and locknuts must be used)
6. OVERALL JACKET: Black Polyvinyl Chloride (PVC); FT4; -40°C
7. TEMPERATURE: 90°C
8. VOLTAGE: 1,000 V
9. STANDARDS: In accordance with CSA C22.2 No.131 and CSA C22.2 No.174 for use in Class 1, Division 1 Hazardous Locations

APPLICATIONS

Suitable for direct earth burial and for exposed or concealed wiring in wet or dry locations.
Also for use in ventilated, nonventilated and ladder-type cable tray in wet or dry locations in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	Ground Conductor Size	Nominal Diameters						Approx. Weight	
			Inner Jacket		Armour		Outer Jacket			
	AWG/kcmil	AWG	in.	mm	in.	mm	in.	mm	lb. /1,000 ft.	kg/km
7TI-2501AJ-AL	250	1	1.001	25.4	1.265	32.1	1.399	35.5	829	1,233
7TI-3001AJ-AL	300	1	1.056	26.8	1.320	33.5	1.450	36.8	950	1,414
7TI-3501AJ-AL	350	1/0	1.099	27.9	1.363	34.6	1.517	38.5	1,064	1,583
7TI-5001AJ-AL	500	2/0	1.217	30.9	1.481	37.6	1.615	41.0	1,304	1,940
7TI-7501AJ-AL	750	3/0	1.489	37.8	1.785	45.3	1.872	47.5	1,773	2,638
7TI-10001AJ-AL	1000	3/0	1.564	39.7	1.868	47.4	2.092	53.1	2,203	3,279

Teck 90 1,000 V Multiconductor Aluminum

Aluminum Conductor, XLPE Insulation, Inner/Outer PVC Jacket, Aluminum Interlocking Armour, 90°C, 1,000 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Stranded aluminum conductor
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. GROUNDING CONDUCTOR: An uninsulated stranded aluminum grounding conductor is included in the cable assembly
4. INNER JACKET: Polyvinyl Chloride (PVC)
5. ARMOUR: Aluminum interlocking armour
6. OVERALL JACKET: Black Polyvinyl Chloride (PVC); FT4; -40°C
7. TEMPERATURE: 90°C
8. VOLTAGE: 1,000 V
9. STANDARDS: In accordance with CSA C22.2 No.131 and CSA C22.2 No.174 for use in Class 1, Division 1 Hazardous Locations

APPLICATIONS

Suitable for direct earth burial and for exposed or concealed wiring in wet or dry locations.
Also for use in ventilated, nonventilated and ladder-type cable tray in wet or dry locations in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	Ground Conductor Size	Nominal Diameters						Approx. Weight	
			Inner Jacket		Armour		Outer Jacket			
	AWG/kcmil	AWG	in.	mm	in.	mm	in.	mm	lb. /1,000 ft.	kg/km
THREE ALUMINUM CONDUCTORS										
7TK-0603AJ-AL	6	8	0.804	20.4	1.072	27.2	1.182	30.0	540	804
7TK-0403AJ-AL	4	6	0.938	23.8	1.202	30.5	1.340	34.0	718	1,068
7TK-0203AJ-AL	2	6	1.064	27.0	1.328	33.7	1.450	36.8	850	1,265
7TK-0103AJ-AL	1	4	1.214	30.8	1.478	37.5	1.615	41.0	1,046	1,557
7TK-1013AJ-AL	1/0	4	1.292	32.8	1.556	39.5	1.698	43.1	1,185	1,764
7TK-2023AJ-AL	2/0	4	1.387	35.2	1.682	42.7	1.832	46.5	1,393	2,073
7TK-3033J-AL	3/0	4	1.481	37.6	1.777	45.1	1.919	48.7	1,534	2,283
7TK-4043AJ-AL	4/0	4	1.596	40.5	1.946	49.4	2.096	53.2	1,842	2,741
7TK-2503AJ-AL	250	2	1.797	45.6	2.151	54.6	2.289	58.1	2,208	3,286
7TK-3003AJ-AL	300	2	1.907	48.4	2.258	57.3	2.419	61.4	2,507	3,730
7TK-3503AJ-AL	350	2	2.005	50.9	2.352	59.7	2.514	63.8	2,731	4,064
7TK-4003AJ-AL	400	2	2.096	53.2	2.447	62.1	2.577	65.4	2,925	4,352
7TK-5003AJ-AL	500	1	2.254	57.2	2.604	66.1	2.793	70.9	3,422	5,092
7TK-7503AJ-AL	750	1/0	2.782	70.6	3.128	79.4	3.247	82.4	4,525	6,734
FOUR ALUMINUM CONDUCTORS										
7TL-0604AJ-AL	6	8	0.934	23.7	1.198	30.4	1.324	33.6	694	1,032
7TL-0404AJ-AL	4	6	1.040	26.4	1.304	33.1	1.474	37.4	865	1,287
7TL-0204AJ-AL	2	6	1.166	29.6	1.442	36.6	1.580	40.1	1,027	1,529
7TL-0104AJ-AL	1	4	1.340	34.0	1.608	40.8	1.789	45.4	1,295	1,927
7TL-1014AJ-AL	1/0	4	1.426	36.2	1.722	43.7	1.903	48.3	1,506	2,241
7TL-2024AJ-AL	2/0	4	1.521	38.6	1.812	46.0	1.986	50.4	1,693	2,519
7TL-3034AJ-AL	3/0	4	1.643	41.7	1.982	50.3	2.096	53.2	1,960	2,916
7TL-4044AJ-AL	4/0	4	1.812	46.0	2.163	54.9	2.344	59.5	2,351	3,499
7TL-2504AJ-AL	250	2	1.982	50.3	2.332	59.2	2.494	63.3	2,672	3,976
7TL-3504AJ-AL	350	2	2.218	56.3	2.569	65.2	2.730	69.3	3,261	4,853
7TL-4004AJ-AL	400	2	2.269	57.6	2.620	66.5	2.849	72.3	3,601	5,358
7TL-5004AJ-AL	500	1	2.502	63.5	2.853	72.4	3.046	77.3	4,181	6,222
7TL-7504AJ-AL	750	1/0	2.987	75.8	3.337	84.7	3.534	89.7	5,767	8,582

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Teck 90 5 kV (Nonshielded) Single Conductor

Single Conductor, XLPE or TRXLPE Insulation, Inner/Outer PVC Jacket, Aluminum Interlocking Armour, 90°C, 5 kV, CSA

SPECIFICATIONS

1. CONDUCTOR: Class B stranded bare copper
2. CONDUCTOR SHIELD: Semiconducting shield over the conductor
3. INSULATION: Cross-Linked Polyethylene (XLPE) or Tree-Retardant XLPE (TRXLPE)
4. GROUNDING CONDUCTOR: Composed of individual copper wires applied helically over the insulation
5. INNER JACKET: Polyvinyl Chloride (PVC)
6. ARMOUR: Aluminum interlocking armour (for single-conductor cables for use in AC circuits only aluminum armour is provided and nonmagnetic [aluminum] connectors and locknuts must be used)
7. OVERALL JACKET: Orange Polyvinyl Chloride (PVC); FT4; -40°C
   Black PVC jacket also available, please contact your local Anixter sales office
8. TEMPERATURE: 90°C
9. VOLTAGE: 5,000 V
10. STANDARDS: In accordance with CSA C22.2 No.131 and CSA C22.2 No.174 for use in Class 1, Division 1 Hazardous Locations
11. NOTE: Insulation level percentage is not applicable to nonshielded power cables as per CSA C22.2 No.131

APPLICATIONS

Suitable for direct earth burial and for exposed or concealed wiring in wet or dry locations.
Also for use in ventilated, nonventilated and ladder-type cable tray in wet or dry locations in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	Ground Conductor Size	Nominal Diameters						Approx. Weight	
			Inner Jacket		Armour		Outer Jacket			
	AWG/kcmil	AWG	in.	mm	in.	mm	in.	mm	lb. /1,000 ft.	kg/km
7TM-0601AJ-08	6	8	0.54	13.72	0.76	19.30	0.85	21.59	370	551
7TM-0401AJ-08	4	6	0.62	15.75	0.84	21.34	0.93	23.62	490	729
7TM-0301AJ-08	3	6	0.64	16.26	0.86	21.84	0.95	24.13	540	804
7TM-0201AJ-08	2	6	0.67	17.02	0.89	22.61	0.98	24.89	590	878
7TM-0101AJ-08	1	4	0.71	18.03	0.93	23.62	1.02	25.91	720	1,071
7TM-1011AJ-08	1/0	4	0.74	18.80	0.96	24.38	1.06	26.92	800	1,190
7TM-2021AJ-08	2/0	4	0.78	19.81	1.03	26.16	1.13	28.70	900	1,339
7TM-3031AJ-08	3/0	3	0.83	21.08	1.08	27.43	1.18	29.97	1,130	1,681
7TM-4041AJ-08	4/0	3	0.91	23.11	1.16	29.46	1.26	32.00	1,330	1,979
7TM-2501AJ-08	250	2	0.99	25.15	1.24	31.50	1.34	34.04	1,530	2,277
7TM-3501AJ-08	350	1	1.09	27.69	1.34	34.04	1.44	36.58	1,960	2,916
7TM-5001AJ-08	500	1/0	1.24	31.50	1.49	37.85	1.59	40.39	2,570	3,824
7TM-7501AJ-08	750	2/0	1.42	36.07	1.68	42.67	1.78	45.21	3,900	5,803
7TM-10001AJ-08	1000	2/0	1.57	39.88	1.86	47.24	1.96	49.78	4,930	7,336

Note: For black PVC jacket, replace Anixter part number suffix **-08** with **-02**.

Teck 90 5 kV (Nonshielded) Three Conductor

Three Conductors, XLPE or TRXLPE Insulation, Inner/Outer PVC Jacket, Aluminum Interlocking Armour, 90°C, 5 kV, CSA

SPECIFICATIONS

1. CONDUCTOR: Class B stranded bare copper
2. CONDUCTOR SHIELD: Semiconducting shield over the conductor
3. INSULATION: Cross-Linked Polyethylene (XLPE) or Tree-Retardant XLPE (TRXLPE)
4. GROUNDING CONDUCTOR: An uninsulated Class B stranded grounding conductor is included in the cable assembly
5. INNER JACKET: Polyvinyl Chloride (PVC)
6. ARMOUR: Aluminum interlocking armour
7. OVERALL JACKET: Orange Polyvinyl Chloride (PVC); FT4; -40°C
   Black PVC jacket also available, please contact your local Anixter sales office
8. TEMPERATURE: 90°C
9. VOLTAGE: 5,000 V
10. STANDARDS: In accordance with CSA C22.2 No.131 and CSA C22.2 No.174 for use in Class 1, Division 1 Hazardous Locations
11. NOTE: Insulation level percentage is not applicable to nonshielded power cables as per CSA C22.2 No.131

APPLICATIONS

Suitable for direct earth burial and for exposed or concealed wiring in wet or dry locations.
Also for use in ventilated, nonventilated and ladder-type cable tray in wet or dry locations in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	Ground Conductor Size	Nominal Diameters						Approx. Weight	
			Inner Jacket		Armour		Outer Jacket			
	AWG/kcmil	AWG	in.	mm	in.	mm	in.	mm	lb. /1,000 ft.	kg/km
7TN-0603AJ-08	6	8	1.02	25.91	1.27	32.26	1.37	34.80	927	1,379
7TN-0403AJ-08	4	8	1.12	28.45	1.37	34.80	1.47	37.34	1,138	1,693
7TN-0303AJ-08	3	6	1.17	29.72	1.42	36.07	1.52	38.61	1,310	1,949
7TN-0203AJ-08	2	6	1.24	31.50	1.49	37.85	1.59	40.39	1,476	2,196
7TN-0103AJ-08	1	6	1.31	33.27	1.59	40.39	1.69	42.93	1,752	2,607
7TN-1013AJ-08	1/0	6	1.39	35.31	1.67	42.42	1.77	44.96	2,012	2,994
7TN-2023AJ-08	2/0	6	1.48	37.59	1.76	44.70	1.86	47.24	2,334	3,473
7TN-3033AJ-08	3/0	4	1.58	40.13	1.87	47.50	1.97	50.04	2,835	4,218
7TN-4043AJ-08	4/0	4	1.69	42.93	1.98	50.29	2.08	52.83	3,328	4,952
7TN-2503AJ-08	250	4	1.86	47.24	2.15	54.61	2.25	57.15	3,910	5,818
7TN-3503AJ-08	350	3	2.07	52.58	2.36	59.94	2.49	63.25	5,102	7,592
7TN-5003AJ-08	500	3	2.33	59.18	2.62	66.55	2.75	69.85	6,721	10,001
7TN-7503AJ-08	750	2	2.72	69.09	3.01	76.45	3.14	79.76	9,469	14,090
7TN-10003AJ-08	1000	1	3.10	78.74	3.39	86.11	3.54	89.92	13,790	20,520

Note: For black PVC jacket, replace Anixter part number suffix **-08** with **-02**.
For Steel Interlock Armour (SIA), replace Anixter part number suffix **AJ** with **SJ**.

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Teck 5 kV (Shielded) Single Conductor

TRXLPE Insulation, Inner/Outer PVC Jacket, Aluminum Interlocking Armour, 90°C, 5 kV, 133%, CSA

SPECIFICATIONS

1. CONDUCTOR: Class B stranded bare copper
2. CONDUCTOR SHIELD: Thermoset semiconducting layer extruded over conductor
3. INSULATION: Tree-Retardant Cross-Linked Polyethylene (TRXLPE)
4. INSULATION SHIELD: This consists of a semiconducting thermosetting layer plus an overlaying metallic component. In single-conductor cables, the metallic component is concentric serving of solid copper wires acting as both a wire shield and as a bonding (grounding) conductor.
5. GROUNDING CONDUCTOR: In single-conductor cables, the grounding conductor is composed of individual wires applied helically over the insulation shield.
6. INNER JACKET: Polyvinyl Chloride (PVC)
7. ARMOUR: Aluminum interlocking armour (for single-conductor cables for use in AC circuits only aluminum armour is provided and nonmagnetic [aluminum] connectors and locknuts must be used)
8. OVERALL JACKET: Orange Polyvinyl Chloride (PVC); FT4; -40°C
   Black PVC jacket also available, please contact your local Anixter sales office.
9. TEMPERATURE: 90°C
10. VOLTAGE: 5,000 V; 133%
11. STANDARDS: In accordance with CSA C68.10 and CSA C22.2 No.174 for use in Class 1, Division 1 Hazardous Locations

APPLICATIONS

Suitable for direct earth burial and for exposed or concealed wiring in wet or dry locations.
Also for use in ventilated, nonventilated and ladder-type cable tray in wet or dry locations in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	Ground Conductor Size	Nominal Diameters										Approx. Weight	
			Insulation		Insulation Shield		Inner Jacket		Armour		Outer Jacket			
	AWG/kcmil	AWG	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lb./1,000 ft.	kg/km
7TMS-0601AJ-08	6	8	0.39	9.91	0.47	11.94	0.68	17.27	0.90	22.86	0.99	25.15	510	759
7TMS-0401AJ-08	4	6	0.43	10.92	0.51	12.95	0.72	18.29	0.94	23.88	1.03	26.16	590	878
7TMS-0201AJ-08	2	6	0.49	12.45	0.57	14.48	0.78	19.81	1.03	26.16	1.12	28.45	750	1,116
7TMS-0101AJ-08	1	4	0.52	13.21	0.60	15.24	0.81	20.57	1.06	26.92	1.15	29.21	870	1,295
7TMS-1011AJ-08	1/0	4	0.56	14.22	0.63	16.00	0.88	22.35	1.13	28.70	1.22	30.99	1,010	1,503
7TMS-2021AJ-08	2/0	4	0.60	15.24	0.67	17.02	0.92	23.37	1.17	29.72	1.26	32.00	1,120	1,667
7TMS-3031AJ-08	3/0	3	0.64	16.26	0.71	18.03	0.97	24.64	1.22	30.99	1.31	33.27	1,300	1,934
7TMS-4041AJ-08	4/0	3	0.70	17.78	0.76	19.30	1.02	25.91	1.27	32.26	1.36	34.54	1,470	2,187
7TMS-2501AJ-08	250	2	0.75	19.05	0.82	20.83	1.10	27.94	1.38	35.05	1.48	37.59	1,680	2,500
7TMS-3501AJ-08	350	1	0.85	21.59	0.96	24.38	1.24	31.50	1.52	38.61	1.62	41.15	2,120	3,155
7TMS-5001AJ-08	500	1/0	0.97	24.64	1.04	26.42	1.34	34.04	1.62	41.15	1.72	43.69	2,770	4,122
7TMS7501AJ-08	750	2/0	1.15	29.21	1.24	31.50	1.54	39.12	1.83	46.48	1.93	49.02	3,780	5,625
7TMS-10001AJ-08	1000	2/0	1.30	33.02	1.39	35.31	1.76	44.70	2.05	52.07	2.15	54.61	5,010	7,455

Note: For black PVC jacket, replace Anixter part number suffix **-08** with **-02**.

Teck 5 kV (Shielded) Three Conductor

TRXLPE Insulation, Inner/Outer PVC Jacket, Aluminum Interlocking Armour, 90°C, 5 kV, 133%, CSA

SPECIFICATIONS

1. CONDUCTOR: Class B stranded bare copper
2. CONDUCTOR SHIELD: Thermoset semiconducting layer extruded over conductor
3. INSULATION: Tree-Retardant Cross-Linked Polyethylene (TRXLPE)
4. INSULATION SHIELD: This consists of a semiconducting thermosetting layer plus an overlaying metallic component. In multiconductor cables, the metallic component is a helically applied gapped copper tape
5. GROUNDING CONDUCTOR: Bare Class B stranded grounding conductor is included in the cable assembly with suitable fillers
6. INNER JACKET: Polyvinyl Chloride (PVC)
7. ARMOUR: Aluminum interlocking armour
8. OVERALL JACKET: Orange Polyvinyl Chloride (PVC); FT4; -40°C
   Black PVC jacket also available, please contact your local Anixter sales office
9. TEMPERATURE: 90°C
10. VOLTAGE: 5,000 V; 133%
11. STANDARDS: In accordance with CSA C68.10 and CSA C22.2 No.174 for use in Class 1, Division 1 Hazardous Locations

APPLICATIONS

Suitable for direct earth burial and for exposed or concealed wiring in wet or dry locations.
Also for use in ventilated, nonventilated and ladder-type cable tray in wet or dry locations in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	Ground Conductor Size	Nominal Diameters										Approx. Weight	
			Insulation		Insulation Shield		Inner Jacket		Armour		Outer Jacket			
	AWG/kcmil	AWG	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lb./1,000 ft.	kg/km
7TNS-0601AJ-08	6	8	0.40	10.16	0.47	11.94	1.17	29.72	1.45	36.83	1.54	39.12	1,120	1,667
7TNS-0401AJ-08	4	8	0.44	11.18	0.51	12.95	1.26	32.00	1.54	39.12	1.63	41.40	1,350	2,009
7TNS-0201AJ-08	2	6	0.50	12.70	0.57	14.48	1.39	35.31	1.67	42.42	1.77	44.96	1,740	2,589
7TNS-0101AJ-08	1	6	0.53	13.46	0.60	15.24	1.45	36.83	1.73	43.94	1.83	46.48	1,960	2,916
7TNS-1011AJ-08	1/0	6	0.56	14.22	0.63	16.00	1.53	38.86	1.81	45.97	1.91	48.51	2,290	3,408
7TNS-2021AJ-08	2/0	6	0.60	15.24	0.67	17.02	1.62	41.15	1.91	48.51	2.01	51.05	2,620	3,899
7TNS-3031AJ-08	3/0	4	0.65	16.51	0.71	18.03	1.7	43.18	2.07	52.58	2.17	55.12	3,210	4,776
7TNS-4041AJ-08	4/0	4	0.70	17.78	0.76	19.30	1.90	48.26	2.19	55.63	2.29	58.17	3,720	5,535
7TNS-2501AJ-08	250	4	0.75	19.05	0.82	20.83	2.01	51.05	2.30	58.42	2.43	61.72	4,300	6,398
7TNS-3501AJ-08	350	3	0.90	22.86	0.96	24.38	2.32	58.93	2.61	66.29	2.74	69.60	5,480	8,154
7TNS-5001AJ-08	500	3	0.97	24.64	1.04	26.42	2.48	62.99	2.77	70.36	2.90	73.66	7,130	10,609
7TNS7501AJ-08	750	2	1.15	29.21	1.24	31.50	2.98	75.69	3.27	83.06	3.42	86.87	10,330	15,371
7TNS-10001AJ-08	1000	1	1.31	33.27	1.39	35.31	3.31	84.07	3.60	91.44	3.75	95.25	13,080	19,463

Note: For black PVC jacket, replace Anixter part number suffix **-08** with **-02**.
For Steel Interlock Armour (SIA), replace Anixter part number suffix **AJ** with **SJ**.

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Teck 15 kV Single Conductor

TRXLPE Insulation, Inner/Outer PVC Jacket, Aluminum Interlocking Armour, 90°C, 15 kV, 100% or 133%, CSA

SPECIFICATIONS

1. CONDUCTOR: Class B stranded bare copper
2. CONDUCTOR SHIELD: Thermoset semiconducting layer extruded over conductor
3. INSULATION: Tree-Retardant Cross-Linked Polyethylene (TRXLPE); 100% (175 mils) or 133% (220 mils)
4. INSULATION SHIELD: This consists of a semiconducting thermosetting layer plus an overlaying metallic component. In single-conductor cables, the metallic component is concentric serving of solid copper wires acting as both a wire shield and as a bonding (grounding) conductor
5. GROUNDING CONDUCTOR: In single-conductor cables, the grounding conductor is composed of individual wires applied helically over the insulation shield.
6. INNER JACKET: Polyvinyl Chloride (PVC)
7. ARMOUR: Aluminum interlocking armour (for single-conductor cables for use in AC circuits only aluminum armour is provided and nonmagnetic [aluminum] connectors and locknuts must be used)
8. OVERALL JACKET: Red Polyvinyl Chloride (PVC); FT4; -40°C
   Black PVC jacket also available, please contact your local Anixter sales office
9. TEMPERATURE: 90°C
10. VOLTAGE: 15,000 V
11. STANDARDS: In accordance with CSA C68.10 and CSA C22.2 No.174 for use in Class 1, Division 1 Hazardous Locations

APPLICATIONS

Suitable for direct earth burial and for exposed or concealed wiring in wet or dry locations.
Also for use in ventilated, nonventilated and ladder-type cable tray in wet or dry locations in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	Ground Conductor Size	Nominal Diameters										Approx. Weight	
			Insulation		Insulation Shield		Inner Jacket		Armour		Outer Jacket			
	AWG/kcmil	AWG	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lb./1,000 ft.	kg/km
15 kV 100% (175 mils)														
7TP-0201AJ-03	2	6	0.66	16.76	0.73	18.54	0.99	25.15	1.24	31.50	1.33	33.78	950	1,414
7TP-0101AJ-03	1	4	0.69	17.53	0.76	19.30	1.03	26.16	1.28	32.51	1.37	34.80	1,080	1,607
7TP-1011AJ-03	1/0	4	0.73	18.54	0.80	20.32	1.06	26.92	1.31	33.27	1.40	35.56	1,170	1,741
7TP-2021AJ-03	2/0	4	0.77	19.56	0.84	21.34	1.10	27.94	1.35	34.29	1.44	36.58	1,290	1,920
7TP-3031AJ-03	3/0	3	0.82	20.83	0.88	22.35	1.15	29.21	1.40	35.56	1.49	37.85	1,470	2,187
7TP-4041AJ-03	4/0	3	0.87	22.10	0.94	23.88	1.21	30.73	1.46	37.08	1.55	39.37	1,640	2,440
7TP-2501AJ-03	250	2	0.93	23.62	0.99	25.15	1.28	32.51	1.53	38.86	1.63	41.40	1,900	2,827
7TP-3501AJ-03	350	1	1.07	27.18	1.15	29.21	1.43	36.32	1.71	43.43	1.81	45.97	2,370	3,527
7TP-5001AJ-03	500	1/0	1.14	28.96	1.23	31.24	1.54	39.12	1.83	46.48	1.93	49.02	3,080	4,583
7TP-7501AJ-03	750	2/0	1.32	33.53	1.41	35.81	1.78	45.21	2.07	52.58	2.17	55.12	4,240	6,309
7TP-10001AJ-03	1000	2/0	1.48	37.59	1.57	39.88	1.93	49.02	2.22	56.39	2.32	58.93	5,280	7,857
15 kV 133% (220 mils)														
7TPU-0201AJ-03	2	6	0.76	19.30	0.83	21.08	1.09	27.69	1.34	34.04	1.43	36.32	1,028	1,530
7TPU-0101AJ-03	1	4	0.79	20.07	0.86	21.84	1.12	28.45	1.37	34.80	1.46	37.08	1,170	1,741
7TPU-1011AJ-03	1/0	4	0.83	21.08	0.89	22.61	1.16	29.46	1.41	35.81	1.50	38.10	1,270	1,890
7TPU-2021AJ-03	2/0	4	0.86	21.84	0.93	23.62	1.20	30.48	1.45	36.83	1.54	39.12	1,390	2,068
7TPU-3031AJ-03	3/0	3	0.91	23.11	0.98	24.89	1.25	31.75	1.50	38.10	1.59	40.39	1,570	2,336
7TPU-4041AJ-03	4/0	3	0.96	24.38	1.03	26.16	1.30	33.02	1.58	40.13	1.68	42.67	1,780	2,649
7TPU-2501AJ-03	250	2	1.02	25.91	1.08	27.43	1.38	35.05	1.66	42.16	1.76	44.70	2,010	2,991
7TPU-3501AJ-03	350	1	1.12	28.45	1.20	30.48	1.50	38.10	1.78	45.21	1.88	47.75	2,490	3,705
7TPU-5001AJ-03	500	1/0	1.24	31.50	1.32	33.53	1.65	41.91	1.94	49.28	2.04	51.82	3,220	4,791
7TPU-7501AJ-03	750	2/0	1.42	36.07	1.51	38.35	1.89	48.01	2.18	55.37	2.28	57.91	4,390	6,532
7TPU-10001AJ-03	1000	2/0	1.57	39.88	1.68	42.67	2.05	52.07	2.34	59.44	2.48	62.99	5,550	8,258

Note: For black PVC jacket, replace Anixter part number suffix **-03** with **-02**.

Teck 15 kV Three Conductor

TRXLPE Insulation, Inner/Outer PVC Jacket, Aluminum Interlocking Armour, 90°C, 15 kV, 100% or 133%, CSA

SPECIFICATIONS

1. CONDUCTOR: Class B stranded bare copper
2. CONDUCTOR SHIELD: Thermoset semiconducting layer extruded over conductor
3. INSULATION: Tree-Retardant Cross-linked polyethylene (TRXLPE); 100% (175 mils) or 133% (220 mils)
4. INSULATION SHIELD: This consists of a semiconducting thermosetting layer plus an overlaying metallic component. In multiconductor cables, the metallic component is a helically applied gapped copper tape
5. GROUNDING CONDUCTOR: Bare Class B stranded grounding conductor is included in the cable assembly with suitable fillers
6. INNER JACKET: Polyvinyl Chloride (PVC)
7. ARMOUR: Aluminum interlocking armour
8. OVERALL JACKET: Red Polyvinyl Chloride (PVC); FT4; -40°C
   Black PVC jacket also available, please contact your local Anixter sales office
9. TEMPERATURE: 90°C
10. VOLTAGE: 15,000 V
11. STANDARDS: In accordance with CSA C68.10 and CSA C22.2 No.174 for use in Class 1, Division 1 Hazardous Locations

APPLICATIONS

Suitable for direct earth burial and for exposed or concealed wiring in wet or dry locations.
Also for use in ventilated, nonventilated and ladder-type cable tray in wet or dry locations in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	Ground Conductor Size	Nominal Diameters										Approx. Weight	
			Insulation		Insulation Shield		Inner Jacket		Armour		Outer Jacket			
	AWG/kcmil	AWG	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lb./1,000 ft.	kg/km
15 kV 100% (175 mils)														
7TP-0203AJ-03	2	6	0.66	16.76	0.73	18.54	1.82	46.23	2.11	53.59	2.21	56.13	2,370	3,527
7TP-0103AJ-03	1	6	0.69	17.53	0.76	19.30	1.89	48.01	2.18	55.37	2.27	57.66	2,620	3,899
7TP-1013AJ-03	1/0	6	0.73	18.54	0.79	20.07	1.97	50.04	2.26	57.40	2.35	59.69	2,900	4,315
7TP-2023AJ-03	2/0	6	0.77	19.56	0.84	21.34	2.06	52.32	2.34	59.44	2.46	62.48	3,330	4,955
7TP-3033AJ-03	3/0	4	0.82	20.83	0.88	22.35	2.16	54.86	2.44	61.98	2.57	65.28	3,840	5,714
7TP-4043AJ-03	4/0	4	0.87	22.10	0.93	23.62	2.27	57.66	2.56	65.02	2.68	68.07	4,360	6,488
7TP-2503AJ-03	250	4	0.93	23.62	0.99	25.15	2.38	60.45	2.68	68.07	2.79	70.87	4,880	7,261
7TP-3503AJ-03	350	3	1.06	26.92	1.15	29.21	2.73	69.34	3.02	76.71	3.14	79.76	6,210	9,240
7TP-5003AJ-03	500	3	1.14	28.96	1.23	31.24	2.97	75.44	3.26	82.80	3.40	86.36	8,549	12,721
7TP-7503AJ-03	750	2	1.32	33.53	1.41	35.81	3.35	85.09	3.64	92.46	3.77	95.76	11,100	16,517
7TP-10003AJ-03	1000	1	1.47	37.34	1.56	39.62	3.72	94.49	3.97	100.84	4.17	105.92	13,890	20,668
15 kV 133% (220 mils)														
7TPU-0203AJ-03	2	6	0.76	19.30	0.83	21.08	2.02	51.31	2.31	58.67	2.43	61.72	2,665	3,966
7TPU-0103AJ-03	1	6	0.79	20.07	0.86	21.84	2.10	53.34	2.37	60.20	2.49	63.25	3,089	4,596
7TPU-1013AJ-03	1/0	6	0.83	21.08	0.89	22.61	2.17	55.12	2.46	62.48	2.58	65.53	3,300	4,910
7TPU-2023AJ-03	2/0	6	0.86	21.84	0.93	23.62	2.26	57.40	2.55	64.77	2.67	67.82	3,650	5,431
7TPU-3033AJ-03	3/0	4	0.91	23.11	0.98	24.89	2.36	59.94	2.65	67.31	2.77	70.36	4,140	6,160
7TPU-4043AJ-03	4/0	4	0.96	24.38	1.03	26.16	2.47	62.74	2.76	70.10	2.88	73.15	4,680	6,964
7TPU-2503AJ-03	250	4	1.02	25.91	1.08	27.43	2.59	65.79	2.88	73.15	3.00	76.20	5,275	7,849
7TPU-3503AJ-03	350	3	1.12	28.45	1.20	30.48	2.90	73.66	3.19	81.03	3.33	84.58	6,842	10,181
7TPU-5003AJ-03	500	3	1.24	31.50	1.32	33.53	3.16	80.26	3.45	87.63	3.59	91.19	8,513	12,667
7TPU-7503AJ-03	750	2	1.42	36.07	1.51	38.35	3.57	90.68	3.85	97.79	4.00	101.60	11,507	17,122

Note: For black PVC jacket, replace Anixter part number suffix **-03** with **-02**.
For Steel Interlock Armour (SIA), replace Anixter part number suffix **AJ** with **SJ**.

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Teck 25 kV Single Conductor

TRXLPE Insulation, Inner/Outer PVC Jacket, Aluminum Interlocking Armour, 90°C, 25 kV, 100% or 133%, CSA

SPECIFICATIONS

1. CONDUCTOR: Class B stranded bare copper
2. CONDUCTOR SHIELD: Thermoset semiconducting layer extruded over conductor
3. INSULATION: Tree-Retardant Cross-Linked Polyethylene (TRXLPE); 100% (260 mils) or 133% (320 mils)
4. INSULATION SHIELD: This consists of a semiconducting thermosetting layer plus an overlaying metallic component. In single-conductor cables, the metallic component is concentric serving of solid copper wires acting as both a wire shield and as a bonding (grounding) conductor
5. GROUNDING CONDUCTOR: In single-conductor cables, the grounding conductor is composed of individual wires applied helically over the insulation shield.
6. INNER JACKET: Polyvinyl Chloride (PVC)
7. ARMOUR: Aluminum interlocking armour (for single-conductor cables for use in AC circuits only aluminum armour is provided and nonmagnetic [aluminum] connectors and locknuts must be used)
8. OVERALL JACKET: Black Polyvinyl Chloride (PVC); FT4; -40°C
9. TEMPERATURE: 90°C
10. VOLTAGE: 25,000 V
11. STANDARDS: In accordance with CSA C68.10 and CSA C22.2 No.174 for use in Class 1, Division 1 Hazardous Locations

APPLICATIONS

Suitable for direct earth burial and for exposed or concealed wiring in wet or dry locations.
Also for use in ventilated, nonventilated and ladder-type cable tray in wet or dry locations in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	Ground Conductor Size	Nominal Diameters										Approx. Weight	
			Insulation		Insulation Shield		Inner Jacket		Armour		Outer Jacket			
	AWG/kcmil	AWG	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lb./1,000 ft.	kg/km
25 kV 100% (260 mils)														
7TQ-0101AJ-02	1	4	0.87	22.11	0.94	23.99	1.21	30.83	1.43	36.42	1.53	38.75	1,206	1,795
7TQ-1011AJ-02	1/0	4	0.91	23.10	0.98	24.98	1.25	31.82	1.47	37.41	1.56	39.74	1,306	1,944
7TQ-2021AJ-02	2/0	4	0.95	24.12	1.02	26.00	1.29	32.83	1.51	38.42	1.62	41.22	1,452	2,161
7TQ-3031AJ-02	3/0	3	1.00	25.34	1.07	27.22	1.36	34.59	1.58	40.17	1.69	42.97	1,649	2,453
7TQ-4041AJ-02	4/0	3	1.05	26.66	1.14	29.00	1.43	36.36	1.65	41.95	1.76	44.75	1,851	2,755
7TQ-2501AJ-02	250	2	1.10	28.06	1.20	30.40	1.49	37.77	1.71	43.36	1.82	46.15	2,063	3,070
7TQ-3501AJ-02	350	1	1.20	30.50	1.29	32.84	1.61	40.88	1.86	47.23	1.97	50.03	2,618	3,895
7TQ-5001AJ-02	500	1/0	1.32	33.55	1.41	35.89	1.79	45.53	2.04	51.88	2.15	54.67	3,382	5,033
7TQ-7501AJ-02	750	2/0	1.56	39.63	1.69	42.83	2.10	53.34	2.35	59.69	2.48	63.10	4,658	6,931
7TQ-10001AJ-02	1000	2/0	1.71	43.41	1.84	46.61	2.25	57.13	2.50	63.48	2.63	66.88	5,591	8,320
25 kV 133% (320 mils)														
7TQU-1011AJ-02	1/0	4	1.03	26.27	1.13	28.60	1.40	35.44	1.62	41.03	1.73	43.82	1,495	2,225
7TQU-2021AJ-02	2/0	4	1.07	27.28	1.17	29.62	1.44	36.45	1.66	42.04	1.77	44.84	1,618	2,408
7TQU-3031AJ-02	3/0	3	1.00	25.50	1.21	30.84	1.50	38.21	1.75	44.56	1.86	47.35	1,902	2,830
7TQU-4041AJ-02	4/0	3	1.17	29.84	1.27	32.16	1.56	39.53	1.81	45.88	1.92	48.67	2,089	3,108
7TQU-2501AJ-02	250	2	1.23	31.22	1.32	33.56	1.61	40.93	1.86	47.28	1.97	50.07	2,307	3,433
7TQU-3501AJ-02	350	1	1.33	33.66	1.42	36.00	1.80	45.64	2.05	51.99	2.16	54.79	2,913	4,334
7TQU-5001AJ-02	500	1/0	1.45	36.71	1.54	39.05	1.92	48.69	2.17	55.05	2.28	57.84	3,568	5,309
7TQU-7501AJ-02	750	2/0	1.68	42.79	1.81	45.99	2.22	56.51	2.47	62.86	2.61	66.26	4,868	72,44
7TQU-10001AJ-02	1000	2/0	1.83	46.57	1.96	49.77	2.37	60.29	2.62	66.64	2.76	70.04	5,813	8,650

Teck 25 kV Three Conductor

TRXLPE Insulation, Inner/Outer PVC Jacket, Aluminum Interlocking Armour, 90°C, 25 kV, 100% or 133%, CSA

SPECIFICATIONS

1. CONDUCTOR: Class B stranded bare copper
2. CONDUCTOR SHIELD: Thermoset semiconducting layer extruded over conductor
3. INSULATION: Tree-Retardant Cross-linked polyethylene (TRXLPE); 100% (260 mils) or 133% (320 mils)
4. INSULATION SHIELD: This consists of a semiconducting thermosetting layer plus an overlaying metallic component. In multiconductor cables, the metallic component is a helically applied gapped copper tape
5. GROUNDING CONDUCTOR: Bare Class B stranded grounding conductor is included in the cable assembly with suitable fillers
6. INNER JACKET: Polyvinyl Chloride (PVC)
7. ARMOUR: Aluminum interlocking armour
8. OVERALL JACKET: Black Polyvinyl Chloride (PVC); FT4; -40°C
9. TEMPERATURE: 90°C
10. VOLTAGE: 25,000 V
11. STANDARDS: In accordance with CSA C68.10 and CSA C22.2 No.174 for use in Class 1, Division 1 Hazardous Locations

APPLICATIONS

Suitable for direct earth burial and for exposed or concealed wiring in wet or dry locations.
Also for use in ventilated, nonventilated and ladder-type cable tray in wet or dry locations in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	Ground Conductor Size	Nominal Diameters										Approx. Weight	
			Insulation		Insulation Shield		Inner Jacket		Armour		Outer Jacket			
	AWG/kcmil	AWG	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lb./1,000 ft.	kg/km
25 kV 100% (260 mils)														
7TQ-0103AJ-02	1	6	0.87	22.11	0.94	23.80	2.29	58.11	2.54	64.46	2.67	67.86	3,127	4,653
7TQ-1013AJ-02	1/0	6	0.91	23.10	0.98	24.79	2.37	60.25	2.62	66.60	2.76	70.00	3,435	5,112
7TQ-2023AJ-02	2/0	6	0.95	24.12	1.02	25.81	2.46	62.44	2.71	68.79	2.84	72.20	3,798	5,652
7TQ-3033AJ-02	3/0	4	1.00	25.34	1.06	27.03	2.56	65.08	2.93	74.43	2.95	74.83	4,296	6,392
7TQ-4043AJ-02	4/0	4	1.05	26.66	1.13	28.80	2.71	68.92	2.96	75.27	3.10	78.67	4,915	7,314
7TQ-2503AJ-02	250	4	1.10	28.06	1.19	30.20	2.90	73.71	3.15	80.06	3.31	83.97	5,719	8,510
7TQ-3503AJ-02	350	3	1.20	30.50	1.29	32.64	3.11	78.98	3.36	85.33	3.51	89.24	6,964	10,362
7TQ-5003AJ-02	500	3	1.32	33.55	1.41	35.69	3.37	85.56	3.62	91.91	3.77	95.82	8,712	12,963
7TQ-7503AJ-02	750	2	1.56	39.63	1.66	42.27	3.93	99.77	4.18	106.12	4.33	110.03	12,004	17,862
25 kV 133% (320 mils)														
7TQU-0103AJ-02	1	6	0.99	25.27	1.06	26.95	2.56	64.97	2.81	71.32	2.94	74.73	3,524	5,243
7TQU-1013AJ-02	1/0	6	1.03	26.27	1.12	28.40	2.68	68.04	2.93	74.39	3.06	77.79	3,935	5,855
7TQU-2023AJ-02	2/0	6	1.07	27.28	1.16	29.41	2.84	72.01	3.09	78.36	3.24	82.27	4,588	6,827
7TQU-3033AJ-02	3/0	4	1.00	25.50	1.21	30.63	2.94	74.64	3.19	80.99	3.34	84.91	5,109	7,602
7TQU-4043AJ-02	4/0	4	1.17	29.84	1.26	31.95	3.05	77.50	3.30	83.85	3.46	87.76	5,680	8,452
7TQU-2503AJ-02	250	4	1.23	31.22	1.31	33.35	3.17	80.51	3.42	86.86	3.57	90.78	6,223	9,260
7TQU-3503AJ-02	350	3	1.33	33.66	1.41	35.79	3.38	85.78	3.63	92.13	3.78	96.04	7,491	11,147
7TQU-5003AJ-02	500	3	1.45	36.71	1.53	38.84	3.64	92.37	3.89	98.72	4.04	102.63	9,270	13,794

Note: For Steel Interlock Armour (SIA), replace Anixter part number suffix AJ with SJ.

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Teck 28 kV Single Conductor

TRXLPE Insulation, Inner/Outer PVC Jacket, Aluminum Interlocking Armour, 90°C, 28 kV, 100% or 133%, CSA

SPECIFICATIONS

1. CONDUCTOR: Class B stranded bare copper
2. CONDUCTOR SHIELD: Thermoset semiconducting layer extruded over conductor
3. INSULATION: Tree-Retardant Cross-Linked Polyethylene (TRXLPE); 100% (280 mils) or 133% (345 mils)
4. INSULATION SHIELD: This consists of a semiconducting thermosetting layer plus an overlaying metallic component. In single-conductor cables, the metallic component is concentric serving of solid copper wires acting as both a wire shield and as a bonding (grounding) conductor
5. GROUNDING CONDUCTOR: In single-conductor cables, the grounding conductor is composed of individual wires applied helically over the insulation shield.
6. INNER JACKET: Polyvinyl Chloride (PVC)
7. ARMOUR: Aluminum interlocking armour (for single-conductor cables for use in AC circuits only aluminum armour is provided and nonmagnetic [aluminum] connectors and locknuts must be used)
8. OVERALL JACKET: Black Polyvinyl Chloride (PVC); FT4; -40°C
9. TEMPERATURE: 90°C
10. VOLTAGE: 28,000 V
11. STANDARDS: In accordance with CSA C68.10 and CSA C22.2 No.174 for use in Class 1, Division 1 Hazardous Locations

APPLICATIONS

Suitable for direct earth burial and for exposed or concealed wiring in wet or dry locations.
Also for use in ventilated, nonventilated and ladder-type cable tray in wet or dry locations in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	Ground Conductor Size	Nominal Diameters										Approx. Weight	
			Insulation		Insulation Shield		Inner Jacket		Armour		Outer Jacket			
	AWG/kcmil	AWG	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lb./1,000 ft.	kg/km
28 kV 100% (280 mils)														
7TR-0101AJ-02	1	4	0.91	23.18	0.99	25.06	1.26	31.90	1.48	37.49	1.57	39.82	1,250	1,860
7TR-1011AJ-02	1/0	4	0.95	24.17	1.03	26.05	1.29	32.89	1.51	38.48	1.62	41.27	1,379	2,052
7TR-2021AJ-02	2/0	4	0.99	25.19	1.07	27.07	1.34	33.91	1.55	39.49	1.66	42.29	1,499	2,231
7TR-3031AJ-02	3/0	3	1.04	26.41	1.13	28.75	1.42	36.11	1.64	41.70	1.75	44.50	1,720	2,560
7TR-4041AJ-02	4/0	3	1.09	27.73	1.18	30.07	1.47	37.44	1.69	43.02	1.80	45.82	1,902	2,830
7TR-2501AJ-02	250	2	1.15	29.13	1.24	31.47	1.53	38.84	1.78	45.19	1.89	47.98	2,200	3,273
7TR-3501AJ-02	350	1	1.24	31.57	1.34	33.91	1.71	43.55	1.96	49.90	2.07	52.70	2,795	4,159
7TR-5001AJ-02	500	1/0	1.36	34.62	1.46	36.96	1.83	46.60	2.08	52.95	2.19	55.74	3,444	5,125
7TR-7501AJ-02	750	2/0	1.60	40.70	1.73	43.90	2.14	54.41	2.39	60.76	2.53	64.17	4,728	7,036
7TR-10001AJ-02	1000	2/0	1.75	44.48	1.88	47.68	2.29	58.20	2.54	64.55	2.68	67.95	5,665	8,430
28 kV 133% (345 mils)														
7TRU-0101AJ-02	1	4	1.05	26.64	1.14	28.97	1.41	35.81	1.63	41.40	1.74	44.19	1,453	2,162
7TRU-1011AJ-02	1/0	4	1.09	27.63	1.18	29.96	1.45	36.80	1.67	42.39	1.78	45.18	1,558	2,319
7TRU-2021AJ-02	2/0	4	1.13	28.64	1.22	30.98	1.49	37.81	1.71	43.40	1.82	46.20	1,683	2,504
7TRU-3031AJ-02	3/0	3	1.18	29.86	1.27	32.20	1.56	39.57	1.81	45.92	1.92	48.71	1,970	2,932
7TRU-4041AJ-02	4/0	3	1.23	31.18	1.32	33.52	1.61	40.89	1.86	47.24	1.97	50.03	2,159	3,213
7TRU-2501AJ-02	250	2	1.28	32.59	1.37	34.92	1.73	43.89	1.98	50.24	2.09	53.04	2,502	3,723
7TRU-3501AJ-02	350	1	1.38	35.02	1.47	37.36	1.85	47.01	2.10	53.36	2.21	56.15	2,991	4,451
7TRU-5001AJ-02	500	1/0	1.50	38.07	1.59	40.41	1.97	50.05	2.22	56.40	2.33	59.20	3,651	5,433
7TRU-7501AJ-02	750	2/0	1.74	44.15	1.86	47.35	2.28	57.87	2.53	64.22	2.66	67.62	4,962	7,383
7TRU-10001AJ-02	1000	2/0	1.89	47.93	2.01	51.13	2.43	61.65	2.68	68.00	2.81	71.41	5,912	8,797

Teck 28 kV Three Conductor

TRXLPE Insulation, Inner/Outer PVC Jacket, Aluminum Interlocking Armour, 90°C, 28 kV, 100% or 133%, CSA

SPECIFICATIONS

1. CONDUCTOR: Class B stranded bare copper
2. CONDUCTOR SHIELD: Thermoset semiconducting layer extruded over conductor
3. INSULATION: Tree-Retardant Cross-linked polyethylene (TRXLPE); 100% (280 mils) or 133% (345 mils)
4. INSULATION SHIELD: This consists of a semiconducting thermosetting layer plus an overlaying metallic component. In multiconductor cables, the metallic component is a helically applied gapped copper tape
5. GROUNDING CONDUCTOR: Bare Class B stranded grounding conductor is included in the cable assembly with suitable fillers
6. INNER JACKET: Polyvinyl Chloride (PVC)
7. ARMOUR: Aluminum interlocking armour
8. OVERALL JACKET: Black Polyvinyl Chloride (PVC); FT4; -40°C
9. TEMPERATURE: 90°C
10. VOLTAGE: 28,000 V
11. STANDARDS: In accordance with CSA C68.10 and CSA C22.2 No.174 for use in Class 1, Division 1 Hazardous Locations

APPLICATIONS

Suitable for direct earth burial and for exposed or concealed wiring in wet or dry locations.
Also for use in ventilated, nonventilated and ladder-type cable tray in wet or dry locations in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	Ground Conductor Size	Nominal Diameters										Approx. Weight	
			Insulation		Insulation Shield		Inner Jacket		Armour		Outer Jacket			
	AWG/kcmil	AWG	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	lb./1,000 ft.	kg/km
28 kV 100% (280 mils)														
7TR-0103AJ-02	1	6	0.91	23.19	0.98	24.87	2.38	60.41	2.63	66.76	2.76	70.17	3,265	4,858
7TR-1013AJ-02	1/0	6	0.95	24.18	1.02	25.86	2.46	62.55	2.71	68.90	2.85	72.31	3,577	5,322
7TR-2023AJ-02	2/0	6	0.99	25.20	1.06	26.87	2.55	64.75	2.80	71.10	2.93	74.50	3,942	5,866
7TR-3033AJ-02	3/0	4	1.04	26.42	1.12	28.55	2.69	68.37	2.94	74.72	3.08	78.12	4,517	6,722
7TR-4043AJ-02	4/0	4	1.09	27.74	1.18	29.87	2.87	73.00	3.12	79.35	3.28	83.26	5,353	7,965
7TR-2503AJ-02	250	4	1.15	29.13	1.23	31.27	2.99	76.02	3.24	82.37	3.40	86.28	5,886	8,759
7TR-3503AJ-02	350	3	1.24	31.57	1.33	33.71	3.20	81.28	3.45	87.63	3.60	91.54	7,139	10,623
7TR-5003AJ-02	500	3	1.36	34.62	1.45	36.75	3.46	87.87	3.71	94.22	3.86	98.13	8,899	13,241
28 kV 133% (345 mils)														
7TRU-0103AJ-02	1	6	0.99	25.27	1.06	26.95	2.56	64.97	2.81	71.32	2.94	74.73	3,524	5,243
7TRU-1013AJ-02	1/0	6	1.03	26.26	1.12	28.40	2.68	68.04	2.93	74.39	3.06	77.79	3,935	5,855
7TRU-2023AJ-02	2/0	6	1.07	27.28	1.16	29.41	2.84	72.01	3.09	78.36	3.24	82.27	4,588	6,827
7TRU-3033AJ-02	3/0	4	1.12	28.50	1.21	30.63	2.94	74.64	3.19	80.99	3.34	84.91	5,109	7,602
7TRU-4043AJ-02	4/0	4	1.17	29.82	1.26	31.95	3.05	77.50	3.30	83.85	3.46	87.76	5,680	8,452
7TRU-2503AJ-02	250	4	1.23	31.22	1.31	33.35	3.17	80.51	3.42	86.86	3.57	90.78	6,223	9,260
7TRU-3503AJ-02	350	3	1.33	33.66	1.41	35.79	3.38	85.78	3.63	92.13	3.78	96.04	7,491	11,147
7TRU-5003AJ-02	500	3	1.44	36.70	1.53	38.84	3.64	92.37	3.89	98.72	4.04	102.63	9,270	13,794

Note: For Steel Interlock Armour (SIA), replace Anixter part number suffix AJ with SJ.

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AC90 Copper

Copper Conductor, XLPE Insulation, Aluminum Interlocking Armour, 90°C, 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Annealed (soft) bare copper
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. GROUNDING CONDUCTOR: Bare copper
4. ARMOUR: Aluminum interlocking armour
5. VOLTAGE: 600 V
6. TEMPERATURE: 90°C
7. STANDARDS: In accordance with CSA C22.2 No.51
8. COLOUR CODING: 2/C (Black, White); 3/C (Black, White, Red); 4/C (Black, Red, Blue, White)

APPLICATIONS

For use in ventilated and unventilated cable troughs and flexible cableways in dry locations.
Also suitable for exposed and concealed wiring in dry locations in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	Bonding Conductor Size	Insulation Thickness		Nominal Diameters Over Armour		Cable Weight	
	AWG	AWG	in.	mm	in.	mm	lb./1,000 ft.	kg/km
TWO COPPER CONDUCTORS								
7Q-1402	14 (Solid)	14	0.030	0.76	0.47	11.94	98	145
7Q-1202	12 (Solid)	14	0.030	0.76	0.51	12.95	115	176
7Q-1002	10 (Solid)	12	0.030	0.76	0.55	13.97	156	233
THREE COPPER CONDUCTORS								
7Q-1403	14 (Solid)	14	0.030	0.76	0.49	12.45	115	171
7Q-1203	12 (Solid)	14	0.030	0.76	0.53	13.46	145	216
7Q-1003	10 (Solid)	12	0.030	0.76	0.57	14.48	195	290
7Q-0803	8	10	0.045	1.14	0.75	19.05	340	506
7Q-0603	6	8	0.045	1.14	0.84	21.34	475	707
7Q-0403	4	8	0.045	1.14	0.95	24.13	650	967
7Q-0303	3	6	0.045	1.14	1.00	25.40	800	1,190
7Q-0203	2	6	0.045	1.14	1.06	26.92	950	1,414
7Q-0103	1	6	0.055	1.40	1.20	30.48	1,155	1,719
7Q-1013	1/0	6	0.055	1.40	1.28	32.51	1,380	2,053
7Q-2023	2/0	6	0.055	1.40	1.38	35.05	1,670	2,485
7Q-3033	3/0	4	0.055	1.40	1.49	37.85	2,075	3,088
7Q-4043	4/0	4	0.055	1.40	1.61	40.89	2,520	3,750
FOUR COPPER CONDUCTORS								
7Q-1404	14 (Solid)	14	0.030	0.76	0.52	13.21	137	204
7Q-1204	12 (Solid)	14	0.030	0.76	0.56	14.22	175	260
7Q-1004	10 (Solid)	12	0.030	0.76	0.62	15.75	239	356
7Q-0804	8	10	0.045	1.14	0.73	18.54	355	528
7Q-0604	6	8	0.045	1.14	0.93	23.62	585	870
7Q-0404	4	8	0.045	1.14	1.03	26.16	815	1,213
7Q-0304	3	6	0.045	1.14	1.11	28.19	1,005	1,495
7Q-0204	2	6	0.045	1.14	1.18	29.97	1,200	1,786
7Q-0104	1	6	0.055	1.40	1.31	33.27	1,465	2,180
7Q-1014	1/0	6	0.055	1.40	1.41	35.81	1,770	2,634
7Q-2024	2/0	6	0.055	1.40	1.51	38.35	2,115	3,147
7Q-3034	3/0	4	0.055	1.40	1.63	41.40	2,670	3,973
7Q-4044	4/0	4	0.055	1.40	1.82	46.23	3,375	5,022

AC90 Aluminum

Aluminum Conductor, XLPE Insulation, Aluminum Interlocking Armour, 90°C, 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Aluminum
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. GROUNDING CONDUCTOR: Bare aluminum
4. ARMOUR: Aluminum interlocking armour
5. VOLTAGE: 600 V
6. TEMPERATURE: 90°C
7. STANDARDS: In accordance with CSA C22.2 No.51
8. COLOUR CODING: 2/C (Black, White); 3/C (Black, White, Red); 4/C (Black, Red, Blue, White)

APPLICATIONS

For use in ventilated and unventilated cable troughs and flexible cableways in dry locations.
Also suitable for exposed and concealed wiring in dry locations in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	Bonding Conductor Size	Insulation Thickness		Nominal Diameters Over Armour		Cable Weight	
	AWG	AWG	in.	mm	in.	mm	lb./1,000 ft.	kg/km
TWO ALUMINUM CONDUCTORS								
7Q-1202AL	12 (Solid)	12	0.030	0.76	0.51	12.95	76	114
7Q-1002AL	10 (Solid)	10	0.030	0.76	0.55	13.97	92	137
THREE ALUMINUM CONDUCTORS								
7Q-1203AL	12 (Solid)	12	0.030	0.76	0.53	13.46	95	141
7Q-1003AL	10 (Solid)	10	0.030	0.76	0.57	14.48	115	171
7Q-0803AL	8	10	0.045	1.14	0.75	19.05	200	298
7Q-0603AL	6	8	0.045	1.14	0.81	20.57	255	379
7Q-0403AL	4	6	0.045	1.14	0.91	23.11	330	491
7Q-0303AL	3	6	0.045	1.14	0.96	24.38	375	558
7Q-0203AL	2	6	0.045	1.14	1.02	25.91	430	640
7Q-0103AL	1	4	0.055	1.40	1.14	28.96	530	789
7Q-1013AL	1/0	4	0.055	1.40	1.22	30.99	605	900
7Q-2023AL	2/0	4	0.055	1.40	1.30	33.02	710	1,056
7Q-3033AL	3/0	4	0.055	1.40	1.41	35.81	825	1,228
7Q-4043AL	4/0	4	0.055	1.40	1.52	38.61	975	1,451
FOUR ALUMINUM CONDUCTORS								
7Q-1204AL	12 (Solid)	12	0.030	0.76	0.56	14.22	102	152
7Q-1004AL	10 (Solid)	10	0.030	0.76	0.62	15.75	128	190
7Q-0804AL	8	10	0.045	1.14	0.73	18.54	180	268
7Q-0604AL	6	8	0.045	1.14	0.89	22.61	305	454
7Q-0404AL	4	6	0.045	1.14	1.00	25.40	405	603
7Q-0304AL	3	6	0.045	1.14	1.06	26.92	560	833
7Q-0204AL	2	6	0.045	1.14	1.13	28.70	530	789
7Q-0104AL	1	4	0.055	1.40	1.26	32.00	650	967
7Q-1014AL	1/0	4	0.055	1.40	1.35	34.29	760	1,131
7Q-2024AL	2/0	4	0.055	1.40	1.44	36.58	880	1,309
7Q-3034AL	3/0	4	0.055	1.40	1.55	39.37	1,035	1,540
7Q-4044AL	4/0	4	0.055	1.40	1.67	42.42	1,335	1,986

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ACWU Single Conductor

Aluminum Conductor, XLPE Insulation, Aluminum Interlocking Armour, PVC Jacket, 90°C, 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Aluminum
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. GROUND CONDUCTOR: Aluminum concentric bonding wire
4. ARMOUR: Aluminum interlocking armour (for single-conductor cables for use in AC circuits only aluminum armour is provided and nonmagnetic [aluminum] connectors and locknuts must be used)
5. OVERALL JACKET: Black Polyvinyl Chloride (PVC); sunlight resistant; FT4; -40°C
6. TEMPERATURE: 90°C
7. VOLTAGE: 600 V
8. STANDARDS: In accordance with CSA C22.2 No.51

APPLICATIONS

CSA approved for use in ventilated and unventilated cable troughs and ventilated flexible cableways in wet or dry locations.
For exposed and concealed wiring and for direct earth burial (with protection as required by inspection authority).

Anixter No.	Conductor Size	Bonding Conductor Size	Insulation Thickness		Nominal Diameters				Approx. Weight	
					Armour		Outer Jacket			
	AWG/kcmil	AWG	in.	mm	in.	mm	in.	mm	lb./1,000 ft.	kg/km
SINGLE CONDUCTOR										
7QB-1011	1/0	4	0.055	1.40	0.79	20.10	0.90	22.79	360	521
7QB-2021	2/0	2	0.055	1.40	0.89	22.71	1.00	25.38	439	636
7QB-3031	3/0	2	0.055	1.40	0.94	23.90	1.05	26.59	488	707
7QB-4041	4/0	2	0.055	1.40	0.98	24.99	1.09	27.59	538	779
7QB-2501	250	1	0.065	1.65	1.06	26.82	1.16	29.57	650	941
7QB-3001	300	1	0.065	1.65	1.11	28.14	1.13	28.60	720	1,043
7QB-3501	350	1/0	0.065	1.65	1.15	29.21	1.24	31.45	770	1,115
7QB-4001	400	1/0	0.065	1.65	1.20	30.42	1.24	31.40	847	1,226
7QB-5001	500	2/0	0.065	1.65	1.23	31.30	1.37	34.80	982	1,422
7QB-6001	600	2/0	0.080	2.03	1.38	35.05	1.44	36.70	1,136	1,645
7QB-7501	750	3/0	0.080	2.03	1.45	36.80	1.60	40.59	1,354	1,961
7QB-10001	1000	3/0	0.080	2.03	1.60	40.70	1.74	44.32	1,652	2,392

ACWU Multiconductor

Aluminum Conductor, XLPE Insulation, Aluminum Interlocking Armour, PVC Jacket, 90°C, 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Aluminum
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. GROUND CONDUCTOR: Bare aluminum
4. ARMOUR: Aluminum interlocking armour
5. OVERALL JACKET: Black Polyvinyl Chloride (PVC); sunlight resistant; FT4; -40°C
6. TEMPERATURE: 90°C
7. VOLTAGE: 600 V
8. STANDARDS: In accordance with CSA C22.2 No.51

APPLICATIONS

CSA approved for use in ventilated and unventilated cable troughs and ventilated flexible cableways in wet or dry locations.
For exposed and concealed wiring and for direct earth burial (with protection as required by inspection authority).

Anixter No.	Conductor Size	Bonding Conductor Size	Insulation Thickness		Nominal Diameters				Approx. Weight	
					Armour		Outer Jacket			
	AWG/kcmil	AWG	in.	mm	in.	mm	in.	mm	lb./1,000 ft.	kg/km
THREE CONDUCTORS										
7QB-0603	6	8	0.045	1.14	0.81	20.57	0.93	23.62	335	485
7QB-0403	4	6	0.045	1.14	0.91	23.11	1.02	25.91	415	601
7QB-0303	3	6	0.045	1.14	0.96	24.38	1.07	27.18	452	654
7QB-0203	2	6	0.045	1.14	1.02	25.91	1.13	28.70	518	750
7QB-0103	1	4	0.055	1.40	1.14	28.96	1.25	31.75	632	915
7QB-1013	1/0	4	0.055	1.40	1.22	30.99	1.32	33.53	722	1,045
7QB-2023	2/0	4	0.055	1.40	1.30	33.02	1.41	35.81	830	1,202
7QB-3033	3/0	4	0.055	1.40	1.41	35.81	1.51	38.35	970	1,405
7QB-4043	4/0	4	0.055	1.40	1.52	38.61	1.65	41.91	1,173	1,699
7QB-2503	250	2	0.065	1.65	1.66	42.16	1.90	48.26	1,455	2,107
7QB-3003	300	2	0.065	1.65	1.80	45.72	1.92	48.77	1,788	2,589
7QB-3503	350	2	0.065	1.65	1.90	48.26	2.03	51.56	1,989	2,880
7QB-4003	400	2	0.065	1.65	1.98	50.29	2.11	53.59	2,173	3,147
7QB-5003	500	1	0.065	1.65	2.16	54.86	2.29	58.17	2,531	3,665
7QB-7503	750	1/0	0.080	2.03	2.59	65.79	2.74	69.60	3,644	5,277
FOUR CONDUCTORS										
7QB-0604	6	8	0.045	1.14	0.89	22.61	1.01	25.65	392	568
7QB-0404	4	6	0.045	1.14	1.00	25.40	1.13	28.70	520	753
7QB-0304	3	6	0.045	1.14	1.06	26.92	1.16	29.46	550	796
7QB-0204	2	6	0.045	1.14	1.13	28.70	1.23	31.24	626	906
7QB-0104	1	4	0.055	1.40	1.26	32.00	1.37	34.80	768	1,112
7QB-1014	1/0	4	0.055	1.40	1.35	34.29	1.45	36.83	889	1,287
7QB-2024	2/0	4	0.055	1.40	1.44	36.58	1.54	39.12	1,030	1,491
7QB-3034	3/0	4	0.055	1.40	1.55	39.37	1.67	42.42	1,236	1,790
7QB-4044	4/0	4	0.055	1.40	1.67	42.42	1.80	45.72	1,457	2,110
7QB-2504	250	2	0.065	1.65	1.86	47.24	1.99	50.55	1,947	2,819
7QB-3004	300	2	0.065	1.65	1.98	50.29	2.11	53.59	2,210	3,200
7QB-3504	350	2	0.065	1.65	2.09	53.09	2.22	56.39	2,427	3,514
7QB-4004	400	2	0.065	1.65	2.19	55.63	2.32	58.93	2,665	3,859
7QB-5004	500	1	0.065	1.65	2.38	60.45	2.54	64.52	3,248	4,703
7QB-7504	750	1/0	0.080	2.03	2.87	72.90	3.02	76.71	4,610	6,675

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Type RA90 Copper

Copper Conductor, XLPE Insulation, Continuous Corrugated Weld Aluminum Sheath, PVC Jacket, 90°C, 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Class B stranded bare copper
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. SHEATH: Continuous corrugated weld (CCW) aluminum sheath (for single-conductor cables for use in AC circuits only aluminum armour is provided and nonmagnetic [aluminum] connectors and locknuts must be used)
4. OUTER JACKET: Black Polyvinyl Chloride (PVC); FT4; -40°C
5. TEMPERATURE: 90°C
6. VOLTAGE: 600 V
7. STANDARDS: In accordance with CSA C22.2 No.123

APPLICATIONS

May be used in wet or dry locations, installed in tray, trough, ladder or direct buried.
Also meets the requirements for Class 1, Division 1 Hazardous Locations in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	Nominal Diameters				Approx. Weight	
		Sheath		Outer Jacket			
	AWG/kcmil	in.	mm	in.	mm	lb./1,000 ft.	kg/km
7QC-1011	1/0	0.64	16.26	0.75	19.05	496	738
7QC-2021	2/0	0.77	19.56	0.88	22.35	625	930
7QC-3031	3/0	0.79	20.07	0.90	22.86	744	1,107
7QC-4041	4/0	0.83	21.08	0.93	23.62	887	1,320
7QC-2501	250	0.94	23.88	1.04	26.42	1,050	1,562
7QC-3001	300	0.99	25.15	1.09	27.69	1,210	1,800
7QC-3501	350	1.02	25.91	1.14	28.96	1,380	2,053
7QC-4001	400	1.17	29.72	1.27	32.26	1,610	2,396
7QC-5001	500	1.22	30.99	1.34	34.04	1,945	2,894
7QC-6001	600	1.38	35.05	1.48	37.59	2,330	3,467
7QC-7501	750	1.53	38.86	1.64	41.66	2,885	4,293
7QC-10001	1000	1.67	42.42	1.78	45.21	3,725	5,543

Type RA90 Aluminum

Aluminum Conductor, XLPE Insulation, Continuous Corrugated Weld Aluminum Sheath, PVC Jacket, 90°C, 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Aluminum
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. SHEATH: Continuous corrugated weld (CCW) aluminum sheath (for single-conductor cables for use in AC circuits only aluminum armour is provided and nonmagnetic [aluminum] connectors and locknuts must be used)
4. OUTER JACKET: Black Polyvinyl Chloride (PVC); FT4; -40°C
5. TEMPERATURE: 90°C
6. VOLTAGE: 600 V
7. STANDARDS: In accordance with CSA C22.2 No.123

APPLICATIONS

May be used in wet or dry locations, installed in tray, trough, ladder or direct buried.
Also meets the requirements for Class 1, Division 1 Hazardous Locations in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	Nominal Diameters				Approx. Weight	
		Sheath		Outer Jacket			
	AWG/kcmil	in.	mm	in.	mm	lb./1,000 ft.	kg/km
7QD-1011	1/0	0.75	19.05	0.86	21.84	305	442
7QD-2021	2/0	0.77	19.56	0.88	22.35	340	492
7QD-3031	3/0	0.80	20.32	0.91	23.11	380	550
7QD-4041	4/0	0.82	20.83	0.92	23.37	430	623
7QD-2501	250	0.95	24.13	1.06	26.92	510	738
7QD-3001	300	0.99	25.15	1.09	27.69	570	825
7QD-3501	350	1.00	25.40	1.10	27.94	625	905
7QD-4001	400	1.17	29.72	1.27	32.26	750	1,086
7QD-5001	500	1.19	30.23	1.30	33.02	861	1,247
7QD-6001	600	1.38	35.05	1.48	37.59	1,040	1,506
7QD-7501	750	1.40	35.56	1.51	38.35	1,211	1,754
7QD-10001	1000	1.59	40.39	1.71	43.43	1,584	2,294

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3

Multiconductor and Multipair Electronic Cable

Section 3 Multiconductor and Multipair Electronic Cable

Belden Cable Finder Guide (Multiconductor and Paired Cable). P.3-2

Multiconductor Nonplenum Unshielded. P.3-30

Multiconductor Nonplenum Shielded. P.3-34

Multiconductor Plenum Unshielded. P.3-42

Multiconductor Plenum Shielded. P.3-43

Multipair Nonplenum Unshielded. P.3-46

Multipair Nonplenum Shielded. P.3-50

Multipair Plenum Unshielded. P.3-65

Multipair Plenum Shielded. P.3-66

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Less than 25 Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
25 AWG and smaller														
1	—	—	—	—	B83303E	3.41	—	—	—	—	—	—	—	—
2	—	—	9454 8416	❖ ❖	B83317E	3.41	9180 9271	❖ ❖	—	—	—	—	—	—
3	—	—	B8791	3.37	B83332E 8643	3.41 ❖	—	—	—	—	—	—	—	—
4	—	—	—	—	B83347E 1804A 1172A	3.41 ❖ ❖	B1211A● 8132F0	3.39 ❖	B9804 B8132	3.55 3.57	1215A■ 7891A■	❖ ❖	—	—
6	—	—	—	—	—	—	B1212A● 8133F0	3.39 ❖	9791 B9805 B8133 1538A	❖ 3.55 3.57 ❖	—	—	—	—
7	—	—	—	—	—	—	—	—	1540A	❖	—	—	—	
8	—	—	—	—	—	—	B1213A● 8134F0	3.39 ❖	B9806 B8134	3.55 3.57	7890A■	❖	7884A◗	❖
10	—	—	—	—	—	—	8135F0	❖	B9807 B8135	3.55 3.57	—	—	—	—
14	—	—	—	—	—	—	—	—	B9808	3.55	9868■	❖	—	—
16	—	—	—	—	—	—	B1214A● 8138F0	3.39 ❖	B8138	3.57	7880A■	❖	7885A◗	❖
18	—	—	—	—	—	—	—	—	B9809	3.55	—	—	—	—
24	—	—	—	—	—	—	—	—	B9812	3.55	7892A■	❖	—	
24 AWG														
1	—	—	—	—	B83304E	3.41	—	—	—	—	—	—	—	—
2	8782	❖	9397 1812A 1813A	❖ ❖ ❖	B83318E 8413 9399 1800F	3.41 ❖ ❖ ❖	9452 B9501 B8641 B82641 B88641 1508A 1800B 1801B 1883A	❖ 3.50 3.53 3.66 3.66 ❖ ❖ ❖ ❖	B9841 B82841 B89841 7200A 7205A 7206A	3.57 3.69 3.70 ❖ ❖ ❖	—	—	—	—
3	—	—	9398	❖	B83333E 8406	3.41 ❖	B9533	3.34	B9608 B9925 B83503	3.38 3.38 3.44	—	—	—	—
4	9562▼ 1588A▼ 1588R▼ 1590A▼ 1227A1▼ 1243A2▼ 7932A 24501922	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—	B83348E 1192A	3.41 ❖	B9534 B9502 B82502 B88102 B89842 B1419A 7933A	3.34 3.50 3.66 3.67 3.70 3.51 ❖	B9609 B9927 B83504 B9842 B82842 B8332 B9829 B8102 7201A	3.38 3.38 3.44 3.57 3.69 3.58 3.56 3.56 ❖	B9729 B89729 82729 8162■ 1509C■ 1802B◆	3.59 3.70 ❖ ❖ ❖ ❖	1902A	❖
5	—	—	—	—	—	—	B9535	3.34	B9610 B9929	3.38 3.38	—	—	—	—

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No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
24 AWG *(continued)*														
6	24501934	❖	—	—	—	—	B9536	3.34	B9611	3.38	B9730	3.59	—	—
	24571097	❖					B9503	3.50	B9931	3.38				
							B82503	3.66	B83506	3.44	B89730	3.70		
									B9843	3.57				
							B89503	3.66	B9830	3.56				
									B8103	3.56	8163■	❖		
							B9680	3.51	3120A	❖	B9990	3.59		
							B1420A	3.51	7202A	❖				
							B88103	3.67	B8333	3.58				
7	—	—	—	—	—	—	B9537	3.34	B9612	3.38	—	—	—	—
									B9932	3.38				
8	1229A1▼	❖	—	—	—	—	B9538	3.34	B9933	3.38	B9728	3.59	1904A	❖
	1245A2▼	❖					B9504	3.50	B9844	3.57				
	1304A	❖					B82504	3.66	B9831	3.56	B89728	3.70		
	1305A	❖							B9613	3.38				
	1500A▼	❖					B89504	3.66	B8334	3.58				
	1500R▼	❖							B8104	3.56	8164■	3.62		
							B9681	3.51	7921A	❖	1408R■	❖		
	1501A▼	❖					B88104	3.67	7203A	❖	1510C■	❖		
	1583A▼	❖					B1421A	3.51	B89842	3.70	1803F■	❖		
	1583R▼	❖					1533R▼	❖						
							1533P▼	❖						
	1583B▼	❖					1624R▼	❖						
	1585A▼	❖					1624P▼	❖						
							1633A▼	❖						
	1585B▼	❖					7919A	❖						
	1585LC▼	❖					7921A	❖						
	1592A	❖					7929A	❖						
	1594A▼	❖					1300A	❖						
	1700A▼	❖					1300SB	❖						
	1700R▼	❖												
	1701A▼	❖												
	1701LC▼	❖												
	1752A	❖												
	1875GB	❖												
	7883A	❖												
	7918A	❖												
	7923A	❖												
	7924A	❖												
	7928A	❖												
	7930A	❖												
	7934A	❖												
	7987P	❖												
	7987R	❖												
	7988P	❖												
	7988R	❖												
	7997A	❖												
	11700A	❖												
	11700A2	❖												
	121700A*	❖												
	11872A	❖												
	245019XX	❖												
	24566XXX	❖												
	24567XXX	❖												
	24568XXX	❖												
	24570XXX	❖												
	245711XX	❖												

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	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
24 AWG *(continued)*														
9	—	—	—	—	—	—	B9539	3.34	B9614 B9934 B83509	3.38 3.38 3.44	—	—	—	—
10	—	—	—	—	—	—	B9540 B9505 B82505 B89505 B1422A B88105	3.34 3.50 3.66 3.66 3.51 3.67	B9615 B9935 B8335 B9832 B8105	3.38 3.38 3.58 3.56 3.56	B8165■ B89705	3.62 3.70	—	—
12	9566▼ 24501829	❖ ❖	—	—	—	—	B9506 B82506 B9682 B1423A B88106	3.50 3.66 3.51 3.51 3.67	B83512 B8336 B9839 B8106	3.44 3.58 3.56 3.56	B9731 B89731 B9991 B8166■ 1409R■ 1511C■	3.59 3.70 3.59 3.62 ❖ ❖	1906A	❖
14	—	—	—	—	—	—	B9507	3.50	B8337 B9833 B8107	3.58 3.56 3.56	8167■ B89757	❖ 3.70	—	—
15	—	—	—	—	—	—	B9541 B88107	3.34 3.67	B9616 B9936 B83515	3.38 3.38 3.44	—	—	—	—
16	1702A◆▼ 1703A◆▼	❖ ❖	—	—	—	—	B9508 1668A▼	3.50 ❖	B8108	3.56	B8168■ 1410R■ 1512C■ 1805F■	3.62 ❖ ❖ ❖	1908A	❖
18	—	—	—	—	—	—	B9509 B82509 B9683 B88109	3.50 3.66 3.51 3.67	B9834	3.56	B9732 B89732 B9992	3.59 3.70 3.59	—	—
20	9570▼	❖	—	—	—	—	B9542 B9510	3.34 3.50	B8340 B9835 B8110	3.58 3.56 3.56	B8170■	3.62	—	—
22	—	—	—	—	—	—	—	—	—	—	9733	❖	—	—
24	24501837	❖	—	—	—	—	—	—	B9836	3.56	B9734 B9993 B89734 1411R■ 1513C■ 1806F■	3.59 3.59 3.70 ❖ ❖ ❖	1912A	❖

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	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
23 AWG														
8	1872A▼	❖	—	—	—	—	—	—	—	—	—	—	—	—
	1874A▼	❖												
	7813LC	❖												
	7851A▼	❖												
	7851NH	❖												
	7852A▼	❖												
	7881A▼	❖												
	7882A▼	❖												
	7927A	❖												
	7931A	❖												
	7989P	❖												
	7989R	❖												
	11872A▼	❖												
	121872A▼	❖												
	24586XXX	❖												
	24588XXX	❖												
	245873XX	❖												
22 AWG														
1	—	—		—	B9965	3.37	—	—	—	—	—	—	—	—
					B83305E	3.41								
2	8795▼	❖	B8737	3.55	B9966	3.37	B83394	3.40	B83552	3.44	—	—	—	—
	B8442	3.30			B83319E	3.41	B8450▼	3.52	3079A	❖				
					8422	❖			3105A	❖				
	B88442	3.42			8437▼	❖	9414	❖	1696A	❖				
					B8441	❖	B9462	3.52						
							B8761	3.53						
	B82442	3.42					B9461	3.53						
							8451	❖						
	9712	❖					B9451	3.64						
	9151	❖												
	B8740▼	3.46					1266A	❖						
	9407	❖												
							1503A	❖						
							B88761	3.68						
							B87761	3.68						
							B82761	3.67						
							9182●	❖						
							89182●	❖						
							3077F	❖						
							3078F	❖						
							3079E	❖						
							9322	❖						
							B9451P	3.69						
							9451SB	❖						

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	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
22 AWG *(continued)*														
3	8794▼	❖	—	—	B8735	3.36	B9770	3.35	9939	❖	—	—	—	—
	B8443	3.30			B9967	3.37	B8771	3.35	B83553	3.44				
	9491†	❖			B83334E	3.41	B83395	3.40	3106A	❖				
	9363†	❖												
4	9794▼	❖	—	—	B9968	3.37	B8729	3.35	9940	❖	9406	❖	—	—
	B8444	3.30			B83349E	3.41	B83396	3.40	B83554	3.44	B8723	3.60		
	B88444	3.42					B9302▼	3.52	B8302	3.58				
							9184▼	❖	9855▼	❖				
	B82444	3.42					3000A	❖	1268A▼	❖	B82723	3.70		
							9512	❖	89855▼	❖				
	B8741▼	3.46					B9451DP	3.69						
	B9744	3.47							1269A▼	❖	8723SB	❖		
	B88741	3.65												
									9696▼	❖	B88723	3.71		
	B82741	3.65							89696▼	❖				
	1242A	❖							3107A	❖	B87723	3.71		
											B8728■	3.62		
											9688■▼	❖		
											82688■▼	❖		
											1634A■▼	❖		
											3087A	❖		
											9328	❖		
											3001A■	❖		
											1814R■	❖		
											1502P	❖		
											1502R	❖		
											B9451D◆	3.64		
											1504A◆	❖		
5	B8445	3.30	—	—	—	—	—	—	9941	❖	—	—	—	—
6	9576▼	❖	—	—	—	—	3002A†	❖	9942	❖	3003A†■	❖		
	B8742▼	3.46					9513	❖	B83556	3.44	B8767▼	3.60		
	B9745	3.47							B8303	3.58	B8777	3.61		
	B82742	3.65							3108A	❖				
											B82777	3.70		
											B88777	3.71		
											B87777	3.71		
											8777SB	❖		
											9329	❖		
7	B9430	3.30	—	—	—	—	—	—	9943	❖				

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	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
22 AWG *(continued)*														
8	B9421 B8757▼ B9746 B88757 B82757 7922A	3.30 3.46 3.47 3.65 3.65 ❖	—	—	—	—	B9305▼ 3004A 9514	3.52 ❖ ❖	9944 B8304 3109A	❖ 3.58 ❖	9330 3005A■ 1815R■ 1217B 9891■	❖ ❖ ❖ ❖ ❖	—	—
9	B9423	3.30	—	—	—	—	—	—	9945 B83559	❖ 3.44	—	—	—	—
10	B8456	3.30	—	—	—	—	—	—	9946 B8305	❖ 3.58	—	—	—	—
12	B8457 B8743▼ B8747 B82743	3.30 3.46 3.47 3.65	—	—	—	—	B9306▼ 9516	3.52 ❖	B83562 B8306	3.44 3.58	B8768▼ B8778 B82778 B88778 B87778 9331 1816R■ 1218B	3.60 3.61 3.70 3.71 3.71 ❖ ❖ ❖	—	—
14	—	—	—	—	—	—	—	—	B8307	3.58	—	—	—	—
15	B8458	3.30	—	—	—	—	—	—	9947	❖	—	—	—	—
16	B9160▼	3.46	—	—	—	—	3006A	❖	B8308	3.58	3007A■ 1817R■	❖ ❖	—	—
18	B8744▼ B8748	3.46 3.47	—	—	—	—	B9309▼ 9520	3.52 ❖	—	—	B8764▼ B8774 9332 1219B	3.60 3.61 ❖ ❖	—	—
19	—	—	—	—	—	—	—	—	B83569	3.44	—	—	—	—
20	B9431	3.30	—	—	—	—	—	—	B8310	3.58	—	—	—	—
22	—	—	—	—	—	—	9521	❖	—	—	B8765▼ B8775 9333	3.60 3.61 ❖	—	—
24	B9747	3.47	—	—	—	—	3008A	❖	—	—	B9768 3009A■ 1818R■ 1220B	3.61 ❖ ❖ ❖	—	—

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No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
20 AWG														
1	—	—	—	—	B9961 B83306E	3.37 3.41	—	—	—	—	—	—	—	—
2	B85220 7400A 83930 83932▼ 83934▼ 83915▼ 83900▼ 83905▼ 83910▼ 8649 B8205 9408	3.33 ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ 3.48 ❖	B8759	3.55	B9962 B83320E 8412 8402 9272	3.37 3.41 ❖ ❖ ❖	B9802▼ B83393 B85230 B8762 B9464 B9154 9320 1033A 3111A 3112A 3113A 83955 83950 83952 83954	3.39 3.40 3.40 3.53 3.53 3.52 ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	B83602 9207● 9463 9463DB 89463 129463* 139463* 189463* 9463F	3.44 ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	22671■ 23543*■ 26530*■	❖ ❖ ❖	—	—
3	7101A 7401A 9492†	❖ ❖ ❖	—	—	B9963 B83335E 7401AS 8423 8403	3.37 3.41 ❖ ❖ ❖	B8772 B9803▼ B85240 9364† 1526A†	3.52 3.39 3.40 ❖ ❖	—	—	22660†■ 23545*†■ 26539*†■	❖ ❖ ❖	—	—
4	B9444 7102A 7402A 8484	3.30 ❖ ❖ ❖	—	—	B9964 B83350E 7402AS 8424 8404	3.37 3.41 ❖ ❖ ❖	3016A	❖	B83604	3.44	9402 1075A■ 3115A■ 22638■ 23534*■ 26531*■	❖ ❖ ❖ ❖ ❖ ❖	—	—
5	B9445 7403A	3.30 ❖	—	—	7403AS 8405 8425	❖ ❖ ❖	—	—	—	—	—	—	—	—
6	B9750	3.48	—	—	B9260 8426	3.36 ❖	3017A†	❖	B83606	3.44	3018A†■ 22662†■ 23546*†■ 26540*†■ B9883 B9873	❖ ❖ ❖ ❖ 3.61 3.61	—	—
7	B9439 7404A	3.30 ❖	—	—	7404AS 8427	❖ ❖	—	—	—	—	—	—	—	—
8	—	—	—	—	8418 9892	❖ ❖	B85164 1056A	3.50 ❖	—	—	B8725 9891■ 9901●■ 89901●■ 89892■ 1076A■ 1006A■ 1012A■ 22639■ 23514*■ 26532*■	3.63 ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—
9	B9455 7105A 7405A	3.30 ❖ ❖	—	—	—	—	—	—	B83609	3.44	—	—	—	—
10	—	—	—	—	—	—	B9890▼	3.39	—	—	9902●■	❖		

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	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
20 AWG *(continued)*														
12	B9457 7106A 7406A B9751	3.30 ❖ ❖ 3.48	—	—	B9261 7106AS	3.36 ❖	3020A†	❖	B83612	3.44	1083A†■ 22663†■ 23547*†■ 26541*†■ B9886 B9874 22640■ 23513*■ 26533*■	❖ ❖ ❖ ❖ 3.61 3.61 ❖ ❖ ❖	—	—
15	B9458	3.30	—	—	—	—	B9894▼	3.39	—	—	—	—	—	—
16	—	—	—	—	—	—	B85168 1057A	3.50 ❖	—	—	1077A■ 1013A■ 22641■ 23503*■ 26534*■	❖ ❖ ❖ ❖ ❖	—	—
18	7107A 7407A B9752	❖ ❖ 3.48	—	—	—	—	—	—	—	—	B9875	3.61	—	—
22	—	—	—	—	—	—	—	—	—	—	9876	❖	—	—
24	—	—	—	—	—	—	3021A† 1058A	❖ ❖	—	—	1084A†■ 22672†■ 23548*†■ 26542*†■ B9877 1078A■ 1014A■ 22676■ 23521*■ 26535*■	❖ ❖ ❖ ❖ 3.61 ❖ ❖ ❖ ❖ ❖	—	—
19 AWG														
2	8486	❖	—	—	—	—	—	—	—	—	—	—	—	—
18 AWG														
1	—	—	—	—	B83307E	3.41	—	—	—	—	—	—	—	—
2	9571▼ 7409A 27916A 27325A 9708 8460 1863A B8461 29030* B9740 B89740 87740 B82740 9409 9486	❖ ❖ ❖ ❖ ❖ ❖ ❖ 3.48 ❖ 3.48 3.65 ❖ 3.65 ❖ ❖	B8790	3.55	B83321E 8428 9250 B8208	3.41 ❖ ❖ 3.54	27325AS 9574▼ B8760 B9460 B88760 B87760 B82760 3076F 9318 1032A 9341 1120A 3088A 3088AE 3088CE	❖ ❖ 3.53 3.53 3.68 3.68 3.67 ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	B83652 3072F 3073F 3074F	3.44 ❖ ❖ ❖	22645■ 23533*■ 26514*■ 22417■ 24511*■ 25506*■	❖ ❖ ❖ ❖ ❖ ❖	—	—

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No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
18 AWG *(continued)*														
3	7110A 7410A 9493† 27334A 29031*	❖ ❖ ❖ ❖ ❖	B8791	3.37	B83336E	3.41	27334AS B8770 B88770 9365† 1036A† 1121A† 3089A†	❖ 3.35 3.43 ❖ ❖ ❖ ❖	B83653	3.44	22677†■ 23505*†■ 26522*†■ 22442†■ 24516*†■ 25500*†■ 3088AE 3088CE	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—
4	B8489 B88489 B82489 7411A 27326A 29032* B9156	3.30 3.42 3.42 ❖ ❖ ❖ 3.48	—	—	B83351E 7111AS 7411AS	3.41 ❖ ❖	27326AS B9418 B89418 B82418 9578▼ 9552 3025A 1063A	❖ 3.34 3.43 3.43 ❖ ❖ ❖ ❖	B83654	3.44	9368 1474A■ 1048A■ 22633■ 23511*■ 26515*■ 22405■ 24512*■ 25514*■	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—
5	B8465 7412A 27335A 29033*	3.30 ❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
6	27600A 29034* B8690	❖ ❖ 3.48	—	—	—	—	3027A† 9553 1529A	❖ ❖ ❖	B83656	3.44	3028A†■ 3064A†■ 22678†■ 23516*†■ 26523*†■ 22443†■ 24517*†■ 25522*†■ B9773 9369	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ 3.61 ❖	—	—
7	B8467 7113A 7413A 27327A 29035*	3.30 ❖ ❖ ❖ ❖	—	—	7413AS	❖	—	—	—	—	—	—	—	—
8	27601A 29036* B9157	❖ ❖ 3.48	—	—	—	—	9554 1466A 1064A	❖ ❖ ❖	—	—	3029A 9388 1475A■ 1049A■ 22648■ 23530*■ 26516*■ 22404■ 24513*■ 25503*■	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—
9	B8469 7414A 27336A	3.30 ❖ ❖	—	—	—	—	—	—	B83659	3.44	—	—	—	—
10	27328A 29038* B9159	❖ ❖ 3.48	—	—	—	—	—	—	—	—	—	—	—	—
11	27602A	❖	—	—	—	—	—	—	—	—	—	—	—	—

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	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
18 AWG *(continued)*														
12	B8466 7115A 7415A 27329A 29040* B8691	3.30 ❖ ❖ ❖ ❖ 3.48	—	—	7115AS 7415AS	❖ ❖	3030A† 9556	❖ ❖	83662	❖	3031A†■ 1093A†■ 22679†■ 23515*†■ 26524*†■ 22444†■ 24518*†■ 25520*†■ B9774 9389 22634■ 23528*■ 26517*■	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ 3.61 ❖ ❖ ❖ ❖	—	—
13	27603A	❖	—	—	—	—	—	—	—	—	—	—	—	—
14	27604A	❖	—	—	—	—	—	—	—	—	—	—	—	—
15	B8468 27605A 29043*	3.30 ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
16	27606A B9161	❖ 3.48	—	—	—	—	1467A 1065A	❖ ❖	—	—	1476A■ 1050A■ 22635■ 23531*■ 26518*■ 22418■ 24514*■ 25505*■	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—
17	27607A	❖	—	—	—	—	—	—	—	—	—	—	—	—
18	7116A 7416A 27608A B8692	❖ ❖ ❖ 3.48	—	—	7416AS	❖	9559	❖	—	—	23508*†■ 26525*†■ B9775 9390	❖ ❖ 3.61 ❖	—	—
19	B8619 27609A	3.30 ❖	—	—	—	—	—	—	—	—	—	—	—	—
20	27610A 29048*	❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
22	—	—	—	—	—	—	9563	❖	—	—	9391	❖		
24	B9741	3.48	—	—	—	—	3032A† 1468A 1066A	❖ ❖ ❖	—	—	3033A†■ 1094A†■ 22680†■ 23523*†■ 26526*†■ 22445†■ 24519*†■ 25523*†■ B9776 1477A■ 1051A■ 22636■ 23524*■ 26519*■ 22421■ 24515*■ 25501*■	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ 3.61 ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—

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No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
16 AWG														
1	—	—	—	—	B9951 B83308E	3.37 3.41	—	—	—	—	—	—	—	—
2	B8677 B85221 B85102 9572▼ 7421A 27917A 27337A 9716 8470 9497 1862A B8471 29017* 9410 1035A 9487 1307A	3.32 3.33 3.33 ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ 3.48 ❖ ❖ ❖ ❖ ❖	B8780	3.55	B9952 B83322E 8408	3.37 3.41 ❖	B85231 9575▼ 27337AS B8719 9316 1030A 1101A 1000A 1018A 1023A 1114A▼ 1115A▼ 1116A▼ 1117A▼ 83951 83953 9342 1118A 3090A 3090AE 3090CE	3.40 ❖ ❖ 3.54 ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	B83702 9860●▼	3.45 ❖	22646■ 23501*■ 26500*■ 22416■ 24500*■ 25504*■	❖ ❖ ❖ ❖ ❖ ❖	—	—
3	9498 B85103 7122A 7422A 9494† 1034A† 27331A 29004*	❖ 3.33 ❖ ❖ ❖ ❖ ❖ ❖	—	—	B9953 B83337E	3.37 3.41	B8618 B85241 9366† 1031A† 1119A† 3091A† 27331AS	3.35 3.40 ❖ ❖ ❖ ❖ ❖	B83703	3.45	22603†■ 23507*†■ 26502*†■ 22413†■ 24501*†■ 25502*†■	❖ ❖ ❖ ❖ ❖ ❖	—	—
4	B8620 7423A 27338A 29018* 3082K 3082KP 1308A	3.31 ❖ ❖ ❖ ❖ ❖ ❖	—	—	B9954 B83352E 7123AS 7423AS 8407	3.37 3.41 ❖ ❖ ❖	9579▼ 3043A 1069A	❖ ❖ ❖	B83704 29500	3.45 ❖	1492A■ 1055A■ 22628■ 23527*■ 26501*■ 22409■ 24505*■ 25510*■	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—
5	B9620 9420 85105 7424A 27339A 29019*	3.31 ❖ ❖ ❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
6	27615A 29005*	❖ ❖	—	—	—	—	3044A† 1528A 1527A	❖ ❖ ❖	B83706	3.45	3045A†■ 22687†■ 23522*†■ 26509*†■ 22448†■ 24507*†■ 25507*†■ 1037A■	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—
7	B8621 9422 85107 7125A 7425A 27323A 29020*	3.31 ❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—

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	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
16 AWG *(continued)*														
8	B9721 27616A 29021*	3.31 ❖ ❖	—	—	—	—	1484A 1070A	❖ ❖	—	—	1493A■ 1039A■ 22629■ 23509*■ 26503*■ 22410■ 24502*■ 25511*■	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—
9	B9621 9424 B85109 7126A 7426A 27340A	3.31 ❖ 3.33 ❖ ❖ ❖	—	—	—	—	—	—	B83709	3.45	—	—	—	—
10	27617A 29022*	❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
11	27618A	❖	—	—	—	—	—	—	—	—	—	—	—	—
12	B8622 9425 7127A 7427A 27341A 29006*	3.31 ❖ ❖ ❖ ❖ ❖	—	—	7427AS	❖	3046A†	❖	B83712	3.45	3047A†■ 1097A†■ 22675†■ 23520*†■ 26510*†■ 22414†■ 24508*†■ 25509*†■ 1040A■ 22630■ 23500*■ 26504*■ 22446■ 24506*■ 25512*■	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—
13	27619A	❖	—	—	—	—	—	—	—	—	—	—	—	—
14	27620A	❖	—	—	—	—	—	—	—	—	—	—	—	—
15	B8623 27621A 29023*	3.31 ❖ ❖	—	—	—	—	—	—	B83715	3.45	—	—	—	—
16	9427 27330A	❖ ❖	—	—	—	—	1485A 1071A	❖ ❖	—	—	1494A■ 1041A■ 22631■ 23510*■ 26505*■ 22411■ 24503*■ 25513*■	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—
17	27622A	❖	—	—	—	—	—	—	—	—	—	—	—	—
18	7128A 7428A 27623A	❖ ❖ ❖	—	—	7428AS	❖	—	—	—	—	22688†■ 23529*†■ 26511*†■	❖ ❖ ❖	—	—
19	B8624	3.31	—	—	—	—	—	—	B83719	3.45	—	—	—	—
20	9429 27625A 29007*	❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—

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No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
16 AWG *(continued)*														
24	—	—	—	—	—	—	3048A†	❖	—	—	3049A†■	❖	—	—
							1486A	❖			1098A†■	❖		
							1072A	❖			22689†■	❖		
											23526*†■	❖		
											26512*†■	❖		
											22415†■	❖		
											24509*†■	❖		
											25508*†■	❖		
											1495A■	❖		
											1042A■	❖		
											22632■	❖		
											23525*■	❖		
											26506*■	❖		
											22412■	❖		
											24504*■	❖		
											25518*■	❖		
14 AWG														
2	B8675	3.32	—	—	—	—	9581▼	❖	B83752	3.45	—	—	—	—
	9580▼	❖					B8720	3.54						
	7434A	❖												
	27080A	❖					9314	❖						
	27636A	❖					9343	❖						
	9717	❖					3080A	❖						
	1861A	❖												
	B8473	3.49												
	27243*	❖												
	28243*	❖												
	27840*	❖												
	28840*	❖												
	22100	❖												
	C5500*	❖												
	9411	❖												
	9488	❖												
	1309A	❖												
3	7435A	❖	—	—	—	—	9367†	❖	B83753	3.45	—	—	—	—
	9495†	❖					3081A†	❖						
	27081A	❖					27081AS	❖						
	27244*	❖												
	28244*	❖												
	27841*	❖												
	28841*	❖												
	22101	❖												
	C5501*	❖												
	C5701*	❖												
4	B8627	3.31	—	—	7136AS	❖	27082AS	❖	B83754	❖	—	—	—	—
	7136A	❖			7436AS	❖			29501	❖				
	7436A	❖												
	27082A	❖												
	1810A	❖												
	27245*	❖												
	28245*	❖												
	27842*	❖												
	28842*	❖												
	22102	❖												
	C5502*	❖												
	C5702*	❖												
	1310A	❖												

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	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
14 AWG *(continued)*														
5	B9623	3.31	—	—	—	—	—	—	—	—	—	—	—	—
	27083A	❖												
	27246*	❖												
	28246*	❖												
	27843*	❖												
	28843*	❖												
	22103	❖												
	C5503*	❖												
6	27084A	❖	—	—	—	—	—	—	B83756	3.45	—	—	—	—
	27247*	❖												
	28247*	❖												
	27844*	❖												
	28844*	❖												
	22104	❖												
	C5504*	❖												
7	B8628	3.31	—	—	7438AS	❖	—	—	—	—	—	—	—	—
	7438A	❖												
	27085A	❖												
	27248*	❖												
	28248*	❖												
	27845*	❖												
	28845*	❖												
	22105	❖												
	C5505*	❖												
8	27086A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	1811A	❖												
	27269*	❖												
	28269*	❖												
	27846*	❖												
	28846*	❖												
	22106	❖												
	C5506*	❖												
9	7439A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27087A	❖												
	27535*	❖												
	28535*	❖												
	22107	❖												
10	27088A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27249*	❖												
	28249*	❖												
	27847*	❖												
	28847*	❖												
	22108	❖												
	C5508*	❖												
11	27089A	❖	—	—	—	—	—	—	—	—	—	—	—	
12	B8629	3.31	—	—	—	—	—	—	—	—	—	—	—	—
	7440A	❖												
	27090A	❖												
	27250*	❖												
	28250*	❖												
	27848*	❖												
	28848*	❖												
	22110	❖												
	C5510*	❖												
13	27091A	❖	—	—	—	—	—	—	—	—	—	—	—	—
14	27092A	❖	—	—	—	—	—	—	—	—	—	—	—	—
15	27093A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27251*	❖												
	28251*	❖												
	27849*	❖												
	28849*	❖												
	C5513*	❖												

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	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
14 AWG *(continued)*														
16	27094A 22114	❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
17	27095A	❖	—	—	—	—	—	—	—	—	—	—	—	—
18	27096A	❖	—	—	—	—	—	—	—	—	—	—	—	—
19	27097A 27969* 28969*	❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
20	27098A 27252* 28252* 27850* 28850* 22118 C5518*	❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
21	27099A	❖	—	—	—	—	—	—	—	—	—	—	—	—
22	27100A	❖	—	—	—	—	—	—	—	—	—	—	—	—
23	27101A	❖	—	—	—	—	—	—	—	—	—	—	—	—
24	27102A	❖	—	—	—	—	—	—	—	—	—	—	—	—
12 AWG														
2	B8673 9582▼ 27109A 27641A 9718 1860A B8477 27254* 28254* 27853* 28853* 22120 C5530* C5730* 9412 9489 1311A	3.32 ❖ ❖ ❖ ❖ ❖ 3.49 ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	9583▼ B8718 9312 9344 3103A	❖ 3.54 ❖ ❖ ❖	B83802	3.45	—	—	—	—
3	7444A 27110A 27255* 28255* 27854* 28854* 22121 C5531* C5731*	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	3102A† 3104A†	❖ ❖	B83803	3.45	—	—	—	—
4	7145A 7445A 27111A 27256* 28256* 27855* 28855* 22122 C5532* C5732* 1312A	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—	7445AS	❖	—	—	B83804 29502	3.45 ❖	—	—	—	—

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◗ Quad
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No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
12 AWG *(continued)*														
5	27112A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27271*	❖												
	28271*	❖												
	27856*	❖												
	28856*	❖												
	22123	❖												
	C5533*	❖												
6	27113A	❖	—	—	—	—	—	—	B83806	3.45	—	—	—	—
	27272*	❖												
	28272*	❖												
	27857*	❖												
	28857*	❖												
	22124	❖												
	C5534*	❖												
7	27114A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27273*	❖												
	28273*	❖												
	27858*	❖												
	28858*	❖												
	22125	❖												
	C5535*	❖												
8	27115A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27274*	❖												
	28274*	❖												
	27859*	❖												
	28859*	❖												
	22126	❖												
	C5536*	❖												
9	27116A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27538*	❖												
	28538*	❖												
	22127	❖												
10	27117A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27275*	❖												
	28275*	❖												
	27860*	❖												
	28860*	❖												
	22128	❖												
	C5538*	❖												
11	27118A	❖	—	—	—	—	—	—	—	—	—	—	—	—
12	27119A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27276*	❖												
	28276*	❖												
	27861*	❖												
	28861*	❖												
	22130	❖												
	C5540*	❖												
13	27120A	❖	—	—	—	—	—	—	—	—	—	—	—	—
14	27121A	❖	—	—	—	—	—	—	—	—	—	—	—	—
15	27122A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27277*	❖												
	28277*	❖												
	27862*	❖												
	28862*	❖												
	C5543*	❖												
16	27123A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	22134	❖												
17	27124A	❖	—	—	—	—	—	—	—	—	—	—	—	—
18	27125A	❖	—	—	—	—	—	—	—	—	—	—	—	—

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No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
12 AWG *(continued)*														
19	27126A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27539*	❖												
	28539*	❖												
20	27127A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27278*	❖												
	28278*	❖												
	27863*	❖												
	28863*	❖												
	22138	❖												
	C5548*	❖												
21	27128A	❖	—	—	—	—	—	—	—	—	—	—	—	—
22	27129A	❖	—	—	—	—	—	—	—	—	—	—	—	—
23	27130A	❖	—	—	—	—	—	—	—	—	—	—	—	—
24	27131A	❖	—	—	—	—	—	—	—	—	—	—	—	—
10 AWG														
2	B8678	3.32	—	—	—	—	—	—	—	—	—	—	—	—
	27138A	❖												
	27643A	❖												
	27257*	❖												
	28257*	❖												
	27866*	❖												
	28866*	❖												
	22140	❖												
	C5560*	❖												
	C5760*	❖												
	1313A	❖												
3	27139A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27258*	❖												
	28258*	❖												
	27867*	❖												
	28867*	❖												
	22141	❖												
	C5561*	❖												
	C5761*	❖												
4	7447A	❖	—	—	7447AS	❖	—	—	29503	❖	—	—	—	—
	27140A	❖												
	27259*	❖												
	28259*	❖												
	27868*	❖												
	28868*	❖												
	22142	❖												
	C5562*	❖												
	C5762*	❖												
5	27141A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27281*	❖												
	28281*	❖												
	27869*	❖												
	28869*	❖												
	22143	❖												
	C5563*	❖												
6	27142A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27282*	❖												
	28282*	❖												
	27870*	❖												
	28870*	❖												
	22144	❖												
	C5564*	❖												

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No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
10 AWG *(continued)*														
7	27143A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27283*	❖												
	28283*	❖												
	27877*	❖												
	28877*	❖												
	22145	❖												
	C5565*	❖												
8	27144A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27284*	❖												
	28284*	❖												
	27878*	❖												
	28878*	❖												
	22146	❖												
	C5566*	❖												
9	27145A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27541*	❖												
	28541*	❖												
	22147	❖												
10	27146A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27285*	❖												
	28285*	❖												
	27879*	❖												
	28879*	❖												
	22148	❖												
	C5568*	❖												
11	27147A	❖	—	—	—	—	—	—	—	—	—	—	—	—
12	27148A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27286*	❖												
	28286*	❖												
	27880*	❖												
	28880*	❖												
	22150	❖												
	C5570*	❖												
14	22152	❖	—	—	—	—	—	—	—	—	—	—	—	—
15	27287*	❖	—	—	—	—	—	—	—	—	—	—	—	—
	28287*	❖												
	27881*	❖												
	28881*	❖												
	C5573*	❖												
16	22154	❖	—	—	—	—	—	—	—	—	—	—	—	—
20	27288*	❖	—	—	—	—	—	—	—	—	—	—	—	—
	28288*	❖												
	27882*	❖												
	28882*	❖												
	C5578*	❖												

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◗ Quad
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No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
8 AWG														
2	27149A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27291*	❖												
	28291*	❖												
	27871*	❖												
	28871*	❖												
	22160	❖												
	C5583*	❖												
3	27150A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27260*	❖												
	28260*	❖												
	27872*	❖												
	28872*	❖												
	22161	❖												
	C5581*	❖												
4	7450A	❖	—	—	7450AS	❖	—	—	29504	❖	—	—	—	—
	27151A	❖												
	27261*	❖												
	28261*	❖												
	27873*	❖												
	28873*	❖												
	22162	❖												
	C5582*	❖												
6 AWG														
2	27152A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27293*	❖												
	28293*	❖												
	27874*	❖												
	28874*	❖												
	22170	❖												
	C5590*	❖												
3	27153A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27262*	❖												
	28262*	❖												
	27875*	❖												
	28875*	❖												
	22171	❖												
	C5591*	❖												
4	7453A	❖	—	—	—	—	—	—	29505	❖	—	—	—	—
	27154A	❖												
	27263*	❖												
	28263*	❖												
	27876*	❖												
	28876*	❖												
	C5592*	❖												

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No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
4 AWG														
2	27155A 22180	❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
3	27156A 27264* 28264* 27894* 28894* 22181 C5601*	❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
4	27157A 27265* 28265* 27895* 28895* C5602*	❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	—	—	29506	❖	—	—	—	—
3 AWG														
3	27896* 28896* C5611*	❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
2 AWG														
2	27158A	❖	—	—	—	—	—	—	—	—	—	—	—	—
3	27159A 27267* 28267* 27888* 28888* C5621*	❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
4	27160A 27268* 28268* 27889* 28889* C5622*	❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	—	—	29507	❖	—	—	—	—
1 AWG														
3	27161A C5625*	❖ ❖	29528	❖	—	—	—	—	—	—	—	—	—	—
1/0 AWG														
3	C5627*	❖	29529	❖	—	—	—	—	—	—	—	—	—	—
2/0 AWG														
3	—	—	29530	❖	—	—	—	—	—	—	—	—	—	—
3/0 AWG														
3	6163	❖	29531	❖	—	—	—	—	—	—	—	—	—	—
4/0 AWG														
3	—	—	29532	❖	—	—	—	—	—	—	—	—	—	—

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No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
25 AWG and smaller														
25	—	—	—	—	—	—	8142F0	❖	9637 B8142	❖ 3.57	—	—	—	—
26	—	—	—	—	—	—	—	—	B9813	3.55	—	—	—	—
32	—	—	—	—	—	—	—	—	—	—	7893A■	❖	7886A◗	❖
36	—	—	—	—	—	—	8148F0	❖	B8148 B9819	3.57 3.55	—	—	—	—
48	—	—	—	—	—	—	—	—	—	—	—	—	7887A◗	❖
50	—	—	—	—	—	—	8155F0	❖	B9825 B8155 1401A	3.55 3.57 ❖	—	—	—	—
62	—	—	—	—	—	—	—	—	B9814	3.55	—	—	—	—
64	—	—	—	—	—	—	—	—	—	—	—	—	7888A◗	❖
68	—	—	—	—	—	—	—	—	1403A	❖	—	—	—	—
96	—	—	—	—	—	—	—	—	—	—	—	—	7889A◗	❖
24 AWG														
25	—	—	—	—	—	—	B9543 B9684 B1424A 82512 B88112	3.34 3.51 3.51 ❖ 3.67	B9617 B9937 B8342 B8112	3.38 3.38 3.58 3.56	—	—	—	—
30	—	—	—	—	—	—	B9544 B9515 B1425A	3.34 3.50 3.51	8345 8115	❖ ❖	B9735 B8175■	3.59 3.62	—	—
32	—	—	—	—	—	—	—	—	—	—	1412R■ 1514C■ 1850F■	❖ ❖ ❖	1916A	❖
34	—	—	—	—	—	—	—	—	—	—	B9736	3.59	—	—
36	—	—	—	—	—	—	—	—	B8348 B9837 B8118	3.58 3.56 3.56	B8178■ B89758	3.62 3.70	—	—
37	—	—	—	—	—	—	B88118	3.67	B9618 B9938	3.38 3.38	—	—	—	—
38	—	—	—	—	—	—	B9519	3.50	—	—	B9737	3.59	—	—
40	—	—	—	—	—	—	B9545	3.34	—	—	1413R■ 1515C■	❖ ❖	—	—
48	1700S6 1701S6	❖ ❖	—	—	—	—	—	—	—	—	1414R■ 1516C■ 1852F■	❖ ❖ ❖	1924A	❖
50	9585▼ 1864A▼ 1871A▼ 1232A1▼ 22713010 24501858 24571221 24572XXX 24576XXX 24577XXX 25500XXX	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	B9546 B9525 B88125	3.34 3.50 3.67	B9619 B8355 9838 B8125	3.38 3.58 ❖ 3.56	B9995 B8185■	3.59 3.62	—	—
52	—	—	—	—	—	—	—	—	—	—	1415R■ 1517C■	❖ ❖	—	—
54	—	—	—	—	—	—	—	—	—	—	B9738	3.59	—	—
64	—	—	—	—	—	—	—	—	—	—	1416R■ 1518C■ 1854F■	❖ ❖ ❖	1932A	❖

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No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
24 AWG *(continued)*														
100	—	—	—	—	—	—	9550	❖	—	—	—	—	—	—
104	—	—	—	—	—	—	—	—	—	—	1519C■	❖	—	—
100	24501877 24571235 22713020	❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
150	24501887	❖	—	—	—	—	—	—	—	—	—	—	—	—
200	24501897 24571250 22713030	❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
210	22713035	❖	—	—	—	—	—	—	—	—	—	—	—	—
400	24501906 24571265 22713040	❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
500	22713045	❖	—	—	—	—	—	—	—	—	—	—	—	—
600	24571266 22713050	❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
800	22713060	❖	—	—	—	—	—	—	—	—	—	—	—	—
1200	22713070	❖	—	—	—	—	—	—	—	—	—	—	—	—
1800	22713080	❖	—	—	—	—	—	—	—	—	—	—	—	—
2400	22713090	❖	—	—	—	—	—	—	—	—	—	—	—	—
22 AWG														
25	B8459	3.30	—	—	—	—	—	—	9948 B8312	❖ 3.58	—	—	—	—
30	B9432 B8749	3.30 3.47	—	—	—	—	B9315▼ 9524	3.52 ❖	B8315	3.58	B8766▼ B8776	360 3.61	—	—
32	—	—	—	—	—	—	3010A	❖	—	—	3011A■ 1819R■ 1222B	❖ ❖ ❖	—	—
34	—	—	—	—	—	—	—	—	—	—	B9769	3.61	—	—
36	—	—	—	—	—	—	9772†	❖	B8318	3.58	—	—	—	—
37	—	—	—	—	—	—	—	—	9949	❖	—	—	—	—
38	9748	❖	—	—	—	—	B9319▼ 9526	3.52 ❖	—	—	B8769 9335	3.61 ❖	—	—
40	B9433	3.30	—	—	—	—	—	—	—	—	1820R■ 1225B	❖ ❖	—	—
48	—	—	—	—	—	—	3012A	❖	—	—	3013A■ 1821R■ 1427B	❖ ❖ ❖	—	—
50	B9434	3.30	—	—	—	—	—	—	9950 B8325	❖ 3.58	—	—	—	—
52	—	—	—	—	—	—	—	—	—	—	1822R■	❖	—	—
54	B8750	3.47	—	—	—	—	B9327▼ 9527	3.52 ❖	—	—	B8773	3.61	—	—
56	—	—	—	—	—	—	—	—	—	—	1221B	❖	—	—
64	—	—	—	—	—	—	—	—	—	—	1823R■ 1226B	❖ ❖	—	—
74	—	—	—	—	—	—	—	—	—	—	B9767	3.61	—	—
76	—	—	—	—	—	—	8752▼	❖	—	—	—	—	—	—
100	—	—	—	—	—	—	3014A	❖	—	—	3015A■	❖	—	—
102	—	—	—	—	—	—	8751▼	❖	—	—	—	—	—	—
104	—	—	—	—	—	—	—	—	—	—	1428B	❖	—	—

▼Solid conductors
◆Siamese version
* Armored
● Duofoil® shield
■ Individually shielded pairs or triads, plus overall foil, overall braid or overall foil and braid.
† Triad
◗ Quad
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Multiconductor and Paired Cable

25 or More Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
20 AWG														
25	7108A 7408A	❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
30	B9755	3.48	—	—	—	—	—	—	—	—	B9879	3.61	—	—
32	—	—	—	—	—	—	1059A	❖	—	—	1079A■ 22643■ 23532*■ 26536*■	❖ ❖ ❖ ❖	—	—
36	—	—	—	—	—	—	3022A†	❖	—	—	1085A†■ 23571*†■ 26553*†■	❖ ❖ ❖	—	—
40	—	—	—	—	—	—	—	—	—	—	1091A■	❖	—	—
48	—	—	—	—	—	—	3023A† 1060A	❖ ❖	—	—	1092A†■ 22673†■ 23549*†■ 26543*†■ 1080A■ 22647■ 23506*■ 26537*■	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—
60	—	—	—	—	—	—	—	—	—	—	1086A†■	❖	—	—
72	—	—	—	—	—	—	3024A† 1061A	❖ ❖	—	—	3067A†■ 22674†■ 23550*†■ 26544*†■ 1081A■ 22670■ 23544*■ 26538*■	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—
100	—	—	—	—	—	—	1062A	❖	—	—	1082A■ 23575*■ 26546*■	❖ ❖ ❖	—	—
18 AWG														
25	B9626 7117A 7417A 27611A 29053*	3.30 ❖ ❖ ❖ ❖	—	—	7417AS	❖	—	—	—	—	—	—	—	—
30	27612A 29058* B9742	❖ ❖ 3.48	—	—	—	—	9565	❖	—	—	B9777 9392	3.61 ❖	—	—
32	—	—	—	—	—	—	3034A 1067A	❖ ❖	—	—	3035A■ 1052A■ 22654■ 23519*■ 26520*■	❖ ❖ ❖ ❖ ❖	—	—
34	7418A	❖	—	—	—	—	—	—	—	—	—	—	—	—
36	—	—	—	—	—	—	—	—	—	—	3068A†■ 1095A†■ 23512*†■ 26527*†■	❖ ❖ ❖ ❖	—	—
37	27613A	❖	—	—	—	—	—	—	—	—	—	—	—	—
38	B9743	3.48	—	—	—	—	—	—	—	—	—	—	—	—

▼ Solid conductors
◆ Siamese version
* Armored
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† Triad
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25 or More Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
18 AWG *(continued)*														
40	29068*	❖	—	—	—	—	—	—	—	—	—	—	—	—
41	7419A	❖	—	—	—	—	—	—	—	—	—	—	—	—
48	—	—	—	—	—	—	3036A† 1471A 1068A	❖ ❖ ❖	—	—	3037A†■ 3066A†■ 22681†■ 22683†■ 23537*†■ 26528*†■ 1480A■ 1053A■ 22637■ 23542*■ 26521*■ 22419■ 24520*■ 25517*■	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—
50	27614A 29078*	❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
60	27632A	❖	—	—	—	—	—	—	—	—	—	—	—	—
72	—	—	—	—	—	—	3038A† 1472A 1087A	❖ ❖ ❖	—	—	3039A†■ 1096A†■ 22682†■ 22684†■ 23536*†■ 26529*†■ 1481A■ 1054A■ 23554*■ 26555*■	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—
100	—	—	—	—	—	—	3041A 1088A	❖ ❖	—	—	3042A■ 1038A■	❖ ❖	—	—
16 AWG														
25	B9622 7129A 29024* 7429A	3.31 ❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
30	27626A 29008*	❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
32	—	—	—	—	—	—	3050A 1073A	❖ ❖	—	—	3051A■ 1043A■ 22685■ 23539*■ 26507*■	❖ ❖ ❖ ❖ ❖	—	—
34	7430A	❖	—	—	—	—	—	—	—	—	—	—	—	—
36	—	—	—	—	—	—	—	—	—	—	3069A†■ 1099A†■ 22690†■ 23541*†■ 26513*†■	❖ ❖ ❖ ❖ ❖	—	—
37	27627A	❖	—	—	—	—	—	—	—	—	—	—	—	—
40	29009*	❖	—	—	—	—	—	—	—	—	1044A■	❖	—	—

▼Solid conductors
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* Armored
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† Triad
◗ Quad
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25 or More Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
16 AWG *(continued)*														
48	—	—	—	—	—	—	3052A† 1489A 1074A	❖ ❖ ❖	—	—	3053A†■ 3118A†■ 23567*†■ 26545*†■ 1498A■ 1045A■ 22686■ 23538*■ 26508*■ 22447■ 24510*■ 25519*■	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—
50	27628A 29016*	❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
60	27633A 29025*	❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
72	—	—	—	—	—	—	3054A† 1490A 1089A	❖ ❖ ❖	—	—	3055A†■ 1100A†■ 23578*†■ 26547*†■ 1499A■ 1046A■ 23568*■ 26551*■	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—
100	—	—	—	—	—	—	3056A 1090A	❖ ❖	—	—	3057A■ 1047A■	❖ ❖	—	—
108	—	—	—	—	—	—	—	—	—	—	3130A†■	❖	—	—
14 AWG														
25	7442A 27103A 27270* 28270* 27851* 28851* C5503* C5523	❖ ❖ ❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
26	27104A	❖	—	—	—	—	—	—	—	—	—	—	—	—
27	27105A	❖	—	—	—	—	—	—	—	—	—	—	—	—
28	27106A	❖	—	—	—	—	—	—	—	—	—	—	—	—
29	27107A	❖	—	—	—	—	—	—	—	—	—	—	—	—
30	27108A 27253* 28253* 27852* 28852* C5528*	❖ ❖ ❖ ❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—
37	27629A 27292* 28292*	❖ ❖ ❖	—	—	—	—	—	—	—	—	—	—	—	—

▼Solid conductors
◆Siamese version
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25 or More Conductors

No. of Conductors	Unshielded		Spiral Shield		Braid Shield		Overall Beldfoil®		Overall Foil/Braid		Individual Beldfoil		Individual Braid	
	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page	Part No.	Page
14 AWG *(continued)*														
40	27433*	❖	—	—	—	—	—	—	—	—	—	—	—	—
	28433*	❖												
	27885*	❖												
	28885*	❖												
	C5529*	❖												
50	27912A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27434*	❖												
	28434*	❖												
	27886*	❖												
	28886*	❖												
	C6064*	❖												
12 AWG														
25	27132A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27279*	❖												
	28279*	❖												
	27864*	❖												
	28864*	❖												
	C5553*	❖												
26	27133A	❖	—	—	—	—	—	—	—	—	—	—	—	—
27	27134A	❖	—	—	—	—	—	—	—	—	—	—	—	—
28	27135A	❖	—	—	—	—	—	—	—	—	—	—	—	—
29	27136A	❖	—	—	—	—	—	—	—	—	—	—	—	—
30	27137A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27280*	❖												
	28280*	❖												
	27865*	❖												
	28865*	❖												
	C5558*	❖												
37	27630A	❖	—	—	—	—	—	—	—	—	—	—	—	—
	27540*	❖												
	28540*	❖												
40	27432*	❖	—	—	—	—	—	—	—	—	—	—	—	—
	28432*	❖												
	27887*	❖												
	28887*	❖												
50	27634A	❖	—	—	—	—	—	—	—	—	—	—	—	—
10 AWG														
25	27289*	❖	—	—	—	—	—	—	—	—	—	—	—	—
	28289*	❖												
	27883*	❖												
	28883*	❖												
	C5579*	❖												
30	27290*	❖	—	—	—	—	—	—	—	—	—	—	—	—
	28290*	❖												
	27884*	❖												
	28884*	❖												
	C5580*	❖												

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† Triad
◗ Quad
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Multiconductor and Paired Cable

Combination Gages (Unshielded, Shielded and Partially Shielded)

No. of Conductors	Part No.	Conductor/Gage Description	Shielding	Page
Combination Gages				
4	3084A	1pr — 24 AWG 1pr — 22 AWG	Beldfoil® each pair plus braid overall	❖
	3084F	1pr — 24 AWG 1pr — 22 AWG	Beldfoil each pair plus braid overall	❖
	3085A	1pr — 24 AWG 1pr — 22 AWG	Beldfoil each pair plus braid overall	❖
	7895A	1pr — 20 AWG 1pr — 18 AWG	Beldfoil each pair plus braid overall	❖
	7900A	1pr — 18 AWG 1pr — 16 AWG	Unshielded	❖
	7896A	1pr — 18 AWG 1pr — 16 AWG	Beldfoil each pair plus braid overall	❖
	7897A	1pr — 18 AWG 1pr — 15 AWG	Beldfoil each pair plus braid overall	❖
	3082A	1pr — 18 AWG 1pr — 15 AWG	Beldfoil each pair plus braid overall	❖
	3083A	1pr — 18 AWG 1pr — 15 AWG	Beldfoil each pair plus braid overall	❖
	3082F	1pr — 18 AWG 1pr — 15 AWG	Beldfoil each pair plus braid overall	❖
	3086A	1pr — 20 AWG 1pr — 16 AWG	Individual Beldfoil each pair	❖
	3124A	2c — 22 AWG 2c — 18 AWG	Overall Beldfoil	❖
	3125A	2c — 22 AWG 2c — 16 AWG	Overall Beldfoil	❖
	1502P	1pr — 22 AWG 2c — 18 AWG	Beldfoil Unshielded	❖
	1502R	1pr — 22 AWG 2c — 18 AWG	Beldfoil Unshielded	❖
	B9155	1pr — 20 AWG 1pr — 18 AWG	Beldfoil Unshielded	3.64
6	B8446	4c — 22 AWG 2c — 18 AWG	Unshielded	3.31
	9686	3c — 20 AWG 3c — 16 AWG	Unshielded	❖
	B8786	4c — 24 AWG 2c — 22 AWG	Beldfoil over 4c, Unshielded	3.39
	3126A	2c — 22 AWG 2c — 16 AWG 2c — 12 AWG	Overall Beldfoil	❖
	27428*	3c — 14 AWG 3c — 12 AWG	Unshielded	❖
	28428*	3c — 14 AWG 3c — 12 AWG	Unshielded	❖
	27429*	3c — 14 AWG 3c — 10 AWG	Unshielded	❖
	28429*	3c — 14 AWG 3c — 10 AWG	Unshielded	❖
	27430*	3c — 14 AWG 3c — 8 AWG	Unshielded	❖
	28430*	3c — 14 AWG 3c — 8 AWG	Unshielded	❖
	27431*	3c — 14 AWG 3c — 6 AWG	Unshielded	❖

No. of Conductors	Part No.	Conductor/Gage Description	Shielding	Page
Combination Gages				
6 (cont'd)	28431*	3c — 14 AWG 3c — 6 AWG	Unshielded	❖
	27890*	3c — 14 AWG 3c — 12 AWG	Unshielded	❖
	28890*	3c — 14 AWG 3c — 12 AWG	Unshielded	❖
	27891*	3c — 14 AWG 3c — 10 AWG	Unshielded	❖
	28891*	3c — 14 AWG 3c — 10 AWG	Unshielded	❖
	27892*	3c — 14 AWG 3c — 8 AWG	Unshielded	❖
	28892*	3c — 14 AWG 3c — 8 AWG	Unshielded	❖
	27893*	3c — 14 AWG 3c — 6 AWG	Unshielded	❖
	28893*	3c — 14 AWG 3c — 6 AWG	Unshielded	❖
	6054*	3c — 14 AWG 3c — 12 AWG	Unshielded	❖
	6051*	3c — 14 AWG 3c — 10 AWG	Unshielded	❖
	6059*	3c — 14 AWG 3c — 8 AWG	Unshielded	❖
	6060*	3c — 14 AWG 3c — 6 AWG	Unshielded	❖
8	9405	6c — 18 AWG 2c — 16 AWG	Unshielded	❖
	B8448	6c — 22 AWG 2c — 18 AWG	Unshielded	3.32
	9903●	3pr — 28 AWG 1pr — 24 AWG	Individual Beldfoil plus braid	❖
	9891●	3pr — 22 AWG 1pr — 20 AWG	Individual Beldfoil plus braid	❖
9	3119A●	3pr — 24 AWG 3c — 18 AWG	Overall Beldfoil plus braid	❖
10	8787	4c — 24 AWG 4c — 24 AWG 2c — 22 AWG	Red or Green Beldfoil over (2) Quads, Unshielded	❖
12	7949A	4pr — 24 AWG▼ 4c — 16 AWG	Unshielded	❖
	7950A	4pr — 24 AWG▼ 4c — 16 AWG	Unshielded	❖
	7951A	4pr — 24 AWG▼ 4c — 18 AWG	Unshielded	❖
	7952A	4pr — 24 AWG▼ 4c — 14 AWG	Unshielded	❖
23	9641	6pr — 26 AWG 10c — 26 AWG 1c — 24 AWG	Overall foil plus braid	❖

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Multiconductor and Paired Cable

Partially Shielded Cables (Combination Unshielded and Shielded Conductors)

No. of Conductors	Part No.	Conductor/Gage Description	Shielding	Page
25 AWG				
4	B8434	1pr — 25 AWG	Beldfoil®	3.62
		1pr — 25 AWG	Unshielded plus overall foil shield	
22 AWG				
3	B8734	1c — 22 AWG	Braid	3.36
		2c — 22 AWG	Unshielded	
	9685	1pr — 22 AWG	Beldfoil	❖
		1c — 22 AWG	Unshielded	
4	8732	1pr — 22 AWG	Braid	❖
		1pr — 22 AWG	Unshielded	
	8730	1pr — 22 AWG	Beldfoil	❖
		1pr — 22 AWG	Unshielded	
	8724	1pr — 22 AWG	Beldfoil	❖
		1pr — 22 AWG	Unshielded	
5	8788	3c — 22 AWG	Individual Beldfoil	❖
		2c — 22 AWG	Unshielded	
12	9689	2pr — 22 AWG	Individual Beldfoil plus overall braid	❖
		4pr — 22 AWG	Unshielded	
	82689	2pr — 22 AWG	Individual Beldfoil plus overall braid	❖
		4pr — 22 AWG	Unshielded	
20 AWG				
3	B8763	1pr — 20 AWG	Beldfoil	3.63
		1c — 20 AWG	Unshielded	
4	B8722	1pr — 20 AWG	Beldfoil	3.63
		1pr — 20 AWG	Unshielded	

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† Triad
◗ Quad
❖ For information on this part number, please call us at 1.877.ANIXTER

Multiconductor Nonplenum Unshielded

150 V Audio, Control and Instrumentation Cables

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG stranded (7x30) tinned copper, conductors cabled
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. STANDARDS: UL AWM Style 2576, NEC: CMG
5. RATINGS: 150 V, 80°C

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8443	3	Black, Red, Green	18	0.010	0.032	0.172
B8444	4	See Chart 1	23	0.010	0.032	0.185
B8445	5	See Chart 1	26	0.010	0.032	0.194
B9430	7	See Chart 1	34	0.010	0.032	0.214
B9421	8	See Chart 1	38	0.010	0.032	0.229
B9423	9	See Chart 1	43	0.010	0.032	0.244
B8456	10	See Chart 1	46	0.010	0.032	0.264
B8457	12	See Chart 1	52	0.010	0.032	0.272
B8458	15	See Chart 1	72	0.010	0.040	0.315
B9431	20	See Chart 2R	87	0.010	0.040	0.345
B8459	25	See Chart 2R	109	0.010	0.040	0.387
B9432	30	See Chart 2R	124	0.010	0.040	0.400
B9433	40	See Chart 2R	161	0.010	0.040	0.455
B9434	50	See Chart 2R	206	0.010	0.045	0.500

300 V Audio, Control and Instrumentation Cables

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, conductors cabled
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. STANDARDS: UL AWM, NEC: CMG
5. RATINGS: 300 V

22 AWG (7X30) 60°C

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8442	2	Black, Red	15	0.015	0.025	0.170

20 AWG (7X28) AWM STYLE 2464 80°C

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B9444	4	See Chart 1	33	0.013	0.032	0.217
B9445	5	See Chart 1	40	0.013	0.032	0.239
B9439	7	See Chart 1	53	0.013	0.032	0.260
B9455	9	See Chart 1	67	0.013	0.035	0.317
B9457	12	See Chart 1	88	0.013	0.035	0.338
B9458	15	See Chart 2R	118	0.013	0.040	0.389

18 AWG (19X30) AWM STYLE 2598 60°C

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8489	4	See Chart 1	48	0.017	0.032	0.257
B8465	5	See Chart 1	60	0.017	0.033	0.282
B8467	7	See Chart 1	79	0.017	0.037	0.314
B8469	9	See Chart 1	105	0.017	0.037	0.364
B8466	12	See Chart 1	131	0.017	0.040	0.412
B8468	15	See Chart 2R	175	0.017	0.045	0.500
B8619	19	See Chart 2R	198	0.017	0.045	0.490
B9626	25	See Chart 2R	277	0.017	0.060	0.612

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

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Multiconductor Nonplenum Unshielded

600 V Audio, Control and Instrumentation Cables

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, conductors cabled
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. STANDARDS: C(UL), FT4, VW-1
5. RATINGS: 600 V, 80°C

16 AWG (19X29)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8620	4	See Chart 2R	88	0.031	0.042	0.376
B9620	5	See Chart 2	109	0.031	0.042	0.411
B8621	7	See Chart 2R	143	0.031	0.045	0.458
B9721	8	See Chart 2R	269	0.031	0.045	0.496
B9621	9	See Chart 2R	181	0.031	0.045	0.533
B8622	12	See Chart 2R	251	0.031	0.060	0.627
B8623	15	See Chart 2R	314	0.031	0.060	0.694
B8624	19	See Chart 2R	361	0.031	0.065	0.740
B9622	25	See Chart 2R	480	0.031	0.065	0.879

14 AWG (19X27)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8627	4	See Chart 2	149	0.045	0.045	0.490
B9623	5	See Chart 2	197	0.045	0.060	0.573
B8628	7	See Chart 2	255	0.045	0.060	0.623
B8629	12	See Chart 2	454	0.045	0.065	0.824

22 and 18 AWG Audio, Control and Instrumentation Cable

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 and 18 AWG stranded (7x30 & 16x30) tinned copper, conductors cabled
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. STANDARDS: UL AWM Style 2576, NEC: CMG
5. RATINGS: 150 V rms, 80°C

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8446	6: 4 Unshld 22 (7x30)/ 2 Unshld 18 (16x30)	Red, Green, Brown, Blue, Black, White	43	0.010/0.019	0.032	0.236	30

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

Multiconductor Nonplenum Unshielded

150 V Antenna Rotor Cable

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 2x18 AWG and 6x22 AWG stranded (16x30 and 7x30) tinned copper, conductors cabled
2. INSULATION: PVC
3. COLOR CODE: 18 AWG - Black, White; 16 AWG - Red, Green, Brown, Blue, Yellow, Orange
4. JACKET: Chrome PVC
5. STANDARDS: UL AWM Style 2464, VW-1, NEC: CMG
6. RATINGS: 80°C, 150 V

Anixter No.	No. of Conductors	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8448	8	50	0.019/0.010	0.032	0.259

Duplex Primary Wire

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded bare copper, conductors parallel
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. STANDARDS: VW-1
5. RATINGS: 300 V, 75°C

16 AWG (19X29)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8677	2	Brown, Red	37	0.024	0.022	0.149 x 0.254

14 AWG (19X27)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8675	2	Brown, Red	47	0.023	0.023	0.168 x 0.290

12 AWG (19X25)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8673	2	Brown, Red	65	0.026	0.022	0.186 x 0.328

10 AWG (19X23)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8678	2	Brown, Red	102	0.031	0.025	0.225 x 0.400

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

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Multiconductor Nonplenum Unshielded

High-temperature Cables

BELDEN

SPECIFICATIONS

1. CONDUCTOR: Stranded tinned copper, conductors cabled
2. INSULATION: ETFE
3. JACKET: Clear ETFE
4. STANDARDS: VW-1
5. RATINGS: 300 V rms, 150°C

20 AWG (7X28)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B85220	2	Black, Red	23	0.015	0.020	0.185

16 AWG (19X29)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B85221	2	Black, Red	34	0.015	0.019	0.211
B85102	2	See Chart 2	32	0.015	0.019	0.211
B85103	3	See Chart 2	43	0.015	0.019	0.223
B85109	9	See Chart 2	119	0.015	0.024	0.354

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

Multiconductor Nonplenum Shielded

Overall Beldfoil Shield for EIA RS-232 Applications

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper
2. INSULATION: Semi-rigid PVC
3. SHIELDING: Overall Beldfoil (100%)
4. JACKET: Chrome PVC
5. STANDARDS: UL AWM Style 2464, NEC: CMG
6. RATINGS: 300 V, 80°C

24 AWG (7X32)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9533	3	See Chart 1	18	0.010	0.032	0.162	33
B9534	4	See Chart 1	22	0.010	0.032	0.184	33
B9535	5	See Chart 1	22	0.010	0.032	0.189	33
B9536	6	See Chart 1	29	0.010	0.032	0.209	33
B9537	7	See Chart 1	30	0.010	0.032	0.209	33
B9538	8	See Chart 1	34	0.010	0.032	0.224	33
B9539	9	See Chart 1	38	0.010	0.032	0.244	30
B9540	10	See Chart 1	36	0.010	0.032	0.244	30
B9541	15	See Chart 2R	56	0.010	0.032	0.284	30
B9542	20	See Chart 2R	69	0.010	0.032	0.314	30
B9543	25	See Chart 2R	86	0.010	0.032	0.339	30
B9544	30	See Chart 2R	102	0.010	0.040	0.380	30
B9545	40	See Chart 2R	130	0.010	0.040	0.430	30
B9546	50	See Chart 2R	168	0.010	0.045	0.490	30

18 AWG (19X30)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9418	4	Red, Green, Black, White	52	0.010	0.035	0.245	70

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

Request the latest literature and guides from Anixter.
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Multiconductor Nonplenum Shielded

Overall Beldfoil Shield - PE Insulation, PVC Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, conductors cabled
2. INSULATION: Polyethylene
3. JACKET: Chrome PVC
4. SHIELDING: Overall Beldfoil (100%)
5. STANDARDS: UL AWM Style 2093 (22-18 AWG), 2107 (16 AWG), NEC: CM
6. RATINGS: 300 V, 60°C

22 AWG (7X30)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8771	3	Black, Red, Clear	24	0.016	0.033	0.199	23

20 AWG (7X28)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8772	3	Black, Red, Clear	32	0.016	0.033	0.218	27

18 AWG (16X30)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8770	3	Black, Red, Clear	40	0.018	0.033	0.246	24

16 AWG (19X29)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8618	3	Black, Red, Clear	66	0.031	0.031	0.327	26

Overall Beldfoil Shield - PP Insulation, PVC Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG stranded tinned copper (7x30)
2. INSULATION: Polypropylene
3. JACKET: Brown PVC
4. SHIELDING: Overall Beldfoil shield (100%), 22 AWG stranded tinned copper drain
5. STANDARDS: NEC: CM
6. RATINGS: 300 V, 90°C

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9770	3	Black, Red, White	17	0.008	0.020	0.145	32

Overall Beldfoil Shield - Multiple Drain Wires

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG stranded (19x34) tinned copper, conductors cabled
2. INSULATION: Polyethylene
3. JACKET: White PVC
4. SHIELDING: Overall Beldfoil shield (100%), 23 AWG solid and 25 AWG stranded drain
5. STANDARDS: NEC: CM, CL3
6. RATINGS: 300 V, 75°C

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9720	4	Black, Red, Green, Clear	47	0.016	0.051	0.257	22

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

Multiconductor Nonplenum Shielded

70% Tinned Copper Braid Shield

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG stranded (7x30) tinned copper, conductors cabled
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. SHIELDING: Tinned copper braid (70%)
5. STANDARDS: UL AWM Style 2095, NEC: CMG
6. RATINGS: 300 V, 80°C

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8735	3	Black, Red, White	27	0.015	0.025	0.202	34

85% Tinned Copper Braid Shield

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 20 AWG stranded (7x28) tinned copper
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. SHIELDING: Tinned copper braid (85%)
5. STANDARDS: UL AWM Style 2464, NEC: CMG
6. RATINGS: 300 V, 80°C

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9260	6	See Chart 2	69	0.016	0.032	0.305	26
B9261	12	See Chart 2R	119	0.016	0.040	0.396	26

80% Tinned Copper Braid Shield Over One Conductor

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG stranded (7x30) tinned copper, conductors cabled
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. SHIELDING: Tinned copper braid (80%) over one conductor, other conductors unshielded
5. STANDARDS: UL AWM Style 2785, NEC: CM
6. RATINGS: 300 V, 80°C

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8734	3	Black, Red, White	21	0.015	0.025	0.194	79

Nominal capacitance measured conductor to conductor and shield.

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

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Multiconductor Nonplenum Shielded

Overall Tinned Copper Spiral Shield

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 18 AWG stranded (7x26) tinned copper, conductors cabled
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. SHIELDING: Tinned copper spiral wrap (80% coverage)
5. STANDARDS: VW-1
6. RATINGS: 450 V rms, 80°C

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8791	3	Black, Red, White	46	0.022	0.028	0.260	47

Overall Braid Shield - MIL-W-16878 (Type B) Conductors

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, conductors cabled
2. INSULATION: PVC/nylon
3. JACKET: White PVC
4. SHIELDING: Tinned copper braid shield (90%)
5. STANDARDS: VW-1. Type B now M16878/1 per MIL-DTL-16878G
6. RATINGS: 600 V, 105°C

22 AWG (19X34)

Single conductor capacitance measured conductor to shield, multiconductor measured between conductors.

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9965	1	White	10	0.010	0.010	0.100	100
B9966	2	White, Black	19	0.010	0.020	0.176	52
B9967	3	White, Black, Red	24	0.010	0.020	0.184	45
B9968	4	White, Black, Red, Green	29	0.010	0.020	0.200	42

20 AWG (19X32)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9961	1	White	9	0.011	0.010	0.109	103
B9962	2	White, Black	22	0.011	0.020	0.192	53
B9963	3	White, Black, Red	29	0.011	0.025	0.210	49
B9964	4	White, Black, Red, Green	39	0.011	0.025	0.226	40

16 AWG (19X29)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9951	1	White	20	0.012	0.016	0.143	138
B9952	2	White, Black	42	0.012	0.025	0.250	57
B9953	3	White, Black, Red	56	0.012	0.025	0.264	58
B9954	4	White, Black, Red, Green	73	0.012	0.027	0.291	49

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

Multiconductor Nonplenum Shielded

Overall Foil/Braid Shield for RS-232

BELDEN

SPECIFICATIONS

1. CONDUCTOR: 24 AWG stranded (7x32) tinned copper
2. SHIELDING: Overall Beldfoil (100%) plus tinned copper braid shield (65%)
3. INSULATION: Semi-rigid PVC
4. JACKET: Chrome PVC
5. STANDARDS: UL AWM Style 2464, NEC: CMG
6. RATINGS: 300 V, 80°C

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9608	3	See Chart 1	23	0.190	35
B9609	4	See Chart 1	26	0.200	35
B9610	5	See Chart 1	32	0.215	35
B9611	6	See Chart 1	34	0.225	30
B9612	7	See Chart 1	38	0.225	30
B9613	8	See Chart 1	41	0.240	30
B9614	9	See Chart 1	44	0.253	30
B9615	10	See Chart 1	50	0.270	30
B9616	15	See Chart 2R	63	0.300	30
B9617	25	See Chart 2R	100	0.370	30
B9618	37	See Chart 2R	135	0.411	30
B9619	50	See Chart 2R	182	0.485	30

Overall Foil/Braid Shield for RS-232 - Low Capacitance

BELDEN

SPECIFICATIONS

1. CONDUCTOR: 24 AWG stranded (7x32) tinned copper
2. INSULATION: Datalene
3. JACKET: Chrome PVC
4. SHIELDING: Overall Beldfoil (100%) plus tinned copper braid shield (65%), drain
5. STANDARDS: UL AWM Style 2919, NEC: CM
6. RATINGS: 30 V, 80°C

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)	Nom. Vel of Prop.	Nominal Capacitance (pF/ft.)
B9925	3	See Chart 1	24	0.215	78%	12
B9927	4	See Chart 1	32	0.230	78%	12
B9929	5	See Chart 1	36	0.246	78%	12
B9931	6	See Chart 1	39	0.265	78%	12
B9932	7	See Chart 1	41	0.265	78%	12
B9933	8	See Chart 1	46	0.280	78%	12
B9934	9	See Chart 1	48	0.300	78%	12
B9935	10	See Chart 1	53	0.306	78%	12
B9936	15	See Chart 2R	68	0.350	78%	12
B9937	25	See Chart 2R	108	0.445	78%	12
B9938	37	See Chart 2R	139	0.500	78%	12

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

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Multiconductor Nonplenum Shielded

4 Conductors Under Foil Plus 2 Conductors Unshielded

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. SHIELDING: (4) conductors cabled under 100% Beldfoil, (2) conductors unshielded, 22 AWG stranded tinned copper drain
5. STANDARDS: NEC CM
6. RATINGS: 300 V rms, 90°C

Anixter No.	No. of Conductors	Color Code	Insulation Thickness (in.)	Jacket Thickness (in.)	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B8786	2C+4C	Blue Quad, Blue, White	0.015	0.028	33	0.236

Overall Foil Shield - For Molex SEMMCONN and TE Connectivity - AMP SDL Connectors

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 26 AWG stranded (7x34) tinned copper conductors
2. INSULATION: PVC
3. JACKET: Black PVC
4. SHIELDING: Duofoil (100%), 26 AWG stranded tinned copper drain
5. STANDARDS: UL AWM Style 2464, VW-1, NEC: CL2X
6. RATINGS: 300 V, 80°C

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B1211A	4	White, Yellow, Orange, Green	23	0.015	0.036	0.195
B1212A	6	Red, Blue, Green, Orange, Yellow, White	30	0.015	0.037	0.220
B1213A	8	Black, Purple, Red, Blue, Green, Orange, Yellow, White	24	0.015	0.039	0.239
B1214A	16	White & Red, White & Brown, White & Black, Black, Red, Brown, Purple, Blue, Green, Gray, Aqua, Tan, Pink, Orange, White, Yellow	57	0.015	0.035	0.301

Overall Foil Shield Direct Burial Cables

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 20 AWG solid tinned copper, conductors cabled
2. INSULATION: Polypropylene
3. JACKET: Black HDPE
4. SHIELDING: Overall Beldfoil shield (100%), 22 AWG solid tinned copper drain
5. RATINGS: 350 V, 80°C

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9802	2	White, Black	18	0.013	0.035	0.190	32
B9803	3	White, Black, Red	23	0.013	0.035	0.205	23
B9890	10	See Chart 1	65	0.013	0.040	0.310	23
B9894	15	See Chart 2	96	0.013	0.045	0.390	23

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

Multiconductor Nonplenum Shielded

High Temperature - FEP Insulation, Silicone Rubber Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper
2. INSULATION: FEP
3. JACKET: Silicone rubber
4. SHIELDING: Special Beldfoil shield (100%) and noise reducing conductive nylon tape, stranded tinned copper drain wire
5. STANDARDS: UL AWM Style 4516 (150°C, 600 V), passes VW-1 flame test
6. RATINGS: -70°C to 150°C, jacket working voltage 2,000 V DC - shield to ground

22 AWG (7X30), RED JACKET - 22 AWG DRAIN WIRE

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83394	2	Black, White	26	0.015	0.030	0.199	22
B83395	3	Black, Red, White	28	0.015	0.031	0.208	22
B83396	4	Black, White, Red, Green	32	0.015	0.030	0.217	22

20 AWG (7X28), YELLOW JACKET - 20 AWG DRAIN WIRE

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83393	2	Black, Red	34	0.020	0.037	0.242	22

High Temperature - ETFE Insulation and Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper
2. INSULATION: ETFE
3. JACKET: Clear ETFE
4. SHIELDING: Overall Beldfoil shield (100%), drain wire
5. STANDARDS: VW-1
6. RATINGS: 300 V rms, 150°C

20 AWG (7X28)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B85230	2	Black, Red	29	0.015	0.020	0.182	31
B85240	3	Black, Red, Green	30	0.015	0.020	0.193	27

16 AWG (19X29)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B85231	2	Black, Red	38	0.020	0.020	0.210	44
B85241	3	Black, Red, Green	49	0.020	0.020	0.223	34

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

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Multiconductor Nonplenum Shielded

High Temperature - MIL-W-16878 (Type E) Conductors

BELDEN

SPECIFICATIONS

1. CONDUCTOR: Stranded silver-plated copper conductors, cabled and color coded
2. INSULATION: Extruded TFE
3. JACKET: White TFE tape-wrapped
4. SHIELDING: Silver-plated copper braid shield (85%)
5. STANDARDS: VW-1. Complies with MIL-W-16878/4 Type E (replaced by NEMA HP3) except for stranding of sizes 24-16 AWG
6. RATINGS: 600 V rms, -65°C to 200°C

26 AWG (7X34)

Nominal capacitance for single conductors measured between conductor and shield, multiconductor measured between conductors.

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83303E	1	White	6	0.010	0.010	0.076	44.6
B83317E	2	White, Black	14	0.010	0.011	0.121	20.8
B83332E	3	White, Black, Red	17	0.010	0.011	0.127	18.8
B83347E	4	White, Black, Red, Green	19	0.010	0.011	0.137	18.5

24 AWG (19X36)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83304E	1	White	8	0.010	0.010	0.085	46
B83318E	2	White, Black	16	0.010	0.011	0.131	26.5
B83333E	3	White, Black, Red	19	0.010	0.011	0.137	21.9
B83348E	4	White, Black, Red, Green	23	0.010	0.011	0.149	21.9

22 AWG (19X34)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83305E	1	White	9	0.010	0.010	0.091	57.9
B83319E	2	White, Black	19	0.010	0.011	0.143	29.9
B83334E	3	White, Black, Red	24	0.010	0.011	0.150	27.4
B83349E	4	White, Black, Red, Green	28	0.010	0.011	0.163	27.4

20 AWG (19X32)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83306E	1	White	14	0.010	0.010	0.099	69
B83320E	2	White, Black	23	0.010	0.011	0.159	31.7
B83335E	3	White, Black, Red	30	0.010	0.011	0.168	31.7
B83350E	4	White, Black, Red, Green	37	0.010	0.011	0.183	31.7

18 AWG (19X30)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83307E	1	White	17	0.011	0.011	0.109	71.5
B83321E	2	White, Black	29	0.011	0.011	0.179	31
B83336E	3	White, Black, Red	39	0.011	0.011	0.189	31
B83351E	4	White, Black, Red, Green	51	0.011	0.011	0.207	31

16 AWG (19X29)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83308E	1	White	20	0.010	0.011	0.120	72.5
B83322E	2	White, Black	35	0.012	0.011	0.197	36
B83337E	3	White, Black, Red	49	0.012	0.011	0.209	30.7
B83352E	4	White, Black, Red, Green	61	0.012	0.011	0.229	30.2

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

Multiconductor Plenum Unshielded

FEP Insulation and Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper
2. INSULATION: FEP
3. JACKET: Red FEP
4. STANDARDS: NEC: CMP
5. RATINGS: 300 V rms
6. USE: Suitable for outdoor and direct burial applications

22 AWG (7X30)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B88442	2	Black & Red	8.0	0.006	0.012	0.102
B88444	4	Black, White, Red, Green	15	0.006	0.010	0.121

18 AWG (19X30)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B88489	4	Black, White, Red, Green	29	0.007	0.009	0.161

FEP Insulation, Flamarrest Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper
2. INSULATION: FEP
3. JACKET: Red FEP
4. STANDARDS: NEC: CMP
5. RATINGS: 300 V

22 AWG (7X30)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B82442	2	Black & Red	8.0	0.006	0.015	0.113
B82444	4	Black, White, Red, Green	15	0.006	0.015	0.134

18 AWG (19X30)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B82489	4	Black, White, Red, Green	29	0.007	0.014	0.170

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Multiconductor Plenum Shielded

Overall Beldfoil Shield

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 18 AWG stranded tinned copper, conductors cabled
2. INSULATION: FEP
3. JACKET: Red FEP or Natural Flamarrest
4. SHIELDING: Overall Beldfoil shield (100%), 20 AWG stranded tinned copper drain wire
5. STANDARDS: NEC: CMP
6. RATINGS: 300 V, -70°C to 200°C

RED FEP JACKET - SUITABLE FOR OUTDOOR AND DIRECT BURIAL APPLICATIONS

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B88770	3	Black, Red, White	32	0.007	0.014	0.161	54
B89418	4	Black, White, Red, Green	36	0.007	0.014	0.177	30

NATURAL COLORED FLAMARREST JACKET - SUITABLE FOR OUTDOOR APPLICATIONS

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B82418	4	Black, White, Red, Green	38	0.007	0.014	0.176	30

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

Multiconductor Plenum Shielded

Overall Foil and Braid Shield

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper
2. INSULATION: FEP
3. JACKET TYPE: Red FEP
4. SHIELDING: Overall Beldfoil (100% coverage) + tinned copper braid shield (85% coverage)
5. STANDARDS: NEC: CMP
6. USE: Suitable for outdoor and direct burial applications
7. RATINGS: 300 V rms, -70°C to 200°C

24 AWG (7X32)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83503	3	See Chart 2	16	0.006	0.014	0.135	20
B83504	4	See Chart 2	20	0.006	0.014	0.144	20
B83506	6	See Chart 2	26	0.006	0.014	0.165	20
B83509	9	See Chart 2	38	0.006	0.014	0.188	20
B83512	12	See Chart 2	45	0.006	0.014	0.207	20
B83515	15	See Chart 2	53	0.006	0.014	0.227	20

22 AWG (7X30)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83552	2	See Chart 2	16	0.006	0.014	0.141	23
B83553	3	See Chart 2	20	0.006	0.014	0.148	23
B83554	4	See Chart 2	25	0.006	0.014	0.159	23
B83556	6	See Chart 2	36	0.006	0.014	0.183	23
B83559	9	See Chart 2	50	0.006	0.014	0.209	23
B83562	12	See Chart 2	60	0.006	0.015	0.234	23
B83569	19	See Chart 2	85	0.006	0.015	0.269	23

20 AWG (7X28)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83602	2	See Chart 2	22	0.006	0.014	0.157	26
B83604	4	See Chart 2	32	0.006	0.014	0.178	26
B83606	6	See Chart 2	47	0.006	0.014	0.207	26
B83609	9	See Chart 2	63	0.006	0.014	0.238	26
B83612	12	See Chart 2	67	0.006	0.014	0.265	26

18 AWG (19X30)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83652	2	See Chart 2	27	0.007	0.014	0.175	33
B83653	3	See Chart 2	39	0.007	0.014	0.184	33
B83654	4	See Chart 2	46	0.007	0.014	0.199	33
B83656	6	See Chart 2	62	0.007	0.014	0.234	33
B83659	9	See Chart 2	88	0.007	0.015	0.293	33
B83662	12	See Chart 2	109	0.007	0.015	0.308	33

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Multiconductor Plenum Shielded

16 AWG (19X29)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83702	2	See Chart 2	40	0.007	0.014	0.196	35
B83703	3	See Chart 2	50	0.007	0.014	0.206	35
B83704	4	See Chart 2	62	0.007	0.014	0.223	35
B83706	6	See Chart 2	87	0.007	0.014	0.265	35
B83709	9	See Chart 2	120	0.007	0.014	0.307	35
B83712	12	See Chart 2	153	0.007	0.014	0.344	35
B83715	15	See Chart 2	190	0.007	0.014	0.407	35
B83719	19	See Chart 2	227	0.007	0.014	0.403	35

Fire Alarm - Power Limited Fire Protective

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, conductors cabled
2. INSULATION: FEP
3. JACKET: Red FEP
4. SHIELDING: Overall Beldfoil (100% coverage) and tinned copper braid (85% coverage)
5. STANDARDS: UL Style 2464 (80°C, 300 V) and 1424 (105°C, no voltage rating), NEC: FPLP, CMP. Passes IEEE 1202 flame test
6. RATINGS: 300 V, -70°C to 200°C

14 AWG (7X22)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83752	2	See Chart 2	60	0.016	0.015	0.267	30
B83753	3	See Chart 2	82	0.016	0.015	0.284	30
B83754	4	See Chart 2	102	0.016	0.015	0.311	30
B83756	6	See Chart 2	150	0.016	0.017	0.376	30

12 AWG (7X20)

Anixter No.	No. of Conductors	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B83802	2	See Chart 2	80	0.016	0.015	0.303	32
B83803	3	See Chart 2	111	0.016	0.015	0.323	32
B83804	4	See Chart 2	147	0.016	0.017	0.359	32
B83806	6	See Chart 2	213	0.016	0.017	0.430	32

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

Multipair Nonplenum Unshielded

Telephone Cables

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 24 AWG solid tinned copper, twisted pairs
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. STANDARDS: UL AWM style 2576, NEC: CMG
5. RATINGS: 150 V, 80°C

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
CM-00224TAG-B	2	See Chart 4	18	0.010	0.032	0.199
CM-00624TAG-B	6	See Chart 4	45	0.010	0.032	0.289
CM-01024TAG-B	10	See Chart 4	63	0.010	0.035	0.310
CM-02524TAG-B	25	See Chart 4	144	0.010	0.040	0.480

150 V - Solid Tinned Copper Conductors

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG solid tinned copper, twisted pairs
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. STANDARDS: UL AWM Style 2576, NEC: CMG
5. RATINGS: -20°C to 80°C, 150 V (AWM), 300 V (CMG)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8740	1	See Chart 3	14	0.010	0.032	0.156
B8741	2	See Chart 3	27	0.010	0.032	0.230
B8742	3	See Chart 3	33	0.010	0.032	0.242
B8743	6	See Chart 3	53	0.010	0.032	0.293
B8744	9	See Chart 3	79	0.010	0.035	0.350
B8757	4	See Chart 3	40	0.010	0.250	0.032
B9160	8	See Chart 3	71	0.010	0.035	0.323

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Multipair Nonplenum Unshielded

150 V - Stranded Tinned Copper Conductors

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG stranded tinned copper, twisted pairs
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. STANDARDS: UL AWM Style 2576, NEC: CMG
5. RATINGS: -20°C to 80°C, 150 V (AWM), 300 V (CMG)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B9744	2	See Chart 3	27	0.010	0.032	0.233
B9745	3	See Chart 3	36	0.010	0.032	0.245
B9746	4	See Chart 3	42	0.010	0.032	0.281
B8747	6	See Chart 3	59	0.010	0.035	0.320
B8748	9	See Chart 3	84	0.010	0.037	0.389
B9747	12	See Chart 3	109	0.010	0.040	0.425
B8749	15	See Chart 3	124	0.010	0.040	0.440
B8750	27	See Chart 3	221	0.010	0.045	0.575

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

Multipair Nonplenum Unshielded

300 V - Stranded Tinned Copper Conductors

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, twisted pairs
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. STANDARDS: UL AWM Style 2464 (multiconductor 20-18 AWG), Style 2598 (16 AWG), NEC: CMG
5. RATINGS: 300 V, 80°C

20 AWG (7X28)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8205	1	Black, Red	18	0.013	0.025	0.180
B9750	3	See Chart 3	50	0.013	0.035	0.299
B9751	6	See Chart 3	89	0.013	0.035	0.366
B9752	9	See Chart 3	125	0.013	0.035	0.429
B9755	15	See Chart 3	194	0.013	0.040	0.545

18 AWG (7X26)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8461	1	Black, White	27	0.022	0.028	0.234

18 AWG (16X30)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B9740	1	See Chart 3	24	0.014	0.032	0.210
B9156	2	See Chart 3	51	0.014	0.035	0.333
B8690	3	See Chart 3	65	0.014	0.032	0.347
B9157	4	See Chart 3	83	0.014	0.032	0.381
B9159	5	See Chart 3	99	0.014	0.032	0.391
B8691	6	See Chart 3	115	0.014	0.032	0.433
B9161	8	See Chart 3	152	0.014	0.037	0.485
B8692	9	See Chart 3	170	0.014	0.040	0.524
B9741	12	See Chart 3	220	0.014	0.046	0.600
B9742	15	See Chart 3	291	0.014	0.051	0.677
B9743	19	See Chart 3	355	0.014	0.055	0.721

16 AWG (19X29)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8471	1	Black, White	43	0.023	0.032	0.274

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

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Multipair Nonplenum Unshielded

600 V - Stranded Tinned Copper Conductors

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, twisted pairs
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. STANDARDS: UL AWM Style 2587, Class 3 (CL3) and Class 3 Riser (CL3R) - see below
5. RATINGS: 600 V (AWM), 300 V (CL3), 90°C

14 AWG (42X30)

Anixter No.	NEC Rating	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8473	CL3	1	Black, White	58	0.031	0.032	0.340

12 AWG (65X30)

Anixter No.	NEC Rating	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8477	CL3R	1	Black, White	85	0.032	0.035	0.386

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

Multipair Nonplenum Shielded

High Temperature - ETFE Insulation and Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 20 AWG stranded (7X32) tinned copper conductors, pairs cabled together
2. INSULATION: ETFE
3. JACKET: Clear ETFE
4. SHIELDING: Overall Beldfoil shield (100%), drain wire
5. STANDARDS: VW-1
6. RATINGS: 300 V, 150°C

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B85164	4	See Chart 3	71	0.015	0.025	0.344	23
B85168	8	See Chart 3	126	0.015	0.025	0.439	23

Overall Beldfoil for RS-232 Applications

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 24 AWG stranded (7x32) tinned copper, twisted pairs
2. INSULATION: Semi-rigid PVC
3. JACKET: Chrome PVC
4. SHIELDING: Overall Beldfoil shield (100%), 24 AWG stranded tinned copper drain wire
5. STANDARDS: UL AWM Style 2464, NEC: CMG
6. RATINGS: 300 V, 80°C

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)	Nominal Imped. (Ohms)	Nom. Vel of Prop.	Nominal Capacitance (pF/ft.)
B9501	1	See Chart 3	14	0.156	75	60%	40
B9502	2	See Chart 3	30	0.222	75	60%	30
B9503	3	See Chart 3	30	0.232	75	60%	30
B9504	4	See Chart 3	36	0.265	75	60%	30
B9505	5	See Chart 3	43	0.289	75	60%	30
B9506	6	See Chart 3	47	0.289	75	60%	30
B9507	7	See Chart 3	51	0.294	75	60%	30
B9508	8	See Chart 3	60	0.324	75	60%	30
B9509	9	See Chart 3	67	0.334	75	60%	30
B9510	10	See Chart 3	74	0.368	75	60%	30
B9515	15	See Chart 3	102	0.417	75	60%	30
B9519	19	See Chart 3	122	0.448	75	60%	30
B9525	25	See Chart 3	155	0.503	75	60%	30
B9550	50	See Chart 3	292	0.708	75	60%	30

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Multipair Nonplenum Shielded

Low Capacitance for RS-232/422 - Polyethylene Insulation

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 24 AWG stranded (7x32) tinned copper conductors, twisted pairs
2. INSULATION: Datalene
3. JACKET: Chrome PVC
4. SHIELDING: Overall Beldfoil shield (100%), 24 AWG stranded tinned copper drain
5. STANDARDS: NEC: CM
6. RATINGS: UL AWM Style 2919, 30 V, 80°C
7. JACKETING: Chrome PVC

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)	Nominal Imped. (Ohms)	Nom. Vel of Prop.	Nominal Capacitance (pF/ft.)
B9680	3	See Chart 5	38	0.282	100	66%	15.5
B9681	4	See Chart 5	45	0.307	100	66%	15.5
B9682	6	See Chart 5	56	0.342	100	66%	15.5
B9683	9	See Chart 5	79	0.397	100	66%	15.5
B9684	12 & 1/2	See Chart 5	97	0.445	100	66%	15.5

Low Capacitance for RS-232/422 - Datalene Insulation

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 24 AWG stranded (7x32) tinned copper conductors, twisted pairs
2. INSULATION: Datalene
3. JACKET: Chrome PVC
4. SHIELDING: Overall Beldfoil shield (100%), 24 AWG stranded tinned copper drain wire
5. STANDARDS: UL AWM Style 2919, NEC: CM
6. RATINGS: 30 V (AWM), 300 V (CM), 80°C

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)	Nominal Imped. (Ohms)	Nom. Vel of Prop.	Nominal Capacitance (pF/ft.)
B1419A	2	See Chart 5	30	0.248	100	78%	13
B1420A	3	See Chart 5	34	0.261	100	78%	13
B1421A	4	See Chart 5	37	0.280	100	78%	13
B1422A	5	See Chart 5	43	0.294	100	78%	13
B1423A	6	See Chart 5	48	0.319	100	78%	13
B1424A	12 & 1/2	See Chart 5	85	0.418	100	78%	13
B1425A	15	See Chart 5	99	0.473	100	78%	13

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

Multipair Nonplenum Shielded

Overall Beldfoil Shield - PVC Insulation, Jacket - Solid Conductors

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG solid tinned copper, twisted pairs
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. SHIELDING: Overall Beldfoil shield (100%), 22 AWG stranded tinned copper drain wire
5. STANDARDS: UL AWM Style 2464, NEC: CMG
6. RATINGS: 300 V, 80°C

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)	Nominal Imped. (Ohms)	Nom. Vel of Prop.	Nominal Capacitance (pF/ft.)
B9302	2	See Chart 3	31	0.013	0.032	0.244	35
B9305	4	See Chart 3	45	0.013	0.032	0.265	35
B9306	6	See Chart 3	62	0.013	0.032	0.315	35
B9309	9	See Chart 3	86	0.013	0.033	0.363	35
B9315	15	See Chart 3	133	0.013	0.037	0.449	35
B9319	19	See Chart 3	165	0.013	0.040	0.495	35
B9327	27	See Chart 3	230	0.013	0.045	0.615	35

Overall Beldfoil Shield - PVC Insulation, Jacket - Stranded Conductors

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, twisted pair
2. INSULATION: PVC
3. JACKET: PVC (see tables for colors)
4. SHIELDING: Overall Beldfoil shield (100%), stranded tinned copper drain wire
5. STANDARDS: UL AWM Style 2464, NEC: CMG
6. RATINGS: 300 V, 80°C

22 AWG (19X34), CHROME JACKET

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9462	1	Black, Red	21	0.013	0.035	0.186	50

20 AWG (7X28), BEIGE JACKET

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9154	1	Black, Red	23	0.014	0.031	0.198	60

Overall Beldfoil Shield - Polypropylene Insulation, PVC Jacket - Solid Conductors

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG solid tinned copper, twisted pair
2. INSULATION: Polypropylene
3. JACKET: Black PVC
4. SHIELDING: Overall Beldfoil shield (100% coverage), 22 AWG stranded tinned copper drain wire
5. STANDARDS: NEC: CM
6. RATINGS: 300 V rms, 75°C

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8450	1	Black & Red	13	0.007	0.018	0.118	40

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

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Multipair Nonplenum Shielded

Overall Beldfoil Shield - Polyethylene Insulation, PVC Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, twisted pair
2. INSULATION: Polyethylene
3. JACKET: Chrome PVC
4. SHIELDING: Overall Beldfoil shield (100%), tinned copper drain wire
5. STANDARDS: UL AWM Style 2092, NEC: CM
6. RATINGS: 300 V, 60°C

24 AWG (7X32), 24 AWG DRAIN

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8641	1	Black, Clear	14	0.016	0.025	0.168	22

22 AWG (7X30), 22 AWG DRAIN

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8761	1	Black, Clear	18	0.016	0.025	0.175	24

20 AWG (7X28), 20 AWG DRAIN

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8762	1	Black, Clear	23	0.016	0.028	0.204	27

18 AWG (16X30), 20 AWG DRAIN

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8760	1	Black, Clear	26	0.019	0.028	0.222	24

Overall Beldfoil Shield - PE Insulation, PVC Jacket (Jacket and Shield Bonded)

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, twisted pair
2. INSULATION: Polyethylene
3. JACKET: Chrome PVC
4. SHIELDING: Overall Beldfoil shield (100%) bonded to jacket, stranded tinned copper drain wire
5. STANDARDS: UL AWM Style 2092, NEC: CMG
6. RATINGS: 300 V, 60°C

22 AWG (7X30), 22 AWG DRAIN

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9461	1	Black, Clear	21	0.016	0.026	0.180	24

20 AWG (7X28), 20 AWG DRAIN

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9464	1	Black, Clear	32	0.016	0.035	0.214	27

18 AWG (16X30), 20 AWG DRAIN

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9460	1	Black, Clear	36	0.019	0.030	0.230	24

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

Multipair Nonplenum Shielded

Overall Beldfoil Shield - PE Insulation, PVC Jacket - 600 V

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, twisted pairs
2. INSULATION: Polyethylene
3. JACKET: Chrome PVC
4. SHIELDING: Overall Beldfoil (100% coverage), stranded tinned copper drain wire
5. STANDARDS: UL AWM Style 20253, NEC: CM (8719), CL2 (8720, 8218)
6. RATINGS: 600 V (AWM), 80°C

16 AWG (19X29), 18 AWG STRANDED TINNED COPPER DRAIN

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8719	1	Black, Clear	50	0.032	0.032	0.313	23

14 AWG (19X27), 16 AWG STRANDED TINNED COPPER DRAIN

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8720	1	Black, Clear	71	0.032	0.035	0.355	24

12 AWG (19X25), 14 AWG STRANDED TINNED COPPER DRAIN

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8718	1	Black, Clear	100	0.037	0.040	0.400	25

Overall Braid Shield with Polyester Tape

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, twisted pair
2. INSULATION: PVC, polyester separator tape
3. JACKET: Black PVC
4. SHIELDING: Tinned copper braid shield (86%)
5. STANDARDS: UL AWM Style 2095, NEC: CMG
6. RATINGS: 300 V, 80°C

22 AWG (7X30), 22 AWG DRAIN WIRE

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8441	1	Black & Red	27	0.015	0.025	0.194	49

Overall Braid Shield with Rubber Insulation

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 18 AWG stranded (16x30) tinned copper, separator tape, twisted pair
2. INSULATION: Rubber
3. JACKET: Chrome PVC
4. SHIELDING: Tinned copper braid (73%)
5. RATINGS: 300 V rms, -20°C to 80°C

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8208	1	Red, White	43	0.022	0.025	0.257	46

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

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Multipair Nonplenum Shielded

Overall Spiral Shield

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper. Twisted pair
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. SHIELDING: Tinned copper spiral wrapped shield (85% coverage)
5. STANDARDS: UL AWM Style 2095 (8737, 8759) NEC: CMG
6. RATINGS: 300 V, -20°C to 60°C (8780, 8790), 80°C (8737, 8759)

Anixter No.	AWG	Stranding	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8737	22	7x30	1	Black & Red	20	0.060	0.025	0.180	49
B8759	20	7x28	1	Black & Red	25	0.016	0.025	0.199	47
B8790	18	7x26	1	Red, White	35	0.022	0.028	0.241	53
B8780	16	19x29	1	Black, White	46	0.023	0.030	0.280	57

Low Capacitance Overall Foil/Braid for RS-232/422 - PP Insulation

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 28 AWG stranded (7x36) tinned copper
2. INSULATION: Polypropylene
3. JACKET: Chrome PVC, see Chart 3 for color code
4. SHIELDING: Overall Beldfoil (100% coverage) and tinned copper braid shield (90% coverage), 28 AWG stranded tinned copper drain wire
5. STANDARDS: UL AWM Style 2960, NEC: CL2
6. RATINGS: 30 V (AWM), 150 V (CL2), -20°C to 60°C, 100 ohm nominal impedance, 66% velocity of propagation, 15.5 pF/ft. capacitance

Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B9804	2	32	0.214
B9805	3	35	0.222
B9806	4	39	0.237
B9807	5	39	0.240
B9808	7	44	0.256
B9809	9	53	0.290
B9812	12	62	0.319
B9813	13	66	0.336
B9819	18	82	0.365
B9825	25	108	0.429
B9814	31	127	0.462

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

Multipair Nonplenum Shielded

Low Capacitance Overall Foil/Braid for RS-232/422 - PE Insulation

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 24 AWG stranded (7x32) tinned copper
2. INSULATION: Polyethylene, see Chart 5 for color code
3. JACKET: Chrome PVC
4. SHIELDING: Overall Beldfoil (100% coverage) and tinned copper braid (65% coverage), tinned copper drain wire
5. STANDARDS: UL AWM Style 2929, NEC: CM
6. RATINGS: 30 V (AWM), 300 V (CM), -30°C to 80°C, nom. impedance 100 ohms, nom. velocity of propagation 66%, nom. capacitance 15.5 pF/ft.

Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B9829	2	43	0.291
B9830	3	53	0.305
B9831	4	58	0.330
B9832	5	65	0.338
B9839	6	67	0.364
B9833	7	77	0.370
B9834	9	90	0.419
B9835	10	99	0.451
B9836	12	107	0.464
B9837	18	162	0.567

Low Capacitance Overall Foil/Braid for RS-232/422 - Datalene Insulation

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 24 AWG stranded (7x32) tinned copper, twisted pairs
2. INSULATION: Datalene (foam Polyethylene), see Chart 5 for color code
3. JACKET: Chrome PVC
4. SHIELDING: Overall Beldfoil (100%) plus tinned copper braid (65%), 24 AWG tinned copper drain wire
5. STANDARDS: UL AWM Style 2919, NEC: CM
6. RATINGS: 30 V (AWM), 300 V (CM), -30°C to 80°C, nom. impedance 100 ohms, nom. velocity of propagation 78%, nom. capacitance 12.5 pF/ft.

Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B8102	2	38	0.270
B8103	3	42	0.283
B8104	4	46	0.302
B8105	5	47	0.313
B8106	6	58	0.341
B8107	7	63	0.341
B8108	8	72	0.370
B8110	10	90	0.427
B8112	12 & 1/2	101	0.440
B8115	15	114	0.477
B8118	18	141	0.537
B8125	25	191	0.632

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

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Multipair Nonplenum Shielded

Low Capacitance Overall Foil/Braid for RS-232/485 - Datalene Insulation

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 28 AWG stranded (7x36) tinned copper conductors
2. INSULATION: Datalene (foam Polyethylene), see Chart 5 for color code
3. JACKET: Chrome PVC
4. SHIELDING: Overall Beldfoil (100%) and tinned copper braid shield (65%), 28 AWG stranded tinned copper drain wire
5. SPECIFICATIONS: UL AWM Style 2919, NEC: CL2
6. RATINGS: 30 V (AWM) 150 V (CL2), -30°C to 80°C, nom. impedance 120 ohms, nom. velocity of propagation 78%, nom. capacitance 11 pF/ft.

Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B8132	2	29	0.220
B8133	3	35	0.265
B8134	4	39	0.286
B8135	5	40	0.288
B8138	8	51	0.330
B8142	12 & 1/2	68	0.389
B8148	18	92	0.467
B8155	25	118	0.565

Low Capacitance Overall Foil/Braid for RS-485 - PE Insulation

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 24 AWG stranded (7x32) tinned copper
2. INSULATION: Polyethylene, see Chart 5 for color code
3. JACKET: Chrome PVC
4. SHIELDING: Overall Beldfoil (100% coverage) and tinned copper braid shield (90% coverage), 24 AWG tinned copper drain wire
5. STANDARDS: UL AWM Style 2919, NEC: CM
6. RATINGS: 30 V (AWM) 300 V (CM), -30°C to 80°C, nom. impedance 120 ohms, nom. velocity of propagation 66%, nom. capacitance 12.8 pF/ft.

Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B9841	1	40	0.232
B9842	2	57	0.340
B9843	3	67	0.360
B9844	4	78	0.390

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

Multipair Nonplenum Shielded

Low Capacitance Overall Foil/Braid for RS-232 - PVC Insulation

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper
2. INSULATION: SR-PVC
3. JACKET: Chrome PVC
4. SHIELDING: Overall Beldfoil (100% coverage) and tinned copper braid shield (65% coverage)
5. STANDARDS: UL AWM Style 2464, NEC: CMG
6. RATINGS: 300 V, -30°C to 80°C, nom. impedance 75 ohms, nom. velocity of propagation 60%, nom. capacitance 30 pF/ft.

24 AWG (7X32) - SEE CHART 5 FOR COLOR CODE

Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B8332	2	37	0.250
B8333	3	44	0.265
B8334	4	47	0.272
B8335	5	57	0.295
B8336	6	62	0.310
B8337	7	65	0.321
B8340	10	90	0.385
B8342	12 & 1/2	109	0.405
B8345	15	120	0.445
B8348	18	149	0.480
B8355	25	192	0.550

22 AWG (7X30) - SEE CHART 3 FOR COLOR CODE

Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B8302	2	42	0.280
B8303	3	48	0.294
B8304	4	66	0.320
B8305	5	67	0.322
B8306	6	79	0.348
B8307	7	85	0.348
B8308	8	101	0.384
B8310	10	118	0.440
B8312	12 & 1/2	137	0.455
B8315	15	164	0.502
B8318	18	190	0.540
B8325	25	248	0.620

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

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Multipair Nonplenum Shielded

Low Capacitance Individually Shielded for RS-422

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 24 AWG stranded (7x32) tinned copper, twisted pairs
2. INSULATION: Datalene (foamed Polyethylene), see Chart 3 for color code
3. SHIELDING: Individual Beldfoil (100% coverage), 24 AWG stranded tinned copper drain wire
4. JACKET: Chrome PVC
5. STANDARDS: UL AWM Style 2493 (60°C, No voltage rating), NEC: CM
6. RATINGS: 300 V, -20°C to 60°C (AWM) 80°C (CM), nom. 100 impedance ohms, nom. velocity of propagation 76%, nom. capacitance 12.5 pF/ft.

Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B9729	2	39	0.266
B9730	3	46	0.334
B9728	4	51	0.363
B9731	6	83	0.421
B9732	9	106	0.488
B9734	12	154	0.575
B9735	15	185	0.639
B9736	17	210	0.671
B9737	19	231	0.671
B9738	27	334	0.797

Individually Shielded - PE Insulation, PVC Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 24 AWG stranded (7x32) tinned copper. Twisted pairs
2. INSULATION: Polyethylene, see Chart 3 for clor code
3. JACKET: Chrome PVC
4. SHIELDING: Individual Beldfoil (100%), 24 AWG stranded tinned copper drain wire
5. STANDARDS: UL AWM Style 2919 (30 V), NEC: CM
6. RATINGS: 300 V, -20°C to 80°C, nom. impedance 60 ohms, nom. velocity of propagation 66%, nom. capacitance 25 pF/ft.

Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B9990	3	36	0.255
B9991	6	62	0.330
B9992	9	86	0.383
B9993	12	107	0.428
B9995	25	228	0.636

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

Multipair Nonplenum Shielded

Individually Shielded - PVC Insulation and Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG solid tinned copper, twisted pairs
2. SHIELDING: Individual Beldfoil (100%), 22 AWG solid tinned copper drain wire
3. INSULATION: PVC, see Chart 3 for color code
4. JACKET: Chrome PVC
5. STANDARDS: UL AWM Style 2464, NEC: CMG
6. RATINGS: 300 V, 80°C, nom. capacitance 40 pF/ft.

Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B8767	3	46	0.013	0.037	0.279
B8768	6	92	0.013	0.037	0.379
B8764	9	122	0.013	0.040	0.425
B8765	11	149	0.013	0.040	0.470
B8766	15	180	0.013	0.045	0.525

Individually Shielded - PP Insulation, PVC Jacket - 300 V

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG stranded tinned copper (7x30), twisted pairs
2. INSULATION: Polypropylene
3. JACKET: Chrome PVC
4. SHIELDING: Individual Beldfoil (100% coverage), 24 AWG stranded (7x32) tinned copper drain wire
5. STANDARDS: NEC: CM
6. RATINGS: 300 V rms, 60°C

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)	Nominal Imped. (Ohms)	Nom. Vel of Prop.	Nominal Capacitance (pF/ft.)
B8723	2	Red & Black, Green & White	19	0.160	45	66%	35

Available in Low-Smoke - Part Number B8723SB

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

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Multipair Nonplenum Shielded

Individually Shielded - PP Insulation, PVC Jacket - 30 V

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, twisted pairs
2. INSULATION: Polypropylene, see Chart 3 for color code
3. JACKET: Chrome PVC
4. SHIELDING: Individual Beldfoil (100% coverage), stranded tinned copper drain wire
5. STANDARDS: UL AWM Style 2919, NEC: CM
6. RATINGS: 30 V (AWM) 300 V (CM), -20°C to 80°C, nom. impedance 50 ohms, nom. velocity of propagation 66%, nom. capacitance 30 pF/ft.

22 AWG (7X30) - 22 AWG DRAIN WIRE

Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B8777	3	42	0.273
B8778	6	78	0.352
B8774	9	109	0.410
B8775	11	125	0.464
B9768	12	132	0.464
B8776	15	187	0.548
B9769	17	203	0.577
B8769	19	248	0.601
B8773	27	329	0.709
B9767	37	458	0.800

20 AWG (7X28) - 22 AWG DRAIN WIRE

Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B9873	3	61	0.341
B9874	6	109	0.445
B9875	9	165	0.555
B9876	11	197	0.600
B9877	12	211	0.617
B9879	15	296	0.689

18 AWG (19X30) - 20 AWG DRAIN WIRE

Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B9773	3	93	0.404
B9774	6	173	0.560
B9775	9	260	0.655
B9776	12	300	0.735
B9777	15	415	0.819

Available in Low-Smoke - Part Number B8777SB

Individually Shielded - PP Insulation, HDPE Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 20 AWG stranded (10x30) tinned copper, twisted pairs
2. INSULATION: Polypropylene
3. JACKET: Black high-density polyethylene
4. SHIELDING: Individual Beldfoil (100% coverage), 22 AWG stranded tinned copper drain wire
5. RATINGS: 350 V, -40°C to 80°C

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)	Nominal Imped. (Ohms)	Nom. Vel of Prop.	Nominal Capacitance (pF/ft.)
B9883	3	See Chart 3	57	0.340	50	66%	30
B9886	6	See Chart 3	105	0.455	50	66%	30

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

Multipair Nonplenum Shielded

Individually Shielded with Overall Foil/Braid for RS-232/422

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 24 AWG stranded (7x32). Twisted pairs
2. INSULATION: Datalene (foamed Polyethylene), see Chart 3 for color code
3. JACKET: Chrome PVC
4. SHIELDING: Individual Beldfoil each pair with 24 AWG stranded tinned copper drain wire, overall Beldfoil (100%) and tinned copper braid shield (65%)
5. STANDARDS: UL AWM Style 2493, VW-1, NEC: CM
6. RATINGS: 300 V, -40°C to 60°C, nom. impedance 100 ohms, nom. velocity of propagation 78%, nom. capacitance 12.5 pF/ft.

Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B8162	2	57	0.343
B8163	3	66	0.359
B8164	4	79	0.388
B8165	5	90	0.413
B8166	6	99	0.446
B8167	7	103	0.446
B8168	8	115	0.479
B8170	10	164	0.584
B8175	15	210	0.665
B8178	18	238	0.686
B8185	25	356	0.822

One Shielded Pair Plus One Unshielded Pair with Overall Foil Shield

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 25 AWG stranded (7x33) tinned, each conductor has three copper or four copper-covered steel strands
2. INSULATION: Polyethylene
3. JACKET: Chrome PVC
4. SHIELDING: One pair individual Beldfoil (100% coverage), one pair unshielded, overall Beldfoil (100% coverage), 25 AWG stranded tinned copper drain wire
5. RATINGS: 400 V, 80°C

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8434	2	Shielded: Red & Black; Unshielded: Green & White	12	0.013	0.020	0.165	25

Individually Shielded Pairs with Overall Foil Shield

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG stranded (7x30) tinned copper
2. INSULATION: Polypropylene
3. JACKET: Chrome PVC
4. SHIELDING: Pairs have individual Beldfoil shields with a aluminum/polyester isolation wrap. Overall Beldfoil (100%), 24 AWG stranded tinned copper drain wire
5. STANDARDS: UL AWM Style 2717, NEC: CM
6. RATINGS: 300 V, -20°C to 80°C

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8728	2	Black & Red, Green & White	31	0.050	0.028	0.215	35

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

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Multipair Nonplenum Shielded

One Shielded Pair Plus One Unshielded Single

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 20 AWG stranded (7x28) tinned copper
2. INSULATION: Polyethylene
3. JACKET: Chrome PVC
4. SHIELDING: Beldfoil shield over Red and Black pair. Clear conductor unshielded. 20 AWG drain wire
5. RATINGS: 350 V, -20°C to 80ºC

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8763	1.5 (1 pair + 1 single)	Shielded: Black & Red; Unshielded: Clear	25	0.014	0.028	0.210	26

One Shielded Pair Plus One Unshielded Pair

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 20 AWG stranded (7x28) tinned copper
2. INSULATION: PVC
3. JACKET: Chrome PVC
4. SHIELDING: Beldfoil shield over Red and Black conductors only. 22 AWG drain wire
5. STANDARDS: VW-1, NEC: CMG
6. RATINGS: 350 V, -20°C to 80°C

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8722	2	Shielded: Black & Red; Unshielded: Clear	36	0.016	0.028	0.226	60

Individually Shielded Pairs with Drain Wires

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 20 AWG stranded (7x28) tinned copper
2. INSULATION: Polypropylene
3. JACKET: Chrome PVC
4. SHIELDING: Four groups of two conductors with drain wires cabled around common axis, each group individually Beldfoil shielded with polyester tape wrap. 22 AWG stranded tinned copper drain wires
5. STANDARDS: VW-1, NEC: CM
6. RATINGS: 400 V, -40°C to 105°C

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B8725	4	Red & Black; Green & White; White/Red & White/Black; White/Green & White/Yellow	74	0.015	0.030	0.336	27

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

Multipair Nonplenum Shielded

One Shielded Pair Plus One Unshielded Pair - 20 and 18 AWG

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 20 and 18 AWG stranded (7x28 and 16x30) tinned copper
2. INSULATION: Polyethylene
3. JACKET: Beige PVC
4. SHIELDING: Beldfoil shield (100%) over 20 AWG pair, 22 AWG stranded tinned copper drain
5. STANDARDS: UL AWM Style 2094, NEC: CM
6. RATINGS: 300 V, -20°C to 60°C

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9155	1P + 1P	Shielded: Black & Red; Unshielded: Clear	48	0.020	0.031	0.262	24 + 22

Overall Beldfoil Shield - Analog Audio Cable

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG stranded (7x30) tinned copper, twisted pair
2. INSULATION: See table
3. JACKET: See table
4. STANDARDS: See table
5. RATINGS: See table

PP INSULATION, PVC JACKET, VARIOUS COLORS, 300 V RMS, 75°C, NEC: CMR

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9451	1	Black & Red	16	0.008	0.020	0.135	35

PP INSULATION, BLACK LOW-SMOKE JACKET, PVC JACKET, 300 V RMS, 105°C, NEC: CMG-LS

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9451SB	1	Black & Red	20	0.008	0.032	0.160	35

PO INSULATION, PVC JACKET, ZIPCORD CONSTRUCTION, VARIOUS COLORS, 300 V, 105°C, NEC: CMR

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9451D	2	Black & Red	29	0.008	0.020	0.135 x 0.270	34

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

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Multipair Plenum Unshielded

FEP Insulation and Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, twisted pairs
2. INSULATION: FEP
3. JACKET: Red FEP
4. STANDARDS: Plenum rated, NEC: CMP
5. RATINGS: 300 V, -70°C to 200°C

22 AWG (7X30)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B88442	1	Black & Red	8.0	0.006	0.012	0.102
B88741	2	Black & Red, Black & White	16	0.006	0.012	0.169
B88757	4	Black & Red, Black & White, Black & Green, Black & Blue	28	0.006	0.012	0.200

18 AWG (7X26)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B89740	1	Black & Red	15	0.007	0.009	0.132

FEP Insulation, Flamarrest Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, twisted pairs
2. INSULATION: FEP
3. JACKET: Natural Flamarrest (low smoke PVC)
4. STANDARDS: NEC: CMP
5. RATINGS: 300 V, 0°C to 60°C (B82740 - 75°C)

22 AWG (7X30)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B82442	1	Black & Red	8.0	0.006	0.015	0.113
B82741	2	Black & Red, Black & White	20	0.006	0.014	0.179
B82742	3	Black & Red, Black & White, Black & Green	26	0.006	0.014	0.191
B82743	6	Black & Red, Black & White, Black & Green, Black & Blue, Black & Yellow, Black & Brown	46	0.006	0.015	0.238
B82757	4	Black & Red, Black & White, Black & Green, Black & Blue	32	0.006	0.014	0.210

18 AWG (19X30)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)
B82740	1	Black & Red	16	0.007	0.015	0.143

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

Multipair Plenum Shielded

Overall Beldfoil Shield for RS-232 - FEP Insulation and Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 24 AWG stranded (7x32) tinned copper, twisted pairs
2. INSULATION: FEP
3. SHIELDING: Overall Beldfoil (100%), 24 AWG stranded tinned copper drain wire
4. JACKET: FEP
5. STANDARDS: Plenum rated, NEC: CMP
6. RATINGS: 300 V, -70°C to 200°C

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B88641	1	Black & Red	9	0.006	0.014	0.106	31
B89503	3	See Chart 3	21	0.006	0.014	0.175	21
B89504	4	See Chart 3	29	0.006	0.014	0.192	21
B89505	5	See Chart 3	33	0.006	0.014	0.197	21

Overall Beldfoil Shield for RS-232 - FEP Insulation, Flamarrest Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 24 AWG stranded (7x32) tinned copper, twisted pairs
2. INSULATION: FEP
3. JACKET: Natural colored Flamarrest (low smoke PVC)
4. SHIELDING: Overall Beldfoil (100% coverage), 24 AWG stranded tinned copper drain wire
5. STANDARDS: Plenum rated, NEC: CMP
6. RATINGS: 300 V, 0°C to 60°C (B82505 and B82509 - 75°C)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B82641	1	See Chart 3	8.0	0.006	0.014	0.106	31
B82502	2	See Chart 3	14	0.006	0.014	0.162	25
B82503	3	See Chart 3	18	0.006	0.014	0.169	25
B82504	4	See Chart 3	26	0.006	0.014	0.193	25
B82505	5	See Chart 3	31	0.006	0.015	0.196	25
B82506	6	See Chart 3	35	0.006	0.015	0.209	25
B82509	9	See Chart 3	49	0.006	0.015	0.246	23

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

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Multipair Plenum Shielded

Low Capacitance Overall Beldfoil Shield for RS-232/422

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 24 AWG stranded (7x32), twisted pairs
2. INSULATION: Foam FEP, see Chart 5 for color code
3. JACKET: Grey Fluorocopolymer (PVDF)
4. SHIELDING: Overall Beldfoil (100% coverage), 24 AWG stranded tinned copper drain wire
5. STANDARDS: Plenum rated, NEC: CMP
6. RATINGS: 300 V, -20°C to 150°C, nom. impedance 100 ohms, nom. velocity of propagation 78%, nom. capacitance 12.95 pF/ft.

Anixter No.	No. of Pairs	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)
B88102	2	20	0.203
B88103	3	31	0.239
B88104	4	38	0.259
B88105	5	44	0.267
B88106	6	50	0.293
B88107	7.5	59	0.293
B88109	9	74	0.352
B88112	12.5	97	0.397
B88118	18.5	148	0.482
B88125	25	195	0.581

Overall Beldfoil Shield - FEP Insulation, Flamarrest Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, twisted pair
2. INSULATION: FEP
3. JACKET: Natural colored Flamarrest (low smoke PVC)
4. SHIELDING: Overall Beldfoil (100% coverage), stranded tinned copper drain wire
5. STANDARDS: Plenum rated, NEC: CMP
6. RATINGS: 300 V, 75°C

22 AWG (7X30)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B82761	1	Black, Red	11	0.006	0.014	0.116	35

18 AWG (19X30)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B82760	1	Black, Red	21	0.007	0.014	0.146	51

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

Multipair Plenum Shielded

Overall Beldfoil Shield - FEP Insulation, Fluorocopolymer Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded tinned copper, twisted pair
2. INSULATION: FEP
3. JACKET: Red Fluorocopolymer (PVDF)
4. SHIELDING: Overall Beldfoil (100% coverage), stranded tinned copper drain wire
5. STANDARDS: Plenum rated, NEC: CMP
6. RATINGS: 300 V, -20°C to 150°C

22 AWG (7X30)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B87761	1	Black, Red	11	0.006	0.014	0.116	35

18 AWG (19X30)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B87760	1	Black, Red	20	0.007	0.014	0.150	51

Overall Beldfoil Shield - FEP Insulation and Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: Stranded (7x30) tinned copper, twisted pair
2. INSULATION: FEP
3. JACKET: Red FEP
4. SHIELDING: Overall Beldfoil (100% coverage), stranded tinned copper drain wire
5. STANDARDS: Plenum rated, NEC: CMP
6. RATINGS: 300 V, -70°C to 200°C

22 AWG (7X30)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B88761	1	Black, Red	13	0.006	0.016	0.123	35

18 AWG (7X30)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B88760	1	Black, Red	22	0.007	0.014	0.146	51

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

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Multipair Plenum Shielded

Overall Beldfoil Shield - Analog Audio Cable

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG stranded (7x30) tinned copper, twisted pair
2. INSULATION: FEP
3. JACKET: See table
4. SHIELDING: Overall Beldfoil (100% coverage), 22 AWG stranded (7x30) tinned copper drain wire
5. STANDARDS: Plenum rated, NEC: CMP
6. RATINGS: 300 V, -20°C to 75°C

FLAMARREST JACKET, VARIOUS COLORS

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9451P	1	Black & Red	16	0.007	0.017	0.127	35

WHITE FLAMARREST JACKET, ZIPCORD CONSTRUCTION

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B9451DP	2	Black & Red, Black & White	26	0.007	0.017	0.127 x 0.269	35

Low Capacitance Overall Foil/Braid - FEP Insulation, Flamarrest Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 24 AWG stranded (7x32) tinned copper
2. INSULATION: Foam FEP
3. JACKET: Natural colored Flamarrest (low smoke PVC)
4. SHIELDING: Overall Beldfoil (100% coverage), tinned copper braid shield (90% coverage), 24 AWG stranded tinned copper drain wire
5. STANDARDS: Plenum rated, NEC: CMP
6. RATINGS: 300 V, 0°C to 75°C

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness (in.)	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B82841	1	See Chart 5	26	0.025	0.015	0.204	12
B82842	2	See Chart 5	42	0.018	0.015	0.273	12

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

Multipair Plenum Shielded

Low Capacitance Overall Foil/Braid - FEP Insulation and Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 24 AWG stranded (7x32) tinned copper
2. INSULATION: Foam FEP
3. JACKET: Red colored FEP
4. SHIELDING: Overall Beldfoil (100% coverage), tinned copper braid shield (90% coverage), 24 AWG stranded tinned copper drain
5. STANDARDS: Plenum rated, NEC: CMP
6. RATINGS: 300 V, -70°C to 200°C

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)	Nominal Imped. (Ohms)	Nominal Capacitance (pF/ft.)
B89841	1	See Chart 5	27	0.202	120	12
B89842	2	See Chart 5	49	0.305	120	12

Low Capacitance Individually Shielded for RS-232/422

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 24 AWG stranded (7x32) twisted pairs
2. INSULATION: Foamed FEP, see Chart 5 for color code
3. JACKET: Gray Fluorocopolymer (PVDF)
4. SHIELDING: Individual Beldfoil (100% coverage), 24 AWG stranded tinned copper drain wire
5. STANDARDS: Plenum rated, NEC: CMP
6. RATINGS: 300 V, -15°C to 150°C, nom. impedance 100 ohms, nom. velocity of propagation 76%, nom. capacitance 13.5 pF/ft.

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B89729	2	See Chart 5	31	0.018	0.019	0.261	13.5
B89730	3	See Chart 5	40	0.019	0.017	0.278	13.5
B89728	4	See Chart 5	50	0.019	0.017	0.307	13.5
B89731	6	See Chart 5	71	0.019	0.014	0.361	13.5
B89705	5	See Chart 5	62	0.019	0.014	0.333	13.5
B89757	7	See Chart 5	80	0.019	0.014	0.361	13.5
B89732	9	See Chart 5	108	0.019	0.016	0.433	13.5
B89734	12	See Chart 5	140	0.019	0.019	0.498	13.5
B89758	18	See Chart 5	204	0.019	0.019	0.616	13.5

Available with a natural Flamarrest jacket - part number B82729

Individually Shielded - FEP Insulation, Flamarrest Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG stranded (7x30) tinned copper, twisted pairs
2. INSULATION: FEP
3. JACKET: Natural colored Flamarrest (low smoke PVC)
4. SHIELDING: Individual Beldfoil (100% coverage), stranded tinned copper drain wire
5. STANDARDS: Plenum rated, NEC: CMP
6. RATINGS: 300 V, 0°C to 60°C (80°C for B82723)

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Insulation Thickness	Jacket Thickness (in.)	Nominal O.D. (in.)	Nominal Capacitance (pF/ft.)
B82723	2	Red & Black, Green & White	19	0.007	0.017	0.153	43
B82777	3	See Chart 3	39	0.011	0.017	0.237	35
B82778	6	See Chart 3	71	0.011	0.017	0.314	35

Belden Colour Code Charts are available on pages P.15-11 to P.15-14 in Section 15 – Technical Information.

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Multipair Plenum Shielded

Individually Shielded - FEP Insulation and Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG stranded (7x30) tinned copper, twisted pairs
2. INSULATION: FEP
3. JACKET: Red FEP
4. SHIELDING: Individual Beldfoil (100% coverage), stranded tinned copper drain
5. STANDARDS: Plenum rated, NEC: CMP
6. RATINGS: 300 V, -70°C to 200°C

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)	Nominal Imped. (Ohms)	Nom. Vel of Prop.	Nominal Capacitance (pF/ft.)
B88723	2	Red & Black, Green & White	19	0.148	40	69%	35
B88777	3	See Chart 3	42	0.234	50	69%	31
B88778	6	See Chart 3	75	0.309	50	69%	31

Individually Shielded - FEP Insulation, Fluorocopolymer Jacket

BELDEN

SPECIFICATIONS

1. CONDUCTORS: 22 AWG stranded (7x30) tinned copper, twisted pairs
2. INSULATION: FEP
3. JACKET: Red Fluorocopolymer
4. SHIELDING: Individual Beldfoil (100%), stranded tinned copper drain
5. STANDARDS: Plenum rated, NEC: CMP
6. RATINGS: 300 V, -20°C to 150°C

Anixter No.	No. of Pairs	Color Code	Approx. Wt. lb./1,000 ft.	Nominal O.D. (in.)	Nominal Imped. (Ohms)	Nom. Vel of Prop.	Nominal Capacitance (pF/ft.)
B87723	2	Red & Black, Green & White	18	0.148	40	69%	35
B87777	3	See Chart 3	40	0.234	50	69%	31
B87778	6	See Chart 3	73	0.309	50	69%	31

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4

Power and Utility Cable

Section 4 Power and Utility Cable

Weatherproof Line Wire. P.4-3

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5 kV Power Cable Shielded Single Copper Conductor. P.4-7

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15 kV, 28 kV, 35 kV, 46 kV UD Copper Cable. P.4-11

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Telecom Cable. P.4-15

Airport Lighting Cable. P.4-16

Trolley Wire. P.4-19

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Weatherproof Line Wire

Solid or Stranded Copper Conductor, Polyethylene Insulation

SPECIFICATIONS

1. SOLID: ASTM B-1 Hard-drawn temper
   ASTM B-2 Medium-hard-drawn temper
   ASTM B-3 Soft-drawn temper
2. STRANDED: ASTM B-8 Concentric lay; all tempers
3. JACKET: Polyethylene jacket conforms to ASTM D-1248 latest edition

APPLICATIONS

Copper conductor, soft-, medium-, or hard-drawn with weatherproof polyethylene for overhead transmission of power.

Anixter No.	Conductor Size	No. of Strands	Insulation Thickness		Approx. Weight	
	AWG/kcmil		in.	mm	lb./1,000 ft.	kg/km
1R-1401	14	Solid	0.031	0.79	16	24
1R-1201	12	Solid	0.031	0.79	24	36
1R-1001	10	Solid	0.031	0.79	36	54
1R-0801	8	Solid	0.031	0.79	56	83
1R-0601	6	Solid	0.031	0.79	87	129
1R-1401	4	Solid	0.031	0.79	136	202
1R-0201	2	Solid	0.047	1.19	219	326
1R-0101	1	Solid	0.047	1.19	273	406
1R-1407	14	7	0.031	0.79	17	25
1R-1207	12	7	0.031	0.79	26	39
1R-1007	10	7	0.031	0.79	40	60
1R-0807	8	7	0.031	0.79	59	88
1R-0607	6	7	0.031	0.79	92	137
1R-0407	4	7	0.031	0.79	143	213
1R-0207	2	7	0.047	1.19	230	342
1R-0107	1	7	0.047	1.19	287	427
1R-1017	1/0	7	0.063	1.60	367	546
1R-2027	2/0	7	0.063	1.60	458	682
1R-4047	4/0	7	0.063	1.60	715	1064
1R-10119	1/0	19	0.063	1.60	367	546
1R-20219	2/0	19	0.063	1.60	458	682
1R-30319	3/0	19	0.063	1.60	572	851
1R-40419	4/0	19	0.063	1.60	715	1,064
1R-25019	250	19	0.063	1.60	835	1,242
1R-30019	300	19	0.063	1.60	996	1,482
1R-40019	350	19	0.063	1.60	1,157	1,722
1R-45019	400	19	0.078	1.98	1,334	1,985
1R-45037	450	37	0.078	1.98	1,487	2,213
1R-50019	500	19	0.078	1.98	1,638	2,437
1R-50037	500	37	0.078	1.98	1,648	2,452
1R-75061	750	61	0.093	2.36	2,487	3,701
1R-100061	1000	61	0.108	2.74	3,311	4,927

Polyethylene-covered Line Wire

Aluminum Conductor (Steel Reinforced) or All Aluminum, Polyethylene Covered

SPECIFICATIONS

1. ASTM B 230 Aluminum Wire
   ASTM B 231 Aluminum Conductors, Concentric Lay Stranded
   ASTM B 232 Aluminum Conductors, Concentric Lay Stranded Coated Steel - Reinforced (ACSR)
   ASTM B 399 Concentric Lay Stranded 6201 - T81 Aluminum Alloy Conductors

APPLICATIONS

Used primarily for overhead secondary distribution lines.
Because the covering carries no voltage rating, the conductors must be installed on insulators adequate for the intended service voltage.

Anixter No.	Code Word	Conductor Size AWG/kcmil	No. of Strands	Cover Thickness mils	Total Diameter mils	Rated Strength lb.	Approx Weight lb./1,000 ft. XLPE	PE	HD Poly
6201 ALUMINUM									
1E-0407H	Hornbeam	4	7	30	310	1,584	62	60	60
1E-0207L	Linden	2	7	45	406	2,520	104	99	100
1E-1017O	Oilnut	1/0	7	60	508	4,014	167	160	161
1E-2027W	Waterash	2/0	7	60	567	4,851	204	196	198
1E-3037S	Shellbark	3/0	7	60	622	6,111	250	242	243
1E-4047P	Planetree	4/0	7	60	683	7,704	308	298	300
ALL ALUMINUM									
1E-0601A	Apple	6	1	30	222	445	33	32	32
1E-0401P	Pear	4	1	30	264	708	49	47	48
1E-0201C	Cherry	2	1	45	348	1,103	81	79	79
1E-0607P	Plum	6	7	30	239	507	36	33	33
1E-0407A	Apricot	4	7	30	285	793	53	49	49
1E-0207P	Peach	2	7	45	373	1,215	88	81	81
1E-0107N	Nectarine	1	7	45	412	1,476	109	99	100
1E-1017Q	Quince	1/0	7	60	482	1,791	144	131	132
1E-2027O	Orange	2/0	7	60	526	2,259	175	160	161
1E-3037F	Fig	3/0	7	60	576	2,736	215	197	198
1E-4047O	Olive	4/0	7	60	632	3,447	264	242	243
1E-40419P	Pomegranate	4/0	19	60	632	3,618	255	242	243
1E-2268M	Mulberry	266.8	19	60	694	4,473	315	299	300
1E-3364A	Anona	336.4	19	60	765	5,535	387	369	371
1E-3975M	Molles	397.5	19	80	852	6,399	470	447	449
1E-4770H	Huckleberry	477.0	37	80	921	7,821	546	528	530
1E-5565PP	Paw Paw	556.5	37	80	383	8,946	628	609	611
1E-6360B	Breadfruit	636.0	61	95	1082	10,413	735	716	719
1E-7950P	Persimmon	795.0	61	95	1187	12,870	899	878	881
1E-10335G	Grapefruit	1033.5	61	95	1327	16,470	1,143	1,119	1,122
ACSR									
1E-0601W	Walnut	6	6/1	30	258	1,131	49	47	47
1E-0401B	Butternut	4	6/1	30	310	1,767	74	72	72
1E-0401H	Hickory	4	7/1	30	317	2,242	86	83	84
1E-0201P	Pignut	2	6/1	45	406	2,708	122	118	119
1E-0201B	Beech	2	6/1	45	415	3,458	141	136	137
1E-0101C	Chestnut	1	6/1	45	445	3,373	150	146	146
1E-1011A	Almond	1/0	6/1	60	518	4,161	196	190	191
1E-2021P	Pecan	2/0	6/1	60	567	5,045	241	234	235
1E-3031F	Filbert	3/0	6/1	60	622	6,289	298	289	290
1E-4041B	Buckeye	4/0	6/1	60	683	7,933	367	357	358
1E-2668H	Hackberry	266.8	18/1	60	729	6,536	365	355	355

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ACSR

Aluminum Conductor Steel Reinforced (ACSR)

SPECIFICATIONS

1. CONSTRUCTION: Compact ACSR shall comply with the applicable CSA Standard for Aluminum Conductors Steel Reinforced (ACSR)
2. STANDARDS: The 6201 alloys are manufactured to meet the requirements of ASTM B-399, latest edition

APPLICATIONS

Aluminum conductor steel reinforced (ACSR) is used for aerial transmission.

Anixter No.	Code Name	Conductor Size Circular Mils/AWG	No. of Strands AL/Steel
1H-0601T	Turkey	6	6/1
1H-0401S	Swan	4	6/1
1H-0201SP	Sparrow	2	6/1
1H-0101	Robin	1	6/1
1H-1011R	Raven	1/0	6/1
1H-2021Q	Quail	2/0	6/1
1H-3031P	Pigeon	3/0	6/1
1H-4041P	Penguin	4/0	6/1
1H-2661P	Partridge	266,800	26/7
1H-3001	Piper	300,000	30/7
1H-3001O	Ostrich	300,000	26/7
1H-3361M	Merlin	336,400	18/1
1H-3361	Oriole	336,400	30/7
1H-3361L	Linnett	336,400	26/7
1H-3971	Lark	397,500	30/7
1H-3971I	Ibis	397,500	26/7
1H-4771	Hen	477,000	30/7
1H-4771H	Hawk	477,000	26/7
1H-5001	Heron	500,000	30/7
1H-5561	Eagle	556,500	30/7
1H-5561D	Dove	556,500	26/7
1H-6051	Duck	605,000	54/7
1H-6361	Goose	636,000	54/7
1H-6361G	Grosbeak	636,000	26/7
1H-7151	Starling	715,500	26/7
1H-7151C	Crow	715,500	54/7
1H-7951C	Condor	795,000	54/7
1H-7951D	Drake	795,000	26/7
1H-8741	Crane	874,500	54/7
1H-9001	Canary	900,000	54/7
1H-9541C	Cardinal	954,000	54/7
1H-10331	Curlew	1,033,500	54/7

Neutral Supported Cable (NS75)

Type NS75, Full Size or Reduced Size Neutral, Jacketed or Nonjacketed, 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Compact aluminum conductors
2. INSULATION: Polyethylene insulated phase conductors
3. ASSEMBLY: Phase conductors cabled around one compact bare 100% ACSR neutral support conductor, or a reduced ACSR neutral support conductor
3. TEMPERATURE: 75°C
4. VOLTAGE: 600 V
3. STANDARDS: In accordance with CSA C22.2 No.129

APPLICATIONS

Service drops and self-supporting overhead secondary distribution.

Anixter No.	Conductor Size	No. of Phase Conductors	Insulation Thickness		Cable Diameter		Approx. Weight	
	AWG		in.	mm	in.	mm	lb./1,000 ft.	kg/km
TYPE NS75 NONJACKETED FULL SIZE NEUTRAL								
1FS - 0602	6	2	0.041	1.03	0.44	11.2	75	112
1FS - 0402	4	2	0.041	1.03	0.53	13.5	114	170
1FS - 0202	2	2	0.041	1.03	0.65	16.5	175	260
1FS - 0102	1	2	0.054	1.37	0.74	18.9	225	335
1FS - 1012	1/0	2	0.054	1.37	0.82	20.8	279	415
1FS - 2022	2/0	2	0.054	1.37	0.91	23.0	346	515
1FS - 3032	3/0	2	0.054	1.37	1.00	25.5	430	640
1FS - 4042	4/0	2	0.054	1.37	1.11	28.2	540	804
TYPE NS75 NONJACKETED REDUCED NEUTRAL SIZE								
1RS - 0402	4	2	0.041	1.03	0.48	12.30	92	137
1RS - 0202	2	2	0.041	1.03	0.59	14.90	140	208
1RS - 0102	1	2	0.054	1.37	0.71	18.00	201	299
1RS - 1012	1/0	2	0.054	1.37	0.74	18.90	224	333
1RS - 2022	2/0	2	0.054	1.37	0.86	21.90	308	458
1RS - 3032	3/0	2	0.054	1.37	0.91	23.10	344	512
1RS - 4042	4/0	2	0.054	1.37	1.00	25.50	428	637
TYPE NS75 JACKETED FULL SIZE NEUTRAL								
1FP - 0602	6	2	0.041	1.03	0.50	12.70	91	135
1FP - 0402	4	2	0.041	1.03	0.59	15.00	132	196
1FP - 0202	2	2	0.041	1.03	0.71	18.00	196	292
1FP - 0102	1	2	0.054	1.37	0.83	21.20	263	391
1FP - 1012	1/0	2	0.054	1.37	0.91	23.10	319	475
1FP - 2022	2/0	2	0.054	1.37	1.00	25.30	390	580
1FP - 3032	3/0	2	0.054	1.37	1.09	27.80	478	711
1FP - 4042	4/0	2	0.054	1.37	1.20	30.50	589	876
TYPE NS75 JACKETED REDUCED NEUTRAL SIZE								
1RP - 0402	4	2	0.041	1.03	0.54	13.8	110	164
1RP - 0202	2	2	0.041	1.03	0.65	16.4	161	240
1RP - 0102	1	2	0.054	1.37	0.80	20.3	238	354
1RP - 1012	1/0	2	0.054	1.37	0.83	21.2	265	394
1RP - 2022	2/0	2	0.054	1.37	0.95	24.1	352	524
1RP - 3032	3/0	2	0.054	1.37	1.00	25.3	392	583
1RP - 4042	4/0	2	0.054	1.37	1.09	27.8	480	714

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5 kV Power Cable Shielded Single Copper Conductor

TRXLPE Insulation, PVC Jacket, 90°C, 5,000 V, 133% Insulation Level, CSA

SPECIFICATIONS

1. CONDUCTOR: Class B stranded annealed copper per ASTM B-3
2. CONDUCTOR SHIELD: Extruded semiconducting thermoset
3. INSULATION: Tree Retardant Cross-Linked Polyethylene (TRXLPE)
4. INSULATION SHIELD: Extruded semiconducting thermoset
5. SHIELD: Copper tape shield
6. JACKET: Black Polyvinyl Chloride (PVC); FT1
7. TEMPERATURE: 90°C
8. VOLTAGE: 5 kV; 133% insulation level
9. STANDARDS: In accordance with CSA C68.10

APPLICATIONS

For use in power circuits up to 5 kV when installed in open air, conduit, duct, or buried direct in earth for wet and dry locations.
Used for power applications in chemical plants, refineries, steel mills, industrial plants, utility substations and generating stations.

Anixter No.	Conductor Size	No. of Strands	Insulation Thickness		Nominal O.D.		Approx. Weight	
	AWG/kcmil		in.	mm	in.	mm	lb./1,000 ft.	kg/km
133% INSULATION LEVEL								
3D-0401-TAPE-115MIL	4	7	0.115	2.92	0.70	17.79	337	501
3D-0201-TAPE-115MIL	2	7	0.115	2.92	0.74	18.86	432	643
3D-0101-TAPE-115MIL	1	19	0.115	2.92	0.77	19.65	497	740
3D-1011-TAPE-115MIL	1/0	19	0.115	2.92	0.81	20.64	582	866
3D-2021-TAPE-115MIL	2/0	19	0.115	2.92	0.85	21.65	684	1,018
3D-3031-TAPE-115MIL	3/0	19	0.115	2.92	0.94	23.89	846	1,259
3D-4041-TAPE-115MIL	4/0	19	0.115	2.92	0.99	25.21	1,006	1,497
3D-2501-TAPE-115MIL	250	37	0.115	2.92	1.05	26.61	1,151	1,713
3D-3501-TAPE-115MIL	350	37	0.115	2.92	1.14	29.04	1,505	2,240
3D-5001-TAPE-115MIL	500	37	0.115	2.92	1.28	32.45	2,041	3,037
3D-7501-TAPE-115MIL	750	61	0.115	2.92	1.52	38.52	2,944	4,380
3D-10001-TAPE-115MIL	1000	61	0.115	2.92	1.67	42.30	3,792	5,643

15 kV Power Cable Single Copper Conductor

TRXLPE Insulation, PVC Jacket, 90°C, 15,000 V, 100% or 133% Insulation Level, CSA

SPECIFICATIONS

1. CONDUCTOR: Class B stranded annealed copper per ASTM B-3
2. CONDUCTOR SHIELD: Extruded semiconducting thermoset
3. INSULATION: Tree Retardant Cross-Linked Polyethylene (TRXLPE)
4. INSULATION SHIELD: Extruded semiconducting thermoset
5. SHIELD: Copper tape shield
6. JACKET: Black Polyvinyl Chloride (PVC); FT1
7. TEMPERATURE: 90°C
8. VOLTAGE: 15 kV; 100% or 133% insulation level
9. STANDARDS: In accordance with CSA C68.10

APPLICATIONS

For use in power circuits up to 15 kV when installed in open air, conduit, duct, or buried direct in earth for wet and dry locations.
Used for power applications in chemical plants, refineries, steel mills, industrial plants, utility substations and generating stations.

Anixter No.	Conductor Size	No. of Strands	Insulation Thickness		Nominal O.D.		Approx. Weight	
	AWG/kcmil		in.	mm	in.	mm	lb./1,000 ft.	kg/km
100% INSULATION LEVEL								
3E-0201-TAPE	2	7	0.175	4.44	0.90	22.97	541	805
3E-0101-TAPE	1	19	0.175	4.44	0.94	23.76	610	907
3E-1011-TAPE	1/0	19	0.175	4.44	0.97	24.75	698	1,039
3E-2021-TAPE	2/0	19	0.175	4.44	1.01	25.77	805	1,198
3E-3031-TAPE	3/0	19	0.175	4.44	1.06	26.99	939	1,397
3E-4041-TAPE	4/0	19	0.175	4.44	1.11	28.31	1,102	1,640
3E-2501-TAPE	250	37	0.175	4.44	1.17	29.71	1,252	1,863
3E-3501-TAPE	350	37	0.175	4.44	1.28	32.50	1,628	2,423
3E-5001-TAPE	500	37	0.175	4.44	1.40	35.55	2,159	3,213
3E-7501-TAPE	750	61	0.175	4.44	1.64	41.62	3,080	4,583
3E-10001-TAPE	1000	61	0.175	4.44	1.87	47.38	4,071	6,058
133% INSULATION LEVEL								
3F-0101-TAPE	1	19	0.220	5.59	1.03	26.10	678	1,009
3F-1011-TAPE	1/0	19	0.220	5.59	1.07	27.09	769	1,145
3F-2021-TAPE	2/0	19	0.220	5.59	1.11	28.11	878	1,307
3F-3031-TAPE	3/0	19	0.220	5.59	1.15	29.32	1,014	1,509
3F-4041-TAPE	4/0	19	0.220	5.59	1.21	30.65	1,181	1,758
3F-2501-TAPE	250	37	0.220	5.59	1.26	32.04	1,334	1,985
3F-3501-TAPE	350	37	0.220	5.59	1.37	34.84	1,717	2,555
3F-5001-TAPE	500	37	0.220	5.59	1.49	37.88	2,255	3,355
3F-7501-TAPE	750	61	0.220	5.59	1.79	45.53	3,292	4,898
3F-10001-TAPE	1000	61	0.220	5.59	1.96	49.72	4,196	6,243

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Type USEB 90

Two Aluminum Conductors, XLPE Insulation, Copper Concentric Neutral, PVC Jacket, 90°C, 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Stranded aluminum conductors
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. NEUTRAL: Bare annealed copper concentric neutral over the two parallel power conductors
4. JACKET: Polyvinyl Chloride (PVC)
5. TEMPERATURE: 90°C
6. VOLTAGE: 600 V
7. STANDARDS: In accordance with CSA C22.2 No.52

APPLICATIONS

For use as underground service entrance at a maximum system voltage of 600 volts in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	No. of Strands	Insulation Thickness		Jacket Thickness		Nominal O.D.		Approx. Weight	
	AWG/kcmil		in.	mm	in.	mm	in.	mm	lb./1,000 ft.	kg/km
TWO CONDUCTOR WITH REDUCED NEUTRAL										
6CR-0402	4	7	0.045	1.14	0.080	2.03	0.59 x 0.90	14.9 x 22.8	262	390
6CR-0202	2	7	0.045	1.14	0.080	2.03	0.64 x 1.01	16.3 x 25.6	363	540
6CR-0102	1	19	0.055	1.40	0.080	2.03	0.70 x 1.12	17.7 x 28.4	444	660
6CR-1012	1/0	19	0.055	1.40	0.080	2.03	0.73 x 1.18	18.5 x 30.0	524	780
6CR-2022	2/0	19	0.055	1.40	0.080	2.03	0.77 x 1.27	19.6 x 32.2	618	920
6CR-3032	3/0	19	0.055	1.40	0.080	2.03	0.82 x 1.35	20.8 x 34.4	753	1,120
6CR-4042	4/0	19	0.055	1.40	0.080	2.03	0.90 x 1.49	22.8 x 37.8	901	1,340
6CR-2502	250	37	0.065	1.65	0.080	2.03	0.97 x 1.63	24.6 x 41.4	1,075	1,600
6CR-3502	350	37	0.065	1.65	0.110	2.79	1.16 x 1.91	29.4 x 48.6	1,512	2,250
6CR-5002	500	37	0.065	1.65	0.110	2.79	1.28 x 2.17	32.4 x 55.0	2,083	3,100

Type USEI 90

Three Aluminum Conductors, XLPE Insulation, PVC Jacket, 90°C, 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Stranded aluminum conductors
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. JACKET: Polyvinyl Chloride (PVC) over each insulated conductor
4. ASSEMBLY: Conductors cable together
5. TEMPERATURE: 90°C
6. VOLTAGE: 600 V
7. STANDARDS: In accordance with CSA C22.2 No.52

APPLICATIONS

For use as underground service entrance at a maximum system voltage of 600 volts in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	Neutral Size AWG	Insulation Wall		Jacket Wall		Nominal O.D.		Approx. Weight	
	AWG/kcmil		in.	mm	in.	mm	in.	mm	lb./1,000 ft.	kg/km
TWO-CONDUCTOR WITH 100% NEUTRAL										
6CS-0403	4	4	0.045	1.14	0.030	0.76	0.80	20.4	222	330
6CS-0203	2	2	0.045	1.14	0.030	0.76	0.93	23.5	309	460
6CS-0103	1	1	0.055	1.40	0.045	1.14	1.10	28.0	430	640
6CS-1013	1/0	1/0	0.055	1.40	0.045	1.14	1.19	30.2	511	760
6CS-2023	2/0	2/0	0.055	1.40	0.045	1.14	1.27	32.3	605	900
6CS-3033	3/0	3/0	0.055	1.40	0.045	1.14	1.37	34.9	739	1100
6CS-4043	4/0	4/0	0.055	1.40	0.045	1.14	1.49	37.9	887	1320
6CS-2503	250	250	0.065	1.65	0.065	1.65	1.71	43.5	1116	1660
6CS-3503	350	350	0.065	1.65	0.065	1.65	1.93	49.1	148	220
6CS-5003	500	500	0.065	1.65	0.065	1.65	2.19	55.6	1983	2950
TWO-CONDUCTOR WITH REDUCED INSULATED NEUTRAL										
6CS-0403R	4	6	0.045	1.14	0.030	0.76	0.77	19.6	202	300
6CS-0203R	2	4	0.045	1.14	0.030	0.76	0.89	22.5	279	415
6CS-0103R	1	3	0.055	1.40	0.045	1.14	1.04	26.3	390	580
6CS-1013R	1/0	2	0.055	1.40	0.045	1.14	1.11	28.3	444	660
6CS-2023R	2/0	1	0.055	1.40	0.045	1.14	1.22	31.0	551	820
6CS-3033R	3/0	1/0	0.055	1.40	0.045	1.14	1.32	33.5	585	870
6CS-4043R	4/0	2/0	0.055	1.40	0.045	1.14	1.43	36.3	793	1,180
6CS-2503R	250	3/0	0.065	1.65	0.065	1.65	1.62	41.1	954	1,420
6CS-3503R	350	250	0.065	1.65	0.065	1.65	1.87	47.4	1,344	2,000
6CS-5003R	500	350	0.065	1.65	0.065	1.65	2.11	53.6	1,781	2,650

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15 kV, 28 kV, 35 kV, 46 kV UD Copper Cable

Copper Conductor, TRXLPE, 100% Insulation Level, 1/3 Concentric Neutral, 90°C, CSA

SPECIFICATIONS

1. Cable consists of a thermoset (TRXLPE) insulated conductor and a copper concentric neutral conductor applied helically over the insulation shield with an overall LLDPE or PVC jacket
2. Concentric neutral has 1/3 conductivity of the central phase conductor
3. Manufactured and tested to CSA C68.5; optional sealant for stranded conductors - please contact your local Anixter sales office

APPLICATIONS

Concentric neutral cables designed primarily as three-phase feeders for underground distribution.

Anixter No.	Conductor Size	Insulation		Nominal Diameters: Over Insulation		Nominal Diameters: Over Insulation Shield		Neutral Wires: Number of Wires	Neutral Wires: Size AWG	Nominal Overall Diameter		Approx. Weight	
	AWG/kcmil	in.	mm	in.	mm	in.	mm			in.	mm	lb./1,000 ft.	kg/km
15 kV 100% COPPER - 1/3 NEUTRAL													
3LJ5-0201-1/3	2	0.175	4.45	0.67	16.92	0.74	18.80	9	16	0.95	24.22	534	795
3LJ5-0101-1/3	1	0.175	4.45	0.70	17.70	0.77	19.58	11	16	0.98	25.01	616	917
3LJ5-1011-1/3	1/0	0.175	4.45	0.74	18.69	0.81	20.57	14	16	1.02	26.00	722	1,075
3LJ5-2021-1/3	2/0	0.175	4.45	0.78	19.71	0.85	21.59	17	16	1.06	27.02	846	1,259
3LJ5-3031-1/3	3/0	0.175	4.45	0.82	20.93	0.90	22.81	21	16	1.11	28.23	1,003	1,493
3LJ5-4041-1/3	4/0	0.175	4.45	0.88	22.25	0.95	24.13	27	16	1.16	29.56	1,205	1,793
3LJ5-2501-1/3	250	0.175	4.45	0.93	23.65	1.01	25.53	21	14	1.25	31.63	1,433	2,132
3LJ5-3501-1/3	350	0.175	4.45	1.03	26.09	1.12	28.42	28	14	1.36	34.52	1,891	2,814
3LJ5-5001-1/3	500	0.175	4.45	1.15	29.13	1.24	31.47	26	12	1.51	38.42	2,608	3,881
3LJ5-7501-1/3	750	0.175	4.45	1.39	35.20	1.48	37.54	25	10	1.85	46.99	3,905	5,811
3LJ5-10001-1/3	1000	0.175	4.45	1.54	38.99	1.66	42.19	32	10	2.03	51.64	5,036	7,494
28 kV 100% COPPER - 1/3 NEUTRAL													
3NJ5-0101-1/3	1	0.280	7.11	0.91	23.19	0.99	25.07	11	16	1.20	30.50	765	1,138
3NJ5-1011-1/3	1/0	0.280	7.11	0.95	24.18	1.03	26.06	14	16	1.24	31.49	876	1,304
3NJ5-2021-1/3	2/0	0.280	7.11	0.99	25.20	1.07	27.08	17	16	1.28	32.50	1,006	1,497
3NJ5-3031-1/3	3/0	0.280	7.11	1.04	26.42	1.13	28.75	21	16	1.35	34.18	1,189	1,770
3NJ5-4041-1/3	4/0	0.280	7.11	1.09	27.74	1.18	30.07	27	16	1.40	35.50	1,399	2,082
3NJ5-2501-1/3	250	0.280	7.11	1.15	29.13	1.24	31.47	21	14	1.48	37.57	1,640	2,440
3NJ5-3501-1/3	350	0.280	7.11	1.24	31.57	1.34	33.91	28	14	1.58	40.01	2,092	3,113
3NJ5-5001-1/3	500	0.280	7.11	1.36	34.62	1.46	36.96	26	12	1.78	45.33	2,885	4,294
3NJ5-7501-1/3	750	0.280	7.11	1.60	40.69	1.73	43.89	25	10	2.10	53.34	4,223	6,284
3NJ5-10001-1/3	1000	0.280	7.11	1.75	44.48	1.88	47.68	32	10	2.25	57.12	5,329	7,930
35 kV 100% COPPER - 1/3 NEUTRAL													
3PJ5-1011-1/3	1/0	0.345	8.76	1.09	27.64	1.18	29.97	14	16	1.39	35.40	1,009	1,502
3PJ5-2021-1/3	2/0	0.345	8.76	1.13	28.65	1.22	30.99	17	16	1.43	36.41	1,143	1,701
3PJ5-3031-1/3	3/0	0.345	8.76	1.18	29.87	1.27	32.21	21	16	1.48	37.63	1,311	1,951
3PJ5-4041-1/3	4/0	0.345	8.76	1.23	31.19	1.32	33.53	27	16	1.53	38.95	1,525	2,269
3PJ5-2501-1/3	250	0.345	8.76	1.28	32.59	1.38	34.93	21	14	1.62	41.03	1,773	2,638
3PJ5-3501-1/3	350	0.345	8.76	1.38	35.03	1.47	37.36	28	14	1.77	44.89	2,288	3,605
3PJ5-5001-1/3	500	0.345	8.76	1.50	38.07	1.59	40.41	26	12	1.92	48.78	3,044	4,530
3PJ5-7501-1/3	750	0.345	8.76	1.74	44.15	1.86	47.35	25	10	2.24	56.79	4,409	6,561
3PJ5-10001-1/3	1000	0.345	8.76	1.89	47.93	2.01	51.13	32	10	2.39	60.58	5,528	8,226
46 kV 100% COPPER - 1/3 NEUTRAL													
3RJ5-4041-1/3	4/0	0.445	11.30	1.41	35.70	1.53	38.90	18	14	1.79	45.4	1,900	2,828
3RJ5-2501-1/3	250	0.445	11.30	1.46	37.00	1.58	40.20	21	14	1.84	46.8	2,200	3,274
3RJ5-3501-1/3	350	0.445	11.30	1.56	39.50	1.68	42.70	18	12	1.97	50.1	2,770	4,122
3RJ5-5001-1/3	500	0.445	11.30	1.67	42.50	1.80	45.70	26	12	2.12	53.9	3,620	5,387
3RJ5-7501-1/3	750	0.445	11.30	1.85	47.10	1.98	50.30	25	10	2.34	59.5	5,005	7,448
3RJ5-10001-1/3	1000	0.445	11.30	2.01	51.00	2.13	54.20	26	9	2.52	64.1	6,320	9,405

15 kV, 28 kV, 35 kV URD Copper Cable

Copper Conductor, TRXLPE, 100% Insulation Level, Full Concentric Neutral, 90°C, CSA

SPECIFICATIONS

1. Cable consists of a thermoset (TRXLPE) insulated conductor and a copper concentric neutral conductor applied helically over the insulation shield with an overall LLDPE or PVC jacket
2. Concentric neutral has 100% conductivity of the central phase conductor
3. Manufactured and tested to CSA C68.5; optional sealant for stranded conductors - please contact your local Anixter sales office

APPLICATIONS

Concentric neutral cables designed primarily as single-phase feeders for underground distribution.

Anixter No.	Conductor Size	Insulation		Nominal Diameters				Neutral Wires		Nominal Overall Diameter		Approx. Weight	
				Over Insulation		Over Insulation Shield		Number of Wires	Size AWG				
	AWG/kcmil	in.	mm	in.	mm	in.	mm			in.	mm	lb. /1,000 ft.	kg/km
15 kV 100% COPPER - FULL NEUTRAL													
3LJ5-0201	2	0.175	4.4	0.67	16.92	0.74	18.80	16	14	0.98	24.90	673	1,002
3LJ5-0101	1	0.175	4.4	0.70	17.70	0.77	19.58	13	12	1.04	26.53	818	1,218
3LJ5-1011	1/0	0.175	4.4	0.74	18.69	0.81	20.57	16	12	1.08	27.52	961	1,430
3LJ5-2021	2/0	0.175	4.4	0.78	19.71	0.85	21.59	20	12	1.12	28.54	1,140	1,696
3LJ5-3031	3/0	0.175	4.4	0.82	20.93	0.90	22.81	26	12	1.17	29.76	1,382	2,057
3LJ5-4041	4/0	0.175	4.4	0.88	22.25	0.95	24.13	32	12	1.22	31.08	1,655	2,463
28 kV 100% COPPER - FULL NEUTRAL													
3NJ5-0101	1	0.280	7.1	0.91	23.19	0.99	25.07	13	12	1.26	32.02	976	1,452
3NJ5-1011	1/0	0.280	7.1	0.95	24.18	1.03	26.06	16	12	1.30	33.01	1,124	1,672
3NJ5-2021	2/0	0.280	7.1	0.99	25.20	1.07	27.08	20	12	1.34	34.03	1,308	1,947
3NJ5-3031	3/0	0.280	7.1	1.04	26.42	1.13	28.75	26	12	1.41	35.70	1,578	2,349
3NJ5-4041	4/0	0.280	7.1	1.09	27.74	1.18	30.07	32	12	1.46	37.02	1,859	2,767
35 kV 100% COPPER - FULL NEUTRAL													
3PJ5-1011	1/0	0.345	8.8	1.09	27.64	1.18	29.97	16	12	1.45	36.92	1,263	1,879
3PJ5-2021	2/0	0.345	8.8	1.13	28.65	1.22	30.99	20	12	1.49	37.94	1,451	2,160
3PJ5-3031	3/0	0.345	8.8	1.18	29.87	1.27	32.21	26	12	1.54	39.16	1,705	2,538
3PJ5-4041	4/0	0.345	8.8	1.23	31.19	1.32	33.53	32	12	1.59	40.48	1,990	2,962

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15 kV, 28 kV, 35 kV, 46 kV UD Aluminum Cable

Aluminum Conductor, TRXLPE, 100% Insulation Level, 1/3 Concentric Neutral, 90°C, CSA

SPECIFICATIONS

1. Cable consists of a thermoset (TRXLPE) insulated conductor and a copper concentric neutral conductor applied helically over the insulation shield with an overall LLDPE or PVC jacket
2. Concentric neutral has 1/3 conductivity of the central phase conductor
3. Manufactured and tested to CSA C68.5; optional sealant for stranded conductors - please contact your local Anixter sales office

APPLICATIONS

Concentric neutral cables designed primarily as three-phase feeders for underground distribution.

Anixter No.	Conductor Size	Insulation		Nominal Diameters				Neutral Wires		Nominal Overall Diameter		Approx. Weight	
				Over Insulation		Over Insulation Shield		Number of Wires	Size AWG				
	AWG/kcmil	in.	mm	in.	mm	in.	mm			in.	mm	lb. /1,000 ft.	kg/km
15 kV 100% ALUMINUM - 1/3 NEUTRAL													
3QJ5-0201-1/3	2	0.175	4.45	0.67	16.92	0.74	18.80	8	16	0.95	24.22	386	575
3QJ5-0101-1/3	1	0.175	4.45	0.70	17.75	0.77	19.63	8	16	0.99	25.06	417	620
3QJ5-1011-1/3	1/0	0.175	4.45	0.74	18.69	0.81	20.57	9	16	1.02	26.00	461	686
3QJ5-2021-1/3	2/0	0.175	4.45	0.78	19.71	0.85	21.59	11	16	1.06	27.02	519	772
3QJ5-3031-1/3	3/0	0.175	4.45	0.82	20.93	0.90	22.81	14	16	1.11	28.23	595	885
3QJ5-4041-1/3	4/0	0.175	4.45	0.88	22.25	0.95	24.13	17	16	1.16	29.56	647	963
3QJ5-2501-1/3	250	0.175	4.45	0.93	23.65	1.01	25.53	21	16	1.22	30.95	782	1,164
3QJ5-3501-1/3	350	0.175	4.45	1.03	26.09	1.12	28.42	27	16	1.33	33.85	985	1,466
3QJ5-5001-1/3	500	0.175	4.45	1.15	29.16	1.24	31.50	25	14	1.48	37.60	1,309	1,948
3QJ5-7501-1/3	750	0.175	4.45	1.33	33.73	1.42	36.07	24	12	1.75	44.44	1,902	2,831
3QJ5-10001-1/3	1000	0.175	4.45	1.48	37.54	1.57	39.88	31	12	1.90	48.25	2,355	3,504
28 kV 100% ALUMINUM - 1/3 NEUTRAL													
3SJ5-0101-1/3	1	0.280	7.11	0.91	23.24	0.99	25.12	10	16	1.20	30.55	581	864
3SJ5-1011-1/3	1/0	0.280	7.11	0.95	24.18	1.03	26.06	11	16	1.24	31.49	630	937
3SJ5-2021-1/3	2/0	0.280	7.11	0.99	25.20	1.07	27.08	11	16	1.28	32.50	679	1,010
3SJ5-3031-1/3	3/0	0.280	7.11	1.04	26.42	1.13	28.75	14	16	1.35	34.18	781	1,163
3SJ5-4041-1/3	4/0	0.280	7.11	1.09	27.74	1.18	30.07	17	16	1.40	35.50	841	1,252
3SJ5-2501-1/3	250	0.280	7.11	1.15	29.13	1.24	31.47	21	16	1.45	36.90	984	1,465
3SJ5-3501-1/3	350	0.280	7.11	1.24	31.57	1.34	33.91	27	16	1.55	39.33	1,182	1,759
3SJ5-5001-1/3	500	0.280	7.11	1.36	34.65	1.46	36.98	25	14	1.75	44.51	1,580	2,351
3SJ5-7501-1/3	750	0.280	7.11	1.54	39.22	1.67	42.42	24	12	2.00	50.79	2,203	3,279
3SJ5-10001-1/3	1000	0.280	7.11	1.69	43.03	1.82	46.23	31	12	2.15	54.60	2,679	3,987
35 kV 100% ALUMINUM - 1/3 NEUTRAL													
3UJ5-1011-1/3	1/0	0.345	8.76	1.09	27.64	1.18	29.97	12	16	1.39	35.40	770	1,146
3UJ5-2021-1/3	2/0	0.345	8.76	1.13	28.65	1.22	30.99	13	16	1.43	36.41	831	1,236
3UJ5-3031-1/3	3/0	0.345	8.76	1.18	29.87	1.27	32.21	14	16	1.48	37.63	903	1,344
3UJ5-4041-1/3	4/0	0.345	8.76	1.23	31.19	1.32	33.53	17	16	1.53	38.95	968	1,440
3UJ5-2501-1/3	250	0.345	8.76	1.28	32.59	1.38	34.93	21	16	1.59	40.35	1,115	1,660
3UJ5-3501-1/3	350	0.345	8.76	1.38	35.03	1.47	37.36	27	16	1.74	44.21	1,375	2,046
3UJ5-5001-1/3	500	0.345	8.76	1.50	38.10	1.59	40.44	25	14	1.89	47.96	1,736	2,584
3UJ5-7501-1/3	750	0.345	8.76	1.68	42.67	1.81	45.87	24	12	2.14	54.24	2,381	3,543
3UJ5-10001-1/3	1000	0.345	8.76	1.83	46.48	1.96	49.68	31	12	2.29	58.05	2,870	4,271
46 kV 100% ALUMINUM - 1/3 NEUTRAL													
3WJ5-4041-1/3	4/0	0.445	11.30	1.41	35.7	1.53	38.90	11	14	1.79	45.40	1,365	2,031
3WJ5-2501-1/3	250	0.445	11.30	1.46	37.0	1.58	40.20	13	14	1.84	46.80	1,570	2,336
3WJ5-3501-1/3	350	0.445	11.30	1.56	39.5	1.68	42.70	18	14	1.94	49.20	1,850	2,753
3WJ5-5001-1/3	500	0.445	11.30	1.67	42.5	1.80	45.70	25	14	2.09	53.10	2,305	3,430
3WJ5-7501-1/3	750	0.445	11.30	1.85	47.1	1.98	50.30	24	12	2.30	58.50	3,035	4,517
3WJ5-10001-1/3	1000	0.445	11.30	2.01	51.0	2.13	54.20	20	10	2.50	63.40	3,750	5,581

15 kV, 28 kV, 35 kV URD Aluminum Cable

Aluminum Conductor, TRXLPE, 100% Insulation Level, Full Concentric Neutral, 90°C, CSA

SPECIFICATIONS

1. Cable consists of a thermoset (TRXLPE) insulated conductor and a coper concentric neutral conductor applied helically over the insulation shield with an overall LLDPE or PVC jacket
2. Concentric neutral has 100% conductivity of the central phase conductor
3. Manufactured and tested to CSA C68.5; Optional sealant for stranded conductors - please contact your local Anixter sales office

APPLICATIONS

Concentric neutral cables designed primarily as single-phase feeders for underground distribution.

Anixter No.	Conductor Size	Insulation		Nominal Diameters				Neutral Wires		Nominal Overall Diameter		Approx. Weight	
				Over Insulation		Over Insulation Shield		Number of Wires	Size AWG				
	AWG/kcmil	in.	mm	in.	mm	in.	mm			in.	mm	lb. /1,000 ft.	kg/km
15 kV 100% ALUMINUM - FULL NEUTRAL													
3QJ5-0201	2	0.175	4.45	0.67	16.92	0.74	18.80	10	14	0.98	24.90	462	687
3QJ5-0101	1	0.175	4.45	0.70	17.75	0.77	19.63	13	14	1.01	25.74	528	786
3QJ5-1011	1/0	0.175	4.45	0.74	18.69	0.81	20.57	16	14	1.05	26.68	601	895
3QJ5-2021	2/0	0.175	4.45	0.78	19.71	0.85	21.59	13	12	1.12	28.54	724	1,078
3QJ5-3031	3/0	0.175	4.45	0.82	20.93	0.90	22.81	16	12	1.17	29.76	837	1,245
3QJ5-4041	4/0	0.175	4.45	0.88	22.25	0.95	24.13	20	12	1.22	31.08	945	1,406
3QJ5-2501	250	0.175	4.45	0.93	23.65	1.01	25.53	23	12	1.28	32.48	1,122	1,669
3QJ5-3501	350	0.175	4.45	1.03	26.09	1.12	28.42	33	12	1.39	35.37	1,481	2,204
28 kV 100% ALUMINUM - FULL NEUTRAL													
3SJ5-0101	1	0.280	7.11	0.91	23.24	0.99	25.12	13	14	1.23	31.22	681	1,014
3SJ5-1011	1/0	0.280	7.11	0.95	24.18	1.03	26.06	16	14	1.27	32.16	759	1,130
3SJ5-2021	2/0	0.280	7.11	0.99	25.20	1.07	27.08	13	12	1.34	34.03	892	1,328
3SJ5-3031	3/0	0.280	7.11	1.04	26.42	1.13	28.75	16	12	1.41	35.70	1,025	1,526
3SJ5-4041	4/0	0.280	7.11	1.09	27.74	1.18	30.07	20	12	1.46	37.02	1,148	1,709
3SJ5-2501	250	0.280	7.11	1.15	29.13	1.24	31.47	23	12	1.51	38.42	1,334	1,985
3SJ5-3501	350	0.280	7.11	1.24	31.57	1.34	33.91	33	12	1.61	40.86	1,687	2,511
35 kV 100% ALUMINUM - FULL NEUTRAL													
3UJ5-1011	1/0	0.345	8.76	1.09	27.64	1.18	29.97	16	14	1.42	36.07	895	1,332
3UJ5-2021	2/0	0.345	8.76	1.13	28.65	1.22	30.99	13	12	1.49	37.94	1,036	1,541
3UJ5-3031	3/0	0.345	8.76	1.18	29.87	1.27	32.21	16	12	1.54	39.16	1,159	1,725
3UJ5-4041	4/0	0.345	8.76	1.23	31.19	1.32	33.53	20	12	1.59	40.48	1,280	1,905
3UJ5-2501	250	0.345	8.76	1.28	32.59	1.38	34.93	23	12	1.65	41.87	1,523	2,266
3UJ5-3501	350	0.345	8.76	1.38	35.03	1.47	37.36	33	12	1.80	45.74	1,888	2,810

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Telecom Cable

RHH/ST1 KS24194 L2, Non-Braided, 600 V, 105°C Dry / 60°C Wet

SPECIFICATIONS

1. CONDUCTOR: Class I modified bunched (8 and 6 AWG) or rope-bunched (4 AWG and larger) stranded tin-coated copper conforming to ASTM B-33 and UL requirements, sizes 8 AWG thru 750 kcmil
2. INSULATION: 105°C rated limited smoke, zero halogen TelcoHyde 5221 conforming to UL Standards 44, 758 Subjects 509 and CSA C22.2 No.210.2 M90, in addition, TelcoHyde 5221 complies with the requirements of Telcordia Specification GR-347-CORE, the insulation has a Limiting Oxygen Index of 35%
3. FEATURES: An opaque aluminum/polyester tape shall be applied over the conductor to facilitate stripping, limited smoke, non-halogenated insulated
4. STANDARDS: UL Listed RHH/LS and VW-1, CSA AWM and for the FT4/ST1 flame/smoke test, lead-free and silicone free, meets European RoHS directive, complies with Telcordia GR-347-CORE
5. TEMPERATURE: 105°C dry, 60°C wet
6. VOLTAGE: 600 V

APPLICATIONS

Telecommunications power cable is designed for use in 50 V circuits or less in telecommunications central offices, wireless sites, repeater stations, data centers and other UPS and power management systems.

Anixter No.	Conductor Size	Stranding (No. Wires/ Wire Diameter)	Conductor Diameter	Insul. Min. Avg. Wall	Nominal Insul. Diameter	Resistance at 20°C
	AWG/kcmil	in.	in.	mils	in.	Ohms/1,000 ft.
3BALU-0801-XX	8	41/0.0201	0.156	60	0.295	0.679
3BALU-0601-XX	6	65/0.0201	0.186	60	0.325	0.436
3BALU-0401-XX	4	105/0.0201	0.263	60	0.405	0.274
3BALU-0201-XX	2	168/0.0201	0.325	60	0.465	0.172
3BALU-0101-XX	1	224/0.0201	0.39	80	0.57	0.126
3BALU-1011-XX	1/0	266/0.0201	0.441	80	0.63	0.109
3BALU-2021-XX	2/0	342/0.0201	0.5	80	0.69	0.0868
3BALU-4041-XX	4/0	532/0.0201	0.559	80	0.75	0.0546
3BALU-3501-XX	350	855/0.0201	0.705	95	0.925	0.0334
3BALU-5001-XX	500	1,221/0.0201	0.87	95	1.1	0.0234
3BALU-7501-XX	750	1,850/0.0201	1.05	110	1.3	0.0157

Telecom Cable Colour Code

Replace the XX in the Anixter part number for the following colors:

CODE	COLOUR
02	Black
03	Red
04	Green
06	Blue
09	Gray (slate)
03TR	Red with black tracer
06TR	Blue with black tracer
09TR	Gray with black tracer

For assistance or more information, please contact your local Anixter sales office.

Telecom Cable

RHH/ST1 KS24194 L3, Cotton Braid, 600 V, 105°C Dry/60°C Wet

SPECIFICATIONS

1. CONDUCTOR: Class B stranded tin-coated copper conforming to ASTM B-8, B-33 and UL requirements, sizes 14 AWG thru 750 kcmil
2. INSULATION: 105°C rated limited smoke, zero halogen TelcoHyde 5221 conforming to UL Standards 44, 758 Subjects 509 and CSA C22.2 No.210.2 M90, in addition, TelcoHyde 5221 complies with the requirements of Telcordia Specification GR-347-CORE, the insulation has a Limiting Oxygen Index of 35%
3. FEATURES: An opaque aluminum/polyester tape shall be applied over the conductor to facilitate stripping, limited smoke, non-halogenated insulated
4. STANDARDS: UL Listed RHH/LS with cotton braid and VW-1, CSA AWM and for the FT4/ST1 flame/smoke test, lead-free and silicone free, meets European RoHS directive, complies with Telcordia GR-347-CORE
5. TEMPERATURE: 105°C dry, 60°C wet
6. VOLTAGE: 600 V

APPLICATIONS

Telecommunications power cable is designed for use in 50 V circuits or less in telecommunications central offices, wireless sites, repeater stations, data centers and other UPS and power management systems.

Anixter No.	Conductor Size AWG/kcmil	Stranding (No. Wires/Wire Diam) in.	Conductor Diameter in.	Insul. Min. Avg. Wall mils	Nominal Insul. Diameter in.	Nominal Braid Diameter in.	Resistance at 20°C Ohms/1,000 ft.
3BAL-1401-XX	14	7/0.0242	0.072	45	0.165	0.195	2.73
3BAL-1201-XX	12	7/0.0305	0.09	45	0.185	0.215	1.72
3BAL-1001-XX	10	7/0.0385	0.114	45	0.21	0.245	1.08
3BAL-0801-XX	8	7/0.0486	0.144	60	0.27	0.31	0.678
3BAL-0601-XX	6	7/0.0612	0.181	60	0.31	0.35	0.427
3BAL-0401-XX	4	7/0.0772	0.228	60	0.355	0.395	0.269
3BAL-0201-XX	2	7/0.0974	0.287	60	0.42	0.47	0.169
3BAL-1011-XX	1/0	19/0.0745	0.367	80	0.545	0.595	0.106
3BAL-2021-XX	2/0	19/0.0837	0.412	80	0.59	0.64	0.084
3BAL-4041-XX	4/0	19/0.1055	0.52	80	0.695	0.745	0.052
3BAL-3501-XX	350	37/0.0973	0.67	95	0.875	0.925	0.032
3BAL-5001-XX	500	37/0.1162	0.8	95	1.005	1.055	0.022
3BAL-7501-XX	750	61/0.1109	0.983	110	1.22	1.27	0.0148

Telecom Cable Colour Code

Replace the XX in the Anixter part number for the following colors:

CODE	COLOUR
02	Black
03	Red
04	Green
06	Blue
09	Gray (slate)
03TR	Red with black tracer
06TR	Blue with black tracer
09TR	Gray with black tracer

For assistance or more information, please contact your local Anixter sales office.

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Telecom Cable

RHH/ST1 KS24194 L4, Cotton Braid, 600 V, 105°C Dry/60°C Wet

SPECIFICATIONS

1. CONDUCTOR: Class I modified bunched (8 and 6 AWG) or rope-bunched (4 AWG and larger) stranded tin-coated copper conforming to ASTM B-33 and UL requirements, sizes 8 AWG thru 750 kcmil
2. INSULATION: 105°C rated limited smoke, zero halogen TelcoHyde 5221 conforming to UL Standards 44, 758 Subjects 509 and CSA C22.2 No.210.2 M90, in addition, TelcoHyde 5221 complies with the requirements of Telcordia Specification GR-347-CORE, the insulation has a Limiting Oxygen Index of 35%
3. FEATURES: An opaque aluminum/polyester tape shall be applied over the conductor to facilitate stripping, limited smoke, non-halogenated insulated
4. STANDARDS: UL Listed RHH/LS with cotton braid and VW-1, CSA AWM and for the FT4/ST1 flame/smoke test, lead-free and silicone free, meets European RoHS directive, complies with Telcordia GR-347-CORE
5. TEMPERATURE: 105°C dry, 60°C wet
6. VOLTAGE: 600 V

APPLICATIONS

Telecommunications power cable is designed for use in 50 V circuits or less in telecommunications central offices, wireless sites, repeater stations, data centers and other UPS and power management systems.

Anixter No.	Conductor Size AWG/kcmil	Stranding (No. Wires/Wire Diam) in.	Conductor Diameter in.	Insul. Min. Avg. Wall mils	Nominal Insul. Diameter in.	Nominal Braid Diameter in.	Resistance at 20°C Ohms/1,000 ft.
3BALI-0801-XX	8	41/0.0201	0.156	60	0.295	0.335	0.679
3BALI-0601-XX	6	65/0.0201	0.186	60	0.325	0.365	0.436
3BALI-0401-XX	4	105/0.0201	0.263	60	0.405	0.445	0.274
3BALI-0201-XX	2	168/0.0201	0.325	60	0.465	0.52	0.172
3BALI-1011-XX	1/0	266/0.0201	0.441	60	0.63	0.685	0.109
3BALI-2021-XX	2/0	342/0.0201	0.5	60	0.69	0.74	0.0868
3BALI-4041-XX	4/0	532/0.0201	0.559	60	0.775	0.81	0.0546
3BALI-3501-XX	350	855/0.0201	0.705	95	0.94	0.99	0.0334
3BALI-5001-XX	500	1,221/0.0201	0.87	95	1.1	1.15	0.0234
3BALI-7501-XX	750	1,850/0.0201	1.05	110	1.3	1.37	0.0157

Telecom Cable Colour Code

Replace the XX in the Anixter part number for the following colors:

CODE	COLOUR
02	Black
03	Red
04	Green
06	Blue
09	Gray (slate)
03TR	Red with black tracer
06TR	Blue with black tracer
09TR	Gray with black tracer

For assistance or more information, please contact your local Anixter sales office.

Airport Lighting

Single Conductor, 5,000 V, 90°C, CSA

SPECIFICATIONS

1. CONDUCTOR: Class B stranded bare copper
2. INSULATION: Extruded semiconducting layer and cross-linked polyethylene (XLPE) insulation
3. STANDARDS: In accordance with CSA C22.2 No. 179

APPLICATIONS

For use in underground installations for airport lighting in accordance with the Canadian Electrical Code.

Anixter No.	Conductor Size	No. of Strands	Semiconducting Nominal Thickness		Insulation Thickness		Nominal O.D.		Approx. Weight	
	AWG		in.	mm	in.	mm	in.	mm	lb. /1,000 ft.	kg/km
3Z-0805	8	7	0.015	0.38	0.110	2.79	0.399	10.13	96	143
3Z-0605	6	7	0.015	0.38	0.110	2.79	0.438	11.13	134	199
3Z-0405	4	7	0.015	0.38	0.110	2.79	0.485	12.32	190	283

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Trolley Wire

Trolley Wire

SPECIFICATIONS

1. CONDUCTOR: For Figure 8 and Figure 9 wire, dimensions given are nominal height of entire section and width of lower lobe. Diameters and weights may vary among manufacturers
2. STANDARDS: Copper trolley wire manufactured to ASTM B-47 and ASTM B-116 where applicable

APPLICATIONS

Used as current-carrying contact wire to supply power to mining cars, mining equipment, industrial cranes, urban transit and railroad vehicles.

Anixter No.	Conductor Size	Nominal O.D.	Area	Area Square	Approx. Wt.	Minimum Tensile Strength	Resistance at 20°C	Minimum Breaking Strength
	AWG/kcmil	in.	Circular Mils	in.	lb./1,000 ft.	lb./Sq. (in.)	Ohms/1,000 ft.	lb.
ROUND - ASTM B-47								
1AT-1011R	1/0	0.3249	105,600	0.0829	319.5	54,500	0.10110	4,518
1AT-2021R	2/0	0.3648	133,100	0.1045	402.6	52,800	0.08021	5,519
1AT-3031R	3/0	0.4096	167,800	0.1318	507.8	51,000	0.06362	6,720
1AT-4041R	4/0	0.4600	211,600	0.1662	640.5	49,000	0.05405	8,143
1AT-3001R	300	0.5477	300,000	0.2356	908.6	46,400	0.03558	10,930
GROOVED - ASTM B-47								
1AT-2021G	2/0	0.392	137,900	0.1083	417.4	50,200	0.07741	5,437
1AT-3031G	3/0	0.430	167,300	0.1314	506.4	48,500	0.06380	6,373
1AT-4041G	4/0	0.482	212,000	0.1665	641.7	46,600	0.05035	7,759
1AT-3001G	300	0.574	299,800	0.2355	907.5	44,200	0.03560	10,410
1AT-3501G	350	0.620	351,200	0.2758	1,063	42,800	0.03039	11,810
FIGURE 8 - ASTM B-116								
1AT-10118	1/0	0.420 x 0.312	105,600	0.0829	319.7	51,800	0.10110	4,296
1AT-20218	2/0	0.480 x 0.352	133,100	0.1045	402.9	50,200	0.08020	5,248
1AT-30318	3/0	0.510 x 0.400	167,800	0.1318	507.9	48,500	0.06361	6,392
1AT-40418	4/0	0.600 x 0.450	211,600	0.1662	640.5	46,600	0.05045	7,744
1AT-35018	350	0.754 x 0.570	350,100	0.2750	1,060.0	42,800	0.03049	11,770
FIGURE 9 - DEEP SECTION - ASTM B-116								
1AT-3501D	350	0.707 x 0.496	348,900	0.2740	1,056.0	42,800	0.03059	11,730
1AT-4001D	400	0.715 x 0.552	397,200	0.3120	1,202.0	41,300	0.02687	12,880

Traction Power Cable (LSZH)

Copper Conductor, EPR Insulation, LSZH XLPO Jacket, TC, FT4, ST1, 2,000 V, RW90, CSA

SPECIFICATIONS

1. CONDUCTOR: Stranded annealed (soft) bare copper
2. INSULATION: Ethylene Propylene Rubber (EPR)
3. JACKET: Low Smoke Zero Halogen XLPO; TC; FT4; ST1
5. TEMPERATURE: 90°C
6. VOLTAGE: 2,000 V
7. STANDARDS: In accordance with CSA C22.2 No.38; CSA C22.2 No.230; NFPA 130
8. NOTE: Options include tinned copper conductor, aluminum conductor and flexible stranding. Please contact your local Anixter sales office

APPLICATIONS

For use in mass transit, underground and general industry applications, and where flexibility, fire resistance and low smoke generation is a concern.

Anixter No.	Conductor Size	No. of Strands	Insulation Thickness		Diameter Over Insulation		Jacket Thickness		Nominal O.D.		Approx. Weight	
	AWG/kcmil		in.	mm	in.	mm	in.	mm	in.	mm	lb./1,000 ft.	kg/km
3BT-10119-02-2KV	1/0	19	0.090	2.29	0.557	14.1	0.045	1.14	0.647	16.4	468	696
3BT-20219-02-2KV	2/0	19	0.090	2.29	0.603	15.3	0.045	1.14	0.693	17.6	568	846
3BT-30319-02-2KV	3/0	19	0.090	2.29	0.654	16.6	0.045	1.14	0.744	18.9	693	1,031
3BT-40419-02-2KV	4/0	19	0.090	2.29	0.712	18.1	0.065	1.65	0.842	21.4	884	1,316
3BT-25037-02-2KV	250	37	0.105	2.67	0.789	20.0	0.065	1.65	0.919	23.3	1,045	1,555
3BT-35037-02-2KV	350	37	0.105	2.67	0.895	22.7	0.065	1.65	1.025	26.0	1,403	2,087
3BT-50037-02-2KV	500	37	0.105	2.67	1.027	26.1	0.065	1.65	1.157	29.4	1,930	2,872
3BT-5351332-02-2KV	535	1,332	0.120	3.05	1.10	27.94	0.065	1.65	1.30	33.02	2,495	3,712
3BT-75061-02-2KV	750	61	0.120	3.05	1.243	31.6	0.065	1.65	1.373	34.9	2,832	4,214
3BT-100061-02-2KV	1000	61	0.120	3.05	1.408	35.8	0.065	1.65	1.538	39.1	3,695	5,499
3BT-125091-02-2KV	1250	91	0.140	3.56	1.585	40.3	0.095	2.41	1.775	45.1	4,718	7,022
3BT-150091-02-2KV	1500	91	0.140	3.56	1.722	43.7	0.095	2.41	1.912	48.6	5,582	8,307
3BT-2000127-02-2KV	2000	127	0.140	3.56	1.942	49.3	0.095	2.41	2.132	54.2	7,298	10,860

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Section 5 Flexible Cords and Portable Power Cable

Jacketed Type SOOW. P.5-3

Super Vu-Tron II SOOW. P.5-4

Type STW. P.5-5

Type SJOOW P.5-6

Shielded Type SOOW. P.5-7

Type SJT. P.5-8

Type SJTW. P.5-9

Parallel Cords. P.5-10

Type HPN. P.5-11

Cordaflex (K). P.5-12

Cordaflex (SM). P.5-13

Heavy-duty Mine Control and Drill Cord. P.5-14

Single Conductor Type W. P.5-15

Multiconductor Type W. P.5-16

Type G Round. P.5-17

Type G-GC. P.5-18

SHD-GC 2 kV, 5 kV. P.5-19

SHD-GC 8 kV, 15 kV, 25 kV. P.5-20

MP-GC. P.5-21

Welding Cable. P.5-22

DLO. P.5-23

DLO (Tray Rated, FT4). P.5-24

Flexible Motor Lead. P.5-25

Type JEO (Temporary Jumper Cable). P.5-26

INDUSTRAFLEX™ PVC Flat Festoon Cable. P.5-27

Jacketed Type SOOW

SOOW, 90°C, 600 V, UL/CSA

SPECIFICATIONS

1. CONDUCTOR: Annealed stranded bare copper per ASTM B-174
2. INSULATION: Premium grade colour coded 90°C EPDM
3. COLOUR CODE: 2/C Black, White; 3/C Black, White, Green;
   4/C Black, White, Red, Green; 5/C Black, White, Red, Orange, Green
4. JACKET: Black thermoset
5. TEMPERATURE: 90°C
6. VOLTAGE: 600 V
7. STANDARDS: In accordance with CSA C22.2 No.49 and UL Subject 62

APPLICATIONS

For use as portable electrical power and portable control cable. It can be used for ground test or motor leads.
Also, it provides heavy-duty service for industrial tools, portable lights, battery chargers and equipment exposed to oils, solvents, flame and grease.

Anixter No.	No. of Conductors	No. of Strands	Jacket Thickness		Nominal O.D.		Approx. Weight	
			in.	mm	in.	mm	lb./1,000 ft.	kg/km
18 AWG STRANDED CONDUCTORS								
4AWO-1802	2	16	0.030	0.76	0.345	8.76	70	104
4AWO-1803	3	16	0.030	0.76	0.369	9.27	85	127
4AWO-1804	4	16	0.030	0.76	0.390	9.91	100	149
16 AWG STRANDED CONDUCTORS								
4AWO-1602	2	26	0.030	0.76	0.370	9.40	80	119
4AWO-1603	3	26	0.030	0.76	0.390	9.91	105	157
4AWO-1604	4	26	0.030	0.76	0.420	10.67	120	179
14 AWG STRANDED CONDUCTORS								
4AWO-1402	2	41	0.045	1.14	0.510	12.96	134	201
4AWO-1403	3	41	0.045	1.14	0.535	13.59	170	253
4AWO-1404	4	41	0.045	1.14	0.575	14.61	205	305
12 AWG STRANDED CONDUCTORS								
4AWO-1202	2	65	0.045	1.14	0.570	14.48	195	290
4AWO-1203	3	65	0.045	1.14	0.595	15.11	220	328
4AWO-1204	4	65	0.045	1.14	0.650	16.51	270	402
10 AWG STRANDED CONDUCTORS								
4AWO-1002	2	104	0.045	1.14	0.620	15.75	250	372
4AWO-1003	3	104	0.045	1.14	0.660	16.76	290	432
4AWO-1004	4	104	0.045	1.14	0.715	18.16	350	521
8 AWG STRANDED CONDUCTORS								
4AWO-0803	3	133	0.060	1.52	0.855	21.72	485	722
4AWO-0804	4	133	0.060	1.52	0.980	24.89	670	997
4AWO-0805	5	133	0.060	1.52	1.075	27.31	790	1,176
6 AWG STRANDED CONDUCTORS								
4AWO-0603	3	133	0.060	1.52	0.980	24.89	700	1,042
4AWO-0604	4	133	0.060	1.52	1.080	27.43	875	1,302
4AWO-0605	5	133	0.060	1.52	1.200	30.48	1,015	1,510
4 AWG STRANDED CONDUCTORS								
4AWO-0403	3	133	0.060	1.52	1.140	28.96	920	1,369
4AWO-0404	4	133	0.060	1.52	1.260	32.00	1,150	1,711
4AWO-0405	5	133	0.060	1.52	1.365	34.67	1,400	2,083
2 AWG STRANDED CONDUCTORS								
4AWO-0203	3	133	0.060	1.52	1.330	33.78	1,355	2,016
4AWO-0204	4	133	0.060	1.52	1.460	37.08	1,690	2,515
4AWO-0205	5	133	0.060	1.52	1.580	40.13	1,960	2,917

Super Vu-Tron II SOOW

SOOW, 105°C, 600 V, UL/CSA

SPECIFICATIONS

1. CONDUCTOR: Bare soft annealed copper per ASTM B-174 and ASTM B-172
2. INSULATION: Thermoset
3. JACKET: Super Vu-Tron II yellow
4. TEMPERATURE: 105°C
5. VOLTAGE: 600 V
6. STANDARDS: In accordance with CSA C22.2 No.49 and UL Subject 62

APPLICATIONS

For use as portable power for heavy-duty service such as tools, portable lights, battery chargers, and equipment exposed to oils, solvents, grease, moisture and weather for low- and high-temperature usage.

Anixter No.	No. of Conductors	Insulation Thickness		Nominal O.D.		Approx. Weight	
		in.	mm	in.	mm	lb./1,000 ft.	kg/km
18 AWG STRANDED CONDUCTORS							
4AX-1802-05	2	0.030	0.76	0.365	9.27	71	106
4AX-1803-05	3	0.030	0.76	0.380	9.65	82	122
4AX-1804-05	4	0.030	0.76	0.400	10.16	94	140
16 AWG STRANDED CONDUCTORS							
4AX-1602-05	2	0.030	0.76	0.370	9.40	82	122
4AX-1603-05	3	0.030	0.76	0.400	10.16	97	144
4AX-1604-05	4	0.030	0.76	0.425	10.80	111	165
4AX-1605-05	5	0.030	0.76	0.515	13.08	150	223
14 AWG STRANDED CONDUCTORS							
4AX-1402-05	2	0.045	1.14	0.520	13.21	151	210
4AX-1403-05	3	0.045	1.14	0.525	13.34	165	246
4AX-1404-05	4	0.045	1.14	0.590	14.99	186	277
12 AWG STRANDED CONDUCTORS							
4AX-1202-05	2	0.045	1.14	0.590	14.99	178	265
4AX-1203-05	3	0.045	1.14	0.615	15.62	222	330
4AX-1204-05	4	0.045	1.14	0.660	16.76	275	409
4AX-1205-05	5	0.045	1.14	0.730	18.54	315	469
10 AWG STRANDED CONDUCTORS							
4AX-1002-05	2	0.045	1.14	0.625	15.86	234	348
4AX-1003-05	3	0.045	1.14	0.680	17.27	289	430
4AX-1004-05	4	0.045	1.14	0.740	18.80	339	504
4AX-1005-05	5	0.045	1.14	0.825	20.96	432	642

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Type STW

STW, PVC Insulation, PVC Jacket, 60°C, 600 V, UL/CSA

SPECIFICATIONS

1. CONDUCTOR: Annealed stranded bare copper
2. INSULATION: Polyvinyl Chloride (PVC); Colour coded
3. JACKET: Polyvinyl Chloride (PVC)
4. TEMPERATURE: 60°C
5. VOLTAGE: 600 V
6. STANDARDS: In accordance with CSA C22.2 No.49 an UL Subject 62
7. NOTES: Other conductor counts are available. Please contact your local Anixter sales office.

APPLICATIONS

Outdoor cord suitable for wet or dry locations. For use as a power supply to portable outdoor equipment where the cord is subjected to extra hard usage such as barbecues, portable power tools, snow blowers, etc. Flame-retardant outer jacket.

Anixter No.	No. of Conductors	No. of Strands	Jacket Thickness		Nominal O.D.		Approx. Weight	
			in.	mm	in.	mm	lb./1,000 ft.	kg/km
14 AWG STRANDED CONDUCTORS								
4AV-1402	2	41	0.080	2.03	0.500	12.70	117	174
4AV-1403	3	41	0.080	2.03	0.525	13.34	141	211
4AV-1404	4	41	0.080	2.03	0.565	14.35	171	254
12 AWG STRANDED CONDUCTORS								
4AV-1202	2	65	0.095	2.41	0.570	14.48	157	234
4AV-1203	3	65	0.095	2.41	0.595	15.11	190	283
4AV-1204	4	65	0.095	2.41	0.645	16.38	236	351
10 AWG STRANDED CONDUCTORS								
4AV-1002	2	105	0.095	2.41	0.645	16.38	207	308
4AV-1003	3	105	0.095	2.41	0.685	17.40	263	391
4AV-1004	4	105	0.095	2.41	0.740	18.80	325	484
8 AWG STRANDED CONDUCTORS								
4AV-0802	2	49	0.110	2.79	0.815	20.70	333	495
4AV-0803	3	49	0.110	2.79	0.860	21.84	416	620
4AV-0804	4	49	0.125	3.18	0.965	24.51	541	805

Type SJOOW

SJOOW, 90°C, 300 V, UL/CSA

SPECIFICATIONS

1.CONDUCTOR: Annealed stranded bare copper per ASTM B-174
2. INSULATION: Premium grade colour coded 90°C EPDM
3. COLOUR CODE: 2/C Black, White; 3/C Black, White, Green; 4/C Black ,White, Red, Green
4. JACKET: Black thermoset
5. TEMPERATURE: 90°C
6. VOLTAGE: 300 V
7. STANDARDS: In accordance with CSA C22.2 No.49 and UL Subject 62

APPLICATIONS

For use as portable electrical power and portable control cable. It can be used for ground test or motor leads.
Also, it provides heavy-duty service for industrial tools, portable lights, battery chargers and equipment exposed to oils, solvents, flame and grease.

Anixter No.	No. of Conductors	No. of Strands	Insulation Thickness		Nominal O.D		Approx. Weight	
			in.	mm	in.	mm	lb./1,000 ft.	kg/km
18 AWG STRANDED CONDUCTORS								
4BBO-1802	2	16	0.030	0.76	0.285	7.24	50	74
4BBO-1803	3	16	0.030	0.76	0.305	7.75	60	89
4BBO-1804	4	16	0.030	0.76	0.330	8.38	70	104
16 AWG STRANDED CONDUCTORS								
4BBO-1602	2	26	0.030	0.76	0.310	7.87	60	89
4BBO-1603	3	26	0.030	0.76	0.330	8.38	75	112
4BBO-1604	4	26	0.030	0.76	0.365	9.27	95	141
14 AWG STRANDED CONDUCTORS								
4BBO-1402	2	41	0.030	0.76	0.340	8.64	75	112
4BBO-1403	3	41	0.030	0.76	0.365	9.27	105	156
4BBO-1404	4	41	0.030	0.76	0.415	10.54	125	186
12 AWG STRANDED CONDUCTORS								
4BBO-1202	2	65	0.030	0.76	0.410	10.41	105	156
4BBO-1203	3	65	0.030	0.76	0.430	10.92	140	208
4BBO-1204	4	65	0.030	0.76	0.475	12.07	190	283
10 AWG STRANDED CONDUCTORS								
4BBO-1002	2	104	0.045	1.14	0.560	14.22	210	313
4BBO-1003	3	104	0.045	1.14	0.580	14.73	240	357
4BBO-1004	4	104	0.045	1.14	0.655	16.64	325	484

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Shielded Type SOOW

Shielded SOOW, Rubber Insulation, Thermoset Jacket, 90°C, 600 V, UL/CSA

SPECIFICATIONS

1.CONDUCTOR: Stranded tinned annealed copper as per ASTM B-33 latest edition
2. INSULATION: Colour-coded heat resistant rubber insulation per ASTM D-754
3. CABLING: The individually insulated singles are cabled together with fillers are necessary in order to form a substantially circular cross section of the completed assembly. A Mylar tape is applies over the cabled construction.
4. CABLE SHIELDING: The cabled assembly is shielded with a tinned copper braid so as to afford a 85% shielding effect. A Mylar tape is applied over the braided assembly
5. JACKET: Oil resistant, black thermoset per ASTM D-752
6. TEMPERATURE: 90°C
7. VOLTAGE: 600 V

APPLICATIONS

For use as portable power, ground, test or motor leads. Also for heavy-duty service such as heavy tools, garage portable lights, battery chargers, portable stage lighting, and equipment exposed to oils, solvents, flame, grease. Suitable also as a portable control cable.

Anixter No.	No. of Conductors	No. of Strands	Insulation Thickness		Jacket Wall		Nominal O.D.		Approx. Weight	
			in.	mm	in.	mm	in.	mm	lb./1,000 ft.	kg/km
18 AWG STRANDED CONDUCTORS										
4DS-1802	2	16	0.030	0.76	0.060	1.52	0.375	9.53	91	135
4DS-1803	3	16	0.030	0.76	0.060	1.52	0.390	9.91	102	152
4DS-1804	4	16	0.030	0.76	0.060	1.52	0.405	10.29	122	182
4DS-1805	5	16	0.030	0.76	0.080	2.03	0.480	12.19	149	222
4DS-1806	6	16	0.030	0.76	0.080	2.03	0.495	12.57	168	250
4DS-1807	7	16	0.030	0.76	0.080	2.03	0.520	13.21	188	280
4DS-1808	8	16	0.030	0.76	0.080	2.03	0.535	13.59	210	312
4DS-1810	10	16	0.030	0.76	0.080	2.03	0.585	14.86	241	359
4DS-1812	12	16	0.030	0.76	0.095	2.41	0.615	15.62	273	406
16 AWG STRANDED CONDUCTORS										
4DS-1602	2	26	0.030	0.76	0.060	1.52	0.400	10.16	102	152
4DS-1603	3	26	0.030	0.76	0.060	1.52	0.415	10.54	122	182
4DS-1604	4	26	0.030	0.76	0.060	1.52	0.450	11.43	165	246
4DS-1605	5	26	0.030	0.76	0.080	2.03	0.530	13.46	179	266
4DS-1606	6	26	0.030	0.76	0.080	2.03	0.550	13.97	203	302
4DS-1607	7	26	0.030	0.76	0.080	2.03	0.560	14.22	227	338
4DS-1608	8	26	0.030	0.76	0.080	2.03	0.590	14.99	250	372
4DS-1610	10	26	0.030	0.76	0.080	2.03	0.660	16.76	314	467
4DS-1612	12	26	0.030	0.76	0.095	2.41	0.710	18.03	349	519
14 AWG STRANDED CONDUCTORS										
4DS-1402	2	41	0.048	1.22	0.080	2.03	0.530	13.46	168	250
4DS-1403	3	41	0.048	1.22	0.080	2.03	0.545	13.84	201	299
4DS-1404	4	41	0.048	1.22	0.080	2.03	0.590	14.99	257	382
4DS-1405	5	41	0.048	1.22	0.095	2.41	0.680	17.27	285	424
4DS-1406	6	41	0.048	1.22	0.095	2.41	0.720	18.23	287	427
12 AWG STRANDED CONDUCTORS										
4DS-1202	2	65	0.048	1.22	0.095	2.41	0.595	15.11	216	321
4DS-1203	3	65	0.048	1.22	0.095	2.41	0.625	15.88	264	393
4DS-1204	4	65	0.048	1.22	0.095	2.41	0.675	17.15	307	457
4DS-1206	6	65	0.048	1.22	0.095	2.41	0.735	18.67	417	620

Type SJT

SJT, PVC Insulation, PVC Jacket, 60°C, 300 V, UL/CSA

SPECIFICATIONS

1. CONDUCTOR: Annealed stranded bare copper
2. INSULATION: Polyvinyl Chloride (PVC); colour coded
3. JACKET: Polyvinyl Chloride (PVC)
4. TEMPERATURE: 60°C
5. VOLTAGE: 300 V
6. STANDARDS: In accordance with CSA C22.2 No.49 and UL Subject 62

APPLICATIONS

Power supply to electric mixers, floor polishers, washing machines and portable appliances where subjected to hard usage in a dry or damp location.

Anixter No.	No. of Conductors	No. of Strands	Jacket Thickness		Nominal O.D.		Approx. Weight	
			in.	mm	in.	mm	lb./1,000 ft.	kg/km
18 AWG STRANDED CONDUCTORS								
4DT-1802	2	16	0.030	0.76	0.29	7.4	48	71
4DT-1803	3	16	0.030	0.76	0.31	7.9	68	102
16 AWG STRANDED CONDUCTORS								
4DT-1602	2	26	0.030	0.76	0.32	8.1	64	95
4DT-1603	3	26	0.030	0.76	0.34	8.6	83	124
14 AWG STRANDED CONDUCTORS								
4DT-1403	3	41	0.030	0.76	0.38	9.7	86	128

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Type SJTW

SJTW, PVC Insulation, PVC Jacket, 60°C, 300 V, UL/CSA

SPECIFICATIONS

1. CONDUCTOR: Annealed stranded bare copper
2. INSULATION: Polyvinyl Chloride (PVC); colour coded
3. JACKET: Polyvinyl Chloride (PVC)
4. TEMPERATURE: 60°C
5. VOLTAGE: 300 V
6. STANDARDS: In accordance with CSA C22.2 No.49 and UL Subject 62

APPLICATIONS

Outdoor cord rated at 60°C in wet or dry locations. Power supply to portable outdoor equipment where the cord is subjected to hard usage such as barbecues, portable power tools, lawn mowers, etc.

Anixter No.	No. of Conductors	No. of Strands	Insulation Thickness		Jacket Thickness		Nominal O.D.		Approx. Weight	
			in.	mm	in.	mm	in.	mm	lb./1,000 ft.	kg/km
18 AWG STRANDED CONDUCTORS										
4LA-1802	2	16	0.030	0.76	0.030	0.76	0.29	7.2	38	56
4LA-1803	3	16	0.030	0.76	0.030	0.76	0.31	7.7	48	71
16 AWG STRANDED CONDUCTORS										
4LA-1602	2	26	0.030	0.76	0.030	0.76	0.31	7.9	70	47
4LA-1603	3	26	0.030	0.76	0.030	0.76	0.33	8.4	90	60
14 AWG STRANDED CONDUCTORS										
4LA-1402	2	41	0.030	0.76	0.030	0.76	0.34	8.6	95	64
4LA-1403	3	41	0.030	0.76	0.030	0.76	0.37	9.3	124	83

Parallel Cords

TYPE SPT-1, TYPE SPT-2: 60°C or 105°C 300 V; TYPE SPT-3: 105°C, 300 V, CSA

SPECIFICATIONS

1.CONDUCTOR: Stranded bare copper conductors
2. INSULATION: Polyvinyl Chloride (PVC)
3. CONSTRUCTION: Parallel
4. TEMPERATURE: 60°C or 105°C
5. VOLTAGE: 300 V
6. STANDARDS: In accordance with CSA C22.2 No.49

APPLICATIONS

SPT-1, SPT-2: For use on clocks, radios, TV sets, stereos, lamps, household fans and appliances not subject to hard usage.
SPT-3: For use on refrigerators, window type air conditioners and portable devices in damp places and not subject to hard usage.

Anixter No.	No. of Conductors	Conductor Size	Nominal Insulation Thickness		Nominal O.D. (in.)	Temperature Rating	Approx. Weight	
		AWG	in.	mm			lb./1,000 ft.	kg/km
SPT-1								
4KA-2002	2	20	0.31	7.87	0.101 x 0.188	60°C	15	22
4KA-1802	2	18	0.31	7.87	0.110 x 0.205	60°C	19	28
4KA-1802-105	2	18	0.31	7.87	0.110 x 0.205	105°C	19	28
SPT-2								
4KB-1802	2	18	0.45	11.43	0.135 x 0.260	60°C	30	45
4KB-1802-105	2	18	0.45	11.43	0.135 x 0.260	105°C	28	42
4KB-1602	2	16	0.45	11.43	0.145 x 0.285	60°C	39	58
4KB-1602-105	2	16	0.45	11.43	0.145 x 0.285	105°C	39	58
SPT-3								
4KC-1602-105	2	16	0.60	15.24	0.177 x 0.349	105°C	43	63
4KC-1402-105	2	14	0.80	20.32	0.240 x 0.426	105°C	69	102

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Type HPN

Type HPN, 90°C, 300 V, CSA

SPECIFICATIONS

1. Description: Bare copper conductor, Neoprene insulation, two conductors laid parallel, three conductors laid parallel with the center conductor a green covered ground wire.
2. HPN (CSM*): Bare copper conductor, Hypalon insulation, two conductors laid parallel, three conductors laid parallel with the center conductor a green covered ground wire.
3. HPN (CPE**): Bare copper conductor, CPE** insulation, two conductors laid parallel, three conductors laid parallel with the center conductor a green covered ground wire.

APPLICATIONS

For use on appliances such as coffee makers, toasters, fry pans, soldering irons and electric kettles.

* CSM (Hypalon)

** CPE (Chlorinated Polyethylene)

Anixter No.	Type	Temperature Rating	Conductor			Insulation Thickness		Approx. Weight	
			Size	Number	Type	in.	mm	lb./1,000 ft.	kg/km
4J-1802	HPN	90°C	18	2	41 x 0.0063	0.045	1.14	30	45
4J-1803	HPN	90°C	18	3	41 x 0.0063	0.045	1.14	42	63
4J-1602	HPN	90°C	16	2	65 x 0.0063	0.045	1.14	38	57
4J-1603	HPN	90°C	16	3	65 x 0.0064	0.045	1.14	55	82

Cordaflex (K)

EPR Insulation, Dual Neoprene Jacket, Braid Reinforcement, 90°C, 600 V

SPECIFICATIONS

1. CONDUCTOR: Extra flexible tinned copper
2. INSULATION: Ozone-resistant Ethylene Propylene Rubber (EPR)
3. COLOUR CODE: ICEA S-73-532 (NEMA WC57) Method 4
4. OVERALL JACKET: Heavy-duty double extruded black neoprene with a high-tenacity textile braid reinforcement
5. TEMPERATURE: -55°C to 90°C
6. VOLTAGE: 600 V
7. STANDARDS: UL Listed; VDE approved; MSHA

APPLICATIONS

Ideal for cable-handling systems such as cable reels, festoon systems or power tracks for which extended flex life is a major consideration. Cordaflex (K)'s extremely flexible conductor assembly and jacket material ensure superior cable flexlife for applications characterized by tensions and repeated bending.

BENEFITS

- Highly flexible long life conductor assembly
- Highly resistant to ozone
- Very high shield coverage (approx. 90%)
- Superior low temperature sub-zero performance
- Highly resistant to oil, flame, etc.
- Provides high torsion resistance
- Promotes long conductor life
- Power and control/data transmission through one single cable
- Good data transmission performance
- High durability under constant flexing conditions

Anixter No.	Conductor Size AWG	No. of Conductors	No. of Strands	Approx. O.D. in.	Approx. O.D. mm	Approx. Weight lb./1,000 ft.	Max Reeling Tension (lb.)
4EC-1605	16	5	45	0.602	15.29	198	30
4EC-1607	16	7	45	0.772	19.61	316	40
4EC-1612	16	12	45	0.862	21.90	413	70
4EC-1616	16	16	45	0.962	24.44	534	90
4EC-1624	16	24	45	1.165	29.59	753	140
4EC-1630	16	30	45	1.244	31.60	874	180
4EC-1636	16	36	45	1.291	32.79	974	210
4EC-1644	16	44	45	1.508	38.30	1,297	260
4EC-1404	14	4	71	0.649	16.49	215	40
4EC-1407	14	7	71	0.846	21.49	403	65
4EC-1412	14	12	71	0.980	24.89	564	110
4EC-1416	14	16	71	1.059	26.90	652	150
4EC-1424	14	24	71	1.339	34.01	1,048	220
4EC-1430	14	30	71	1.386	35.20	1,163	280
4EC-1436	14	36	71	1.500	38.10	1,398	340
4EC-1444	14	44	71	1.655	42.04	1,835	410
4EC-1204	12	4	72	0.760	19.30	306	60
4EC-1207	12	7	72	0.972	24.69	558	100
4EC-1212	12	12	72	1.110	28.19	753	180
4EC-1216	12	16	72	1.268	32.21	981	240
4EC-1218	12	18	72	1.315	33.40	1,089	271
4EC-1224	12	24	72	1.555	39.50	1,498	360
4EC-1230	12	30	72	1.610	40.89	1,666	450
4EC-1236	12	36	72	1.740	44.20	2,002	535
4EC-1244	12	44	72	1.929	49.00	2,426	655

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Cordaflex (SM)

ERP Insulation, Dual Neoprene Jacket, Braid Reinforcement, 90°C, 600 V

SPECIFICATIONS

1.CONDUCTOR: Extra flexible tinned copper
2.INSULATION: Ethylene Propylene Rubber (EPR)
3. COLOUR CODE: ICEA S-73-532 (NEMA WC57) Method 4
4. FEATURE: High-tenacity Kevlar central strenth member with a layer of EPDM insulation
5. OVERALL JACKET: Double neoproene, yellow jacket with a reinforcing textile braid in between
7. TEMPERATURE: -45°C to 90°C
8. VOLTAGE: 600 V
9. STANDARDS: UL Listed; VDE approved; MSHA

APPLICATIONS

Suited for high-speed, high-tension applications where high duty-cycles are encountered. This design is ideally suited for vertical reeling applications, tender systems and sheave guide applications. Cordaflex (SM) construction is very resistant to the high torsion and transverse forces encountered in force-guide operations.

BENEFITS

- Superior tensile force capabilities
- High durability under constant flexing conditions
- Highly flexible conductor assembly
- Highly resistant to ozone
- Resistance to sheave induced corkscrewing
- Water blocked
- High torsion resistance
- Highly resistant to oil, flame and high temperatures
- Improved vertical suspension performance
- Central messenger
- Inner jacket locked construction of conductor assembly
- Wide mesh textile braid reinforcement in a vulcanized bond
- Extra-heavy-duty yellow neoprene double extruded jacket
- Very resistant to deformation and compressive forces

Anixter No.	Conductor Size AWG	No. of Conductors	No. of Strands	Nominal O.D. in.	Nominal O.D. mm	Approx. Weight lb./1,000 ft.	Max Reeling Tension (lb.)
4EC-1607-05	16	7	45	0.772	19.6	299	60
4EC-1612-05	16	12	45	1.031	26.19	544	105
4EC-1616-05	16	16	45	0.965	24.51	514	135
4EC-1624-05	16	24	45	1.193	30.30	773	210
4EC-1630-05	16	30	45	1.374	34.90	1,021	270
4EC-1636-05	16	36	45	1.362	34.60	1,035	315
4EC-1644-05	16	44	45	1.520	38.61	1,270	390
4EC-1407-05	14	7	71	0.878	22.30	413	98
4EC-1412-05	14	12	71	1.161	29.49	716	165
4EC-1416-05	14	16	71	1.130	28.70	719	225
4EC-1424-05	14	24	71	1.346	34.19	1,048	330
4EC-1430-05	14	30	71	1.598	40.59	1,445	420
4EC-1436-05	14	36	71	1.583	40.21	1,478	510
4EC-1444-05	14	44	71	1.787	45.39	1,902	615
4EC-1204-05	12	4	72	0.776	19.71	336	90
4EC-1207-05	12	7	72	0.988	25.10	558	150
4EC-1212-05	12	12	72	1.386	35.20	1,062	270
4EC-1216-05	12	16	72	1.268	32.20	981	360
4EC-1224-05	12	24	72	1.571	39.90	1,505	540
4EC-1230-05	12	30	72	1.811	46.00	1,976	675
4EC-1236-05	12	36	72	1.823	46.30	2,070	803
4EC-1244-05	12	44	72	2.012	51.11	2,466	983

Heavy-duty Mine Control and Drill Cord

Synthetic Rubber Insulation, Thermoset Jacket, 60°C, 600 V

SPECIFICATIONS

1.CONDUCTOR: Flexible annealed coated copper
2. INSULATION: Heat and moisture resistant synthetic rubber to ICEA S-19-81 Par 7.7
3. CONSTRUCTION: Cabled round with fillers
4. JACKET: Overall nylon reinforced, heavy duty thermoset; flame resistant
5. TEMPERATURE: 60°C
6. VOLTAGE: 600 V

APPLICATIONS

A flexible heavy-duty cord for use on drills and other mining equipment. For use on circuits not exceeding 600 volts at a maximum conductor temperature at 60°C.

Anixter No.	Conductor Size	No. of Conductors	No. of Strands	Insulation Thickness		Approx. O.D.		Approx. Weight	
	AWG			in.	mm	in.	mm	lb./1,000 ft.	kg/km
5AA-1402	14	2	41	0.045	1.14	0.64	16.26	239	355
5AA-1202	12	2	65	0.045	1.14	0.68	17.27	274	407
5AA-1002	10	2	104	0.045	1.14	0.73	18.54	326	484
5AA-1403	14	3	41	0.045	1.14	0.67	17.02	263	390
5AA-1203	12	3	65	0.045	1.14	0.72	18.26	322	478
5AA-1003	10	3	104	0.045	1.14	0.80	20.32	415	616
5AA-1404	14	4	41	0.045	1.14	0.71	18.03	303	450
5AA-1204	12	4	65	0.045	1.14	0.76	19.30	365	542
5AA-1004	10	4	104	0.045	1.14	0.84	21.34	470	698
5AA-1405	14	5	41	0.045	1.14	0.78	19.81	375	557
5AA-1205	12	5	65	0.045	1.14	0.83	21.08	450	668
5AA-1005	10	5	104	0.045	1.14	0.90	22.86	535	794
5AA-1406	14	6	41	0.045	1.14	0.83	21.08	430	638
5AA-1206	12	6	65	0.045	1.14	0.89	22.61	515	765
5AA-1006	10	6	104	0.045	1.14	1.00	25.40	620	921
5AA-1407	14	7	41	0.045	1.14	0.89	22.61	483	717
5AA-1207	12	7	104	0.045	1.14	0.98	24.89	560	832
5AA-1007	10	7	65	0.045	1.14	1.07	27.18	670	995

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Single Conductor Type W

Type W, Single Conductor, 90°C Dry/75°C Wet, 2,000 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Annealed stranded bare copper; rope-lay stranding
2. INSULATION: EPDM; premium grade colour coded; 90°C
3. JACKET: 90°C thermoset; black
4. TEMPERATURE: 90°C dry/75°C wet
5. VOLTAGE: 2,000 V
6. STANDARDS: In accordance with CSA C22.2 No.96
7. FEATURES: Withstands severe environmental conditions; indent printed for easy identification; withstands exposure to oil, acid, alkalies, heat, moisture and most chemicals; rope-lay stranding; excellent impact resistance

APPLICATIONS

For use in mining applications, loaders and welders; at motor leads; in temporary power installation; in utility maintenance; and in other mobile equipment

Anixter No.	Conductor Size	No. of Strands	Insulation Thickness		Nominal O.D.		Approx. Weight	
	AWG/kcmil		in.	mm	in.	mm	lb./1,000 ft.	kg/km
SINGLE CONDUCTOR								
5B-0801C	8	133	0.060	1.52	0.454	11.53	137	204
5B-0601C	6	133	0.060	1.52	0.539	13.69	199	296
5B-0401C	4	133	0.060	1.52	0.596	15.14	267	397
5B-0301C	3	133	0.060	1.52	0.629	15.98	314	467
5B-0201C	2	133	0.060	1.52	0.666	16.62	365	543
5B-0101C	1	133	0.080	2.03	0.749	19.02	457	680
5B-1011C	1/0	259	0.080	2.03	0.796	20.22	543	808
5B-2021C	2/0	259	0.080	2.03	0.849	21.55	649	966
5B-3031C	3/0	259	0.080	2.03	0.908	23.06	781	1,162
5B-4041C	4/0	259	0.080	2.03	0.973	24.71	940	1,399
5B-2501C	250	427	0.095	2.41	1.055	26.80	1,113	1,656
5B-3501C	350	427	0.095	2.41	1.174	29.82	1,471	2,189
5B-4001C	400	427	0.095	2.41	1.228	31.19	1,641	2,442
5B-5001C	500	427	0.095	2.41	1.325	33.66	2,007	2,986

Multiconductor Type W

Type W, Multiconductor, 90°C Dry/75°C Wet, 2,000 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Annealed stranded bare copper; rope-lay stranding
2. INSULATION: EPDM; premium grade colour coded; 90°C
3. JACKET: 90°C thermoset; black
4. TEMPERATURE: 90°C dry/75°C wet
5. VOLTAGE: 2,000 V
6. STANDARDS: In accordance with CSA C22.2 No.96
5. COLOUR CODE: 2/C Black, White, 3/C Black, White, Green, 4/C Black, White, Red, Green, 5/C Black ,White, Red, Green, Orange

APPLICATIONS

Two-conductor cables - use on DC or AC single-phase systems where grounding is not required; three-conductor cables - use on three-phase AC systems where no grounding is required, or on DC systems with one conductor for grounding; four-conductor cables - use on two- or three-phase AC systems with one conductor used for grounding; five-conductor cables - use in applications where separating the system neutral from the frame ground is required.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness in.	Insulation Thickness mm	Nominal O.D. in.	Nominal O.D. mm	Approx. Weight lb./1,000 ft.	Approx. Weight kg/km
TWO CONDUCTORS								
5B-0802C	8	133	0.060	1.52	0.770	19.56	325	484
5B-0602C	6	259	0.060	1.52	0.910	23.11	470	699
5B-0402C	4	259	0.060	1.52	1.020	25.91	620	923
5B-0202C	2	259	0.060	1.52	1.210	30.73	935	1,391
5B-0102C	1	259	0.080	2.03	1.370	35.00	1,305	1,942
5B-1012C	1/0	259	0.080	2.03	1.435	36.45	1,555	2,314
5B-2022C	2/0	259	0.080	2.03	1.555	39.50	1,860	2,768
5B-3032C	3/0	259	0.080	2.03	1.670	42.42	2,230	3,318
5B-4042C	4/0	259	0.080	2.03	1.815	46.10	2,655	3,951
THREE CONDUCTORS								
5B-0803C	8	133	0.080	2.03	0.925	48.90	470	699
5B-0603C	6	259	0.080	2.03	0.995	50.67	625	930
5B-0403C	4	259	0.080	2.03	1.095	27.81	810	1,205
5B-0203C	2	259	0.080	2.03	1.285	32.64	1,190	1,771
5B-0103C	1	259	0.080	2.03	1.445	36.70	1,655	2,463
5B-1013C	1/0	259	0.080	2.03	1.555	39.50	1,965	2,924
5B-2023C	2/0	259	0.080	2.03	1.670	42.42	2,350	3,497
5B-3033C	3/0	259	0.080	2.03	1.815	46.10	2,890	4,300
5B-4043C	4/0	259	0.095	2.41	1.930	49.02	3,285	4,888
5B-2503C	250	627	0.095	2.41	2.390	60.71	5,070	7,544
5B-3503C	350	855	0.095	2.41	2.680	68.07	6,570	9,776
5B-5003C	500	1,235	0.095	2.41	3.030	76.96	8,700	12,946
FOUR CONDUCTORS								
5B-0804C	8	133	0.060	1.52	0.980	24.89	615	915
5B-0604C	6	259	0.060	1.52	1.070	27.19	800	1,190
5B-0404C	4	259	0.060	1.52	1.210	30.73	1,040	1,548
5B-0204C	2	259	0.080	2.03	1.435	36.45	1,580	2,351
5B-0104C	1	259	0.080	2.03	1.595	40.51	2,045	3,043
5B-1014C	1/0	259	0.080	2.03	1.705	43.31	2,430	3,616
5B-2024C	2/0	259	0.080	2.03	1.845	46.86	2,950	4,390
5B-3034C	3/0	259	0.080	2.03	1.965	49.91	3,430	5,104
5B-4044C	4/0	259	0.080	2.03	2.145	54.48	3,885	5,781
FIVE CONDUCTORS								
5B-0805C	8	133	0.060	1.52	1.030	26.16	650	967
5B-0605C	6	259	0.060	1.52	1.170	29.72	915	1,362
5B-0405C	4	259	0.060	1.52	1.360	34.54	1,320	1,964
5B-0205C	2	259	0.060	1.52	1.595	40.51	1,925	2,864
5B-0105C	1	259	0.080	2.03	1.820	46.23	2,675	3,980
5B-1015C	1/0	259	0.080	2.03	1.900	48.26	2,885	4,293
5B-2025C	2/0	259	0.080	2.03	2.060	52.32	3,630	5,401

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Type G Round

Type G Round, Four Conductor, 90°C Dry/75°C Wet, 2,000 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Annealed stranded bare copper
2. INSULATION: EPDM; premium grade colour coded; 90°C
3. JACKET: 90°C black
4. TEMPERATURE: 90°C dry/75°C wet
5. VOLTAGE: 2,000 V

APPLICATIONS

Heavy-duty service as power supply cable; mobile and portable electrical equipment; three and four conductors - use on three-phase AC systems where grounding is required. Excellent impact and abrasion resistance; withstand exposure to oil, acids, alkalies, heat, moisture and most chemicals; indent printed for easy identification; rope-lay stranding for maximum flex life; cable core bound for superior flexibility and toughness.

Anixter No.	Conductor Size	No. of Conductors	No. of Strands	Ground Size	Insulation Thickness		Nominal O.D.		Approx. Weight	
	AWG				in.	mm	in.	mm	lb./1,000 ft.	kg/km
5E-0804C	8	4	133	4 x 12 AWG	0.060	1.52	1.045	26.54	690	1,027
5E-0604C	6	4	259	4 x 12 AWG	0.060	1.52	1.125	28.58	880	1,309
5E-0404C	4	4	259	4 x 10 AWG	0.060	1.52	1.225	31.12	1,160	1,726
5E-0204C	2	4	259	4 x 9 AWG	0.080	2.03	1.435	36.45	1,720	2,559
5E-0104C	1	4	259	4 x 8 AWG	0.080	2.03	1.595	40.51	2,200	3,274
5E-1014C	1/0	4	259	4 x 7 AWG	0.080	2.03	1.730	43.94	2,705	4,025
5E-2024C	2/0	4	259	4 x 6 AWG	0.080	2.03	1.855	47.12	3,190	4,747
5E-3034C	3/0	4	259	4 x 5 AWG	0.080	2.03	2.040	51.82	4,005	5,959
5E-4044C	4/0	4	259	4 x 4 AWG	0.080	2.03	2.145	54.48	4,560	6,785

Type G-GC

Type G-GC, Three Conductor, 90°C Dry/75°C Wet, 2,000 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Annealed stranded bare copper; rope-lay stranding
2. INSULATION: EPDM; premium grade colour coded; 90°C
3. ASSEMBLY: Three insulated conductors, two ground conductors and one yellow ground check conductor cabled with non-hygroscopic fillers and separator
4. JACKET: Black; two-layer reinforced; FT5
5. TEMPERATURE: 90°C dry/75°C wet
6. VOLTAGE: 2,000 V
7. STANDARDS: In accordance with CSA No.96; MSHA

APPLICATIONS

Power supply for portable mining equipment such as shuttle cars, cranes, conveyors; severe working conditions requiring flexible and portable power cable.
Withstands extreme mechanical abuse; rope-lay stranding for maximum flexing life and resistance to damage from bending, twisting, and impact; embossed print for ease of identification under most circumstances.

Anixter No.	Cond. Size	No. of Conductors	No. of Strands	Ground Size	Ground Check Size	Insulation Thickness		Nominal O.D.		Approx. Weight	
	AWG/kcmil			AWG	AWG	in.	mm	in.	mm	lb./1,000 ft.	kg/km
5F-0803	8	3	133	2 x 10 AWG	10	0.060	1.52	0.965	24.51	600	893
5F-0603	6	3	259	2 x 10 AWG	10	0.060	1.52	1.020	25.91	770	1,146
5F-0403	4	3	259	2 x 8 AWG	10	0.060	1.52	1.125	28.58	1,005	1,495
5F-0203	2	3	259	2 x 7 AWG	10	0.080	2.03	1.315	33.40	1,480	2,202
5F-0103	1	3	259	2 x 6 AWG	8	0.080	2.03	1.445	36.70	1,815	2,701
5F-1013	1/0	3	259	2 x 5 AWG	8	0.080	2.03	1.570	39.88	2,205	3,281
5F-2023	2/0	3	259	2 x 4 AWG	8	0.080	2.03	1.660	42.16	2,545	3,787
5F-3033	3/0	3	259	2 x 3 AWG	8	0.080	2.03	1.810	45.97	3,230	4,806
5F-4043	4/0	3	259	2 x 2 AWG	8	0.080	2.03	1.920	48.77	3,675	5,468
5F-2503	250	3	627	2 x 2 AWG	8	0.095	2.41	2.390	60.71	6,060	9,017
5F-3503	350	3	855	2 x 1/0 AWG	8	0.095	2.41	2.680	68.07	7,400	11,011
5F-5003	500	3	1,235	2 x 2/0 AWG	8	0.095	2.41	3.030	76.96	10,100	15,029

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SHD-GC (2kV, 5kV)

Type SHD-GC, EPR Insulation, CPE Jacket, 90°C, 2 kV, 5 kV, CSA

SPECIFICATIONS

1. CONDUCTOR: Rope-stranded annealed copper
2. INSULATION: Ethylene Propylene Rubber (EPR)
3. INSULATION SHIELD: Flexible coated copper/textile braid shield over non-conducting overlapped tape
4. GROUND CONDUCTOR: Flexible stranded annealed copper (x2) in contact with copper braid shield
5. GROUND CHECK CONDUCTOR: Extra flexible stranded annealed copper with yellow insulation (EPR)
6. ASSEMBLY: Three conductors, two ground conductors, and one ground check conductor, cabled together
7. JACKET: Reinforced, two-layer, extra heavy-duty chlorinated polyethylene (CPE); FT5; -50°C to 90°C
8. COLOUR: Standard black; other colours available, please contact your local Anixter sales office
9. STANDARDS: In accordance with CSA C22.2 No.96
11. FEATURES: Excellent heat, moisture, steam, oil, chemical and radiation resistance; flexible for easy handling; resists cutting, impact, abrasion, flame and sunlight; MSHA approved

APPLICATIONS

For portable use on open-pit mining shovels, dredges, cranes, drag lines, longwall miners, continuous miners, conveyors, pumps, drills or other mobile equipment requiring medium-voltage cable capable of withstanding flexible or reeling in severe operating environments.

Anixter No.	Conductor Size	No. of Strands	Ground Cond. Size	Ground Check Size	Insulation Thickness		Jacket Thickness		Nominal O.D.		Approx. Weight
	AWG/kcmil		AWG	AWG	in.	mm	in.	mm	in.	mm	lb./1,000 ft.
2,000 V											
5SLF-0602	6	133	10	10	0.070	1.78	0.155	3.9	1.29	32.8	1,130
5SLF-0402	4	259	8	10	0.070	1.78	0.155	3.9	1.40	35.6	1,460
5SLF-0302	3	259	7	10	0.070	1.78	0.170	4.3	1.51	38.3	1,680
5SLF-0202	2	259	6	8	0.070	1.78	0.170	4.3	1.59	40.4	1,990
5SLF-0102	1	259	5	8	0.080	2.03	0.190	4.8	1.76	44.7	2,385
5SLF-1002	1/0	259	4	8	0.080	2.03	0.190	4.8	1.86	47.2	2,765
5SLF-2002	2/0	329	3	8	0.080	2.03	0.205	5.2	2.00	50.8	3,255
5SLF-3002	3/0	413	2	8	0.080	2.03	0.205	5.2	2.13	54.1	3,890
5SLF-4002	4/0	532	1	8	0.080	2.03	0.220	5.6	2.31	58.7	4,720
5SLF-2502	250	608	1/0	6	0.095	2.42	0.220	5.6	2.51	63.8	5,460
5SLF-3002	300	741	1/0	6	0.095	2.42	0.235	6.0	2.68	68.1	6,395
5SLF-3502	350	851	2/0	6	0.095	2.42	0.250	6.0	2.81	71.4	7,280
5SLF-5002	500	1,221	4/0	6	0.095	2.42	0.265	6.7	3.19	81.0	9,820
5,000 V											
5SLF-0605	6	133	10	8	0.110	2.79	0.185	4.70	1.56	39.62	1,560
5SLF-0405	4	259	8	8	0.110	2.79	0.185	4.70	1.68	42.67	1,895
5SLF-0205	2	259	6	8	0.110	2.79	0.205	5.21	1.87	47.50	2,445
5SLF-0105	1	259	5	8	0.110	2.79	0.205	5.21	1.95	49.53	2,800
5SLF-1005	1/0	259	4	8	0.110	2.79	0.220	5.59	2.08	52.83	3,230
5SLF-2005	2/0	329	3	8	0.110	2.79	0.220	5.59	2.20	55.88	3,800
5SLF-3005	3/0	413	2	8	0.110	2.79	0.235	5.97	2.32	58.93	4,475
5SLF-4005	4/0	532	1	8	0.110	2.79	0.235	5.97	2.50	63.50	5,265
5SLF-2505	250	608	1/0	6	0.120	3.05	0.250	6.35	2.69	68.33	6,105
5SLF-3005	300	741	1/0	6	0.120	3.05	0.250	6.35	2.81	71.37	6,875
5SLF-3505	350	851	2/0	6	0.120	3.05	0.265	6.73	2.95	74.93	7,795
5SLF-5005	500	1,221	4/0	6	0.120	3.05	0.280	7.11	3.31	84.07	10,415

SHD-GC (8 kV, 15 kV, 25 kV)

Type SHD-GC, EPR Insulation, CPE Jacket, 90°C, 8 kV, 15 kV, 25 kV, CSA

SPECIFICATIONS

1. CONDUCTOR: Rope-stranded annealed copper
2. INSULATION: Ethylene Propylene Rubber (EPR)
3. INSULATION SHIELD: Flexible coated copper/textile braid shield over a conducting overlapped tape
4. GROUND CONDUCTOR: Flexible stranded annealed copper (x2) in contact with copper braid shield
5. GROUND CHECK CONDUCTOR: Extra flexible stranded annealed copper with yellow insulation (EPR)
6. ASSEMBLY: Three conductors, two ground conductors, and one ground check conductor, cabled together
7. JACKET: Reinforced, two-layer, extra heavy-duty chlorinated polyethylene (CPE); FT5; -50°C to 90°C
8. COLOUR: Standard black; other colours available, please contact your local Anixter sales office
9. STANDARDS: In accordance with CSA C22.2 No.96
11. FEATURES: Excellent heat, moisture, steam, oil, chemical and radiation resistance; flexible for easy handling; resists cutting, impact, abrasion, flame and sunlight; MSHA approved

APPLICATIONS

For portable use on open-pit mining shovels, dredges, cranes, drag lines, longwall miners, continuous miners, conveyors, pumps, drills or other mobile equipment requiring medium-voltage cable capable of withstanding flexible or reeling in severe operating environments.

Anixter No.	Conductor Size	No. of Strands	Ground Cond. Size	Ground Check Size	Insulation Thickness		Jacket Thickness		Nominal O.D.		Approx. Weight
	AWG/kcmil		AWG	AWG	in.	mm	in.	mm	in.	mm	lb./1,000 ft.
8,000 V											
5SLF-0408	4	259	8	8	0.150	3.81	0.205	5.21	1.94	49.28	2,308
5SLF-0208	2	259	6	8	0.150	3.81	0.220	5.59	2.12	53.85	2,920
5SLF-0108	1	259	5	8	0.150	3.81	0.220	5.59	2.21	56.13	3,292
5SLF-1008	1/0	259	4	8	0.150	3.81	0.220	5.59	2.32	58.93	3,675
5SLF-2008	2/0	329	3	8	0.150	3.81	0.235	5.97	2.46	62.48	4,304
5SLF-3008	3/0	413	2	8	0.150	3.81	0.250	6.35	2.62	66.55	5,200
5SLF-4008	4/0	532	1	8	0.150	3.81	0.250	6.35	2.75	69.85	5,840
5SLF-2508	250	608	1/0	6	0.150	3.81	0.250	6.35	2.89	73.41	6,774
5SLF-3008	300	741	1/0	6	0.150	3.81	0.265	6.73	3.04	77.22	7,423
5SLF-3508	350	851	2/0	6	0.150	3.81	0.280	7.11	3.21	81.53	8,543
5SLF-5008	500	1,221	4/0	6	0.150	3.81	0.295	7.49	3.56	90.42	11,260
15,000 V											
5SLF-0215	2	259	6	8	0.210	5.33	0.235	5.97	2.41	61.24	3,572
5SLF-0115	1	259	5	8	0.210	5.33	0.235	5.97	2.52	64.01	4,060
5SLF-1015	1/0	259	4	8	0.210	5.33	0.250	6.35	2.64	67.06	4,495
5SLF-2015	2/0	329	3	8	0.210	5.33	0.250	6.35	2.73	69.34	5,010
5SLF-3015	3/0	413	2	8	0.210	5.33	0.265	6.73	2.90	73.66	5,995
5SLF-4015	4/0	532	1	8	0.210	5.33	0.265	6.73	3.05	77.47	6,860
5SLF-2515	250	608	1/0	6	0.210	5.3	0.265	6.73	3.10	78.74	7,492
5SLF-3515	350	851	2/0	6	0.210	5.33	0.280	7.11	3.39	85.98	8,866
5SLF-5015	500	1,221	4/0	6	0.210	5.33	0.280	7.11	3.65	92.71	11,735
25,000 V											
5SLF-0125	1	259	5	8	0.260	6.60	0.265	6.73	2.95	74.93	5,290
5SLF-1025	1/0	259	4	8	0.260	6.60	0.265	6.73	3.05	77.47	5,800
5SLF-2025	2/0	329	3	8	0.260	6.60	0.280	7.11	3.20	81.28	6,515
5SLF-3025	3/0	413	2	8	0.260	6.60	0.280	7.11	3.33	84.58	7,215
5SLF-4025	4/0	532	1	8	0.260	6.60	0.295	7.49	3.50	88.90	8,250
5SLF-2525	250	608	1/0	6	0.260	6.60	0.295	7.49	3.54	89.92	9,066
5SLF-3525	350	851	2/0	6	0.260	6.60	0.295	7.49	3.79	96.37	10,118

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MP-GC

Type MP-GC, Three Conductors, XLPE Insulation, PVC Jacket, 90°C, 8kV or 15kV 100%, FT5, CSA

SPECIFICATIONS

1. CONDUCTORS: Annealed compact bare copper per ASTM B8
2. CONDUCTOR SHIELDING: Extruded semiconducting stress control layer over the conductor
3. INSULATION: Cross-Linked Polyethylene (XLPE)
4. INSULATION SHIELD: Extruded semiconducting insulation shield; annealed copper tape
5. GROUND CHECK CONDUCTOR: Annealed copper Class B with yellow insulation
6. GROUNDING CONDUCTORS: Two bare annealed copper conductors Class B strand
7. ASSEMBLY: Three power conductors cabled together; the ground check conductor in one interstice; one grounding conductor in each of the other two interstices; suitable fillers to make a round assembly; tape, heavy-duty jacket overall
8. JACKET: Heavy-duty Polyvinyl Chloride (PVC); FT5
9. STANDARDS: In accordance with CSA C22.2 No.96.1 and ICEA S75-381

APPLICATIONS

Shielded high-voltage, power distribution cable suitable for use as connections between units of mine distribution systems at nominal AC voltages of 8 kV or 15 kV at 100% insulation level.

Anixter No.	Conductor Size	No. of Strands	Ground Cond. Size	Ground Check Size	Insulation Thickness		Jacket Thickness		Nominal O.D.		Approx. Weight	
	AWG/kcmil		AWG	AWG	in.	mm	in.	mm	in.	mm	lb./1,000 ft.	kg/km
8,000 V												
5P-0208	2	7	6	8	0.115	2.92	0.110	2.79	1.58	40.13	1774	2,640
5P-2008	2/0	19	3	8	0.115	2.92	0.140	3.56	1.88	47.75	2737	4,073
5P-4008	4/0	19	1	8	0.115	2.92	0.140	3.56	2.12	53.80	3815	5,677
5P-2508	250	37	1/0	8	0.115	2.92	0.140	3.56	2.25	57.15	4575	6,808
5P-3508	350	37	2/0	8	0.115	2.92	0.140	3.56	2.46	62.48	5872	8,738
5P-5008	500	37	4/0	8	0.115	2.92	0.140	3.56	2.75	69.85	7962	11,348
15,000 V												
5P-0215	2	7	6	8	0.175	4.46	0.140	3.56	1.95	49.53	1972	2,935
5P-2015	2/0	19	3	8	0.175	4.46	0.140	3.56	2.13	54.10	3105	4,621
5P-4015	4/0	19	1	8	0.175	4.46	0.140	3.56	2.36	59.90	4150	6,176
5P-2515	250	37	1/0	8	0.175	4.46	0.140	3.56	2.50	63.58	4997	7,436
5P-3515	350	37	2/0	8	0.175	4.46	0.140	3.56	2.75	69.85	6270	9,330
5P-5015	500	37	4/0	8	0.175	4.46	0.170	4.32	3.10	78.74	8682	12,920

Welding Cable

Welding Cable, Class K Stranding, EPDM Insulation, 90°C or 105°C, 600 V

SPECIFICATIONS

1. CONDUCTOR: Annealed stranded bare copper; Class K
2. JACKET: Premium grade 90°C EPDM
3. TEMPERATURE: 90°C or 105°C
4. VOLTAGE: 600 V
5. COLOUR: Black, Red and other colours available. Please contact your local Anixter sales office.
6. FEATURES: Good flexibility; abrasion resistant; good colour retention
7. NOTE: For welding purposes only

APPLICATIONS

Secondary voltage resistance welding leads; power supply applications not exceeding 600 volts AC.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Jacket Thickness		Nominal O.D.		Approx. Weight	
			in.	mm	in.	mm	lb./1,000 ft.	kg/km
5J-0601	6	259/30	0.070	1.78	0.380	9.65	135	201
5J-0401	4	406/30	0.070	1.78	0.400	10.16	172	256
5J-0201	2	646/30	0.070	1.78	0.465	11.81	260	387
5J-0101	1	812/30	0.070	1.78	0.495	12.57	317	472
5J-1011	1/0	1,025/30	0.090	2.29	0.560	14.22	400	595
5J-2021	2/0	1,274/30	0.090	2.29	0.615	15.62	487	725
5J-3031	3/0	1,613/30	0.110	2.79	0.670	17.02	605	900
5J-4041	4/0	2,029/30	0.110	2.79	0.750	19.05	827	1,231
5J-2501	250	2,496/30	0.125	3.18	0.830	21.08	976	1,452
5J-3501	350	3,441/30	0.125	3.18	0.960	24.38	1,338	1,991
5J-5001	500	5,054/30	0.125	3.18	1.200	30.48	1,995	2,969

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DLO (Non-Tray Rated)

Diesel Locomotive Cable, EPR Insulation, CPE Jacket, 90°C, UL RHH/RHW-2 2,000 V, CSA RW90 1,000 V

SPECIFICATIONS

1. CONDUCTOR: Annealed tinned bare copper; rope-lay stranding
2. SEPERATOR: Subject to manufacturer's design, an opaque separator may be provided between the conductor and insulation
3. INSULATION: Premium grade 90°C EPR or EPDM
4. JACKET: Chlorinated Polyethylene (CPE); black; -40°C
5. TEMPERATURE: 90°C
6. VOLTAGE: UL 2,000 V; CSA 1,000 V

APPLICATIONS

DLO is designed for use as motor and power leads where flexiblity and portability are required. DLO cables are also suitable for use in wiring wind turbines, railroad and transit cars, drilling rigs, earth moving equipment. DLO resists oils, acids, alkalies, heat, flame and UV.

Anixter No.	Conductor Size	No. of Strands	Insulation Thickness		Nominal O.D		Approx. Weight	
	AWG/kcmil		in.	mm	in.	mm	lb./1,000 ft.	kg/km
5N-1001	10	27	0.045	1.14	0.26	6.60	60	89
5N-0801	8	37	0.060	1.52	0.33	8.3/8	95	141
5N-0601	6	61	0.060	1.52	0.41	10.41	145	215
5N-0401	4	105	0.060	1.52	0.46	11.68	205	305
5N-0201	2	154	0.060	1.52	0.52	13.21	295	438
5N-0101	1	224	0.080	2.03	0.65	16.51	440	654
5N-1011	1/0	280	0.080	2.03	0.69	17.53	515	766
5N-2021	2/0	329	0.080	2.03	0.73	18.54	580	863
5N-3031	3/0	456	0.080	2.03	0.81	20.57	770	1,146
5N-4041	4/0	551	0.080	2.03	0.87	22.10	930	1,384
5N-2621	262	650	0.095	2.41	1.00	25.40	1,130	1,682
5N-3131	313	777	0.095	2.41	1.06	26.92	1,295	1,927
5N-3731	373	925	0.095	2.41	1.10	27.94	1,545	2,299
5N-4441	444	1,100	0.095	2.41	1.23	31.24	1,820	2,709
5N-5351	535	1,332	0.110	2.79	1.34	34.04	2,195	3,276
5N-6461	646	1,609	0.110	2.79	1.45	36.83	2,560	3,810
5N-7771	777	1,924	0.110	2.79	1.50	38.10	3,050	4,539

DLO (Tray Rated, FT4)

DLO, EPR Insulation, CPE Jacket, Tray Rated "TC", FT4, 90°C , 2,000 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Annealed tinned bare copper; rope-lay stranding
2. SEPERATOR: Subject to manufacturer's design, an opaque seperator may be provided between the conductor and insulation
3. INSULATION: Premium grade 90°C EPR
4. JACKET: Chlorinated Polyethylene (CPE); black; sunlight resistant; FT4; TC; -40°C
5. TEMPERATURE: 90°C
6. VOLTAGE: 2,000 V
7. STANDARDS: In accordance with CSA C22.2 No.96 and CSA C22.2 No.230
8. FEATURES: Tray Rated "TC" as per CSA C22.2 No.230 (Tray Cables); FT4; MSHA

APPLICATIONS

DLO is designed for use as motor and power leads where flexibility and portability are required. DLO cables are also suitable for use in wiring wind turbines, railroad and transit cars, drilling rigs and earth-moving equipment. DLO resists oils, acids, alkalies, heat, flame and UV. DLO sizes 1/0 AWG and larger are Tray Rated "TC" as per CSA C22.2 No. 230 and are suitable for use in raceways including cable trays in dry damp or wet locations in accordance with the Canadian Electrical Code. They are also FT4 rated and sunlight resistant.

Type DLO cables in sizes 1/0 AWG or larger shall be permitted to be used in permanent installations in cable tray provided that the cable:

(a) is approved and marked as Type TC cable;
(b) conforms with conditions of use for Type TC cable in accordance with Rule 12-2202 and as listed in Table 19 of the CEC;
(c) is terminated in connectors specifically approved for fine-strand cables

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness		Nominal O.D.		Approx. Weight	
			in.	mm	in.	mm	lb./1,000 ft.	kg/km
5N-1011-FT4	1/0	280	0.080	2.03	0.69	17.53	515	766
5N-2021-FT4	2/0	329	0.080	2.03	0.73	18.54	580	863
5N-3031-FT4	3/0	456	0.080	2.03	0.81	20.57	770	1,146
5N-4041-FT4	4/0	551	0.080	2.03	0.87	22.10	930	1,384
5N-2621-FT4	262	650	0.095	2.41	1.00	25.40	1,130	1,682
5N-3131-FT4	313	777	0.095	2.41	1.06	26.92	1,295	1,927
5N-3731-FT4	373	925	0.095	2.41	1.10	27.94	1,545	2,299
5N-4441-FT4	444	1,100	0.095	2.41	1.23	31.24	1,820	2,709
5N-5351-FT4	535	1,332	0.110	2.79	1.34	34.04	2,195	3,276
5N-6461-FT4	646	1,609	0.110	2.79	1.45	36.83	2,560	3,810
5N-7771-FT4	777	1,924	0.110	2.79	1.50	38.10	3,050	4,539
5N-9291-FT4	929	2,299	0.110	2.79	1.61	40.59	3,595	5,350
5N-1111-FT4	1111	2,745	0.125	3.18	1.75	44.45	4,250	6,325

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Flexible Motor Lead

Nonshielded, Tefzel Insulation/Jacket, 5,000 V DC, Non-CSA

SPECIFICATIONS

1. CONDUCTOR: Stranded tinned copper conductor
2. SEPERATOR: Paper
3. JACKET: Chlorosulfonated polyethylene (Hypalon)

APPLICATIONS

For use in high-voltage power applications where a high-heat-resistant, rugged extra-flexible cable is required.
Also supplies high ampacities due to high-heat resistant insulation. Inspection authorities should be consulted for suitability of use.

Anixter No.	Conductor Size	Insulation Thickness		Nominal O.D.		Approx. Weight	
	AWG	in.	mm	in.	mm	lb./1,000 ft.	kg/km
5MG-0801	8	0.150	3.81	0.480	12.19	173	257
5MG-0601	6	0.150	3.81	0.532	13.51	227	338
5MG-0401	4	0.150	3.81	0.588	14.94	296	440
5MG-0201	2	0.150	3.81	0.643	16.33	388	577
5MG-0101	1	0.150	3.81	0.700	17.78	487	725
5MG-1011	1/0	0.150	3.81	0.750	19.05	575	856
5MG-2021	2/0	0.150	3.81	0.815	20.70	697	1,037
5MG-4041	4/0	0.150	3.81	0.959	24.36	990	1,473

Type JEO (Temporary Jumper Cable)

Temporary Jumper Cable, EPR Insulation, Nonshielded, 90°C, 5/15 kV

SPECIFICATIONS

1. CONDUCTOR: Annealed uncoated copper; flexible rope strand
2. CONDUCTOR SHIELD: Nylon semiconducting tape
3. INSULATION: Heat, moisture, and ozone resistant ethylene propylene rubber (EPR) 90°C per ICEA S-96-659 (NEMA WC71) part 4

APPLICATIONS

Temporary jumper cables are intended for use as flexible power leads to bypass portions of aerial power lines. They are also used in equipment where a nonshielded flexible cable is required. Access to these cables is limited to authorized personnel.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Nominal O.D		Approx. Weight	
			in.	mm	lb./1,000 ft.	kg/km
5R-0201	2	259	0.775	19.69	420	625
5R-0101	1	259	0.820	20.83	500	744
5R-1011	1/0	259	0.865	21.97	580	863
5R-2021	2/0	259	0.920	23.37	685	1,019
5R-4041	4/0	512	0.985	25.02	950	1,414
5R-3501	350	855	1.340	34.04	1,500	2,232
5R-5001	500	1,235	1.395	35.43	2,055	3,058

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INDUSTRAFLEX™ PVC Flat Festoon Cable

Flat Festoon Cable, PVC Insulation, Yellow PVC Jacket, 105°C, 600 V

SPECIFICATIONS

1. CONDUCTOR: Extra flexible bare copper; Class K (12 AWG and larger); Class M (14 AWG and smaller)
2. INSULATION: Flame and oil resistant 105°C PVC per UL 62; ICEA "K-2" colour coded
3. ASSEMBLY: Flat parallel conductor grouping; one rip cord per group; webbing between groups
4. JACKET: Yellow flame- and oil-resistant PVC jacket.
   Also available with Black jacket, please contact your local Anixter sales office
5. TEMPERATURE: 105°C
6. SPECIFICATIONS: UL; CSA; also meet VW-1 and FT1 flame tests
7. COLOUR CODE: 1 - Black, 2 - Red, 3 - Blue, 4 - Orange, 5 - Brown, 7 - Red/Black, 8 - Blue/Black, 9 - Orange/Black, 10 - Yellow/Black, 11 - Brown/Black, 12 - Black/Red

APPLICATIONS

Flat festoon cable is used for most material-handling applications and ideal for the transmission of electrical power and control to cranes, hoists or any equipment which travels in a lateral motion.

Anixter No.	Conductor Size	No. of Conductors	Stranding	Insulation Thickness		Cable O.D.	Approx. Weight	
	AWG/kcmil			in.	mm	in.	lb./1,000 ft.	kg/km
4EF-1604-PVC-05	16	4	65/34	0.30	7.62	0.225 x 0.630	108	161
4EF-1608-PVC-05	16	8	65/34	0.30	7.62	0.225 x 1.170	194	289
4EF-1612-PVC-05	16	12	65/34	0.30	7.62	0.225 x 1.700	292	435
4EF-1404-PVC-05	14	4	105/34	0.30	7.62	0.240 x 0.690	138	205
4EF-1408-PVC-05	14	8	105/34	0.30	7.62	0.240 x 1.290	254	378
4EF-1412-PVC-05	14	12	105/34	0.30	7.62	0.240 x 1.825	380	566
4EF-1204-PVC-05	12	4	65/30	0.30	7.62	0.260 x 0.800	180	268
4EF-1208-PVC-05	12	8	65/30	0.30	7.62	0.260 x 1.440	343	510
4EF-1004-PVC-05	10	4	105/30	0.30	7.62	0 .290 x 0.890	239	356
4EF-0804-PVC-05	8	4	168/30	0.45	11.43	0.375 x 1.225	401	597
4EF-0604-PVC-05	6	4	259/30	0.60	15.24	0.435 x 1.490	620	923
4EF-0404-PVC-05	4	4	413/30	0.60	15.24	0.515 x 1.750	896	1,333
4EF-0204-PVC-05	2	4	665/30	0.60	15.24	0.575 x 1.975	1,444	2,150

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6

Control and Tray Cable

Section 6 Control and Tray Cable

CSA Multiconductor Tray Cable 600 V P.6-3

CSA Multiconductor Tray Cable 1,000 V. P.6-5

300 V Multipair Tray Cable (O/A Shield). P.6-7

300 V Multipair Tray Cable (I/O Shield). P.6-8

300 V Multitriad Tray Cable (O/A Shield). P.6-9

300 V Multitriad Tray Cable (I/O Shield). P.6-10

Traffic Signal/Control Cable. P.6-11

CSA Multiconductor Tray Cable 600 V

XLPE Insulation, PVC Jacket, Tray Rated "TC", 90°C, 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Class B stranded bare copper
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. BONDING CONDUCTOR: Bare ground conductor
4. TAPE: Mylar tape over cable assembly
5. JACKET: PVC; FT4; sunlight resistant; black; TC; -40°C
6. TEMPERATURE: 90°C
7. VOLTAGE: 600 V
8. STANDARDS: In accordance with CSA C22.2 No. 239 and CSA C22.2 No. 230

APPLICATIONS

For use in raceways including ventilated, nonventilated and ladder-type cable trays in wet or dry locations and where exposed to weather.

Anixter No.	No. of Conductors	Bonding Wire Size	Insulation Thickness		Nominal O.D.		Approx. Weight	
		AWG	in.	mm	in.	mm	lb./1,000 ft.	kg/km
14 AWG								
2TD-1402	2	14	0.030	0.76	0.367	9.32	74	110
2TD-1403	3	14	0.030	0.76	0.388	9.86	93	139
2TD-1404	4	14	0.030	0.76	0.422	10.72	114	169
2TD-1405	5	14	0.030	0.76	0.461	11.71	139	206
2TD-1406	6	14	0.030	0.76	0.502	12.75	156	232
2TD-1407	7	14	0.030	0.76	0.502	12.75	174	259
2TD-1408	8	14	0.030	0.76	0.574	14.58	210	312
2TD-1410	10	14	0.030	0.76	0.657	16.69	255	379
2TD-1412	12	14	0.030	0.76	0.689	17.50	294	437
2TD-1415	15	14	0.030	0.76	0.742	18.85	353	525
2TD-1420	20	14	0.030	0.76	0.827	21.01	452	672
2TD-1425	25	14	0.030	0.76	0.979	24.87	587	873
2TD-1430	30	14	0.030	0.76	1.034	26.26	684	1,017
2TD-1440	40	14	0.030	0.76	1.151	29.24	879	1,308
2TD-1450	50	14	0.030	0.76	1.267	32.18	1,075	1,599
12 AWG								
2TE-1202	2	14	0.030	0.76	0.407	10.34	94	140
2TE-1203	3	14	0.030	0.76	0.432	10.97	122	182
2TE-1204	4	14	0.030	0.76	0.471	11.96	152	226
2TE-1205	5	14	0.030	0.76	0.516	13.11	182	271
2TE-1206	6	14	0.030	0.76	0.593	15.06	228	339
2TE-1207	7	14	0.030	0.76	0.593	15.06	254	378
2TE-1208	8	14	0.030	0.76	0.641	16.28	286	425
2TE-1210	10	14	0.030	0.76	0.736	18.69	349	520
2TE-1212	12	14	0.030	0.76	0.773	19.63	406	604
2TE-1215	15	14	0.030	0.76	0.874	22.20	522	777
2TE-1220	20	14	0.030	0.76	0.972	24.69	668	994
2TE-1225	25	14	0.030	0.76	1.100	27.94	819	1,219
2TE-1230	30	14	0.030	0.76	1.164	29.57	961	1,430
2TE-1240	40	14	0.030	0.76	1.297	32.94	1,245	1,852
2TE-1250	50	14	0.030	0.76	1.431	36.35	1,529	2,275

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CSA Multiconductor Tray Cable 600 V (Continued)

XLPE Insulation, PVC Jacket, Tray Rated "TC", 90°C, 600 V, CSA

Anixter No.	No. of Conductors	Bonding Wire Size	Insulation Thickness		Nominal O.D.		Approx. Weight	
		AWG	in.	mm	in.	mm	lb./1,000 ft.	kg/km
10 AWG								
2TF-1002	2	12	0.030	0.76	0.456	11.58	132	197
2TF-1003	3	12	0.030	0.76	0.484	12.29	174	259
2TF-1004	4	12	0.030	0.76	0.560	14.22	232	345
2TF-1005	5	12	0.030	0.76	0.612	15.54	277	412
2TF-1006	6	12	0.030	0.76	0.666	16.92	323	480
2TF-1007	7	12	0.030	0.76	0.666	16.92	362	539
2TF-1008	8	12	0.030	0.76	0.721	18.31	408	607
2TF-1010	10	12	0.030	0.76	0.871	22.12	530	788
2TF-1012	12	12	0.030	0.76	0.915	23.24	615	915
2TF-1015	15	12	0.030	0.76	0.985	25.02	745	1,108
2TF-1020	20	12	0.030	0.76	1.098	27.89	960	1,428
2TF-1025	25	12	0.030	0.76	1.245	31.62	1,180	1,756
2TF-1030	30	12	0.030	0.76	1.319	33.50	1,389	2,067
2TF-1040	40	12	0.030	0.76	1.474	37.44	1,809	2,692
2TF-1050	50	12	0.030	0.76	1.628	41.35	2,230	3,318

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CSA Multiconductor Tray Cable 1,000 V

XLPE Insulation, PVC Jacket, Tray Rated "TC", 90°C, 1,000 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Class B stranded bare copper
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. BONDING CONDUCTOR: Bare ground conductor
4. TAPE: Mylar tape over cable assembly
5. JACKET: PVC; FT4; sunlight resistant; black; TC; -40°C
6. TEMPERATURE: 90°C
7. VOLTAGE: 1,000 V
8. STANDARDS: In accordance with CSA C22.2 No. 239 and CSA C22.2 No. 230

APPLICATIONS

For use in raceways including ventilated, nonventilated and ladder-type cable trays in wet or dry locations and where exposed to weather.

Anixter No.	No. of Conductors	Bonding Wire Size	Insulation Thickness		Nominal O.D		Approx. Weight	
		AWG	in.	mm	in.	mm	lb./1,000 ft.	kg/km
14 AWG								
2TJ-1402	2	14	0.045	1.14	0.425	10.80	86	128
2TK-1403	3	14	0.045	1.14	0.456	11.58	110	163
2TL-1404	4	14	0.045	1.14	0.498	12.65	134	200
12 AWG								
2TJ-1202	2	14	0.045	1.14	0.468	11.89	108	160
2TK-1203	3	14	0.045	1.14	0.497	12.62	140	208
2TL-1204	4	14	0.045	1.14	0.574	14.58	189	281
10 AWG								
2TJ-1002	2	12	0.045	1.14	0.516	13.11	147	218
2TK-1003	3	12	0.045	1.14	0.580	14.73	208	309
2TL-1004	4	12	0.045	1.14	0.633	16.08	258	384
8 AWG								
2TJ-0802	2	10	0.045	1.14	0.609	15.47	222	330
2TK-0803	3	10	0.045	1.14	0.648	16.46	292	434
2TL-0804	4	10	0.045	1.14	0.708	17.98	364	542
6 AWG								
2TJ-0602	2	8	0.060	1.52	0.746	18.95	336	500
2TK-0603	3	8	0.060	1.52	0.796	20.22	447	665
2TL-0604	4	8	0.060	1.52	0.914	23.22	593	882
4 AWG								
2TJ-0402	2	6	0.060	1.52	0.886	22.50	484	720
2TK-0403	3	6	0.060	1.52	0.943	23.95	652	970
2TL-0404	4	6	0.060	1.52	1.033	26.24	824	1,226
2 AWG								
2TJ-0202	2	6	0.060	1.52	0.958	24.33	706	1,050
2TK-0203	3	6	0.060	1.52	1.022	25.96	965	1,436
2TL-0204	4	6	0.060	1.52	1.121	28.47	1,229	1,829
1 AWG								
2TJ-0102	2	6	0.080	2.03	1.104	28.04	869	1,293
2TK-0103	3	6	0.080	2.03	1.179	29.95	1,200	1,786
2TL-0104	4	6	0.080	2.03	1.296	32.92	1,538	2,289

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CSA Multiconductor Tray Cable 1,000 V (Continued)

XLPE Insulation, PVC Jacket, Tray Rated "TC", 90°C, 1,000 V, CSA

Anixter No.	No. of Conductors	Bonding Wire Size	Insulation Thickness		Nominal O.D		Approx. Weight	
		AWG	in.	mm	in.	mm	lb./1,000 ft.	kg/km
1/0 AWG								
2TJ-1012	2	6	0.080	2.03	1.179	29.95	1,032	1,536
2TK-1013	3	6	0.080	2.03	1.260	32.00	1,440	2,143
2TL-1014	4	6	0.080	2.03	1.386	35.20	1,856	2,762
2/0 AWG								
2TJ-2022	2	6	0.080	2.03	1.261	32.03	1,229	1,829
2TK-2023	3	6	0.080	2.03	1.349	34.26	1,730	2,574
2TL-2024	4	6	0.080	2.03	1.486	37.74	2,239	3,332
3/0 AWG								
2TJ-3032	2	4	0.080	2.03	1.356	34.44	1,530	2,277
2TK-3033	3	4	0.080	2.03	1.452	36.88	2,153	3,203
2TL-3034	4	4	0.080	2.03	1.600	40.64	2,784	4,142
4/0 AWG								
2TJ-4042	2	4	0.080	2.03	1.463	37.16	1,845	2,745
2TK-4043	3	4	0.080	2.03	1.567	39.80	2,617	3,894
2TL-4044	4	4	0.080	2.03	1.790	45.47	3,492	5,195
250 kcmil								
2TK-2503	3	4	0.110	2.79	1.78	45.18	3,243	4,826
2TL-2504	4	4	0.110	2.79	1.96	49.75	4,183	6,224
350 kcmil								
2TK-3503	3	3	0.110	2.79	1.98	50.25	4,329	6,442
2TL-3504	4	3	0.110	2.79	2.20	55.84	5,612	8,351
500 kcmil								
2TK-5003	3	3	0.110	2.79	2.25	57.11	5,940	8,838
2TL-5004	4	3	0.110	2.79	2.49	63.20	7,713	11,477
750 kcmil								
2TK-7503	3	2	0.110	2.79	2.84	72.08	8,733	12,995

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300 V Multipair Tray Cable (O/A Shield)

Multipair, PVC or XLPE Insulation, Overall Shield, PVC Jacket, Tray Rated "TC", 90°C, 300 V, CSA

SPECIFICATIONS

1. CONDUCTORS: Class B stranded tinned copper
2. INSULATION: Polyvinyl Chloride (PVC) or Cross-Linked Polyethylene (XLPE)
3. CONFIGURATION: Twisted pair
4. SHIELDING: Overall aluminum/polyester with drain wire
5. JACKET: Polyvinyl Chloride (PVC); FT4; nylon rip cord included; TC; -40°C
6. TEMPERATURE: PVC 75°C dry/75°C wet; XLPE 105°C dry/90°C wet
7. VOLTAGE: 300 V
8. STANDARDS: In accordance with CSA C22.2 No.239 and CSA C22.2 No.230
9. COLOUR CODE: Black/White and number coded

APPLICATIONS

For use in raceways including ventilated, nonventilated and ladder-type cable trays in wet or dry locations and where exposed to weather.
Also approved for Class 1, Division 2 hazardous locations in accordance with the Canadian Electrical Code.

No. of Pairs	Anixter No.	Anixter No.	Insulation Thickness		Nominal O.D.		Approx. Weight	
	PVC Insulation	XLPE Insulation	in.	mm	in.	mm	lb. / 1,000 ft.	kg/km
20 AWG								
1 Pair	326-521-2001	326-721-2001	0.020	0.51	0.250	6.34	29	42
2 Pair	326-521-2002	326-721-2002	0.020	0.51	0.291	7.38	46	68
4 Pair	326-521-2004	326-721-2004	0.020	0.51	0.441	11.19	83	123
6 Pair	326-521-2006	326-721-2006	0.020	0.51	0.555	14.09	127	189
8 Pair	326-521-2008	326-721-2008	0.020	0.51	0.599	15.21	157	233
12 Pair	326-521-2012	326-721-2012	0.020	0.51	0.720	18.28	219	325
16 Pair	326-521-2016	326-721-2016	0.020	0.51	0.796	20.21	276	410
24 Pair	326-521-2024	326-721-2024	0.020	0.51	0.993	25.21	424	630
36 Pair	326-521-2036	326-721-2036	0.020	0.51	1.162	29.52	596	886
18 AWG								
1 Pair	326-521-1801	326-721-1801	0.020	0.51	0.289	7.33	38	57
2 Pair	326-521-1802	326-721-1802	0.020	0.51	0.338	8.59	62	92
4 Pair	326-521-1804	326-721-1804	0.020	0.51	0.541	13.74	125	187
6 Pair	326-521-1806	326-721-1806	0.020	0.51	0.642	16.30	172	256
8 Pair	326-521-1808	326-721-1808	0.020	0.51	0.695	17.66	215	319
12 Pair	326-521-1812	326-721-1812	0.020	0.51	0.879	22.34	332	493
16 Pair	326-521-1816	326-721-1816	0.020	0.51	0.972	24.69	418	622
24 Pair	326-521-1824	326-721-1824	0.020	0.51	1.162	29.52	592	881
36 Pair	326-521-1836	326-721-1836	0.020	0.51	1.366	34.70	840	1,250
16 AWG								
1 Pair	326-521-1601	326-721-1601	0.020	0.51	0.308	7.83	46	68
2 Pair	326-521-1602	326-721-1602	0.020	0.51	0.362	9.19	78	116
4 Pair	326-521-1604	326-721-1604	0.020	0.51	0.590	14.98	159	236
6 Pair	326-521-1606	326-721-1606	0.020	0.51	0.703	17.86	221	329
8 Pair	326-521-1608	326-721-1608	0.020	0.51	0.762	19.37	277	413
12 Pair	326-521-1612	326-721-1612	0.020	0.51	0.964	24.49	428	636
16 Pair	326-521-1616	326-721-1616	0.020	0.51	1.068	27.12	542	807
24 Pair	326-521-1624	326-721-1624	0.020	0.51	1.280	32.52	773	1,151
36 Pair	326-521-1636	326-721-1636	0.020	0.51	1.507	38.29	1,107	1,647

300 V Multipair Tray Cable (I/O Shield)

Multipair, PVC or XLPE Insulation, Individual and Overall Shield, PVC Jacket, Tray Rated "TC", 90°C, 300 V, CSA

SPECIFICATIONS

1. CONDUCTORS: Class B stranded tinned copper
2. INSULATION: Polyvinyl Chloride (PVC) or Cross-Linked Polyethylene (XLPE)
3. CONFIGURATION: Twisted pair
4. SHIELDING: Individual and overall aluminum/polyester with drain wire
5. JACKET: Polyvinyl Chloride (PVC); FT4; nylon rip cord included; TC; -40°C
6. TEMPERATURE: PVC 75°C dry/75°C wet; XLPE 105°C dry/90°C wet
7. VOLTAGE: 300 V
8. STANDARDS: In accordance with CSA C22.2 No.239 and CSA C22.2 No.230
9. COLOUR CODE: Black/White and number coded

APPLICATIONS

For use in raceways including ventilated, nonventilated and ladder-type cable trays in wet or dry locations and where exposed to weather. Also approved for Class 1, Division 2 hazardous locations in accordance with the Canadian Electrical Code.

No. of Pairs	Anixter No.	Anixter No.	Insulation Thickness		Nominal O.D.		Approx. Weight	
	PVC Insulation	XLPE Insulation	in.	mm	in.	mm	lb. /1,000 ft.	kg/km
20 AWG								
1 Pair	326-531-2001	326-731-2001	0.020	0.51	0.256	6.50	30	45
2 Pair	326-531-2002	326-731-2002	0.020	0.51	0.298	7.57	48	71
4 Pair	326-531-2004	326-731-2004	0.020	0.51	0.452	11.48	87	129
6 Pair	326-531-2006	326-731-2006	0.020	0.51	0.569	14.45	134	199
8 Pair	326-531-2008	326-731-2008	0.020	0.51	0.614	15.60	165	246
12 Pair	326-531-2012	326-731-2012	0.020	0.51	0.738	18.75	230	342
16 Pair	326-531-2016	326-731-2016	0.020	0.51	0.816	20.73	290	432
24 Pair	326-531-2024	326-731-2024	0.020	0.51	1.018	25.86	446	664
36 Pair	326-531-2036	326-731-2036	0.020	0.51	1.192	30.28	627	933
18 AWG								
2 Pair	326-531-1801	326-731-1801	0.025	0.64	0.296	7.52	40	60
2 Pair	326-531-1802	326-731-1802	0.025	0.64	0.347	8.81	65	97
4 Pair	326-531-1804	326-731-1804	0.025	0.64	0.555	14.10	132	196
6 Pair	326-531-1806	326-731-1806	0.025	0.64	0.658	16.71	181	269
8 Pair	326-531-1808	326-731-1808	0.025	0.64	0.713	18.11	226	336
12 Pair	326-531-1812	326-731-1812	0.025	0.64	0.902	22.91	349	519
16 Pair	326-531-1816	326-731-1816	0.025	0.64	0.997	25.32	440	655
24 Pair	326-531-1824	326-731-1824	0.025	0.64	1.192	30.28	623	927
36 Pair	326-531-1836	326-731-1836	0.025	0.64	1.401	35.59	884	1,315
16 AWG								
1 Pair	326-531-1601	326-731-1601	0.025	0.64	0.316	8.03	48	71
2 Pair	326-531-1602	326-731-1602	0.025	0.64	0.371	9.42	82	122
4 Pair	326-531-1604	326-731-1604	0.025	0.64	0.605	15.37	167	248
6 Pair	326-531-1606	326-731-1606	0.025	0.64	0.721	18.31	233	347
8 Pair	326-531-1608	326-731-1608	0.025	0.64	0.782	19.86	292	434
12 Pair	326-531-1612	326-731-1612	0.025	0.64	0.989	25.12	450	670
16 Pair	326-531-1616	326-731-1616	0.025	0.64	1.095	27.81	571	850
24 Pair	326-531-1624	326-731-1624	0.025	0.64	1.313	33.35	814	1,211
36 Pair	326-531-1636	326-731-1636	0.025	0.64	1.546	39.27	1,165	1,734

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300 V Multitriad Tray Cables (O/A Shield)

Multitriad, PVC or XLPE Insulation, Overall Shield, PVC Jacket, Tray Rated "TC", 90°C, 300 V, CSA

SPECIFICATIONS

1. CONDUCTORS: Class B stranded tinned copper
2. INSULATION: Polyvinyl Chloride (PVC) or Cross-Linked Polyethylene (XLPE)
3. CONFIGURATION: Twisted triad
4. SHIELDING: Overall aluminum/polyester with drain wire
5. JACKET: Polyvinyl Chloride (PVC); FT4; nylon rip cord included; TC; -40°C
6. TEMPERATURE: PVC 75°C dry/75°C wet; XLPE 105°C dry/90°C wet
7. VOLTAGE: 300 V
8. STANDARDS: In accordance with CSA C22.2 No.239 and CSA C22.2 No.230
9. COLOUR CODE: Black/White/Red and number coded

APPLICATIONS

For use in raceways including ventilated, nonventilated and ladder-type cable trays in wet or dry locations and where exposed to weather. Also approved for Class 1, Division 2 hazardous locations in accordance with the Canadian Electrical Code.

No. of Triads	Anixter No.	Anixter No.	Insulation Thickness		Nominal O.D.		Approx. Weight	
	PVC Insulation	XLPE Insulation	in.	mm	in.	mm	lb. /1,000 ft.	kg/km
20 AWG								
1 Triad	326-561-2001	326-761-2001	0.020	0.51	0.262	6.66	34	51
2 Triad	326-561-2002	326-761-2002	0.020	0.51	0.410	10.40	66	98
4 Triad	326-561-2004	326-761-2004	0.020	0.51	0.474	12.04	105	157
6 Triad	326-561-2006	326-761-2006	0.020	0.51	0.595	15.11	162	242
8 Triad	326-561-2008	326-761-2008	0.020	0.51	0.644	16.34	201	300
12 Triad	326-561-2012	326-761-2012	0.020	0.51	0.775	19.69	285	424
16 Triad	326-561-2016	326-761-2016	0.020	0.51	0.899	22.83	394	587
24 Triad	326-561-2024	326-761-2024	0.020	0.51	1.072	27.22	558	830
18 AWG								
1 Triad	326-561-1801	326-761-1801	0.025	0.64	0.304	7.73	48	72
2 Triad	326-561-1802	326-761-1802	0.025	0.64	0.487	12.36	89	133
4 Triad	326-561-1804	326-761-1804	0.025	0.64	0.596	15.13	162	242
6 Triad	326-561-1806	326-761-1806	0.025	0.64	0.710	18.03	228	339
8 Triad	326-561-1808	326-761-1808	0.025	0.64	0.770	19.56	287	427
12 Triad	326-561-1812	326-761-1812	0.025	0.64	0.974	24.74	443	659
16 Triad	326-561-1816	326-761-1816	0.025	0.64	1.079	27.41	562	837
24 Triad	326-561-1824	326-761-1824	0.025	0.64	1.294	32.86	805	1,197
16 AWG								
1 Triad	326-561-1601	326-761-1601	0.025	0.64	0.326	8.27	57	85
2 Triad	326-561-1602	326-761-1602	0.025	0.64	0.554	14.07	126	188
4 Triad	326-561-1604	326-761-1604	0.025	0.64	0.642	16.30	207	308
6 Triad	326-561-1606	326-761-1606	0.025	0.64	0.767	19.49	293	435
8 Triad	326-561-1608	326-761-1608	0.025	0.64	0.873	22.16	401	597
12 Triad	326-561-1612	326-761-1612	0.025	0.64	1.054	26.77	570	848
16 Triad	326-561-1616	326-761-1616	0.025	0.64	1.169	29.69	731	1,087
24 Triad	326-561-1624	326-761-1624	0.025	0.64	1.406	35.71	1,053	1,566

300 V Multitriad Tray Cable (I/O Shield)

Multitriad, PVC or XLPE Insulation, Individual and Overall Shield, PVC Jacket, Tray Rated "TC", 90°C, 300 V, CSA

SPECIFICATIONS

1. CONDUCTORS: Class B stranded tinned copper
2. INSULATION: Polyvinyl Chloride (PVC) or Cross-Linked Polyethylene (XLPE)
3. CONFIGURATION: Twisted triad
4. SHIELDING: Individual and overall aluminum/polyester with drain wire
5. JACKET: Polyvinyl Chloride (PVC); FT4; nylon rip cord included; TC; -40°C
6. TEMPERATURE: PVC 75°C dry/75°C wet; XLPE 105°C dry/90°C wet
7. VOLTAGE: 300 V
8. STANDARDS: In accordance with CSA C22.2 No.239 and CSA C22.2 No.230
9. COLOUR CODE: Black/White/Red and number coded

APPLICATIONS

For use in raceways including ventilated, nonventilated and ladder-type cable trays in wet or dry locations and where exposed to weather. Also approved for Class 1, Division 2 hazardous locations in accordance with the Canadian Electrical Code.

No. of Triads	Anixter No.	Anixter No.	Insulation Thickness		Nominal O.D.		Approx. Weight	
	PVC Insulation	XLPE Insulation	in.	mm	in.	mm	lb. /1,000 ft.	kg/km
20 AWG								
1 Triad	326-571-2001	326-771-2001	0.020	0.51	0.269	6.83	36	54
2 Triad	326-571-2002	326-771-2002	0.020	0.51	0.420	10.67	69	103
4 Triad	326-571-2004	326-771-2004	0.020	0.51	0.486	12.34	111	165
6 Triad	326-571-2006	326-771-2006	0.020	0.51	0.610	15.49	171	254
8 Triad	326-571-2008	326-771-2008	0.020	0.51	0.660	16.76	212	315
12 Triad	326-571-2012	326-771-2012	0.020	0.51	0.795	20.19	300	446
16 Triad	326-571-2016	326-771-2016	0.020	0.51	0.922	23.42	415	618
24 Triad	326-571-2024	326-771-2024	0.020	0.51	1.099	27.91	587	873
18 AWG								
1 Triad	326-571-1801	326-771-1801	0.025	0.64	0.312	7.92	51	76
2 Triad	326-571-1802	326-771-1802	0.025	0.64	0.499	12.67	94	140
4 Triad	326-571-1804	326-771-1804	0.025	0.64	0.611	15.52	171	254
6 Triad	326-571-1806	326-771-1806	0.025	0.64	0.728	18.49	240	357
8 Triad	326-571-1808	326-771-1808	0.025	0.64	0.790	20.07	302	449
12 Triad	326-571-1812	326-771-1812	0.025	0.64	0.999	25.37	466	693
16 Triad	326-571-1816	326-771-1816	0.025	0.64	1.107	28.12	592	881
24 Triad	326-571-1824	326-771-1824	0.025	0.64	1.327	33.71	847	1,260
16 AWG								
1 Triad	326-571-1601	326-771-1601	0.025	0.64	0.334	8.48	60	89
2 Triad	326-571-1602	326-771-1602	0.025	0.64	0.568	14.43	133	198
4 Triad	326-571-1604	326-771-1604	0.025	0.64	0.658	16.71	218	324
6 Triad	326-571-1606	326-771-1606	0.025	0.64	0.787	19.99	308	458
8 Triad	326-571-1608	326-771-1608	0.025	0.64	0.895	22.73	422	628
12 Triad	326-571-1612	326-771-1612	0.025	0.64	1.081	27.46	600	893
16 Triad	326-571-1616	326-771-1616	0.025	0.64	1.199	30.45	769	1,144
24 Triad	326-571-1624	326-771-1624	0.025	0.64	1.442	36.63	1,108	1,649

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Traffic Signal/Control Cable

IMSA 19-1-C Solid, Aerial/Duct, Polyethylene Insulation, PVC Jacket, 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Bare solid annealed copper
2. INSULATION: Before application to the conductors is a heat-stabilized polyethylene, conforming to the melt index requirements of ASTM D-1248, 65T, Class B, Grade 4. After application to the conductors the insulation meets all requirements of 1984 IMSA Specification No 19-1 when tested in accordance with ASTM D-1351, latest edition, and D-470, latest edition
3. CONSTRUCTION: The insulated conductors are laid up in compact cable form, and bound with a spiral wrap of moisture-resistant tape applied to lap at least 10 percent of its width
4. JACKET: Polyvinyl Chloride (PVC) meeting the requirements of 1984 IMSA Specification No 19-1 when tested in accordance with ASTM D-1047, latest edition
5. TEMPERATURE: 75°C
6. VOLTAGE: 600 V
7. STANDARDS: In accordance with CSA C22.2 No.239 and meets or exceeds IMSA Specification No. 19-1

APPLICATIONS

For use in signal systems in underground conduit, or as aerial cable supported by a messenger.

Anixter No.	No. of Conductors	Insulation Thickness		Jacket Thickness		Nominal O.D.		Approx. Weight	
		in.	mm	in.	mm	in.	mm	lb./1,000 ft.	kg/km
14 AWG SOLID CONDUCTORS									
2D-1402-CC	2	0.025	0.63	0.045	1.14	0.325	8.26	62	92
2D-1403-CC	3	0.025	0.63	0.045	1.14	0.342	8.69	74	110
2D-1404-CC	4	0.025	0.63	0.045	1.14	0.372	9.45	93	138
2D-1405-CC	5	0.025	0.63	0.045	1.14	0.406	10.31	114	169
2D-1407-CC	7	0.025	0.63	0.045	1.14	0.440	11.18	146	217
2D-1409-CC	9	0.025	0.63	0.045	1.14	0.511	12.98	188	279
2D-1410-CC	10	0.025	0.63	0.060	1.52	0.586	14.88	221	328
2D-1412-CC	12	0.025	0.63	0.060	1.52	0.603	15.31	255	379
2D-1416-CC	16	0.025	0.63	0.060	1.52	0.667	16.94	328	487
2D-1419-CC	19	0.025	0.63	0.060	1.52	0.701	17.81	377	560
2D-1420-CC	20	0.025	0.63	0.060	1.52	0.737	18.72	398	591
2D-1424-CC	24	0.025	0.63	0.060	1.52	0.823	20.90	470	698
2D-1430-CC	30	0.025	0.63	0.080	2.03	0.911	23.14	605	898
2D-1437-CC	37	0.025	0.63	0.080	2.03	0.979	24.87	727	1,079
12 AWG SOLID CONDUCTORS									
2D-1202-CC	2	0.030	0.76	0.045	1.14	0.382	9.70	89	132
2D-1203-CC	3	0.030	0.76	0.045	1.14	0.398	10.11	107	159
2D-1204-CC	4	0.030	0.76	0.045	1.14	0.439	11.15	135	200
2D-1205-CC	5	0.030	0.76	0.045	1.14	0.480	12.19	168	249
2D-1207-CC	7	0.030	0.76	0.060	1.52	0.555	14.10	232	344
2D-1209-CC	9	0.030	0.76	0.060	1.52	0.640	16.26	297	441
2D-1210-CC	10	0.030	0.76	0.060	1.52	0.699	17.75	324	481
2D-1212-CC	12	0.030	0.76	0.060	1.52	0.711	18.06	377	560
2D-1216-CC	16	0.030	0.76	0.060	1.52	0.793	20.14	490	728
2D-1219-CC	19	0.030	0.76	0.080	2.03	0.882	22.40	598	888
2D-1220-CC	20	0.030	0.76	0.080	2.03	0.922	23.42	630	935
2D-1224-CC	24	0.030	0.76	0.080	2.03	1.025	26.04	745	1,106
2D-1230-CC	30	0.030	0.76	0.080	2.03	1.084	27.53	904	1,342
2D-1237-CC	37	0.030	0.76	0.080	2.03	1.168	29.67	1,091	1,626

Traffic Signal/Control Cable

IMSA 19-1 Stranded, Aerial/Duct, Polyethylene Insulation, PVC Jacket, 600 V

SPECIFICATIONS

1. CONDUCTOR: Bare stranded annealed copper
2. INSULATION: Before application to the conductors is a heat-stabilized polyethylene, conforming to the melt index requirements of ASTM D-1248, 65T, Class B, Grade 4. After application to the conductors the insulation meets all requirements of 1984 IMSA Specification No 19-1 when tested in accordance with ASTM D-1351, latest edition, and D-470, latest edition
3. CONSTRUCTION: The insulated conductors are laid up in compact cable form, and bound with a spiral wrap of moisture-resistant tape applied to lap at least 10 percent of its width
4. JACKET: Polyvinyl Chloride (PVC) meeting the requirements of 1984 IMSA Specification No 19-1 when tested in accordance with ASTM D-1047, latest edition
5. TEMPERATURE: 75°C
4. VOLTAGE: 600 V
6. STANDARDS: The cable is manufactured to meet or exceed IMSA Specification No. 19-1

APPLICATIONS

For use in signal systems in underground conduit, or as aerial cable supported by a messenger.

Anixter No.	No. of Conductors	Insulation Thickness		Jacket Thickness		Nominal O.D.		Approx. Weight	
		in.	mm	in.	mm	in.	mm	lb./1,000 ft.	kg/km
14 AWG STRANDED CONDUCTORS									
2E-1402	2	0.025	0.63	0.045	1.14	0.341	8.66	67	99
2E-1403	3	0.025	0.63	0.045	1.14	0.357	9.07	79	117
2E-1404	4	0.025	0.63	0.045	1.14	0.389	9.89	99	147
2E-1405	5	0.025	0.63	0.045	1.14	0.420	10.67	122	181
2E-1407	7	0.025	0.63	0.045	1.14	0.464	11.79	156	231
2E-1409	9	0.025	0.63	0.060	1.52	0.571	14.50	216	320
2E-1410	10	0.025	0.63	0.060	1.52	0.586	14.88	235	349
2E-1412	12	0.025	0.63	0.060	1.52	0.668	16.97	272	403
2E-1416	16	0.025	0.63	0.060	1.52	0.704	17.88	350	519
2E-1419	19	0.025	0.63	0.060	1.52	0.741	18.82	402	596
2E-1424	24	0.025	0.63	0.080	2.03	0.917	23.29	535	794
2E-1430	30	0.025	0.63	0.080	2.03	0.968	24.59	644	955
12 AWG STRANDED CONDUCTORS									
2E-1202	2	0.030	0.76	0.045	1.14	0.397	10.08	95	141
2E-1203	3	0.030	0.76	0.045	1.14	0.420	10.67	113	168
2E-1204	4	0.030	0.76	0.045	1.14	0.459	11.66	143	212
2E-1205	5	0.030	0.76	0.045	1.14	0.503	12.78	178	264
2E-1207	7	0.030	0.76	0.045	1.14	0.579	14.71	246	365
2E-1209	9	0.030	0.76	0.060	1.52	0.673	17.09	315	467
2E-1210	10	0.030	0.76	0.060	1.52	0.726	18.44	343	509
2E-1212	12	0.030	0.76	0.060	1.52	0.753	19.13	399	592
2E-1216	16	0.030	0.76	0.060	1.52	0.891	22.63	552	819
2E-1219	19	0.030	0.76	0.060	1.52	0.918	23.32	633	939
2E-1224	24	0.030	0.76	0.080	2.03	1.091	27.71	789	1,170
2E-1230	30	0.030	0.76	0.080	2.03	1.154	29.31	956	1,418

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Traffic Signal/Control Cable

IMSA 20-1 Solid, Aerial/Duct, Polyethylene Insulation, Polyethylene Jacket, 600 V

SPECIFICATIONS

1. CONDUCTOR: Bare solid annealed copper
2. INSULATION: Before application to the conductors is a heat-stabilized polyethylene, conforming to the melt index requirements of ASTM D-1248, 65T, Class B, Grade 4. After application to the conductors the insulation meets all requirements of 1984 IMSA Specification No 20-1 when tested in accordance with ASTM D-1351, latest edition, and D-470, latest edition
4. CONSTRUCTION: The insulated conductors are laid up in compact cable form, and bound with a spiral wrap of moisture-resistant tape applied to lap at least 10 percent of its width
5. JACKET: High molecular weight polyethylene, meeting the requirements of ASTM D-1248, 65T, for Dielectric Material Class C, Grade 5, J3
3. TEMPERATURE: 75°C
7. VOLTAGE: 600 V
6. STANDARDS: The completed cable meets or exceeds 1984 IMSA Specification No 20-1

APPLICATIONS

For use in signal systems in underground conduit, or as aerial cable supported by a messenger.

Anixter No.	No. of Conductors	Insulation Thickness		Jacket Thickness		Nominal O.D.		Approx. Weight	
		in.	mm	in.	mm	in.	mm	lb./1,000 ft.	kg/km
14 AWG SOLID CONDUCTORS									
2F-1402	2	0.025	0.63	0.045	1.14	0.250	6.35	54	80
2F-1403	3	0.025	0.63	0.045	1.14	0.342	8.69	66	98
2F-1404	4	0.025	0.63	0.045	1.14	0.372	9.45	83	123
2F-1405	5	0.025	0.63	0.045	1.14	0.406	10.31	104	154
2F-1407	7	0.025	0.63	0.045	1.14	0.440	11.18	135	200
2F-1409	9	0.025	0.63	0.045	1.14	0.511	12.98	174	258
2F-1410	10	0.025	0.63	0.060	1.52	0.586	14.88	201	297
2F-1412	12	0.025	0.63	0.060	1.52	0.603	15.32	234	346
2F-1416	16	0.025	0.63	0.060	1.52	0.667	16.94	305	451
2F-1419	19	0.025	0.63	0.060	1.52	0.701	17.81	353	522
2F-1424	24	0.025	0.63	0.060	1.52	0.823	20.90	441	653
12 AWG SOLID CONDUCTORS									
2F-1202	2	0.030	0.76	0.045	1.14	0.384	9.75	79	117
2F-1203	3	0.030	0.76	0.045	1.14	0.402	10.21	96	142
2F-1204	4	0.030	0.76	0.045	1.14	0.440	11.18	123	182
2F-1205	5	0.030	0.76	0.045	1.14	0.480	12.19	155	229
2F-1207	7	0.030	0.76	0.060	1.52	0.561	14.25	214	317
2F-1209	9	0.030	0.76	0.060	1.52	0.677	17.20	275	407
2F-1210	10	0.030	0.76	0.060	1.52	0.686	17.42	300	444
2F-1212	12	0.030	0.76	0.060	1.52	0.753	19.13	351	519
2F-1216	16	0.030	0.76	0.060	1.52	0.799	20.29	462	684
2F-1219	19	0.030	0.76	0.080	2.03	0.882	22.40	558	826
2F-1224	24	0.030	0.76	0.080	2.03	1.025	26.04	697	1,032

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7

Control and Instrumentation Cable

Section 7 Control and Instrumentation Cable

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Single Pair or Triad - Type CIC

Single Twisted Pair or Triad, Overall Shield, PVC Jacket, 300 V or 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Soft tinned copper (7 strand)
2. INSULATION: Polyvinyl Chloride (PVC); 105°C dry/75°C wet
   Cross-Linked Polyethylene (XLPE); 105°C dry/90°C wet
3. COLOUR CODE: Pairs - Black/White and number coded
   Triads - Black/White/Red and number coded
4. CONFIGURATION: Twisted pair or triad
5. SHIELD: Overall aluminum/Mylar shield with drain wire.
6. OVERALL JACKET: Black PVC jacket; -40°C to 90°C; FT4; sunlight resistant
7. STANDARDS: In accordance with CSA C22.2 No.239

APPLICATIONS

For installation in troughs, channels, conduit, direct earth burial, and for exposed or concealed wiring in wet or dry locations in accordance with the Canadian Electrical Code.

Anixter No. PVC Insulation	Anixter No. XLPE Insulation	No. of Pairs or Triads	Jacket Thickness in.	Jacket Thickness mm	Nominal O.D. in.	Nominal O.D. mm	Approx. Weight lb. /1,000 ft.	Approx. Weight kg/km
300 V 1 PAIR								
323-521-1601	323-721-1601	1 Pair	0.045	1.14	0.314	7.98	122	182
323-521-1801	323-721-1801	1 Pair	0.045	1.14	0.290	7.37	97	144
300 V 1 TRIAD								
323-561-1601	323-761-1601	1 Triad	0.045	1.14	0.331	8.41	152	226
323-561-1801	323-761-1801	1 Triad	0.045	1.14	0.305	7.75	121	180
600 V 1 PAIR								
323-621-1601	323-821-1601	1 Pair	0.045	1.14	0.336	8.53	129	192
323-621-1801	323-821-1801	1 Pair	0.045	1.14	0.313	7.95	109	162
600 V 1 TRIAD								
323-661-1601	323-861-1601	1 Triad	0.045	1.14	0.354	8.99	167	248
323-661-1801	323-861-1801	1 Triad	0.045	1.14	0.329	8.36	131	195

Single Pair or Triad - Type ACIC

Single Twisted Pair or Triad, Overall Shield, Aluminum Interlock Armour, PVC Jacket, 300 V or 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Soft tinned copper (7 strand)
2. INSULATION: Polyvinyl Chloride (PVC); 105°C dry/75°C wet
   Cross-Linked Polyethylene (XLPE); 105°C dry/90°C wet
3. COLOUR CODE: Pairs - Black/White and number coded
   Triads - Black/White/Red and number coded
4. CONFIGURATION: Twisted pair or triad
5. SHIELD: Overall aluminum/Mylar shield with drain wire
6. INNER JACKET: Black PVC
7. ARMOUR: Aluminum interlocking armour
8. OVERALL JACKET: Grey PVC jacket; -40°C to 90°C; FT4; low acid gas; sunlight resistant
9. STANDARDS: In accordance with CSA C22.2 No.239 and CSA C22.2 No.174 for use in Class 1, Division 1 Hazardous Locations

APPLICATIONS

For installation in troughs, channels, cable tray, direct earth burial and for exposed or concealed wiring in wet or dry locations in accordance with the Canadian Electrical Code. These cables are designed for use in Class 1, Division 1 Hazardous Locations, or nonhazardous locations where harsh conditions exist.

Anixter No.	Anixter No.	No. of Pairs or Triads	Nominal Diameter				Approx. Weight	
			Inner Jacket		Outer Jacket			
PVC Insulation	XLPE Insulation		in.	mm	in.	mm	lb. /1,000 ft.	kg/km
300 V 1 PAIR								
323-529-1601	323-729-1601	1 Pair	0.316	8.03	0.620	15.75	160	238
323-529-1801	323-729-1801	1 Pair	0.296	7.52	0.600	15.24	147	219
300 V 1 TRIAD								
323-569-1601	323-769-1601	1 Triad	0.333	8.46	0.638	16.21	178	265
323-569-1801	323-769-1801	1 Triad	0.311	7.90	0.616	15.65	161	240
600 V 1 PAIR								
323-629-1601	323-829-1601	1 Pair	0.336	8.53	0.640	16.26	169	251
323-629-1801	323-829-1801	1 Pair	0.316	8.03	0.620	15.75	155	231
600 V 1 TRIAD								
323-669-1601	323-869-1601	1 Triad	0.355	9.02	0.638	16.21	188	280
323-669-1801	323-869-1801	1 Triad	0.333	8.46	0.638	16.21	171	254

Note: Steel Interlock Armour (SIA) also available, please contact your local Anixter sales office.

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Multiple Twisted Pair - 300 V Type CIC

Multiple Twisted Pair, Overall Shield, PVC Jacket, 300 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Soft tinned copper (7 strand)
2. INSULATION: Polyvinyl Chloride (PVC); 105°C dry/75°C wet or
   Cross-Linked Polyethylene (XLPE); 105°C dry/90°C wet
3. COLOUR CODE: Pairs - Black/White and number coded
4. CONFIGURATION: Twisted pair
5. SHIELD: Overall aluminum/Mylar shield with drain wire
6. OVERALL JACKET: Black PVC jacket; -40°C to 90°C; FT4; sunlight resistant
7. STANDARDS: In accordance with CSA C22.2 No.239

APPLICATIONS

For installation in troughs, channels, conduit, direct earth burial, and for exposed or concealed wiring in wet or dry locations in accordance with the Canadian Electrical Code.

Anixter No. PVC Insulation	Anixter No. XLPE Insulation	No. of Pairs	Jacket Thickness in.	Jacket Thickness mm	Nominal O.D. in.	Nominal O.D. mm	Approx. Weight lb. /1,000 ft.	Approx. Weight kg/km
20 AWG 7X28 STRAND								
323-521-2002	323-721-2002	2 Pair	0.045	1.14	0.400	10.16	143	213
323-521-2004	323-721-2004	4 Pair	0.045	1.14	0.460	11.68	217	323
323-521-2006	323-721-2006	6 Pair	0.045	1.14	0.570	14.48	320	476
323-521-2008	323-721-2008	8 Pair	0.060	1.52	0.610	15.49	405	603
323-521-2012	323-721-2012	12 Pair	0.060	1.52	0.730	18.54	573	853
323-521-2016	323-721-2016	16 Pair	0.060	1.52	0.810	20.57	722	1,074
323-521-2024	323-721-2024	24 Pair	0.080	2.03	1.040	26.42	1,103	1,641
323-521-2036	323-721-2036	36 Pair	0.080	2.03	1.190	30.23	1,548	2,303
18 AWG 7X26 STRAND								
323-521-1802	323-721-1802	2 Pair	0.045	1.14	0.480	12.19	196	292
323-521-1804	323-721-1804	4 Pair	0.045	1.14	0.580	14.73	338	503
323-521-1806	323-721-1806	6 Pair	0.060	1.52	0.670	17.02	473	704
323-521-1808	323-721-1808	8 Pair	0.060	1.52	0.730	18.54	570	848
323-521-1812	323-721-1812	12 Pair	0.060	1.52	0.920	23.37	869	1,293
323-521-1816	323-721-1816	16 Pair	0.080	2.03	1.020	25.91	1,095	1,629
323-521-1824	323-721-1824	24 Pair	0.080	2.03	1.26	32.00	1,552	2,309
16 AWG 7X24 STRAND								
323-521-1602	323-721-1602	2 Pair	0.045	1.14	0.520	13.21	262	390
323-521-1604	323-721-1604	4 Pair	0.060	1.52	0.628	15.95	438	652
323-521-1606	323-721-1606	6 Pair	0.060	1.52	0.740	18.80	603	897
323-521-1608	323-721-1608	8 Pair	0.060	1.52	0.800	20.32	752	1,119
323-521-1612	323-721-1612	12 Pair	0.080	2.03	1.010	25.65	1,148	1,708
323-521-1616	323-721-1616	16 Pair	0.080	2.03	1.12	28.45	1,461	2,174
323-521-1624	323-721-1624	24 Pair	0.080	2.03	1.38	35.05	2,091	3,111

Multiple Twisted Pair - 300 V Type CIC

Multiple Twisted Pair, Individual and Overall Shield, PVC Jacket, 300 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Soft tinned copper (7 strand)
2. INSULATION: Polyvinyl Chloride (PVC); 105°C dry/75°C wet or
   Cross-Linked Polyethylene (XLPE); 105°C dry/90°C wet
3. COLOUR CODE: Pairs - Black/White and number coded
4. CONFIGURATION: Twisted pair
5. SHIELD: Individual and overall aluminum/Mylar shield with drain wire
6. OVERALL JACKET: Black PVC jacket; -40°C to 90°C; FT4; sunlight resistant
7. STANDARDS: In accordance with CSA C22.2 No.239

APPLICATIONS

For installation in troughs, channels, conduit, direct earth burial, and for exposed or concealed wiring in wet or dry locations in accordance with the Canadian Electrical Code.

Anixter No.	Anixter No.	No. of Pairs	Jacket Thickness		Nominal O.D.		Approx. Weight	
PVC Insulation	XLPE Insulation		in.	mm	in.	mm	lb. /1,000 ft.	kg/km
20 AWG 7X28 STRAND								
323-531-2002	323-731-2002	2 Pair	0.045	1.14	0.400	10.16	143	213
323-531-2004	323-731-2004	4 Pair	0.045	1.14	0.460	11.68	217	323
323-531-2006	323-731-2006	6 Pair	0.045	1.14	0.570	14.48	320	476
323-531-2008	323-731-2008	8 Pair	0.060	1.52	0.610	15.49	405	603
323-531-2012	323-731-2012	12 Pair	0.060	1.52	0.730	18.54	573	853
323-531-2016	323-731-2016	16 Pair	0.060	1.52	0.810	20.57	722	1,074
323-531-2024	323-731-2024	24 Pair	0.080	2.03	1.040	26.42	1,103	1,641
323-531-2036	323-731-2036	36 Pair	0.080	2.03	1.190	30.23	1,548	2,303
323-531-2050	323-731-2050	50 Pair	0.080	2.03	1.300	33.02	1,962	2,919
18 AWG 7X26 STRAND								
323-531-1802	323-731-1802	2 Pair	0.045	1.14	0.480	12.19	196	292
323-531-1804	323-731-1804	4 Pair	0.045	1.14	0.580	14.73	338	503
323-531-1806	323-731-1806	6 Pair	0.060	1.52	0.670	17.02	473	704
323-531-1808	323-731-1808	8 Pair	0.060	1.52	0.730	18.54	570	848
323-531-1812	323-731-1812	12 Pair	0.060	1.52	0.920	23.37	869	1,293
323-531-1816	323-731-1816	16 Pair	0.080	2.03	1.020	25.91	1,095	1,629
323-531-1824	323-731-1824	24 Pair	0.080	2.03	1.260	32.00	1,552	2,309
323-531-1836	323-731-1836	36 Pair	0.080	2.03	1.340	34.04	1,997	2,972
323-531-1850	323-731-1850	50 Pair	0.080	2.03	1.640	41.66	2,322	3,455
16 AWG 7X24 STRAND								
323-531-1602	323-731-1602	2 Pair	0.045	1.14	0.520	13.21	262	390
323-531-1604	323-731-1604	4 Pair	0.060	1.52	0.628	15.95	438	652
323-531-1606	323-731-1606	6 Pair	0.060	1.52	0.740	18.80	603	897
323-531-1608	323-731-1608	8 Pair	0.060	1.52	0.800	20.32	752	1,119
323-531-1612	323-731-1612	12 Pair	0.080	2.03	1.010	25.65	1,148	1,708
323-531-1616	323-731-1616	16 Pair	0.080	2.03	1.120	28.45	1,461	2,174
323-531-1624	323-731-1624	24 Pair	0.080	2.03	1.380	35.05	2,091	3,111
323-531-1636	323-731-1636	36 Pair	0.080	2.03	1.590	40.39	2,347	3,492
323-531-1650	323-731-1650	50 Pair	0.080	2.03	1.880	47.75	2,813	4,186

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Multiple Twisted Pair - 600 V Type CIC

Multiple Twisted Pair, Individual and Overall Shield, PVC Jacket, 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Soft tinned copper (7 strand)
2. INSULATION: Polyvinyl Chloride (PVC); 105°C dry/75°C wet or
   Cross-Linked Polyethylene (XLPE); 105°C dry/90°C wet
3. COLOUR CODE: Pairs - Black/White and number coded
4. CONFIGURATION: Twisted pair
5. SHIELD: Individual and overall aluminum/Mylar shield with drain wire
6. OVERALL JACKET: Black PVC jacket; -40°C to 90°C; FT4; sunlight resistant
7. STANDARDS: In accordance with CSA C22.2 No.239

APPLICATIONS

For installation in troughs, channels, conduit, direct earth burial, and for exposed or concealed wiring in wet or dry locations in accordance with the Canadian Electrical Code.

Anixter No.	Anixter No.	No. of Pairs	Jacket Thickness		Nominal O.D.		Approx. Weight	
PVC Insulation	XLPE Insulation		in.	mm	in.	mm	lb. /1,000 ft.	kg/km
16 AWG 7X24 STRAND								
323-631-1602	323-831-1602	2 Pair	0.045	1.14	0.59	14.99	229	341
323-631-1604	323-831-1604	4 Pair	0.060	1.52	0.68	17.27	469	698
323-631-1606	323-831-1606	6 Pair	0.060	1.52	0.79	20.07	667	992
323-631-1608	323-831-1608	8 Pair	0.080	2.03	0.90	22.86	841	1,251
323-631-1612	323-831-1612	12 Pair	0.080	2.03	1.09	27.69	1,235	1,838
323-631-1624	323-831-1624	24 Pair	0.080	2.03	1.49	37.85	2,250	3,348

Multiple Twisted Triad - 600 V Type CIC

Multiple Twisted Triad, Individual and Overall Shield, PVC Jacket, 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Soft tinned copper (7 strand)
2. INSULATION: Polyvinyl Chloride (PVC); 105°C dry/75°C wet or
   Cross-Linked Polyethylene (XLPE); 105°C dry/90°C wet
3. COLOUR CODE: Triads - Black/White/Red and number coded
4. CONFIGURATION: Twisted triad
5. SHIELD: Individual and overall aluminum/Mylar shield with drain wire
6. OVERALL JACKET: Black PVC jacket; -40°C to 90°C; FT4; sunlight resistant
7. STANDARDS: In accordance with CSA C22.2 No.239

APPLICATIONS

For installation in troughs, channels, conduit, direct earth burial, and for exposed or concealed wiring in wet or dry locations in accordance with the Canadian Electrical Code.

Anixter No.	Anixter No.	No. of Triads	Jacket Thickness		Nominal O.D.		Approx. Weight	
PVC Insulation	XLPE Insulation		in.	mm	in.	mm	lb. /1,000 ft.	kg/km
16 AWG 7X24 STRAND								
323-671-1602	323-871-1602	2 Triad	0.045	1.14	0.62	15.88	372	554
323-671-1604	323-871-1604	4 Triad	0.060	1.52	0.72	18.29	606	902
323-671-1608	323-871-1608	8 Triad	0.080	2.03	0.96	24.38	1,144	1,702

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Multiple Twisted Pair - 300 V Type ACIC

Multiple Twisted Pair, Individual and Overall Shield, Aluminum Interlock Armour, PVC Jacket, 300 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Soft tinned copper (7 strand)
2. INSULATION: Polyvinyl Chloride (PVC); 105°C dry/75°C wet or
   Cross-Linked Polyethylene (XLPE); 105°C dry/90°C wet
3. COLOUR CODE: Pairs - Black/White and number coded
4. CONFIGURATION: Twisted pair
5. SHIELD: Individual and overall aluminum/Mylar shield with drain wire
6. INNER JACKET: Black PVC
7. ARMOUR: Aluminum interlocking armour
8. OVERALL JACKET: Grey PVC jacket; -40°C to 90°C; FT4; low acid gas; sunlight resistant
9. STANDARDS: In accordance with CSA C22.2 No.239 and CSA C22.2 No.174 for use in Class 1, Division 1 Hazardous Locations

APPLICATIONS

For installation in troughs, channels, cable tray, direct earth burial and for exposed or concealed wiring in wet or dry locations in accordance with the Canadian Electrical Code. These cables are designed for use in Class 1, Division 1 Hazardous Locations, or nonhazardous locations where harsh conditions exist.

Anixter No.	Anixter No.	No. of Pairs	Nominal Diameter						Approx. Weight	
			Inner Jacket		Armour		Outer Jacket			
PVC Insulation	XLPE Insulation		in.	mm	in.	mm	in.	mm	lb. /1,000 ft.	kg/km
20 AWG 7X28 STRAND										
323-539-2002	323-739-2002	2 Pair	0.298	7.6	0.498	12.6	0.602	15.3	156	232
323-539-2004	323-739-2004	4 Pair	0.452	11.5	0.652	16.6	0.758	19.3	234	348
323-539-2006	323-739-2006	6 Pair	0.569	14.5	0.769	19.5	0.875	22.2	313	465
323-539-2008	323-739-2008	8 Pair	0.641	15.6	0.814	20.7	0.921	23.4	356	530
323-539-2012	323-739-2012	12 Pair	0.738	18.7	0.938	23.8	1.046	26.6	456	678
323-539-2016	323-739-2016	16 Pair	0.816	20.7	1.051	26.7	1.161	29.5	581	864
323-539-2024	323-739-2024	24 Pair	1.018	25.9	1.253	31.8	1.365	34.7	805	1,198
323-539-2036	323-739-2036	36 Pair	1.192	30.3	1.427	36.2	1.56	39.6	1,076	1,601
18 AWG 7X26 STRAND										
323-539-1802	323-739-1802	2 Pair	0.347	8.8	0.547	13.9	0.651	16.5	185	276
323-539-1804	323-739-1804	4 Pair	0.555	14.1	0.755	19.2	0.861	21.9	907	457
323-539-1806	323-739-1806	6 Pair	0.658	16.7	0.858	21.8	0.966	24.5	385	573
323-539-1808	323-739-1808	8 Pair	0.713	18.1	0.913	23.2	1.021	25.9	446	663
323-539-1812	323-739-1812	12 Pair	0.902	22.9	1.137	28.9	1.248	31.7	670	997
323-539-1816	323-739-1816	16 Pair	0.997	25.3	1.232	31.3	1.344	34.1	794	1,181
323-539-1824	323-739-1824	24 Pair	1.192	30.3	1.427	36.2	1.561	39.6	1,073	1,597
323-539-1836	323-739-1836	36 Pair	1.401	35.6	1.636	41.6	1.772	45.0	1,416	2,107
16 AWG 7X24 STRAND										
323-539-1602	323-739-1602	2 Pair	0.371	9.4	0.571	14.5	0.676	17.2	209	311
323-539-1604	323-739-1604	4 Pair	0.605	15.4	0.805	20.4	0.912	23.2	356	529
323-539-1606	323-739-1606	6 Pair	0.721	18.3	0.921	23.4	1.029	26.1	453	674
323-539-1608	323-739-1608	8 Pair	0.782	19.9	1.017	25.8	1.126	28.6	571	849
323-539-1612	323-739-1612	12 Pair	0.989	25.1	1.224	31.1	1.335	33.9	798	1,187
323-539-1616	323-739-1616	16 Pair	1.095	27.8	1.33	33.8	1.442	36.6	956	1,422
323-539-1624	323-739-1624	24 Pair	1.313	33.4	1.548	39.3	1.682	42.7	1,308	1,946
323-539-1636	323-739-1636	36 Pair	1.546	39.3	1.781	45.2	1.918	48.7	1,976	2,940

Note: Steel Interlock Armour (SIA) also available, please contact your local Anixter sales office.

Multiple Twisted Triad - 300 V Type ACIC

Multiple Twisted Triad, Individual and Overall Shield, Aluminum Interlock Armour, PVC Jacket, 300 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Soft tinned copper (7 strand)
2. INSULATION: Polyvinyl Chloride (PVC); 105°C dry/75°C wet or
   Cross-Linked Polyethylene (XLPE); 105°C dry/90°C wet
3. COLOUR CODE: Triads - Black/White/Red and number coded
4. CONFIGURATION: Twisted triad
5. SHIELD: Individual and overall aluminum/Mylar shield with drain wire
6. INNER JACKET: Black PVC
7. ARMOUR: Aluminum interlocking armour
8. OVERALL JACKET: Grey PVC jacket; -40°C to 90°C; FT4; low acid gas; sunlight resistant
9. STANDARDS: In accordance with CSA C22.2 No.239 and CSA C22.2 No.174 for use in Class 1, Division 1 Hazardous Locations

APPLICATIONS

For installation in troughs, channels, cable tray, direct earth burial and for exposed or concealed wiring in wet or dry locations in accordance with the Canadian Electrical Code. These cables are designed for use in Class 1, Division 1 Hazardous Locations, or nonhazardous locations where harsh conditions exist.

Anixter No.	Anixter No.	No. of Triads	Nominal Diameter						Approx. Weight	
			Inner Jacket		Armour		Outer Jacket			
PVC Insulation	XLPE Insulation		in.	mm	in.	mm	in.	mm	lb. /1,000 ft.	kg/km
20 AWG 7X28 STRAND										
323-579-2002	323-779-2002	2 Triad	0.420	10.7	0.620	15.7	0.725	18.4	208	309
323-579-2004	323-779-2004	4 Triad	0.485	12.3	0.685	17.4	0.791	20.1	267	398
323-579-2006	323-779-2006	6 Triad	0.609	15.5	0.809	20.5	0.916	23.3	362	538
323-579-2008	323-779-2008	8 Triad	0.659	16.7	0.859	21.8	0.966	24.5	418	622
323-579-2012	323-779-2012	12 Triad	0.794	20.2	1.029	26.1	1.138	28.9	586	872
323-579-2016	323-779-2016	16 Triad	0.920	23.4	1.155	29.3	1.266	32.2	744	1,107
323-579-2024	323-779-2024	24 Triad	1.097	27.9	1.332	33.8	1.445	36.7	978	1,455
18 AWG 7X26 STRAND										
323-579-1802	323-779-1802	2 Triad	0.498	12.6	0.698	17.7	0.804	20.4	253	377
323-579-1804	323-779-1804	4 Triad	0.610	15.5	0.810	20.6	0.917	23.3	363	540
323-579-1806	323-779-1806	6 Triad	0.727	18.5	0.927	23.5	1.035	26.3	464	691
323-579-1808	323-779-1808	8 Triad	0.788	20.0	1.023	26.0	1.132	28.8	586	872
323-579-1812	323-779-1812	12 Triad	0.997	25.3	1.232	31.3	1.344	34.1	821	1,222
323-579-1816	323-779-1816	16 Triad	1.105	28.1	1.348	34.2	1.452	36.9	987	1,468
323-579-1824	323-779-1824	24 Triad	1.325	33.7	1.560	39.6	1.695	43.1	1,354	2,014
16 AWG 7X24 STRAND										
323-579-1602	323-779-1602	2 Triad	0.567	14.4	0.767	19.5	0.874	22.2	311	463
323-579-1604	323-779-1604	4 Triad	0.657	16.7	0.857	21.8	0.964	24.5	423	629
323-579-1606	323-779-1606	6 Triad	0.785	19.9	1.020	25.9	1.13	28.7	590	878
323-579-1608	323-779-1608	8 Triad	0.893	22.7	1.128	28.7	1.239	31.5	741	1,103
323-579-1612	323-779-1612	12 Triad	1.079	27.4	1.314	33.4	1.426	36.2	983	1,463
323-579-1616	323-779-1616	16 Triad	1.197	30.4	1.432	36.4	1.565	39.8	1,225	1,822
323-579-1624	323-779-1624	24 Triad	1.439	36.6	1.674	42.5	1.81	46.0	1,658	2,467

Note: Steel Interlock Armour (SIA) also available, please contact your local Anixter sales office.

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Multiple Twisted Pair - 600 V Type ACIC

Multiple Twisted Pair, Individual and Overall Shield, Aluminum Interlock Armour, PVC Jacket, 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Soft tinned copper (7 strand)
2. INSULATION: Polyvinyl Chloride (PVC); 105°C dry/75°C wet or
   Cross-Linked Polyethylene (XLPE); 105°C dry/90°C wet
3. COLOUR CODE: Pairs - Black/White and number coded
4. CONFIGURATION: Twisted pair
5. SHIELD: Individual and overall aluminum/Mylar shield with drain wire
6. INNER JACKET: Black PVC
7. ARMOUR: Aluminum interlocking armour
8. OVERALL JACKET: Grey PVC jacket; -40°C to 90°C; FT4; low acid gas; sunlight resistant
9. STANDARDS: In accordance with CSA C22.2 No.239 and CSA C22.2 No.174 for use in Class 1, Division 1 Hazardous Locations

APPLICATIONS

For installation in troughs, channels, cable tray, direct earth burial and for exposed or concealed wiring in wet or dry locations in accordance with the Canadian Electrical Code. These cables are designed for use in Class 1, Division 1 Hazardous Locations, or nonhazardous locations where harsh conditions exist.

Anixter No.	Anixter No.	No. of Pairs	Nominal O.D.				Approx. Weight	
			Inner Jacket		Outer Jacket			
PVC Insulation	XLPE Insulation		in.	mm	in.	mm	lb. /1,000 ft.	kg/km
18 AWG 7X26 STRAND								
323-639-1802	323-839-1802	2 Pair	0.372	9.4	0.676	17.2	197	293
323-639-1804	323-839-1804	4 Pair	0.591	15.0	0.898	22.8	328	488
323-639-1806	323-839-1806	6 Pair	0.703	17.9	1.011	25.7	413	615
323-639-1808	323-839-1808	8 Pair	0.762	19.4	1.106	28.1	519	772
323-639-1812	323-839-1812	12 Pair	0.965	24.5	1.311	33.3	721	1,073
323-639-1816	323-839-1816	16 Pair	1.067	27.1	1.414	35.9	856	1,274
323-639-1824	323-839-1824	24 Pair	1.279	32.5	1.648	41.9	1,161	1,727
323-639-1836	323-839-1836	36 Pair	1.506	38.3	1.877	47.7	1,756	2,613
16 AWG 7X24 STRAND								
323-639-1602	323-839-1602	2 Pair	0.396	10.1	0.701	17.8	221	329
323-639-1604	323-839-1604	4 Pair	0.641	16.3	0.948	24.1	377	561
323-639-1606	323-839-1606	6 Pair	0.766	19.5	1.109	28.2	522	777
323-639-1608	323-839-1608	8 Pair	0.871	22.1	1.216	30.9	652	970
323-639-1612	323-839-1612	12 Pair	1.051	26.7	1.398	35.5	851	1,266
323-639-1616	323-839-1616	16 Pair	1.165	29.6	1.533	38.9	1,050	1,563
323-639-1624	323-839-1624	24 Pair	1.400	35.6	1.77	45.0	1,400	2,083
323-639-1636	323-839-1636	36 Pair	1.651	41.9	2.024	51.4	2,117	3,150

Note: Steel Interlock Armour (SIA) also available, please contact your local Anixter sales office.

Multiple Twisted Triad - 600 V Type ACIC

Multiple Twisted Triad, Individual and Overall Shield, Aluminum Interlock Armour, PVC Jacket, 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Soft tinned copper (7 strand)
2. INSULATION: Polyvinyl Chloride (PVC); 105°C dry/75°C wet or
   Cross-Linked Polyethylene (XLPE); 105°C dry/90°C wet
3. COLOUR CODE: Triads - Black/White/Red and number coded
4. CONFIGURATION: Twisted triad
5. SHIELD: Individual and overall aluminum/Mylar shield with drain wire
6. INNER JACKET: Black PVC
7. ARMOUR: Aluminum interlocking armour
8. OVERALL JACKET: Grey PVC jacket; -40°C to 90°C; FT4; low acid gas; sunlight resistant
9. STANDARDS: In accordance with CSA C22.2 No.239 and CSA C22.2 No.174 for use in Class 1, Division 1 Hazardous Locations

APPLICATIONS

For installation in troughs, channels, cable tray, direct earth burial and for exposed or concealed wiring in wet or dry locations in accordance with the Canadian Electrical Code. These cables are designed for use in Class 1, Division 1 Hazardous Locations, or nonhazardous locations where harsh conditions exist.

Anixter No.	Anixter No.	No. of Triads	Nominal O.D				Approx. Weight	
			Inner Jacket		Outer Jacket			
PVC Insulation	XLPE Insulation		in.	mm	in.	mm	lb. /1,000 ft.	kg/km
18 AWG 7X26 STRAND								
323-679-1802	323-879-1802	2 Triad	0.567	14.4	0.874	22.2	295	439
323-679-1804	323-879-1804	4 Triad	0.657	16.7	0.964	24.5	392	583
323-679-1806	323-879-1806	6 Triad	0.785	19.9	1.130	28.7	544	809
323-679-1808	323-879-1808	8 Triad	0.893	22.7	1.239	31.5	680	1,012
323-679-1812	323-879-1812	12 Triad	1.079	27.4	1.426	36.2	893	1,328
323-679-1816	323-879-1816	16 Triad	1.197	30.4	1.565	39.8	1,104	1,643
323-679-1824	323-879-1824	24 Triad	1.439	36.6	1.810	46.0	1,478	2,199
16 AWG 7X24 STRAND								
323-679-1602	323-879-1602	2 Triad	0.607	15.4	0.874	22.2	332	494
323-679-1604	323-879-1604	4 Triad	0.704	17.9	0.964	24.5	453	674
323-679-1606	323-879-1606	6 Triad	0.885	22.5	1.130	28.7	677	1,008
323-679-1608	323-879-1608	8 Triad	0.958	24.3	1.239	31.5	796	1,184
323-679-1612	323-879-1612	12 Triad	1.160	29.5	1.426	36.2	1,059	1,575
323-679-1616	323-879-1616	16 Triad	1.289	32.7	1.565	39.8	1,319	1,963
323-679-1624	323-879-1624	24 Triad	1.552	39.4	1.810	46.0	2,015	2,998

Note: Steel Interlock Armour (SIA) also available, please contact your local Anixter sales office.

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Section 8 VFD Cable

Armoured VFD Cable. P.8-3

Belden Unarmoured VFD Cable. P.8-4

Lapp Unarmoured VFD Cable. P.8-6

Armoured VFD Cable

Three Copper Conductors, XLPE Insulation, Three Bare Grounds, CCW Aluminum Sheath, 90°C, 1,000 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Stranded bare copper class B
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. GROUNDS: Three symmetrical stranded bare copper ground conductors
4. ARMOUR: Continuous Corrugated Welded (CCW) aluminum sheath
5. JACKET: Polyvinyl Chloride (PVC); black; FT4; sunlight resistant
6. TEMPERATURE: 90°C
7. VOLTAGE: 1,000 V
8. STANDARDS: In accordance with CSA C22.2 No.123 and CSA C22.2 No.174 for use in Class 1, Division 1 Hazardous Locations

FEATURES

- The three-conductor construction virtually eliminates magnetic fields outside of the cable, so induced voltage from one power cable to another or crosstalk to control/instrumentation cable is also reduced.
- The continuous aluminum sheath (as opposed to interlocked armour) acts as an effective shield for high frequency "noise" that may still be produced and could affect adjacent control and instrumentation cable. This sheath, in combination with the three grounding conductors, also acts as a long-term low-resistance path to the ground. This will eliminate standing voltages that may be created on the motor frame and also reduce bearing currents due to this standing voltage or to common mode voltage.

APPLICATIONS

VFD cable has been designated to carry power from AC drive to AC motors. This cable is designed to improve drive system performance and increase reliability of drive electronics, and reduce possibility of bearing current, which can cause bearing failure.

Anixter No.	Conductor Size	Bonding Conductor	Conductor O.D.		Aluminum Sheath O.D.		Cable O.D.		Approx. Weight	
	AWG/kcmil	No. x AWG	in.	mm	in.	mm	in.	mm	lb. /1,000 ft.	kg/km
7VFD-1203	12	3 x 18	0.40	10.2	0.60	15.3	0.70	17.8	249	370
7VFD-1003	10	3 x 16	0.45	11.5	0.63	16.1	0.73	18.6	306	455
7VFD-0803	8	3 x 14	0.50	12.7	0.76	19.2	0.86	21.9	417	620
7VFD-0603	6	3 x 12	0.64	16.3	0.91	23.2	1.02	26.0	591	880
7VFD-0403	4	3 x 12	0.74	18.7	0.98	24.8	1.08	27.4	763	1,135
7VFD-0303	3	3 x 10	0.79	20.1	1.12	28.4	1.23	31.3	991	1,475
7VFD-0203	2	3 x 10	0.86	21.8	1.17	29.8	1.27	32.3	1,122	1,670
7VFD-0103	1	3 x 10	1.01	25.7	1.35	34.4	1.46	37.1	1,411	2,100
7VFD-1013	1/0	3 x 10	1.09	27.8	1.41	35.8	1.52	38.6	1,640	2,440
7VFD-2023	2/0	3 x 10	1.18	30.0	1.57	39.8	1.69	43.0	2,009	2,990
7VFD-3033	3/0	3 x 8	1.29	32.7	1.63	41.3	1.75	44.5	2,412	3,590
7VFD-4043	4/0	3 x 8	1.40	35.5	1.80	45.8	1.93	49.0	2,906	4,325
7VFD-2503	250	3 x 8	1.49	37.8	1.94	49.4	2.07	52.7	3,380	5,030
7VFD-3503	350	3 x 8	1.74	44.3	2.05	52.1	2.19	55.6	4,465	6,645
7VFD-5003	500	3 x 6	2.00	50.9	2.48	63.0	2.61	66.3	6,075	9,040

Belden Unarmoured VFD Cable

Three Copper Conductors, XLPO Insulation, Three Bare Grounds, Two Copper Tape Shields, 90°C, 1,000 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Stranded bare copper
2. INSULATION: Cross-Linked Polyolefin (XLPO)
3. GROUNDS: Three symmetrical stranded bare copper ground conductors
4. SHIELD: Two spiral copper tape shields (100% coverage)
5. JACKET: Polyvinyl Chloride (PVC); oil and sunlight resistant; FT4; TC; -40°C
6. TEMPERATURE: 90°C
7. VOLTAGE: 1,000 V
8. STANDARDS: In accordance with CSA C22.2 No.38 and CSA C22.2 No.230

APPLICATIONS

Variable-frequency drives (VFDs), also known as variable-speed or adjustable-speed drives are used to power AC motors in a variety of industrial motion control, commercial flow/pumping and extrusion applications. Benefits of using a VFD over traditional DC drives include more precise motor control and improved power efficiency. While there are many benefits to using VFDs, their use requires special considerations for other drive system components, especially the drive's output cabling. These drive systems require cable that is specifically designed for VFD applications in order to improve drive system reliability while negating the impact of RFI/EMI.

Anixter No.	Conductor Size	Stranding	Cable O.D.		Approx. Weight	
	AWG		in.	mm	lb. /1,000 ft.	kg/km
B29550C	14	7 x 22	0.43	10.92	134	199
B29551C	12	7 x 20	0.46	11.68	146	217
B29552C	10	7 x 18	0.51	12.95	238	354
B29553C	8	7 x 16	0.65	16.51	340	506
B29554C	6	7 x 14	0.72	18.28	468	696
B29555C	4	7 x 12	0.83	21.08	517	769
B29556C	2	7 x 10	0.99	25.15	984	1,464
B29557C	1	19 x 14	1.13	28.70	1,193	1,775
B29558C	1/0	19 x 13	1.21	30.73	1,439	2,141
B29559C	2/0	19 x 12	1.31	33.27	1,734	2,580
B29560C	3/0	19 x 11	1.42	36.07	2,150	3,200
B29561C	4/0	19 x 10	1.54	39.12	2,599	3,868

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Belden Unarmoured VFD Cable

Three Tinned Copper Conductors, XLPE Insulation, Foil Shield, Tinned Copper Braid (85%), 90°C

SPECIFICATIONS

1. CONDUCTOR: Stranded tinned copper
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. GROUND: One full size insulated ground
4. SHIELD: Overall foil shield and tinned copper braid (85% coverage) plus drain wire
5. JACKET: Polyvinyl Chloride (PVC); black; FT4; IEEE 1202/383; oil and sunlight resistant
6. TEMPERATURE: 90°C
7. VOLTAGE: 1,000 V UL Flexible Motor Supply; 1,000 V CSA AWM I/II A/B; 600 V c(UL) Type CIC TC

APPLICATIONS

Variable-frequency drives (VFDs), also known as variable-speed or adjustable-speed drives are used to power AC motors in a variety of industrial motion control, commercial flow/pumping and extrusion applications. Benefits of using a VFD over traditional DC drives include more precise motor control and improved power efficiency. While there are many benefits to using VFDs, their use requires special considerations for other drive system components, especially the drive's output cabling. These drive systems require cable that is specifically designed for VFD applications in order to improve drive system reliability while negating the impact of RFI/EMI.

Anixter No.	Conductor Size	Stranding	Cable O.D.		Approx. Weight	
	AWG	No. x AWG	in.	mm	lb. /1,000 ft.	kg/km
2ACD-1603FB-1KV-B	16	26 x 30	0.53	13.46	185	275
2ACD-1403FB-1KV-B	14	41 x 30	0.60	15.24	235	350
2ACD-1203FB-1KV-B	12	65 x 30	0.65	16.51	298	443
2ACD-1003FB-1KV-B	10	105 x 30	0.69	17.53	396	589
3ACD-0803FB-1KV-B	8	7 x 19 x 29	0.93	23.62	680	1,012
3ACD-0603FB-1KV-B	6	7 x 19 x 27	1.02	25.91	906	1,348
3ACD-0403FB-1KV-B	4	7 x 19 x 25	1.16	29.46	1,227	1,826
3ACD-0203FB-1KV-B	2	7 x 19 x 23	1.31	33.27	1,766	2,628

Lapp Unarmoured VFD Cable

Three Copper Conductors, One Ground, Triple Layer Foil Tape, Tinned Copper Braid, 90°C, 600 V

SPECIFICATIONS

1. CONDUCTOR: Class 5 fine wire (18 AWG - 6 AWG); Class K fine wire (4 AWG - 2 AWG)
2. INSULATION: "Lapp Surge Guard" insulation system
3. GROUND: One insulated ground conductor
4. SHIELD: Barrier tape; triple layer foil tape (100% coverage); tinned copper braid (85% coverage)
5. JACKET: Black Polyvinyl Chloride (PVC); FT4
6. TEMPERATURE: 90°C
7. VOLTAGE: 600 V
8. STANDARDS: c(UL) CIC/TC FT4; CSA AWM I/II A/B 1,000 V FT4; UL TC-ER

APPLICATIONS

Variable-frequency drives (VFDs), also known as variable-speed or adjustable-speed drives are used to power AC motors in a variety of industrial motion control, commercial flow/pumping and extrusion applications. Benefits of using a VFD over traditional DC drives include more precise motor control and improved power efficiency. While there are many benefits to using VFDs, their use requires special considerations for other drive system components, especially the drive's output cabling. These drive systems require cable that is specifically designed for VFD applications in order to improve drive system reliability while negating the impact of RFI/EMI.

Anixter No.	Conductor Size	Cable O.D.		Approx. Weight	
	AWG	in.	mm	lb. /1,000 ft.	kg/km
OLF-761804	18	0.394	10.0	112	167
OLF-761604	16	0.465	11.8	154	229
OLF-761404	14	0.514	13.1	194	289
OLF-761204	12	0.583	14.8	254	378
OLF-761004	10	0.697	17.7	346	515
OLF-760804	8	0.829	21.1	596	887
OLF-760604	6	1.002	25.5	785	1,168
OLF-760404	4	1.186	30.1	965	1,436
OLF-760204	2	1.395	35.4	1,339	1,992

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Section 9 High-temperature Wire and Cable

GTF. P.9-3

SEW-1, SEW-2. . . . . P.9-4

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Silicone Rubber (Braidless) Lead Wire Appliance and Fixture Wire. P.9-10

TAGT (Asbestos Free) Lead and Power Cable. P.9-11

TGGT Lead and Power Cable. P.9-12

MG Lead and Power Cable. P.9-13

GTF

Single Conductor, PVC Jacket, One or Two Lacquered Glass Braid Insulations, 125°C, 600 V, CSA

SPECIFICATIONS

1. CONSTRUCTION: 18-14 AWG bare copper conductor, one layer lacquered glass braid, PVC jacket
   12-10 AWG bare copper conductor two layers lacquered glass braid, PVC jacket
2. STANDARDS: In accordance with CSA C22.2 No. 127
3. NOTES: Other sizes available. Please contact your local Anixter sales office.

APPLICATIONS

GTF may be used for fixture wiring in ballasts, fluorescent and incandescent fixtures.
For use in dry locations where temperatures do not exceed 125°C.
Note: Voltage may be increased to 1,000 volts when a current limiting device is used.

Anixter No.	Conductor Size	Stranding	Nominal O.D.		Approx. Weight	
	AWG		in.	mm	lb./1,000 ft.	kg/km
8AB-1807	18	Solid	0.107	2.71	10	15
8AB-1816	18	16/0.010	0.107	2.71	10	15
8AB-1601	16	Solid	0.121	3.07	10	15
8AB-1607	16	7/0.019	0.121	3.07	14	21
8AB-1626	16	Solid	0.121	3.07	14	21
8AB-1401	14	26/0.010	0.137	3.47	14	21
8AB-1407	14	Solid	0.137	3.47	19	28
8AB-1441	14	7/0.024	0.137	3.47	19	28
8AB-1201	12	Solid	0.187	4.74	35	52
8AB-1265	12	65/0.010	0.187	4.74	35	52
8AB-1001	10	Solid	0.209	5.30	48	71
8AB-1014	10	104/0.010	0.209	5.30	48	71

Add the following to the Anixter part numbers for colour code:

-01 = White -02 = Black -03 = Red -04 = Green -05 = Yellow
-06 = Blue -07 = Brown -08 = Orange -09 = Grey

SEW-1, SEW-2

Single Conductor, Silicone Rubber/Glass Braid, 150°C or 200°C, 300 V or 600 V, CSA

SPECIFICATIONS

1. CONDUCTOR: Solid or stranded tinned copper
2. INSULATION: Silicone rubber insulation and treated overall glass braid
3. TEMPERATURE: SEW-1 200°C, 300 V
   SEW-2 200°C, 600 V
4. COLOURS: Various colours available. Please contact your local Anixter sales office.
5. STANDARDS: In accordance with CSA C22.2 No. 127

APPLICATIONS

Internal wiring of electrical equipment such as electrical ranges and lighting fixtures.

Anixter No.	Conductor Size AWG	No. of Strands	Insulation Thickness in.	Insulation Thickness mm	Nominal O.D. in.	Nominal O.D. mm	Approx. Weight lb./1,000 ft.	Approx. Weight kg/km
TYPE SEW-1 200°C 300 V								
8CE-1801	18	1	0.015	0.381	0.086	2.1	8	11
8CE-1601	16	1	0.015	0.381	0.095	2.4	12	17
8CE-1807	18	7	0.015	0.381	0.092	2.3	9	13
8CE-1607	16	7	0.015	0.381	0.104	2.6	12	17
TYPE SEW-2 200°C 600 V								
8EE-1801	18	1	0.030	0.762	0.116	2.9	14	20
8EE-1601	16	1	0.030	0.762	0.127	3.2	18	26
8EE-1401	14	1	0.030	0.762	0.140	3.5	23	34
8EE-1201	12	1	0.030	0.762	0.157	3.9	32	47
8EE-1001	10	1	0.045	1.143	0.208	5.2	51	75
8EE-1807	18	7	0.030	0.762	0.122	3.0	15	22
8EE-1607	16	7	0.030	0.762	0.134	3.4	19	28
8EE-1407	14	7	0.030	0.762	0.149	3.7	24	35
8EE-1207	12	7	0.030	0.762	0.168	4.2	33	49
8EE-1007	10	7	0.045	1.143	0.222	5.6	52	77
8EE-1219	12	19	0.030	0.762	0.169	4.2	33	49
8EE-1019	10	19	0.045	1.143	0.223	5.6	52	77

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EPDM Motor Lead Wire

Single Conductor, EPDM Insulation/Jacket, 125°C, 600 V, UL AWM Style 3374 and 3340, CSA Type CL-1254

SPECIFICATIONS

1. CONDUCTOR: Stranded annealed (soft) bare or tinned copper
2. SEPARATOR: Paper serve on 10 AWG and larger
3. INSULATION: EPDM
4. TEMPERATURE: 125°C
5. VOLTAGE: 600 V
6. NOTES: Other stranding types available. Please contact your local Anixter sales office.

APPLICATIONS

For motor leads and internal wiring of appliances such as refrigerating equipment, room cooler units and heat pumps.
Also for use as leads of transformers, motor ballasts, solenoids, etc.
EPDM insulated wire provides a 125°C rated wire that has more flexibility than cross-linked polyolefin insulated wire with the same temperature rating.

Anixter No.	Conductor Size	No. of Strands	Insulation Thickness		Nominal O.D.		Approx. Weight	
	AWG		in.	mm	in.	mm	lb./1,000 ft.	kg/km
5MF-1801-EPDM	18	16	0.045	1.14	0.142	3.61	15	22
5MF-1601-EPDM	16	26	0.045	1.14	0.154	3.91	19	28
5MF-1401-EPDM	14	41	0.045	1.14	0.169	4.29	25	37
5MF-1201-EPDM	12	65	0.045	1.14	0.190	4.83	33	49
5MF-1001-EPDM	10	65	0.060	1.52	0.240	6.10	52	77
5MF-0801-EPDM	8	84	0.080	2.03	0.327	8.31	96	143
5MF-0601-EPDM	6	84	0.080	2.03	0.383	9.73	138	205
5MF-0401-EPDM	4	105	0.080	2.03	0.432	10.97	197	293
5MF-0201-EPDM	2	163	0.080	2.03	0.494	12.55	286	426
5MF-0101-EPDM	1	210	0.095	2.41	0.583	14.81	376	560
5MF-1011-EPDM	1/0	262	0.095	2.41	0.633	16.08	447	665
5MF-2021-EPDM	2/0	504	0.095	2.41	0.698	17.73	559	832
5MF-3031-EPDM	3/0	630	0.095	2.41	0.758	19.25	692	1,030
5MF-4041-EPDM	4/0	805	0.095	2.41	0.849	21.57	898	1,336

SR-ML Apparatus / Motor Lead

Single Conductor, Silicone Rubber Insulation, Glass Braid Jacket, 150°C or 200°C, 600 V, UL Listed

SPECIFICATIONS

1. CONDUCTOR: Single conductor coated annealed copper per ASTM B-33
   Class K stranded per ASTM B-174 or Class H stranded per ASTM B 173
2. INSULATION: Ozone resistant silicone rubber
3. JACKET: Colour coded closely woven braid of fiberglass yarn impregnated with a flame, heat, and moisture resistant finish
4. TEMPERATURE: 18-6 AWG are approved for UL for 150°C operations as fixture and appliance wire
   4, 3 and 2 AWG are approved by UL for 200°C operations as fixture and appliance wire
   1 AWG and larger are not UL Listed
7. VOLTAGE: 600 V
5. STANDARDS: Listed as motor lead wire in accordance with UL subject 758, UL 62
6. COLOURS: Various colours available. Please contact your local Anixter sales office.

APPLICATIONS

For use as motor lead with transformers and other high-temperature apparatus where a flexible cable is essential.

Anixter No.	Conductor Size	No. of Strands	Class Stranding	Temp. Rating	Insulation Thickness		Braid Thickness		Nominal O.D.		Approx. Weight	
	AWG			°C	in.	mm	in.	mm	in.	mm	lb./1,000 ft.	kg/km
8M-1801	18	16	K	150	0.031	0.78	0.009	0.23	0.127	3.23	12	17
8M-1601	16	26	K	150	0.031	0.78	0.009	0.23	0.141	3.58	16	23
8M-1401	14	41	K	150	0.031	0.78	0.009	0.23	0.150	3.81	22	32
8M-1201	12	65	K	150	0.031	0.78	0.009	0.23	0.176	4.47	32	47
8M-1001	10	105	K	150	0.046	1.16	0.009	0.23	0.238	6.05	56	83
8M-0801	8	133	H	150	0.062	1.57	0.009	0.23	0.316	8.03	92	136
8M-0601	6	133	H	150	0.062	1.57	0.009	0.23	0.360	9.14	130	193
8M-0401	4	133	H	200	0.062	1.57	0.009	0.23	0.418	10.62	192	285
8M-0301	3	133	H	200	0.062	1.57	0.009	0.23	0.440	11.18	235	349
8M-0201	2	133	H	200	0.062	1.57	0.009	0.23	0.487	12.37	282	419
8M-0101	1	259	H	200	0.078	1.98	0.020	0.51	0.585	14.86	385	572
8M-1011	1/0	259	H	200	0.078	1.98	0.020	0.51	0.630	16.00	468	696
8M-2021	2/0	259	H	200	0.078	1.98	0.020	0.51	0.685	17.40	545	810
8M-3031	3/0	259	H	200	0.078	1.98	0.020	0.51	0.745	18.92	670	996
8M-4041	4/0	259	H	200	0.078	1.98	0.020	0.51	0.811	20.60	822	1,223

Add the following to the Anixter part numbers for colour code:

-01 = White -02 = Black -03 = Red -04 = Green -05 = Yellow
-06 = Blue -07 = Brown -08 = Orange -09 = Grey

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SRK High-temperature Wire

Single Conductor, Silicone Rubber Insulation, Braided K-Fiber, 150°C/200°C, 600 V

SPECIFICATIONS

1. CONDUCTOR: Single conductor coated annealed copper per ASTM B-33
   Class K and H stranded per ASTM B-174 and B-173
2. INSULATION: Ozone resistant silicone rubber
3. JACKET: K-fiber braid impregnated with flame, heat, and moisture-resistant finish
4. TEMPERATURE: 150°C - 200°C
5. VOLTAGE: 600 V
6. STANDARDS: Listed as UL Style 3410 (4 AWG - 500 kcmil)
   Meets the requirements of the IEEE 383 vertical cable tray flame test
   Meets the horizontal flame test per UL 62 as modified by UL subject 758

APPLICATIONS

For installation above grade or in conduit in applications where high-temperature resistance to flame with circuit integrity is required.
Suited for internal wiring of appliances and electrical equipment where moisture, cold and/or heat may be present.

Anixter No.	Conductor Size	No. of Strands	Class Rating	Temp. Rating	Insulation Thickness		Braid Thickness		Nominal O.D.		Approx. Weight	
	AWG/kcmil			°C	in.	mm	in.	mm	in.	mm	lb./1,000 ft.	kg/km
8MK-1401	14	45	K	150	0.045	1.14	0.040	1.02	0.25	6.4	40	60
8MK-1201	12	65	K	150	0.045	1.14	0.040	1.02	0.27	6.9	50	75
8MK-1001	10	105	K	150	0.045	1.14	0.040	1.02	0.29	7.4	68	101
8MK-0801	8	133	H	150	0.060	1.52	0.045	1.14	0.37	9.4	107	159
8MK-0601	6	133	H	150	0.060	1.52	0.045	1.14	0.42	10.7	150	224
8MK-0401	4	133	H	200	0.060	1.52	0.045	1.14	0.49	12.4	212	316
8MK-0201	2	133	H	200	0.060	1.52	0.045	1.14	0.55	14.0	309	460
8MK-0101	1	259	H	200	0.060	1.52	0.045	1.14	0.64	16.3	393	586
8MK-1011	1/0	259	H	200	0.060	1.52	0.045	1.14	0.69	17.5	478	712
8MK-2021	2/0	259	H	200	0.080	2.03	0.045	1.14	0.74	18.8	594	885
8MK-3031	3/0	259	H	200	0.080	2.03	0.045	1.14	0.82	20.8	713	1,062
8MK-4041	4/0	259	H	200	0.080	2.03	0.045	1.14	0.88	22.4	870	1,269
8MK-2501	250	427	H	200	0.080	2.41	0.045	1.14	0.97	24.6	1,041	1,551
8MK-3501	350	427	H	200	0.080	2.41	0.045	1.14	1.09	27.7	1,398	2,083
8MK-5001	500	427	H	200	0.080	2.41	0.045	1.14	1.21	30.7	1,904	2,837

SRGK Multiconductor Cable

Multiconductor, Silicone Rubber Insulation/Glass Braid, Braided K-fiber, 200°C, 600 V

SPECIFICATIONS

1. CONDUCTOR: Tinned, annealed copper per ASTM B-33, Class B stranded per ASTM B-8
2. INSULATION: Silicone rubber
3. INSULATION COVERING: Braided-glass yarn with high-temperature finish
4. COLOUR CODE: Per ICEA Method 5, Table E-2 or Table E-1*
5. ASSEMBLY: Conductors are cabled with flame-retardant fillers as necessary; a binder tape is applied over the assembly
6. OVERALL JACKET: K-fiber braid with abrasion-resistant finish
7. TEMPERATURE: 200°C
8. VOLTAGE: 600 V
9. STANDARDS: Meets the requirements of ICEA S-19-81 (NEMA WC3) 'Rubber Insulated Wire and Cable' and also meets the IEEE 383 Flame Test. Cable is not UL or CSA Listed.

APPLICATIONS

Suitable for installation above grade in conduit or in applications where high-temperature resistance to flame with circuit integrity is required. These cables are especially suited for utility applications in conventional generating stations or industrial applications.

Anixter No.	Conductor Size	Number of Conductors	Number of Strands	Insulation Thickness		Nominal O.D.		Approx. Weight	
	AWG			in.	mm	in.	mm	lb./1,000 ft.	kg/km
8N-1402	14	2	7	0.045	1.14	0.46	11.8	82	122
8N-1403	14	3	7	0.045	1.14	0.49	12.5	103	153
8N-1404	14	4	7	0.045	1.14	0.54	13.7	131	195
8N-1405	14	5	7	0.045	1.14	0.59	15.0	167	249
8N-1407	14	7	7	0.045	1.14	0.64	16.3	216	322
8N-1409	14	9	7	0.045	1.14	0.75	19.2	285	425
8N-1412	14	12	7	0.045	1.14	0.86	21.8	364	542
8N-1415	14	15	7	0.045	1.14	0.96	24.4	451	672
8N-1419	14	19	7	0.045	1.14	1.01	25.7	557	830
8N-1202	12	2	7	0.045	1.14	0.50	12.7	112	167
8N-1203	12	3	7	0.045	1.14	0.53	13.5	139	207
8N-1204	12	4	7	0.045	1.14	0.58	14.8	172	256
8N-1205	12	5	7	0.045	1.14	0.64	16.3	218	325
8N-1207	12	7	7	0.045	1.14	0.70	17.8	285	425
8N-1209	12	9	7	0.045	1.14	0.83	21.1	376	560
8N-1212	12	12	7	0.045	1.14	0.94	23.9	483	720
8N-1215	12	15	7	0.045	1.14	1.05	26.7	604	900
8N-1219	12	19	7	0.045	1.14	1.10	27.9	744	1109
8N-1002	10	2	7	0.045	1.14	0.54	13.7	141	210
8N-1003	10	3	7	0.045	1.14	0.57	14.5	189	282
8N-1004	10	4	7	0.045	1.14	0.63	16.0	232	346
8N-1005	10	5	7	0.045	1.14	0.69	17.5	292	435
8N-1007	10	7	7	0.045	1.14	0.76	19.3	392	584
8N-1009	10	9	7	0.045	1.14	0.92	23.4	510	760
8N-1012	10	12	7	0.045	1.14	1.04	26.4	658	995
8N-1015	10	15	7	0.045	1.14	1.16	29.5	840	1,252
8N-1019	10	19	7	0.045	1.14	1.22	31.0	1,034	1,541

Note: Unshielded or shielded pairs/triads and 8 AWG and larger conductor sizes are available upon request. Please contact your local Anixter sales office.
*For E-1, add suffix -1 to part number.

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MAGS

Single Conductor, Copper/Nickel Conductor, Mica/Glass Insulation, Glass Braid Jacket, 450°C, 1,000 V

SPECIFICATIONS

1. CONDUCTOR: 27% nickel-clad copper conductor; ASTM stranding class K or H
2. INSULATION: Multi-layers of composite mica/glass tapes
3. JACKET: Impregnated high-temperature glass braid
4. TEMPERATURE: 450°C
5. VOLTAGE: 1,000 V
6. STANDARDS: UL Style 5107; CSA AWM

APPLICATIONS

Internal wiring of high temperature equipment operating at 450°C such as commercial and domestic ovens, blast furnaces, coke ovens and kilns.

Anixter No.	Conductor Size	Stranding	Insulation Thickness		Jacket Wall Thickness		Nominal O.D.		Approx. Weight	
	AWG		in.	mm	in.	mm	in.	mm	lb./1,000 ft.	kg/km
8TQ-2201	22	7/0.010	0.027	0.686	0.008	0.203	0.095	2.41	6	9
8TQ-2001	20	10/.0010	0.027	0.686	0.008	0.203	0.101	2.57	8	12
8TQ-1801	18	16/0.010	0.027	0.686	0.008	0.203	0.110	2.79	10	15
8TQ-1601	16	26/0.010	0.027	0.686	0.008	0.203	0.122	3.10	14	21
8TQ-1401	14	41/0.010	0.027	0.686	0.008	0.203	0.137	3.48	19	28
8TQ-1201	12	65/0.010	0.027	0.686	0.008	0.203	0.153	3.89	28	42
8TQ-1001	10	105/0.010	0.032	0.813	0.016	0.406	0.210	5.33	46	68
8TQ-0801	8	133/0.011	0.032	0.813	0.016	0.406	0.248	6.30	70	104
8TQ-0601	6	133/0.014	0.032	0.813	0.016	0.406	0.287	7.29	103	153
8TQ-0401	4	133/0.018	0.032	0.813	0.016	0.406	0.347	8.81	163	243
8TQ-0201	2	133/0.022	0.037	0.939	0.022	0.559	0.460	11.68	266	396
8TQ-0101	1	259/0.018	0.037	0.939	0.022	0.559	0.470	11.94	330	491
8TQ-1011	1/0	259/0.0202	0.037	0.939	0.022	0.559	0.545	13.84	410	610
8TQ-2021	2/0	259/0.0227	0.037	0.939	0.022	0.559	0.595	15.11	515	766
8TQ-3031	3/0	259/0.0255	0.037	0.939	0.022	0.559	0.695	17.65	625	930
8TQ-4041	4/0	259/0.0286	0.037	0.939	0.022	0.559	0.780	19.81	760	1,131

Silicone Rubber (Braidless) Lead Wire Appliance and Fixture Wire

Single Conductor, Silicone Rubber, 150°C, 600 V, UL

SPECIFICATIONS

1. CONDUCTOR: Tinned, annealed copper per ASTM B-33
2. INSULATION: Silicone rubber
3. TEMPERATURE: 150°C
4. VOTLAGE: 600 V
5. STANDARDS: UL 758 Listed; AWM Styles 3212 (18-10 AWG), Style 3213 (8-2 AWG) and Style 3214 (1 - 4/0 AWG)
6. COLOURS: Various colours available. Please contact your local Anixter sales office.

APPLICATIONS

For use in high-temperature environments as leads for motors, lighting fixtures, clothes dryers, electric ranges and other electrical devices.

Anixter No.	Conductor Size	Number of Strands	Insulation Thickness		Nominal O.D.		Approx. Weight	
	AWG		in.	mm	in.	mm	lb./1,000 ft.	kg/km
8MB-1801	18	16	0.045	1.14	0.142	3.61	14	21
8MB-1601	16	26	0.045	1.14	0.155	3.94	19	28
8MB-1401	14	41	0.045	1.14	0.170	4.32	24	36
8MB-1201	12	65	0.045	1.14	0.190	4.83	33	49
8MB-1001	10	65	0.045	1.14	0.209	5.31	48	71
8MB-0801	8	133	0.060	1.52	0.283	7.19	82	122
8MB-0601	6	133	0.060	1.52	0.334	8.48	117	174
8MB-0401	4	133	0.060	1.52	0.390	9.91	176	262
8MB-0201	2	259	0.060	1.52	0.457	11.61	265	394
8MB-0101	1	259	0.080	2.03	0.540	13.72	346	515
8MB-1011	1/0	259	0.080	2.03	0.586	14.88	424	631
8MB-2021	2/0	259	0.080	2.03	0.639	16.23	524	780
8MB-3031	3/0	259	0.080	2.03	0.698	17.73	648	964
8MB-4041	4/0	259	0.080	2.03	0.765	19.43	802	1,194

Add the following to the Anixter part numbers for colour code:

-01 = White -02 = Black -03 = Red -04 = Green -05 = Yellow
-06 = Blue -07 = Brown -08 = Orange -09 = Grey

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TAGT (Asbestos Free) Lead and Power Cable

Single Conductor, Teflon/Ceramic Insulation, Fiberglass Braid/Teflon Finish, 250°C, 600 V, UL 5228, CSA AWM

SPECIFICATIONS

1. CONDUCTOR: Stranded nickel-coated copper
2. INSULATION: Composite of PTFE Teflon tape and ceramic tape
3. JACKET: Overall glass braid saturated and cured with a Teflon compound finish which provides heat and abrasion resistance
4. TEMPERATURE: 250°C
5. VOLTAGE: 600 V
6. STANDARDS: Listed as UL Style 5288 in sizes 24-8 AWG; CSA Class 1 Group A/B AWM in sizes 24-2 AWG
7. COLOURS: Various colours available. Please contact your local Anixter sales office.

APPLICATIONS

Wiring of domestic, commercial/industrial ovens, cooking, curing/drying equipment and similar high-temperature severe environments.
TAGT employs a combination of fused PTFE and ceramic tapes allowing superior high-temperature characteristics without the use of asbestos.

Anixter No.	Conductor Size	No. of Strands	Composite Insulation Thickness		Jacket Wall		Nominal O.D.		Approx. Weight	
	AWG		in.	mm	in.	mm	in.	mm	lb./1,000 ft.	kg/km
8T-2401	24	7	0.025	0.635	0.005	0.13	0.085	2.16	7	10
8T-2201	22	7	0.025	0.635	0.005	0.13	0.090	2.29	8	12
8T-2001	20	10	0.025	0.635	0.005	0.13	0.100	2.54	10	15
8T-1801	18	16	0.025	0.635	0.005	0.13	0.110	2.79	13	19
8T-1601	16	26	0.025	0.635	0.005	0.13	0.130	3.30	18	27
8T-1401	14	41	0.025	0.635	0.005	0.13	0.140	3.56	24	36
8T-1201	12	65	0.025	0.635	0.005	0.13	0.160	4.06	34	51
8T-1001	10	105	0.025	0.635	0.005	0.13	0.200	5.08	51	76
8T-0801	8	133	0.025	0.635	0.005	0.13	0.230	5.84	65	97
8T-0601	6	133	0.030	0.762	0.0075	0.19	0.295	7.49	114	170
8T-0401	4	133	0.030	0.762	0.0075	0.19	0.340	8.64	168	250
8T-0201	2	133	0.030	0.762	0.0075	0.19	0.430	10.92	246	366

Add the following to the Anixter part numbers for colour code:

-01 = White -02 = Black -03 = Red -04 = Green -05 = Yellow
-06 = Blue -07 = Brown -08 = Orange -09 = Grey

TGGT Lead and Power Cable

Single Conductor, PTFE/Double Glass Insulation, Fiberglass Braid/Teflon Finish, 250°C, 600 V, UL 5196, CSA AWM

SPECIFICATIONS

1. CONDUCTOR: Nickel-plated copper per ASTM B-355; Class K stranded per ASTM B-174 (18-10 AWG) or Class H stranded per ASTM B-173 (8-2 AWG)
2. INSULATION: Composite PTFE tape wrapped in concentric layers and a wall of glass fiber wrap impregnated with a high-temperature finish
3. JACKET: Overall braided-glass yarn impregnated with an abrasion-resistant finish
4. TEMPERATURE: 250°C
6. VOLTAGE: 600 V
7. STANDARDS: UL AWM Style 5196; CSA AWM

APPLICATIONS

For use as internal wiring of commercial and industrial heating and cooking equipment and similar high-temperature appliances.

Anixter No.	Conductor Size	Number of Strands	Composite Insulation Thickness		Nominal O.D.		Approx. Weight	
	AWG		in.	mm	in.	mm	lb./1,000 ft.	kg/km
8TGG-1801	18	19	0.010	0.25	0.090	2.29	9	13
8TGG-1601	16	26	0.013	0.33	0.108	2.74	13	19
8TGG-1401	14	41	0.013	0.33	0.123	3.12	19	28
8TGG-1201	12	65	0.013	0.33	0.144	3.66	29	43
8TGG-1001	10	105	0.013	0.33	0.181	4.60	43	64
8TGG-0801	8	133	0.013	0.33	0.213	5.41	64	95
8TGG-0601	6	133	0.017	0.43	0.274	6.96	105	156
8TGG-0401	4	133	0.017	0.43	0.327	8.31	159	237
8TGG-0201	2	133	0.017	0.43	0.401	10.19	248	369

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MG Lead and Power Cable

Single Conductor, Mica Insulation, Fiberglass Braid, 450°C, 600 V, UL 5107/5335

SPECIFICATIONS

1. CONDUCTOR: Nickel-plated copper as per ASTM B-355;
   Class K stranded per ASTM B-174 or Class H stranded per ASTM B-173
2. INSULATION: Mica composite
3. OVERALL JACKET: Braided-glass yarn impregnated with high-temperature finish
4. TEMPERATURE: 450°C
5. VOLTAGE: 600 V
6. STANDARDS: UL Listed for 450°C with a 538°C maximum (non-UL), and meets the UL requirements for AWM Style 5107/5335

APPLICATIONS

Wiring of very high-temperature commercial or industrial equipment. Useful for high-temperature environments where lower-rated cables will not work adequately.

Anixter No.	Conductor Size	Number of Strands	Composite Insulation Thickness		Nominal O.D.		Approx. Weight	
	AWG		in.	mm	in.	mm	lb./1,000 ft.	kg/km
8TC-1801	18	16	0.025	0.635	0.114	2.90	11	16
8TC-1601	16	26	0.025	0.635	0.127	3.23	15	22
8TC-1401	14	41	0.025	0.635	0.140	3.56	21	31
8TC-1201	12	65	0.025	0.635	0.163	4.14	30	45
8TC-1001	10	105	0.030	0.762	0.214	5.44	51	76
8TC-0801	8	133	0.030	0.762	0.261	6.63	75	112
8TC-0601	6	133	0.030	0.762	0.304	7.72	111	165
8TC-0401	4	133	0.030	0.762	0.360	9.14	166	247
8TC-0201	2	133	0.035	0.889	0.450	11.43	260	387

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10

Shipboard Cable

Section 10 Shipboard Cable

1,000 V Multiconductor (IEC) . . . . . P. 10-3

1,000 V Multiconductor With Overall Shield (IEC) . . . . . P. 10-4

250 V Twisted Pair (IEC) P.10-5

1,000 V Multiconductor (IEC)

Bare Copper, XLPE Insulation, LSZH Jacket, SHF1, IEC 60092-350, 1,000 V, Lloyd's Register, ABS

SPECIFICATIONS

1. CONDUCTOR: Stranded bare copper Class 5
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. JACKET: Black low smoke zero halogen thermoplastic; 85°C; SHF1; -35°C cold impact; -40°C cold bend
4. FLAME RATING: IEC 60332-3 Category 'A'
5. TEMPERATURE: 90°C
6. VOLTAGE: 1,000 V
7. STANDARDS: In accordance with IEC 60092-350
8. MARINE APPROVALS: Lloyd's Register, ABS
9. COLOUR CODING: 2/C (Brown, Blue); 3/C (Black, Brown, Grey); 4/C (Black, Blue, Brown, Grey)

Anixter No.	Conductor Size	No. of Conductors	Overall Diameter		Approx. Weight	
	mm²		in.	mm	lb. /1,000 ft.	kg/km
2.5 mm²						
12DM-2X2.5	2.5	2	0.398	10.1	93	138
12DM-3X2.5	2.5	3	0.419	10.7	112	167
12DM-4X2.5	2.5	4	0.466	11.8	143	213
4.0 mm²						
12DM-2X4	4	2	0.465	11.8	132	197
12DM-3X4	4	3	0.490	12.5	163	242
12DM-4X4	4	4	0.534	13.6	198	295
6.0 mm²						
12DM-3X6	6	3	0.540	13.7	209	311
12DM-4X6	6	4	0.600	15.2	268	399
10 mm²						
12DM-3X10	10	3	0.612	15.6	304	452
12DM-4X10	10	4	0.670	17.0	381	567
16 mm²						
12DM-3X16	16	3	0.747	19.0	464	690
12DM-4X16	16	4	0.819	20.8	584	870
25 mm²						
12DM-3X25	25	3	0.886	22.5	682	1,015
12DM-4X25	25	4	0.974	24.7	868	1,292
35 mm²						
12DM-3X35	35	3	1.003	25.5	903	1,344
12DM-4X35	35	4	1.104	28.1	1,147	1,707

1,000 V Multiconductor With Overall Shield (IEC)

Bare Copper, XLPE Ins., Aluminum/Mylar Overall Shield, LSZH Jacket, SHF1, IEC 60092-350, 1,000 V, Lloyd's Register, ABS

SPECIFICATIONS

1. CONDUCTOR: Stranded bare copper Class 5
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. SHIELD: Overall aluminum/Mylar
4. JACKET: Black low smoke zero halogen thermoplastic; 85°C; SHF1; -35°C cold impact; -40°C cold bend
5. FLAME RATING: IEC 60332-3 Category 'A'
6. TEMPERATURE: 90°C
7. VOLTAGE: 1000V
8. STANDARDS: In accordance with IEC 60092-350
9. MARINE APPROVALS: Lloyd's Register, ABS
10. COLOUR CODING: 3/C (Black, Brown, Grey); 4/C (Black, Blue, Brown, Grey); 5/C and up (Black Number Coded)

Anixter No.	Conductor Size	No. of Conductors	Overall Diameter		Approx. Weight	
	mm²		in.	mm	lb. /1,000 ft.	kg/km
1.5 mm²						
12HM-3X1.5	1.5	3	0.384	9.7	93	139
12HM-4X1.5	1.5	4	0.416	10.6	111	166
12HM-7X1.5	1.5	7	0.499	12.7	161	240
12HM-12X1.5	1.5	12	0.652	16.6	258	384
4.0 mm²						
12HM-3X4	4	3	0.490	12.5	167	249

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250 V Twisted Pair (IEC)

Bare Copper, XLPE Ins., Aluminum/Mylar Shield, LSZH Jacket, SHF1, IEC 60092-350, 250 V, Lloyd's Register, ABS

SPECIFICATIONS

1. CONDUCTOR: Stranded bare copper Class 5
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. SHIELD: Overall or individual and overall aluminum/Mylar
4. JACKET: Black low smoke zero halogen thermoplastic; 85°C; SHF1; -35°C cold impact; -40°C cold bend
5. FLAME RATING: IEC 60332-3 Category 'A'
6. TEMPERATURE: 90°C
7. VOLTAGE: 250 V
8. STANDARDS: In accordance with IEC 60092-350
9. MARINE APPROVALS: Lloyd's Register; ABS
10. COLOUR CODING: Pair (Blue, White)

Anixter No.	Conductor Size	No. of Conductors	Overall Diameter		Approx. Weight	
	mm^2		in.	mm	lb./1,000 ft.	kg/km
0.75 mm^2 PAIR						
12GM-1PRX0.75	0.75	1 Pair	0.269	6.8	47	70
12GM-2PRX0.75	0.75	2 Pair	0.436	11.1	102	153
12GM-4PRX0.75	0.75	4 Pair	0.511	13.0	153	227
12GM-8PRX0.75	0.75	8 Pair	0.663	16.8	255	380
1.5 mm^2 PAIR						
12GM-1PRX1.5	1.5	1 Pair	0.335	8.5	70	104
12GM-2PRX1.5	1.5	2 Pair	0.546	13.9	156	231

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11

Thermocouple Cable

Section 11 Thermocouple Cable

Thermocouple Grade Wire "328" Series. P.11-3

Thermocouple Extension "327" Series. P.11-4

Thermocouple Extension Wire and Cable "327" Series. P.11-5

Thermocouple Grade Wire “328” Series

Parallel Conductors (Duplex)

SPECIFICATIONS

1. CONSTRUCTION: Two (solid or stranded) parallel conductors (duplex)
2. CALIBRATION: Types J, K, T, E and R/S are available
3. INSULATION AND JACKET: Available in a variety of constructions (see table)
4. TEMPERATURE: Stainless steel overbraid (1400°F/760°C); Inconel overbraid (1800°F/982°C); tinned copper overbraid (400°F/204°C) are available upon request

APPLICATIONS

Glass braided insulation/jacket will not be suitable for moisture; this cable can not be installed in EMT conduit for long runs.

Anixter No.	Conductor Size AWG	No. of Conductors	Construction	Insulation	Jacket	Temperature °C	Temperature °F	Nominal O.D. in.	ANSI Colour Code
328-110-1411X*	14	2	Solid	Glass Braid	Glass Braid	482	900	0.12 x 0.20	Yes
328-110-1611X	16	2	Solid	Glass Braid	Glass Braid	482	900	0.11 x 0.19	Yes
328-110-2011X	20	2	Solid	Glass Braid	Glass Braid	482	900	0.05 x 0.09	Yes
328-110-2021X	20	2	Stranded	Glass Braid	Glass Braid	482	900	0.05 x 0.10	Yes
328-110-2411X	24	2	Solid	Glass Braid	Glass Braid	482	900	0.04 x 0.07	Yes
328-110-2421X	24	2	Stranded	Glass Braid	Glass Braid	482	900	0.04 x 0.07	Yes
328-220-2011X	20	2	Solid	TFE Tape	TFE Tape	260	500	0.06 x 0.10	Yes
328-220-2411X	24	2	Solid	TFE Tape	TFE Tape	260	500	0.04 x 0.07	Yes
328-330-2011X	20	2	Solid	Hi-Temp	Hi-Temp	704	1300	0.08 x 0.13	Yes
328-440-2011X	20	2	Solid	Vitreous Silica	Vitreous Silica	871	1600	0.10 x 0.15	Yes
328-660-1611X	16	2	Solid	FEP	FEP	204	400	0.11 x 0.19	Yes
328-660-2011X	20	2	Solid	FEP	FEP	204	400	0.07 x 0.12	Yes

*Note: Substitute J, K, T, E for suffix “X” in Anixter part number.

Thermocouple Extension “327” Series

Parallel Conductors (Duplex), PVC Insulation, PVC Jacket

SPECIFICATIONS

1. CONSTRUCTION: (solid or stranded) parallel conductors (duplex)
2. CALIBRATION: Types JX, KX, TX and EX
3. INSULATION: Polyvinyl Chloride (PVC)
4. JACKET: Polyvinyl Chloride (PVC)
5. TEMPERATURE: 105°C (221°F)

APPLICATIONS

Used to economically extend the thermocouple signal in steel plants, pulp and paper, glass, automotive, petrochemical, heat treating and food processing industries.

Anixter No.	Conductor Size AWG	No. of Conductors	Construction	Insulation	Jacket	Nominal O.D. in.	ANSI Colour Code
327-200-1402-XX	14	2	Solid	PVC	PVC	0.128 x 0.224	Yes
327-200-1602-XX	16	2	Solid	PVC	PVC	0.111 x 0.190	Yes
327-200-2002-XX	20	2	Solid	PVC	PVC	0.090 x 0.148	Yes
327-201-2002-XX	20	2	Stranded	PVC	PVC	0.108 x 0.185	Yes

Note: Substitute JX, KX, TX, EX for suffix “XX” in Anixter part number.

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Thermocouple Extension Wire and Cable "327" Series

Multipair, Shielded, PVC Insulation, PVC Jacket

SPECIFICATIONS

1. CONDUCTOR: 16 AWG or 20 AWG solid thermocouple alloy calibrated to ANSI MC96.1
2. INSULATION: TW75 PVC CSA (-40°C) 105°C dry/75°C wet
3. THICKNESS: 16 AWG (0.025 in.), 20 AWG (0.020 in.)
4. SHIELDING: Single pair: overall aluminum/polyester with STC drain wire.
   Multipair: Individual/polyester with STC drain wire plus overall aluminum/polyester with STC drain wire
5. ARMOUR (Optional): Available with interlocked aluminum or galvanized steel armour to CSA C22.2 No. 174-M1984 Hazardous Locations (HL)
6. JACKET: Both inner and outer (where applicable) jackets are FT4 rated PVC (-40°C to 90°C); nylon rip cord included. Low acid gas; complies with CSA C22.2 No. 0.3, Clause 4.31 for maximum acid gas evolution of 14%.
7. STANDARDS: In accordance with CSA C22.2 No.239

APPLICATIONS

Unarmoured: Suitable for installation in raceways other than cable trays. Also suitable for outdoor applications, when supported by a messenger.
Armoured: Suitable for installation in troughs, channels, tray and direct burial applications. These cables are designed for use in Class 1, Division 1 hazardous locations or, nonhazardous location where harsh conditions exist.

Anixter No.	Conductor Size AWG	No. of Pairs	Insulation	Jacket	Shield	O.D. in.	O.D. mm
UNARMOURED							
327-521-1601-XX	16	1	PVC	PVC	Overall	0.260	6.60
327-531-2004-XX	20	4	PVC	PVC	Ind. & Overall	0.441	11.20
327-531-2008-XX	20	8	PVC	PVC	Ind. & Overall	0.561	14.25
327-531-2012-XX	20	12	PVC	PVC	Ind. & Overall	0.672	17.07
327-531-2016-XX	20	16	PVC	PVC	Ind. & Overall	0.744	18.90
327-531-2024-XX	20	24	PVC	PVC	Ind. & Overall	0.952	24.18
327-531-2036-XX	20	36	PVC	PVC	Ind. & Overall	1.082	27.48

Anixter No.	Conductor Size AWG	No. of Pairs	Insulation	Jacket	O.D. Over Armour in.	O.D. Over Armour mm	O.D. Over Jacket in.	O.D. Over Jacket mm
ARMOURED (ALUMINUM INTERLOCKED)								
327-529-1601-XX	16	1	PVC	PVC	0.495	12.57	0.575	14.61
327-539-2004-XX	20	4	PVC	PVC	0.672	17.07	0.792	20.12
327-5291-2008-XX	20	8	PVC	PVC	0.797	20.24	0.917	23.29
327-529-2012-XX	20	12	PVC	PVC	0.922	23.42	1.042	26.47
327-529-2016-XX	20	16	PVC	PVC	1.040	26.42	1.160	29.46
327-529-2024-XX	20	24	PVC	PVC	1.240	31.50	1.400	35.56
327-529-2036-XX	20	36	PVC	PVC	1.365	34.67	1.525	38.74

NOTE: Substitute JX, KX, TX, EX or SX for suffix "XX" in Anixter part number.

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12

Automotive Wire

Section 12 Automotive Wire

Type SXL SAE J1128. . . . . P.12-3

Type GXL SAE J1128. . . . . P.12-4

Type TXL SAE J1128. . . . . P.12-5

Type GPT SAE J1128. . . . . P.12-6

Type TWP SAE J1128. . . . . P.12-7

Type SGT SAE J1127 Battery Cable. P.12-8

Type SGX SAE J1127 Battery Cable. P.12-9

Colour Coding. P.12-10

Type SXL SAE J1128

Type SXL SAE J1128

SPECIFICATIONS

1. CONDUCTOR: Bare copper
2. INSULATION: Cross-Linked Polyethylene (XLP)
3. STANDARDS: SAE J1128; Ford (ESB-M1L85-A); Chrysler (MS-5919)
4. TEMPERATURE: -40°C to 125°C
5. NOMINAL VOLTAGE: 60 V DC (25 V AC) or less

APPLICATIONS

For general circuit wiring where resistance to oxidation at higher temperatures is necessary. Use where heat and flame resistance is a stringent requirement, such as in the engine compartment of vehicles.

Anixter No.	Conductor Size	Stranding	Wall Thickness Minimum		Nominal O.D.		Approx. Weight
	AWG		in.	mm	in.	mm	lb./1,000 ft.
6SXL-2001-XX	20	7 x 26	0.030	0.762	0.096	2.44	7
6SXL-1801-XX	18	19 x 30	0.030	0.762	0.102	2.59	9.3
6SXL-1601-XX	16	19 x 29	0.032	0.812	0.119	3.00	12.4
6SXL-1401-XX	14	19 x 27	0.035	0.889	0.139	3.48	18.9
6SXL-1201-XX	12	19 x 25	0.037	0.939	0.163	4.06	27.4
6SXL-1001-XX	10	19 x 23	0.041	1.040	0.193	4.85	41.4
6SXL-0801-XX	8	19 x 21	0.043	1.090	0.234	5.94	61.2

1. Available on reels or in a drumpack
2. Striped and solid colours available with custom printing and/or numbering
3. Available cut and stripped to length, ready for termination
4. For 4 AWG through 4/0 AWG see SGX SAE J1127

Type GXL SAE J1128

Type GXL SAE J1128

SPECIFICATIONS

1. CONDUCTOR: Bare copper
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. STANDARDS: SAE J1128; Ford (ESB-M1L85-A); Chrysler (MS-8900)
4. TEMPERATURE: -40°C to 125°C
5. NOMINAL VOLTAGE: 60 V DC (25 V AC) or less

APPLICATIONS

For general circuit wiring where resistance to oxidation at higher temperatures is necessary. Use where heat and flame resistance is a stringent requirement, such as in the engine compartment of vehicles.

Anixter No.	Conductor Size	Stranding	Wall Thickness Minimum		Nominal O.D.		Approx. Weight
	AWG		in.	mm	in.	mm	lb./1,000 ft.
6GXL-2001-XX	20	7 x 28	0.023	0.584	0.086	2.18	6.1
6GXL-1801-XX	18	16 x 30*	0.023	0.584	0.092	2.34	7.9
6GXL-1601-XX	16	19 x 29	0.023	0.584	0.103	2.62	10.5
6GXL-1401-XX	14	19 x 27	0.023	0.584	0.117	2.7	15.9
6GXL-1201-XX	12	19 x 25	0.026	0.660	0.142	3.61	24.2
6GXL-1001-XX	10	19 x 23	0.031	0.787	0.179	4.55	37.8
6GXL-0801-XX	8	19 x 21	0.037	0.940	0.216	5.49	68

* Alternate consturction 19 x 31

1. Available on reels or in a drumpack
2. Striped and solid colours available with custom printing and/or numbering
3. Available cut and stripped to length, ready for termination

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Type TXL SAE J1128

Type TXL SAE J1128

SPECIFICATIONS

1. CONDUCTOR: Bare copper
2. INSULATION: Cross-Linked Polyethylene (XLP)
3. STANDARDS: SAE J1128; Ford (ESB-M1L123-A); Chrysler (MS-8288)
4. TEMPERATURE: -40°C to 125°C
5. NOMINAL VOLTAGE: 60 V DC (25 V AC) or less

APPLICATIONS

For general circuit wiring where resistance to oxidation at higher temperatures is necessary. Use where heat and flame resistance is a stringent requirement, such as in the engine compartment of vehicles.

Anixter No.	Conductor Size	Stranding	Wall Thickness Minimum		Nominal O.D.		Approx. Weight
	AWG		in.	mm	in.	mm	lb./1,000 ft.
6TXL-2201-XX	22	7 x 30	0.406	0.016	0.062	1.70	3.8
6TXL-2001-XX	20	7 x 28	0.406	0.016	0.070	1.90	5.1
6TXL-1801-XX	18	19 x 30	0.406	0.016	0.078	2.20	6.9
6TXL-1601-XX	16	19 x 29	0.406	0.016	0.089	2.40	9.2
6TXL-1401-XX	14	19 x 27	0.406	0.016	0.102	2.70	14.4
6TXL-1201-XX	12	19 x 25	0.457	0.018	0.127	3.30	22.8
6TXL-1001-XX	10	19 x 23	0.508	0.020	0.155	4.00	34.8
6TXL-0801-XX	8	19 x 21	0.559	0.020	0.191	4.90	52.1

1. For use in automotive application where reduced diameter and weight is required
2. Available on reels or in a drumpack
3. Striped and solid colours available with custom printing and/or numbering
4. Available cut and stripped to length, ready for termination

Type GPT SAE J1128

Type GPT SAE J1128

SPECIFICATIONS

1. CONDUCTOR: Bare copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. STANDARDS: SAE J1128; Ford (ESF-M1L85-A); Chrysler (MS-3450)
4. TEMPERATURE: -40°C to 80°C
5: NOMINAL VOLTAGE: 60 V DC (25 V AC) or less

APPLICATIONS

For general circuit wiring per SAE J1128.

Anixter No.	Conductor Size	Stranding	Wall Thickness Minimum		Nominal O.D.		Approx. Weight
	AWG		in.	mm	in.	mm	lb./1,000 ft.
6GPT-2001-XX	20	7 x 28	0.023	0.584	0.084	2.13	6
6GPT-1801-XX	18	16 x 30	0.023	0.584	0.089	2.34	7.7
6GPT-1601-XX	16	19 x 29	0.023	0.584	0.103	2.62	10.3
6GPT-1401-XX	14	19 x 27	0.023	0.584	0.117	2.97	15.6
6GPT-1201-XX	12	19 x 25	0.026	0.660	0.142	3.61	23.8
6GPT-1001-XX	10	19 x 23	0.031	0.787	0.177	4.50	37.2
6GPT-0801-XX	8	19 x 21	0.037	0.940	0.222	5.64	57.3

1. Available on reels or in a drumpack
2. Striped and solid colours available with custom printing and/or numbering
3. Available cut and stripped to length, ready for termination
4. For 6 AWG through 4/0 AWG see SGX SAE J1127

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Type TWP SAE J1128

Type TWP SAE J1128

SPECIFICATIONS

1. CONDUCTOR: Bare copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. STANDARDS: SAE J1128; Ford (ESB-M1L120-A); Chrysler (MS-7889)
4. TEMPERATURE: -40°C to 80°C
5. NOMINAL VOLTAGE: 60 V DC (25 V AC) or less

APPLICATIONS

Used as general circuit wiring in the body and for lamps.

Anixter No.	Conductor Size	Stranding	Wall Thickness Minimum		Nominal O.D.		Approx. Weight
	AWG		in.	mm	in.	mm	lb./1,000 ft.
6TWP-2201-XX	22	7 x 30	0.016	0.406	0.062	1.57	3.3
6TWP-2001-XX	20	7 x 28	0.016	0.406	0.070	1.78	4.9
6TWP-1801-XX	18	16 x 30	0.016	0.406	0.078	1.98	6.7
6TWP-1601-XX	16	19 x 29	0.016	0.406	0.089	2.26	9.0
6TWP-1401-XX	14	19 x 27	0.016	0.406	0.103	2.62	14.1
6TWP-1201-XX	12	19 x 25	0.018	0.457	0.126	3.20	21.6
6TWP-1001-XX	10	19 x 23	0.020	0.508	0.155	3.94	33.8

1. For use in automotive applications where reduced diameter and weight is required
2. Available for reels or in a drumpack
3. Striped or solid colours available with custom printing and/or numbering
4. Available cut and stripped to length, ready for termination

Type SGT SAE J1127 Battery Cable

Type SGT SAE J1127 Battery Cable

SPECIFICATIONS

1. CONDUCTOR: Bare copper
2. INSULATION: Polyvinyl Chloride (PVC)
3. STANDARDS: SAE J1127
4. TEMPERATURE: -40°C TO 105°C
5. NOMINAL VOLTAGE: 60 V DC (25 V AC) or less

APPLICATIONS

For use in starter and battery ground circuits.

Anixter No.	Conductor Size	Stranding	Wall Thickness Minimum		Nominal O.D.		Approx. Weight
	AWG		in.	mm	in.	mm	lb./1,000 ft.
5JB-0601-XX	6	133	0.060	1.52	0.310	7.87	106
5JB-0401-XX	4	133	0.065	1.65	0.356	9.04	150
5JB-0201-XX	2	133	0.065	1.65	0.426	10.74	239
5JB-0101-XX	1	259	0.065	1.65	0.458	11.63	305
5JB-1011-XX	1/0	1,026	0.065	1.65	0.525	13.34	362
5JB-2021-XX	2/0	1,254	0.065	1.65	0.550	13.97	453
5JB-3031-XX	3/0	1,615	0.078	1.98	0.641	16.28	581
5JB-4041-XX	4/0	2,052	0.078	1.98	0.700	17.78	737

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Type SGX SAE J1127 Battery Cable

Type SGX SAE J1127 Battery Cable

SPECIFICATIONS

1. CONDUCTOR: Bare copper
2. INSULATION: Cross-Linked Polyethylene (XLPE)
3. STANDARDS: SAE J1127
4. TEMPERATURE: -40°C TO 125°C
5. NOMINAL VOLTAGE: 60 V DC (25 V AC) or less

APPLICATIONS

For use in starter and battery circuits where resistance to abrasion, heat and aging is desirable.

Anixter No.	Conductor Size	Stranding	Wall Thickness Minimum		Nominal O.D.		Approx. Weight
	AWG		in.	mm	in.	mm	lb./1,000 ft.
5JBX-0601-XX	6	133	0.060	1.52	0.315	8.00	111
5JBX-0401-XX	4	133	0.065	1.65	0.374	9.49	167
5JBX-0201-XX	2	133	0.065	1.65	0.428	10.87	253
5JBX-0101-XX	1	259	0.065	1.65	0.460	11.68	307
5JBX-1011-XX	1/0	1,026	0.065	1.65	0.523	13.28	369
5JBX-2011-XX	2/0	1,254	0.065	1.65	0.578	14.68	461
5JBX-3011-XX	3/0	1,615	0.078	1.98	0.654	16.61	589
5JBX-4041-XX	4/0	2,052	0.078	1.98	0.714	18.13	746

Colour Coding

Colour Coding

First colour indicates basic or solid colour; subsequent colours indicate tracers.

1	Brown
2	Red
3	Orange
4	Yellow
D5	Dark Green
D6	Dark Blue
7	Violet
8	Gray
9	White
0	Black
L5	Light Green
L6	Light Blue
T	Tan
P	Pink

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Industrial Automation

13

Section 13 Industrial Automation

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Industrial Ethernet Cables

Industrial Ethernet Cables – Applicable Selection Criteria

Copper Ethernet cables come primarily in Category 5e for 10/100 Mb (Fast Ethernet) and Category 6 for 1,000 Mb (Gigabit). The most common construction is solid conductor, unshielded twisted pair. Other modifications are available for additional flexibility and EMI protection.

Use the chart in the Product Selection Guide on the next page to find the right industrial Ethernet cable for your environment. Locate the cable type, desired color and whether you want a plenum or nonplenum cable. Then, choose the appropriate Level for your environment.

For more information on how the Levels are determined, visit anixter.com/levels.

	Criteria	Level 1	Level 2	Level 3
Mechanical	Pull Tension	20 lb.	40 lb.	40 lb.
	Abrasion	N/A	45 Cycles Tested Per UL 2556	75 Cycles Tested Per UL 2556
	Shock	N/A	N/A	N/A
	Vibration	N/A	N/A	N/A
Climate	UV	N/A	UL 444 Sect. 7.22. Tested Per UL 2556	UL 444 Sect. 7.22. Tested Per UL 2556
	Install Temperature	N/A	-10ºC to 60ºC	-20ºC to 60ºC
	Operating Temperature	0ºC to 60ºC	-10ºC to 60ºC	-40ºC to 70ºC
	Humidity	N/A	N/A	N/A
	Oil Resistance	N/A	UL 1581 Table 50.182 7 Days at 60ºC	UL 1581 Table 50.182 7 Days at 60ºC
Ingress	Ingress Protection	N/A	N/A	N/A

Levels Defined

Level 1

Level 1 is a controlled area located inside an industrial facility where cabling components are secured from physical damage and protected from harsh or industrial environments. This level is typically located inside a climate-controlled area where the connecting and reconnecting of cables and patch cords is infrequent. These areas can include industrial offices, control rooms and environmentally controlled enclosures.

Level 2

Level 2 is located inside an industrial facility where cabling and components are subjected to more extreme ambient temperatures, humidity and potential damage. This level is typically located inside a light industrial facility where machines and devices require occasional connection and reconnection for maintenance and movement. These areas could include assembly, dry packaging, warehouse and enclosed cabinets.

Level 3

Level 3 is located in a harsh industrial area where cabling and components are exposed to oil, solvents, cleaning agents, lubricants, water, wide varying temperatures, humidity and dust. These areas can be subject to wash downs, heavy vibrations and occasional forces of shock. Machine operators frequently connect and reconnect plugs and receptacles to move, clean or maintain equipment. These areas could include automation islands, robotics, welding, heavy machining, industrial equipment and exposed environments.

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Industrial Ethernet Cables

Industrial Ethernet Cables – Product Selection Guide

Cable Type	Colour	Plenum or Nonplenum	Level 1	Level 2	Level 3	Solid or Stranded	Shielded or Unshielded
Cat 5e 10/100	Blue	Nonplenum	L1-5E-SOL-UTP-06	-	-	Solid	Unshielded
		Plenum	-	-	-	Solid	Unshielded
	White	Nonplenum	L1-5E-SOL-UTP-01	-	-	Solid	Unshielded
		Plenum	L1-5E-SOL-UTP-P-01	-	-	Solid	Unshielded
	Black	Nonplenum	-	L2-5E-SOL-UTP-02	L3-5E-SOL-UTP-02	Solid	Unshielded
Modifiers to Cat 5e							
EMI (Shielded)	Blue	Nonplenum	L1-5E-SOL-SHLD-06	-	-	Solid	Unshielded
		Plenum	L1-5E-SOL-SHLD-P-06	-	-	Solid	Unshielded
	Black	Nonplenum	-	L2-5E-SOL-SHLD-02	L3-5E-SOL-SHLD-02	Solid	Shielded
Flexibility (Stranded)	Black	Nonplenum	-	L2-5E-STR-UTP-02	L3-5E-STR-UTP-02	Stranded	Unshielded
EMI and Flexibility (Shielded and Stranded)	Black	Nonplenum	-	L2-5E-STR-SHLD-02	L3-5E-STR-SHLD-02	Stranded	Shielded

Cable Type	Colour	Plenum or Nonplenum	Level 1	Level 2	Level 3	Solid or Stranded	Shielded or Unshielded
Cat 6 Gigabit	Blue	Nonplenum	L1-6-SOL-UTP-06	-	-	Solid	Unshielded
		Plenum	L1-6-SOL-UTP-P-06	-	-	Solid	Unshielded
	Black	Nonplenum	-	L2-6-SOL-UTP-02	L3-6-SOL-UTP-02	Solid	Unshielded
Modifiers to Cat 6							
EMI (Shielded)	Blue	Nonplenum	L1-6-SOL-SHLD-06	-	-	Solid	Shielded
		Plenum	L1-6-SOL-SHLD-P-06	-	-	Solid	Shielded
	Black	Nonplenum	-	L2-6-SOL-SHLD-02	L3-6-SOL-SHLD-02	Solid	Shielded

Industrial Ethernet Patch Cords

Industrial Ethernet Cable Patch Cords – Applicable Selection Criteria

Copper Ethernet patch cords for Category 5e and 6 come in an assortment of lengths and connector styles. Flexibility is often a desirable trait for patch cords, given bends that are required for routing. Patch cords can be used between patch panels and Ethernet switches but also for termination between Ethernet switches and devices.

Use the chart in the Product Selection Guide on the next page to find the right patch cord for your environment. Locate the cable type and length, then choose the appropriate Level for your environment. For more information on how the Levels are determined, visit anixter.com/levels.

	Criteria	Level 1	Level 2	Level 3
Mechanical	Pull Tension	20 lb.	40 lb.	40 lb.
	Abrasion	N/A	45 Cycles Tested Per UL 2556	75 Cycles Tested Per UL 2556
	Shock	N/A	N/A	N/A
	Vibration	N/A	N/A	N/A
Climate	UV	N/A	UL 444 Sect. 7.22. Tested Per UL 2556	UL 444 Sect. 7.22. Tested Per UL 2556
	Install Temperature	N/A	-10ºC to 60ºC	-20ºC to 60ºC
	Operating Temperature	0ºC to 60ºC	-10ºC to 60ºC	-40ºC to 70ºC
	Humidity	N/A	N/A	N/A
	Oil Resistance	N/A	UL 1581 Table 50.182/7 Days at 60ºC	UL 1581 Table 50.182/7 Days at 60ºC
Ingress	Ingress Protection	N/A	IP20	IP67

Levels Defined

Level 1

Level 1 is a controlled area located inside an industrial facility where cabling components are secured from physical damage and protected from harsh or industrial environments. This level is typically located inside a climate-controlled area where the connecting and reconnecting of cables and patch cords is infrequent. These areas can include industrial offices, control rooms and environmentally controlled enclosures.

Level 2

Level 2 is located inside an industrial facility where cabling and components are subjected to more extreme ambient temperatures, humidity and potential damage. This level is typically located inside a light industrial facility where machines and devices require occasional connection and reconnection for maintenance and movement. These areas could include assembly, dry packaging, warehouse and enclosed cabinets.

Level 3

Level 3 is located in a harsh industrial area where cabling and components are exposed to oil, solvents, cleaning agents, lubricants, water, wide varying temperatures, humidity and dust. These areas can be subject to wash downs, heavy vibrations and occasional forces of shock. Machine operators frequently connect and reconnect plugs and receptacles to move, clean or maintain equipment. These areas could include automation islands, robotics, welding, heavy machining, industrial equipment and exposed environments.

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Industrial Ethernet Patch Cords

Industrial Ethernet Cable Patch Cords – Product Selection Guide

Cable Type	Length (m)	Level 1 M to M RJ45 Connectors	Level 2 M to M Ruggadized RJ45	Level 3 M to M M12 Connectors	Solid or Stranded	Shielded or Unshielded
Cat 5e 10/100	1	All Level 1 Patch Cords Come Stranded	L2-1M-CAT5	All Level 3 Patch Cords Come Stranded	Solid	Unshielded
	2		L2-2M-CAT5		Solid	Unshielded
	3		L2-3M-CAT5		Solid	Unshielded
	5		L2-5M-CAT5		Solid	Unshielded
Modifiers to Cat 5e						
EMI (Shielded)	1	-	L2-1M-CAT5-SHLD	-	Solid	Shielded
	2	-	L2-2M-CAT5-SHLD	-	Solid	Shielded
	3	-	L2-3M-CAT5-SHLD	-	Solid	Shielded
	5	-	L2-5M-CAT5-SHLD	-	Solid	Shielded
Flexibility (Stranded)	1	L1-1M-CAT5-STR	L2-1M-CAT5-STR	-	Stranded	Unshielded
	2	L1-2M-CAT5-STR	L2-2M-CAT5-STR	L3-2M-CAT5-STR	Stranded	Unshielded
	3	L1-3M-CAT5-STR	L2-3M-CAT5-STR	-	Stranded	Unshielded
	5	L1-5M-CAT5-STR	L2-5M-CAT5-STR	L3-5M-CAT5-STR	Stranded	Unshielded
	10	-	-	L3-10M-CAT5-STR	Stranded	Unshielded
EMI and Flexibility (Shielded and Stranded)	1	-	L2-1M-CAT5-STR-SHLD	-	Stranded	Shielded
	2	-	L2-2M-CAT5-STR-SHLD	L3-2M-CAT5-STR-SHLD	Stranded	Shielded
	3	-	L2-3M-CAT5-STR-SHLD	-	Stranded	Shielded
	5	-	L2-5M-CAT5-STR-SHLD	L3-5M-CAT5-STR-SHLD	Stranded	Shielded
	10	-	-	L3-10M-CAT5-STR-SHLD	Stranded	Shielded

Cable Type	Length (m)	Level 1 M to M RJ45 Connectors	Level 2 M to M Ruggadized RJ45	Level 3 M to M M12 Connectors	Solid or Stranded	Shielded or Unshielded
Cat 6 Gigabit	1	L1-1M-CAT6	L2-1M-CAT6	-	Solid	Unshielded
	2	L1-2M-CAT6	L2-2M-CAT6	-	Solid	Unshielded
	3	L1-3M-CAT6	L2-3M-CAT6	-	Solid	Unshielded
	5	L1-5M-CAT6	L2-5M-CAT6	-	Solid	Unshielded
Modifiers to Cat 6						
EMI (Shielded)	1	L1-1M-CAT6-SHLD	L2-1M-CAT6-SHLD	---	Solid	Shielded
	2	L1-2M-CAT6-SHLD	L2-2M-CAT6-SHLD	L3-2M-CAT6-SHLD	Solid	Shielded
	3	L1-3M-CAT6-SHLD	L2-3M-CAT6-SHLD	---	Solid	Shielded
	5	L1-5M-CAT6-SHLD	L2-5M-CAT6-SHLD	L3-5M-CAT6-SHLD	Solid	Shielded
	10	---	---	L3-10M-CAT6-SHLD	Solid	Shielded

Copper Ethernet Connectors

Copper Ethernet Connectors – Applicable Selection Criteria

Copper Ethernet connectors terminate Ethernet cables with RJ45 connectors for Levels 1 and 2 and M12 D-Coding for Level 3. Connectors come in styles suitable for Category 5e and Category 6.

Use the chart in the Product Selection Guide on the next page to find the right connector for your environment. Locate the cable type, and modifier if applicable, then choose the appropriate Level for your environment. For more information on how the Levels are determined, visit anixter.com/levels.

	Criteria	Level 1	Level 2	Level 3
Mechanical	Pull Tension	N/A	N/A	N/A
	Abrasion	N/A	N/A	N/A
	Shock	N/A	N/A	N/A
	Vibration	N/A	N/A	N/A
Climate	UV	N/A	N/A	N/A
	Install Temperature	N/A	-10ºC to 60ºC	-20ºC to 60ºC
	Operating Temperature	0ºC to 60ºC	-10ºC to 60ºC	-40ºC to 70ºC
	Humidity	N/A	N/A	N/A
	Oil Resistance	N/A	N/A	N/A
Ingress	Ingress Protection	N/A	IP20	IP67

Levels Defined

Level 1

Level 1 is a controlled area located inside an industrial facility where cabling components are secured from physical damage and protected from harsh or industrial environments. This level is typically located inside a climate-controlled area where the connecting and reconnecting of cables and patch cords is infrequent. These areas can include industrial offices, control rooms and environmentally controlled enclosures.

Level 2

Level 2 is located inside an industrial facility where cabling and components are subjected to more extreme ambient temperatures, humidity and potential damage. This level is typically located inside a light industrial facility where machines and devices require occasional connection and reconnection for maintenance and movement. These areas could include assembly, dry packaging, warehouse and enclosed cabinets.

Level 3

Level 3 is located in a harsh industrial area where cabling and components are exposed to oil, solvents, cleaning agents, lubricants, water, wide varying temperatures, humidity and dust. These areas can be subject to wash downs, heavy vibrations and occasional forces of shock. Machine operators frequently connect and reconnect plugs and receptacles to move, clean or maintain equipment. These areas could include automation islands, robotics, welding, heavy machining, industrial equipment and exposed environments.

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Copper Ethernet Connectors

Copper Ethernet Connectors – Product Selection Guide

Cable Type	Level 1	Level 2	Level 3	Solid or Stranded	Shielded or Unshielded
Cat 5e 10/100	L1-M-5E-RJ45	L2-M-5E-RJ45	L3-M-5E-M12-SHD-STR Fits Solid and Stranded, Unshielded and Shielded	Solid	Unshielded
Modifiers to Cat 5e					
EMI (Shielded)	L1-M-5E-RJ45-SHD	L2-M-5E-RJ45-SHD-STR Fits Solid and Stranded, Unshielded and Shielded	L3-M-5E-M12-SHD-STR Fits Solid and Stranded, Unshielded and Shielded	Solid	Shielded
Flexibility (Stranded)				Stranded	Unshielded
EMI and Flexibility (Shielded and Stranded)				Stranded	Shielded

Cable Type	Level 1	Level 2	Level 3	Solid or Stranded	Shielded or Unshielded
Cat 6 Gigabit	L1-M-6-RJ45-SOL-STR Fits Solid or Stranded	L2-M-6-RJ45-SHD-STR Fits Solid and Stranded, Unshielded and Shielded	L3-M-6-M12-SHD-STR Fits Solid and Stranded, Unshielded and Shielded	Solid and Stranded	Unshielded
Modifiers to Cat 6					
EMI (Shielded)	L1-M-6-RJ45-SHD-STR Fits Shielded, Stranded or Solid	L2-M-6-RJ45-SHD-STR Fits Solid and Stranded, Unshielded and Shielded	L3-M-6-M12-SHD-STR Fits Solid and Stranded, Unshielded and Shielded	Solid and Stranded	Shielded

Power Supplies

Power Supplies – Applicable Selection Criteria

For any system that depends on electronics, the proper power supply is required. Industrial power supplies are typically DIN-rail mountable, carry the appropriate approvals and are available to provide a range of amperages and voltages.

Use the chart in the Product Selection Guide on the next page to find your output voltage, input voltage (phase) and output amperage, then select your appropriate Level. For more information on how the Levels are determined, visit anixter.com/levels.

	Criteria	Level 1	Level 2	Level 3
Mechanical	Pull Tension	N/A	N/A	N/A
	Abrasion	N/A	N/A	N/A
	Shock	N/A	3(G) Peak, 11 MS, 18 Shocks	4(G) Peak, 22 MS, 18 Shocks
	Vibration	N/A	1G, 10–150 Hz	1G, 10–150 Hz
Climate	UV	N/A	N/A	N/A
	Install Temperature	N/A	N/A	N/A
	Operating Temperature	0ºC to 60ºC	-10ºC to 60ºC	-40ºC to 70ºC
	Humidity	N/A	10–90% Noncondensing	10–100% Condensing
	Oil Resistance	N/A	N/A	N/A
Ingress	Ingress Protection	N/A	IP20	IP67

Levels Defined

Level 1

Level 1 is a controlled area located inside an industrial facility where cabling components are secured from physical damage and protected from harsh or industrial environments. This level is typically located inside a climate-controlled area where the connecting and reconnecting of cables and patch cords is infrequent. These areas can include industrial offices, control rooms and environmentally controlled enclosures.

Level 2

Level 2 is located inside an industrial facility where cabling and components are subjected to more extreme ambient temperatures, humidity and potential damage. This level is typically located inside a light industrial facility where machines and devices require occasional connection and reconnection for maintenance and movement. These areas could include assembly, dry packaging, warehouse and enclosed cabinets.

Level 3

Level 3 is located in a harsh industrial area where cabling and components are exposed to oil, solvents, cleaning agents, lubricants, water, wide varying temperatures, humidity and dust. These areas can be subject to wash downs, heavy vibrations and occasional forces of shock. Machine operators frequently connect and reconnect plugs and receptacles to move, clean or maintain equipment. These areas could include automation islands, robotics, welding, heavy machining, industrial equipment and exposed environments.

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Power Supplies

Power Supplies – Product Selection Guide

Output Voltage	Input Voltage	Phase	Output Amps	Level 1	Level 2	Level 3
24	110	Single	2.5	L1-24V-2.5A-1P-DIN	---	---
24	110	Single	3.8	---	---	L3-24V-3.8A-1P
24	110	Single	5.0	L1-24V-5A-1P-DIN	L2-24V-5A-1P-S	---
24	110	Single	10	L1-24V-10A-1P-DIN	L2-24V-10A-1P-S	---
24	110	Single	20	L1-24V-20A-1P-DIN	L2-24V-20A-1P-S	---
24	110	Single	40	---	L2-24V-40A-1P-S	---
24	380–480	Three	10	L1-24V-10A-3P-DIN	L2-24V-10A-3P-S	---
24	380–480	Three	20	L1-24V-20A-3P-DIN	L2-24V-20A-3P-S	---
24	380–480	Three	40	L1-24V-40A-3P-DIN	L2-24V-40A-3P-S	---
48	110	Single	5	L1-48V-5A-1P-DIN	---	---
48	110	Single	10	L1-48V-10A-1P-DIN	---	---
48	380–480	Three	10	L1-48V-10A-3P-DIN	---	---
48	380–480	Three	20	L1-48V-20A-3P-DIN	---	---

Fiber Optic Cable

Fiber Optic Cable – Applicable Selection Criteria

Fiber optic cables are becoming ever more present in the industrial environment, as they are immune to electromagnetic interference and provide outstanding bandwidth. When considering fiber optic cables for the industrial environment, how the fiber optic cable is terminated is a key component in addition to the resistance to temperatures, abrasion, UV and lubricants. In the industrial environment, shorter lengths of fewer fibers are typically needed. It may not be practical to have to terminate the fibers using an enclosure and fan-out kits. When developing our Levels offerings, the ease of termination was taken heavily into consideration.

Use the chart in the Product Selection Guide on the next page to find the right fiber optic cable for your environment. Locate the fiber type, fiber count, and construction and whether you want a plenum or riser cable. Then, then choose the appropriate Level for your environment. For more information on how the Levels are determined, visit anixter.com/levels.

Level 1: Loose tube construction in riser and plenum, enclosure needed for connectorization
Level 2: Loose tube and tight buffer construction, enclosure needed for connectorization
Level 3: Tight buffer with additional jacket on individual fibers for secure connectorization

	Criteria	Level 1	Level 2	Level 3
Mechanical	Pull Tension	20 lb.	40 lb.	40 lb.
	Abrasion	N/A	45 Cycles Tested Per UL 2556	75 Cycles Tested Per UL 2556
	Shock	N/A	N/A	N/A
	Vibration	N/A	N/A	N/A
Climate	UV	N/A	UL 444 Sect. 7.22. Tested Per UL 2556	UL 444 Sect. 7.22. Tested Per UL 2556
	Install Temperature	N/A	-10ºC to 60ºC	-20ºC to 60ºC
	Operating Temperature	0ºC to 60ºC	-10ºC to 60ºC	-40ºC to 70ºC
	Humidity	N/A	N/A	N/A
	Oil Resistance	N/A	UL 1581 Table 50.182/7 Days at 60ºC	UL 1581 Table 50.182/7 Days at 60ºC
Ingress	Ingress Protection	N/A	N/A	N/A

Levels Defined

Level 1

Level 1 is a controlled area located inside an industrial facility where cabling components are secured from physical damage and protected from harsh or industrial environments. This level is typically located inside a climate-controlled area where the connecting and reconnecting of cables and patch cords is infrequent. These areas can include industrial offices, control rooms and environmentally controlled enclosures.

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14

Support and Supplies

Section 14 Support and Supplies

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3M Terminations

3M Termination Kits

FEATURES

1. Designed for indoor, outdoors and withstand most punishing environmental conditions
2. Single- and three-conductor cables
3. Each product covers a wide range of cable sizes (Unique Modular Approach)
4. Products for all types and sizes of medium-voltage cables (5-46 kV) and 69 kV cables
5. Cold shrink versions are designed with stress control built-in device
6. Silicone rubber with enhanced UV stability (sun-resistant) and improved hydrophobicity

APPLICATIONS

For use in termination of medium-voltage power cables in either indoor or outdoor applications, and meets or exceeds IEEE 48 requirements.

5 kV SHIELDED CABLES

INDOOR TUBULAR TERMINATIONS - COLD SHRINK

Anixter No.	Cable Size AWG/kcmil	BIL	Diameter Over Insulation in.
Tape/Wire Shielded Cable (Each kit makes three terminations)			
3M-7620-T-95	8 - 4	95 kV	0.32 - 0.59
3M-7621-T-95	2 - 3/0	95 kV	0.44 - 0.89
3M-7622-T-110	4/0 - 400	110 kV	0.64 - 1.08
3M-7624-T-110	500 - 750	110 kV	0.83 - 1.53
3M-7625-T-110	700 - 1500	110 kV	1.05 - 1.80
Jacketed Concentric Neutral Cable (Each kit makes one termination)			
3M-7642-T-110i	4/0 - 400	110 kV	0.64 - 1.08
3M-7644-T-110i	500 - 750	110 kV	0.83 - 1.53
3M-7645-T-110	700 - 1500	110 kV	1.05 - 1.80

5 kV SHIELDED CABLES

OUTDOOR SKIRTED TERMINATIONS - COLD SHRINK

Anixter No.	Cable Size AWG/kcmil	BIL	Diameter Over Insulation in.
Tape/Wire Shielded Cable (Each kit makes three terminations)			
3M-7620-S-2	8 - 4	95 kV	0.32 - 0.59
3M-7621-S-2	2 - 3/0	95 kV	0.44 - 0.89
3M-7622-S-2	4/0 - 400	110 kV	0.64 - 1.08
3M-7694-S-4	500 - 750	110 kV	0.83 - 1.53
3M-7695-S-4	700 - 1500	110 kV	1.05 - 1.80
Jacketed Concentric Neutral Cable (Each kit makes one termination)			
3M-7642-S-2i	4/0 - 400	110 kV	0.64 - 1.08
3M-7654-S-4i	500 - 750	110 kV	0.83 - 1.53
3M-7655-S-4i	700 - 1500	110 kV	1.05 - 1.80

Continued on next page > >

3M Terminations

3M Termination Kits (continued)

15 kV SHIELDED CABLES - INDOOR TUBULAR TERMINATIONS - COLD SHRINK

Anixter No.	Cable Size AWG/kcmil	BIL	Diameter Over Insulation in.
Tape/Wire Shielded Cable (Each kit makes three terminations)			
3M-7622-T-110	2 - 4/0	110 kV	0.64 - 1.08
3M-7624-T-110	4/0 - 500	110 kV	0.83 - 1.53
3M-7625-T-110	500 - 1000	110 kV	1.05 - 1.80
Jacketed Concentric Neutral Cable (Each kit makes one termination)			
3M-7642-T-110i	2 - 4/0	110 kV	0.64 - 1.08
3M-7644-T-110i	4/0 - 500	110 kV	0.83 - 1.53
3M-7645-T-110i	500 - 1000	110 kV	1.05 - 1.80

15 kV SHIELDED CABLES - OUTDOOR SKIRTED TERMINATIONS - COLD SHRINK

Anixter No.	Cable Size AWG/kcmil	BIL	Diameter Over Insulation in.
Tape/Wire Shielded Cable (Each kit makes three terminations)			
3M-7622-S-2	2 - 4/0	110 kV	0.64 - 1.08
3M-7694-S-4	4/0 - 500	150 kV	0.83 - 1.53
3M-7695-S-4	500 - 1000	150 kV	1.05 - 1.80
Jacketed Concentric Neutral Cable (Each kit makes one termination)			
3M-7642-S-2i	2 - 4/0	110 kV	0.64 - 1.08
3M-7654-S-4i	4/0 - 500	150 kV	0.83 - 1.53
3M-7655-S-4i	500 - 1000	150 kV	1.05 - 1.80
3M-7655-S-4i	500 - 1000	150 kV	1.05 - 1.80

25/28 kV SHIELDED CABLES - INDOOR TUBULAR TERMINATIONS - COLD SHRINK

Anixter No.	Cable Size AWG/kcmil	BIL	Diameter Over Insulation in.
Tape/Wire Shielded Cable (Each kit makes three terminations)			
3M-7693-T-150	2 - 4/0	150 kV	0.72 - 1.29
3M-7695-T-150	250 - 800	150 kV	1.05 - 1.80
3M-7696-T-152	900 - 1750	150 kV	1.53 - 2.32
Jacketed Concentric Neutral Cable (Each kit makes one termination)			
3M-7653-T-150i	2 - 4/0	150 kV	0.72 - 1.29
3M-7655-T-150i	250 - 800	150 kV	1.05 - 1.80
3M-7656-T-150i	900 - 1750	150 kV	1.53 - 2.32

25/28 kV SHIELDED CABLES - OUTDOOR SKIRTED TERMINATIONS - COLD SHRINK

Anixter No.	Cable Size AWG/kcmil	BIL	Diameter Over Insulation in.
Tape/Wire Shielded Cable (Each kit makes three terminations)			
3M-7693-S-4	2 - 4/0	150 kV	0.72 - 1.29
3M-7695-S-4	250 - 800	150 kV	1.05 - 1.80
3M-7696-S-4	900 - 1750	150 kV	1.53 - 2.32
Jacketed Concentric Neutral Cable (Each kit makes one termination)			
3M-7653-S-4i	2 - 4/0	150 kV	0.72 - 1.29
3M-7655-S-4i	250 - 800	150 kV	1.05 - 1.80
3M-7656-S-4i	900 - 1750	150 kV	1.53 - 2.32

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3M Terminations

3M Termination Kits (continued)

35 kV SHIELDED CABLES
INDOOR TUBULAR TERMINATIONS - COLD SHRINK

Anixter No.	Cable Size AWG/kcmil	BIL	Diameter Over Insulation in.
Tape/Wire Shielded Cable (Each kit makes three terminations)			
3M-7693-T-150	2 - 2/0	150 kV	0.72 - 1.29
3M-7695-T-150	3/0 - 600	150 kV	1.05 - 1.80
3M-7696-T-150	700 - 1500	150 kV	1.53 - 2.32
Jacketed Concentric Neutral Cable (Each kit makes one termination)			
3M-7653-T-150i	2 -2/0	150 kV	0.72 - 1.29
3M-7655-T-150i	3/0 - 600	150 kV	1.05 - 1.80
3M-7656-T-150i	700 - 1500	50 kV	1.53 - 2.32

35 kV SHIELDED CABLES
OUTDOOR SKIRTED TERMINATIONS - COLD SHRINK

Anixter No.	Cable Size AWG/kcmil	BIL	Diameter Over Insulation in.
Tape/Wire Shielded Cable (Each kit makes three terminations)			
3M-7693-S-4	2 - 4/0	150 kV	0.72 - 1.29
3M-7695-S-4	250 - 800	150 kV	1.05 - 1.80
3M-7696-S-4	900 - 1750	150 kV	1.53 - 2.32
Jacketed Concentric Neutral Cable (Each kit makes one termination)			
3M-7653-S-4i	2 - 4/0	150 kV	0.72 - 1.29
3M-7655-S-4i	250 - 800	150 kV	1.05 - 1.80
3M-7656-S-4i	900 - 1750	150 kV	1.53 - 2.32

46 kV SHIELDED CABLES
INDOOR AND OUTDOOR TERMINATIONS - COLD SHRINK

Anixter No.	Cable Size AWG/kcmil	BIL	Diameter Over Insulation in.
Tape/Wire Shielded and J CN/CN Cables (Each kit makes one termination)			
3M-4604N	4/0 - 600	250 kV	1.31 - 2.10
3M-4605N	600 - 1500	250 kV	1.80 - 2.66

69/72 kV SHIELDED CABLES
INDOOR AND OUTDOOR TERMINATIONS - COLD SHRINK

Anixter No.	Cable Size kcmil	Insulation Thickness in.	Jacket O.D. in.	Diameter Over Insulation in.
Tape/Corrugated/Wire Shielded (Each kit makes one termination)				
3M-7672-S-8	250 - 1750	0.650	2.45 - 3.35	1.94 - 3.08
3M-7672-S-8(RW)	251 - 1750	0.40 - 0.47	1.95 - 3.11	1.44 - 2.58

Note: The final selection criteria of this product is the are Diameter Over Insulation and Jacket O.D.

3M Termination Accessories

3M Termination Accessorires

REJACKETING KITS - INDOOR AND OUTDOOR USE - COLD SHRINK/COLD APPLIED

Anixter No.	Diameter Over Metallic Shield in.	Cable Size 5 kV	15 kV	25/28 kV
3M-RJK-1	0.6 - 0.8	1 - 3/0	1 - 2/0	N/A
3M-RJK-2	0.8 - 1.02	4/0 - 400	1/0 - 4/0	2 - 1/0
3M-RJK-3	1.02 - 1.28	500 - 750	250 - 450	2/0 - 250
3M-RJK-4	1.28 - 1.62	800 - 1000	500 - 750	300 - 500

REJACKETING SLEEVES - COLD APPLIED - INDOOR AND OUTDOOR

Anixter No.	Diameter Over Metallic Shield in.	Cable Size 5 kV	15 kV	25/28 kV
3M-RJS-2/3	0.60 - 0.80	1 - 3/0	1 - 2/0	N/A
3M-RJS-3/3	0.80 - 1.02	4/0 - 400	1/0 - 4/0	2 - 1/0
3M-RJS-4/3	1.02 - 1.28	500 - 750	250 - 450	2/0 - 250
3M-RJS-5/3	1.28 - 1.62	800 - 1000	500 - 750	300 - 500

BREAKOUT BOOTS - OUTDOOR USE - COLD SHRINK - THREE FINGERS

Anixter No.	Diameter Over Phase in.	Overall Jacket Diameter in.
3M-8561	0.48 - 0.72	1.17 - 1.94
3M-8563	0.82 - 1.18	1.92 - 3.10
3M-8564	1.02 - 1.63	2.52 - 4.32
3M-8565	1.09 - 1.94	2.60 - 4.70

BREAKOUT BOOTS - OUTDOOR USE - HEAT SHRINK - THREE FINGERS

Anixter No.	Diameter Over Phase in.	Overall Jacket Diameter in.
3M-SKE-3F/4	0.40 - 0.95	1.10 - 1.90
3M-SKE-3F/4.5	0.65 - 1.10	1.60 - 3.00
3M-SKE-3F/6	0.85 - 1.25	1.65 - 3.50
3M-SKE-3F/7	1.20 - 1.60	2.75 - 4.00

BREAKOUT BOOTS - OUTDOOR USE - HEAT SHRINK - FOUR FINGERS

Anixter No.	Diameter Over Phase in.	Overall Jacket Diameter in.
3M-SKE-4F/1+2	0.15 - 0.50	0.60 - 1.10
3M-SKE-4F/3+4	0.30 - 1.00	1.10 - 2.00
3M-SKE-4F/5	0.60 - 1.20	1.70 - 2.50
3M-SKE-4F/6	0.60 - 1.40	1.70 - 3.00

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3M Splices

3M Splice Kits

1 kV SINGLE-CONDUCTOR NON-ARMOURED CABLES

Anixter No.	Cable Size AWG/kcmil	Maximum Cable Outside Diameter in.
Resin Splices (Each kit makes one splice)		
3M-82-A	10 - 2	0.750
3M-82-A1	Up to 2 AWG	0.625
3M-82-A2	2 - 3/0	1.00
3M-82-A3	3/0 - 400	1.563

Anixter No.	Cable Size AWG/kcmil	Maximum Cable O.D. for Seal in.	Max. Cable O.D. in.	Max. Connector Length in.
Cold Shrink Splices (Each kit makes one splice)				
3M-8425-8	2 - 1/0	0.10	0.82	3.0
3M-8426-9M	2 - 4/0	0.40	1.18	5.0
3M-8427-12	250 - 400	0.69	1.38	8.0
3M-8428-12	500 - 800	0.95	1.94	8.0
3M-8428-18	500 - 800	0.95	1.94	14.0
3M-8429-18	900 - 1000	1.27	2.67	14.0
Heat Shrink Splices (Each kit makes one splice)				
3M-ITCSN-0400-48	12 - 6	0.40	0.15	48
3M-ITCSN-0800-48	8 - 1/0	0.80	0.20	48
3M-ITCSN-1100-48	2 - 4/0	1.10	0.37	48
3M-ITCSN-1500-48	3/0 - 400	1.50	0.50	48
3M-ITCSN-2000-48	250 - 750	2.0	0.65	48
3M-ITCSN-3000-48	600 - 1250	3.0	1.00	48

1C, 3C AND 4C - ARMOURED CABLES (TECK and RA90)

Anixter No.	Cable Size AWG/kcmil	Number of Conductors
Self Fusing Rubber + Armourcast		
3M-TS	14 - 4/0	1C, 3C or 4C
3M-TS	250 - 1000	1C
3M-TS1	250 - 1000	3C or 4C

Continued on next page > >

3M Splices

3M Splice Kits (continued)

5 kV UNSHIELDED - SINGLE-CONDUCTOR ARMOURED CABLE (TECK)

Anixter No.	Conductor Size AWG/kcmil
Cold Shrink Splices + Armourcast (Each kit makes one splice)	
3M-TS-5kVU-1C-8-4	8 - 4
3M-TS-5kVU-1C-3-300	3 - 300
3M-TS-5kVU-1C-300-1000	350 - 1000

5 kV UNSHIELDED - THREE-CONDUCTOR ARMOURED CABLE (TECK)

Anixter No.	Conductor Size AWG/kcmil
Cold Shrink Splices + Armourcast (Each kit makes one splice)	
3M-TS-5kVU-3C-8-4	8 - 4
3M-TS-5kVU-3C-3-300	3 - 300
3M-TS-5kVU-3C-300-1000	350 - 1000
Resin Splice (Each kit makes one splice)	
3M-5751	6 - 4
3M-5752	2 - 4/0
3M-5753	250 - 500

5 kV SHIELDED - SINGLE-CONDUCTOR NON-ARMOURED CABLE

Anixter No.	Cable Size Copper AWG/kcmil	Cable Size Aluminum AWG/kcmil	Maximum Cable Outside Diameter in.
Cold Shrink Splices (Each kit makes three splices)			
3M-5551	6 - 4/0	6 - 3/0	19.0
3M-5552	4/0 - 500	4/0 - 400	21.0
3M-5553	500 - 1000	500 - 1000	23.0

5 kV SHIELDED - SINGLE-CONDUCTOR ARMOURED CABLE (TECK)

Anixter No.	Conductor Size AWG/kcmil
Cold Shrink Splices + Armourcast (Each kit makes one splice)	
3M-TS-5kV-1C-6-3/0	6 - 3/0
3M-TS-5kV-1C-4/0-400	4/0 - 400
3M-TS-5kV-1C-500-1000	350 - 1000

5 kV SHIELDED - THREE-CONDUCTOR ARMOURED CABLE (TECK)

Anixter No.	Conductor Size AWG/kcmil
Cold Shrink Splices + Armourcast (Each kit makes one splice)	
3M-TS-5kV-3C-2-3/0	2 - 3/0
3M-TS-5kV-3C-4/0-500	4/0 - 500
3M-TS-5kV-3C-600-750	600 - 750

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3M Splices

3M Splice Kits (continued)

15 kV SHIELDED - SINGLE-CONDUCTOR JACKETED CONCENTRIC NEUTRAL CABLE

Anixter No.	Conductor Size AWG/kcmil	Diameter Over Insulation Range in.
Cold Shrink Splices (Each kit makes one splice)		
3M-5415Ai	2 - 4/0	0.64 - 1.01
3M-5416Ai	4/0 - 350	0.84 - 1.38
3M-5417Ai	350 - 750	1.04 - 1.70

15 kV SHIELDED - SINGLE-CONDUCTOR TAPE-SHIELDED CABLE

Anixter No.	Conductor Size AWG/kcmil	Diameter Over Insulation Range in.
Cold Shrink Splices (Each kit makes one splice)		
3M-5513A	2 - 4/0	0.64 - 1.01
3M-5514A	4/0 - 500	0.84 - 1.38
3M-5515A	350 - 750	1.04 - 1.70

15 kV SHIELDED - SINGLE-CONDUCTOR ARMOURED CABLE (TECK)

Anixter No.	Conductor Size AWG/kcmil
Cold Shrink Splices + Armourcast (Each kit makes one splice)	
3M-TS-15kV-1C-2-4/0	2 - 4/0
3M-TS-15kV-1C-4/0-500	4/0 - 500
3M-TS-15kV-1C-350-750	500 - 1000

15 kV SHIELDED - THREE-CONDUCTOR ARMOURED CABLE (TECK)

Anixter No.	Conductor Size AWG/kcmil
Cold Shrink Splices (Each kit makes one splice)	
3M-TS-15kV-3C-2-4/0	2 - 4/0
3M-TS-15kV-3C-4/0-500	4/0 - 500
3M-TS-15kV-3C-350-750	350 - 750

25/28 kV SHIELDED - SINGLE-CONDUCTOR JACKETED CONCENTRIC NEUTRAL CABLE

Anixter No.	Conductor Size AWG/kcmil	Diameter Over Insulation Range in.
Cold Shrink Splices (Each kit makes one splice)		
3M-5456Ai	1 - 250	0.84 - 1.36
3M-5457Ai	250 - 500	1.07 - 1.70
3M-5458Ai	500 - 1000	1.24 - 2.07

25/28 kV SHIELDED - SINGLE-CONDUCTOR TAPE SHIELDED CABLE

Anixter No.	Conductor Size AWG/kcmil	Diameter Over Insulation Range in.
Cold Shrink Splices (Each kit makes one splice)		
3M-5524A	1 - 250	0.84 - 1.36
3M-5525A	250 - 500	1.07 - 1.70
3M-5526A	500 - 1000	1.24 - 2.07

Continued on next page > >

3M Splices

3M Splice Kits (continued)

25/28 kV SHIELDED - SINGLE-CONDUCTOR ARMOURED CABLE (TECK)

Anixter No.	Cable Size AWG/kcmil
Cold Shrink Splice + Armourcast (Each kit makes one splice)	
3M-TS-25kV-1C-1-250	1 - 250
3M-TS-25kV-1C-250-750	250 - 500
3M-TS-25kV-1C-500-1000	500 - 1000

25/28 kV SHIELDED - THREE-CONDUCTOR ARMOURED CABLE (TECK)

Anixter No.	Cable Size AWG/kcmil
Cold Shrink Splices + Armourcast (Each kit makes one splice)	
3M-TS-5kVU-1C-8-4	8 - 4
3M-TS-5kVU-1C-3-300	3 - 300
3M-TS-5kVU-1C-300-1000	350 - 1000

35 kV SHIELDED - SINGLE-CONDUCTOR JACKETED CONCENTRIC NEUTRAL CABLE

Anixter No.	Cable Size AWG/kcmil	Diameter Over Insulation Range in.
Cold Shrink Splice (Each kit makes one splice)		
3M-5467Ai	1/0 - 350	1.07 - 1.70
3M-5468Ai	350 - 1000	1.24 - 2.07

35 kV SHIELDED - SINGLE-CONDUCTOR TAPE SHIELDED CABLE

Anixter No.	Cable Size AWG/kcmil	Diameter Over Insulation Range in.
Cold Shrink Splice (Each kit makes one splice)		
3M-5535A	1/0 - 350	1.07 - 1.70
3M-5536A	350 - 1000	1.24 - 2.07

35 kV SHIELDED - THREE-CONDUCTOR ARMOURED CABLE (TECK)

Anixter No.	Cable Size AWG/kcmil	Diameter Over Insulation Range in.
Cold Shrink Splice (Each kit makes one splice)		
3M-5535A	1/0 - 350	1.07 - 1.70
3M-5536A	350 - 1000	1.24 - 2.07

46 kV SHIELDED - SINGLE-CONDUCTOR JACKETED CONCENTRIC NEUTRAL CABLE

Anixter No.	Cable Size AWG/kcmil	Diameter Over Insulation Range in.
Cold Shrink Splice (Each kit makes one splice)		
3M-5477Ai	4/0 - 750	1.24 - 2.07

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TE Terminations

TE Connectivity Termination Kits (Heat Applied) HVT-Z

APPLICATIONS

- For use in the termination of medium-voltage power cables in either indoor or outdoor applications.
- For Copper Tape Shield, Wire Shield, UniShield and Lead Sheath Cables
- Class 1 termination per IEEE 48

5/8 kV INDOOR/OUTDOOR

Anixter No.	Vendor No.	Conductor Size Min.-Max.	Insulation Diameter in.	Jacket O.D. Max. in.
89652	HVT-Z-80-G/SG	#6 - #2 AWG	0.35 - 0.60	0.95
192791	HVT-Z-81-G/SG	#1 - 4/0 AWG	0.60 - 0.95	1.20
64673	HVT-Z-82-G/SG	250 - 500 kcmil	0.80 - 1.25	1.50
376314	HVT-Z-83-G/SG	600 - 1750 kcmil	1.10 - 1.75	2.10

15 kV INDOOR

Anixter No.	Vendor No.	Conductor Size Min.-Max.	Insulation Diameter in.	Jacket O.D. Max. in.
082362	HVT-Z-151-G	#4 - 1/0 AWG	0.60 - 0.95	1.20
283443	HVT-Z-152-G	2/0 - 350 kcmil	0.80 - 1.25	1.50
082360	HVT-Z-153-G	400 - 1000 kcmil	1.10 - 1.65	2.10

15 kV OUTDOOR

Anixter No.	Vendor No.	Conductor Size Min.-Max.	Insulation Diameter in.	Jacket O.D. Max. in.
189657	HVT-Z-151-SG	#4 - 1/0 AWG	0.60 - 0.95	1.20
138237	HVT-Z-152-SG	2/0 - 350 kcmil	0.80 - 1.25	1.50
138236	HVT-Z-153-SG	400 - 1000 kcmil	1.10 - 1.65	2.10

25/35 kV INDOOR

Anixter No.	Vendor No.	Conductor Size 25 kV Min.-Ma..	Conductor Size 35 kV Min.-Max.	Insulation Diameter in.	Jacket O.D. Max. in.
378034	HVT-Z-252/352-G	#2AWG - 250 kcmil	#1 - 1/0 AWG	0.80 - 1.25	1.50
378038	HVT-Z-253/353-G	300 - 750 kcmil	2 AWG - 500 kcmil	1.10 - 1.75	2.10
378045	HVT-Z-254/354-G	1000 - 2000 kcmil	750 - 1750 kcmil	1.60 - 2.45	2.75

25/35 kV OUTDOOR

Anixter No.	Vendor No.	Conductor Size 25 kV Min.-Max.	Conductor Size 35 kV Min.-Max.	Insulation Diameter in.	Jacket O.D. Max. in.
378036	HVT-Z-252/352SG	#2AWG - 250 kcmil	#1 - 1/0 AWG	0.80 - 1.25	1.50
378041	HVT-Z-253/353SG	300 - 750 kcmil	2 AWG - 500 kcmil	1.10 - 1.75	2.10
378046	HVT-Z-254/354SG	1000 - 2000 kcmil	750 - 1750 kcmil	1.60 - 2.45	2.75

MOD KITS THREE-CONDUCTOR MEDIUM-VOLTAGE CABLE

Anixter No.	Vendor No.	Description
082374	MOD-3B-HVT	Three-conductor conversion kit for outdoor use
082375	MOD-3A-HVT	Three-conductor conversion kit for outdoor use

TE Terminations

TE Connectivity Termination Kits (Cold Applied)

APPLICATIONS

- For use in the termination of medium-voltage power cables in either indoor or outdoor applications.
- Class 1 termination per IEEE 48

5/8 kV INDOOR/OUTDOOR

Anixter No.	Vendor No.	Conductor Size Min.-Max.	Insulation Diameter in.
283445	TFT-150R-G	#2 - 3/0 AWG	0.53 - 0.80
269744	TFT-151R-G	2/0 - 250 kcmil	0.64 - 1.09
283447	TFT-152R-G	350 - 500 kcmil	0.85 - 1.45
363711	TFT-153R-G	500 - 750 kcmil	1.06 - 1.70

15 kV INDOOR/OUTDOOR

Anixter No.	Vendor No.	Conductor Size Min.-Max.	Insulation Diameter in.
363712	TFT-151R-SG	#2 - 250 kcmil	0.64 - 1.09
363713	TFT-152R-SG	4/0 - 500 kcmil	0.85 - 1.45
363714	TFT-153R-SG	500 - 750 kcmil	1.06 - 1.70

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TE Splices

TE Connectivity Splices (Heat Applied)

APPLICATIONS

- TE Connectivity heat-applied shielded power cable splices are pre-egineered to offer a compact low-profile installation with a minimum diameter build-up.
- Kit contains a solderless grounding kit, consisting of a ground clamp, a ground braid and a shielding mesh.

5/8 kV SPLICE

Anixter No.	Vendor No.	Conductor Size Min.-Max.	Insulation Diameter in.	Jacket O.D. Max. in.
110599	HVS-821S	#6 - #2 AWG	0.35 - 0.65	0.80
153879	HVS-822S	#1 - 4/0 AWG	0.55 - 0.90	1.15
131495	HVS-823S	250 - 350 kcmil	0.80 - 1.25	1.80
376322	HVS-824S	500 - 750 kcmil	1.00 - 1.50	2.30

15 kV SPLICE

Anixter No.	Vendor No.	Conductor Size Min.-Max.	Insulation Diameter in.	Jacket O.D. Max. in.
415798	HVS-C-1521S	#2 - 2/0 AWG	0.65 - 0.95	1.20
415800	HVS-C-1522S	3/0 - 400 kcmil	0.85 - 1.30	1.65
415801	HVS-C-1523S	500 - 750 kcmil	1.10 - 1.55	1.90

TE Connectivity Splices (Cold Applied)

APPLICATIONS

- TE Connectivity cold-applied splices are an “all-in-one” joint for 15 kV-35 kV cables.
- “All-in-one” design is easy to install with minimal steps and short installation time.

15 kV SPLICE

Anixter No.	Vendor No.	Conductor Size Min.-Max.	Insulation Diameter in.	Jacket O.D. Max. in.
376326	CSJA-1521	#2 - 350 kcmil	0.69 - 1.20	1.50
376325	CSJA-1522	4/0 - 750 kcmil	0.87 - 1.40	1.80
378051	CSJA-1523	350 - 1000 kcmil	1.03 - 1.58	2.05
376328	CSJA-1524	750 - 1250 kcmil	1.28 - 2.05	2.60

35 kV SPLICE

Anixter No.	Vendor No.	Conductor Size Min.-Max.	Insulation Diameter in.	Jacket O.D. Max. in.
378049	CSJA-3523	1/0 - 350 kcmil	1.03 - 1.49	2.05
378050	CSJA-3524	350 - 1000 kcmil	1.36 - 2.05	2.60

Cord Grips

Lapp Skintop Cord Grips (Nonmetallic)

SPECIFICATIONS

1. Materials:
   - -Body: Polyamide
   - -Bushing: CR
2. Color:
   - -Black (RAL 9005) UV Resistance
   - -Gray (RAL 7001)
3. Protection: 70 PSI
4. Seal: IP68, 5 Bar (Exceeds NEMA 6/6P pressure rating)
5. Temperature: -20°C to 80°C

APPLICATIONS

Skintops are durable, liquid-tight, easy-to-assemble strain relief glands with NPT threads that are universally suited for all types of machinery and equipment, including automation, motion control, process control and robotics.

Anixter No.	Vendor No.	Colour	Thread Type	Cable Range (in.)
S1138	S1138	Gray	NPT-3/8	0.135 - 0.350
S2138	S2138	Black	NPT-3/8	0.135 - 0.350
S1212	S1212	Gray	NPT-1/2	0.135 - 0.350
S2212	S2212	Black	NPT-1/2	0.135 - 0.350
S1109	S1109	Gray	PG-9	0.135 - 0.350
S2109	S2109	Black	PG-9	0.135 - 0.350
S1111	S1111	Gray	PG-11	0.135 - 0.350
S2111	S2111	Black	PG-11	0.135 - 0.350
S1113	S1113	Gray	PG-13	0.225 - 0.400
S2113	S2113	Black	PG-13	0.225 - 0.400
S1234	S1234	Gray	NPT-3/4	0.325 - 0.500
S2234	S2234	Black	NPT-3/4	0.325 - 0.500
S1116	S1116	Gray	PG-16	0.325 - 0.500
S2116	S2116	Black	PG-16	0.325 - 0.500
S1221	S1221	Gray	PG-21	0.325 - 0.500
S2221	S2221	Black	PG-21	0.325 - 0.500
S1229	S1229	Gray	PG-29	0.425 - 0.600
S2229	S2229	Black	PG-29	0.425 - 0.600
S1134	S1134	Gray	NPT-3/4	0.525 - 0.750
S2134	S2134	Black	NPT-3/4	0.525 - 0.750
S1201	S1201	Gray	NPT-1	0.525 - 0.750
S2201	S2201	Black	NPT-1	0.525 - 0.750
S1121	S1121	Gray	PG-21	0.525 - 0.750
S2121	S2121	Black	PG-21	0.525 - 0.750
S1129	S1129	Gray	PG-29	0.600 - 0.900
S2129	S2129	Black	PG-29	0.600 - 0.900
S1101	S1101	Gray	NPT-1	0.750 - 1.100
S2101	S2101	Black	NPT-1	0.750 - 1.100
S1136	S1136	Gray	PG-36	0.950 - 1.200
S2136	S2136	Black	PG-36	0.950 - 1.200
S1142	S1142	Gray	PG-42	1.100 - 1.400
S2142	S2142	Black	PG-42	1.100 - 1.400

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Rapid response is not only our mindset – it's built into our processes.

CMP TMC2 TECK Connector

TMC2 Series

APPLICATIONS

The CMP Type TMC2 cable connector is suitable for use with Interlocked and Continuously Welded Metal Clad (Type MC or MC-HL) or TECK armoured and jacketed cables in ordinary, wet and hazardous locations including:

- Certified to cCSAus, ATEX (EN) and IECEx Standards
- Class I Division 2, where permitted by code
- Class 1 Zone 1 AEx e and Ex e, where permitted by code
- Class 1 Zone 1 Ex e (IEC/Atex)
- Ingress protection to NEMA 4X and IP66

All CMP cable connectors are EMC tested. The two-part design allows the grounding and over jacket sealing to be carried out in a single simple movement and allows the cable to be easily removed from the equipment, for maintenance and change out, etc.

The TMC2 cable connector is supplied in copper free (<0.4%), aluminum, stainless steel, or electroless nickel plated brass in NPT (standard) and metric thread forms.

TECHNICAL DATA	
Type	TMC2
Design Specification	EN 50262, BS 6121:Part 1:1989, IEC 62444
ATEX Certificate	SIRA09ATEX1164X
Code of Protection	Ex II 2GD, Ex e IIC Gb, Ex ta IIIC Da
Compliance Standards	EN 60079-0,1,7, EN 61241-0,1
IEC Ex Certificate	IECEx SIR 09.0068X
Code of Protection	Ex e IIC Gb, Ex ta IIIC Da
Compliance Standards	IEC 60079-0,1,7, IEC 61241-0,1
cCSAus Certificate	2194053
Code of Protection	Class I, Div 2, Groups A, B, C and D; Class II, Div 1 and 2, Groups E, F, and G; Class III, Div 1 and 2; Encl. Type 4X. Ex e II; Class I, Zone 1, AEx e II; AEx ta IIC:
Compliance Standards	CAN/CSA-C22.2 various sections (see certificate) CAN/CSA-E60079-0,7, CAN/CSA-E61241-1-1, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11
EAC Certificate (Formally GOST R, K and B)	TC RU C-GB.05.B00138
Code of Protection	1Ex e IIC Gb X, Ex ta IIIC Da X
Compliance Standards	OCT P 52350. 7, OCT P MK 60079-0,15,31 , OCT IEC 60079-7 , OCT 31610.7
CCOE / PESO (India) Certificate	P333688/1
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172, DNV: E-13286, ABS: 10-HS630287
Continuous Operating Temperature	-60°C to 110°C
Ingress Protection Rating	NEMA 4X and IP66
Cable Type	Corrugated and interlocked metal clad armour (MC) or Teck 90, continuously welded metal clad armour (MCHL), ACIC-HL, ACWU90-HL, RC90-HL, RA90-HL
Armour Clamping	360° stainless steel grounding spring (beryllium copper optional)
Jacket Sealing Technique	CMP load retention seal
Sealing Area(s)	Cable outer jacket
Seal Material	CMP SOLO LSF thermoset rubber
Cable Connector Material	Copper free (<0.4%) aluminum, stainless steel, electroless nickel plated brass
Support and Supplies	Adaptor/reducer, earth tag, locknut, grounding locknut, serrated washer, shroud

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CMP TMC2 TECK Connector

TMC2 Series

Anixter No.			Entry Thread "C"		Min. Thread Length "E"	Cable Armour Diameter "A"				Cable Jacket Dia. "B"		Thru Bore "G"	Across Flats "D"	Across Corners "D"	Nominal Assembly Length "F"
						Armour Stop In		Armour Stop Out							
Aluminum	Nickel Plated Brass	Stainless Steel	NPT	NPT Option		Min.	Max.	Min.	Max.	Min.	Max.	Max.	Max.	Max.	
CMP-TMC2-050A075	CMP-TMC2-050NB075	CMP-TMC2-050SS075	1/2"	-	0.78	0.42	0.55	0.55	0.63	0.500	0.750	0.55	1.200	1.300	1.650
CMP-TMC2-075A075	CMP-TMC2-075NB075	CMP-TMC2-075SS075	-	3/4"	0.80	0.42	0.55	0.55	0.63			0.55			
CMP-TMC2-075A099	CMP-TMC2-075NB099	CMP-TMC2-075SS099	3/4"	-	0.80	0.60	0.65	0.65	0.89	0.690	0.990	0.65	1.480	1.600	1.970
CMP-TMC2-050A099	CMP-TMC2-050NB099	CMP-TMC2-050SS099	-	1/2"	0.78	0.60	0.78	0.78	0.89			0.78			
CMP-TMC2-100A118	CMP-TMC2-100NB118	CMP-TMC2-100SS118	1"	-	0.98	0.79	0.86	0.86	1.10	0.870	1.180	0.86	1.810	1.950	2.130
CMP-TMC2-075A118	CMP-TMC2-075NB118	CMP-TMC2-075SS118	0	3/4"	0.80	0.79	0.98	0.98	1.10			0.98			
CMP-TMC2-125A137	CMP-TMC2-125NB137	CMP-TMC2-125SS137	1-1/4"	-	1.00	0.94	1.08	1.08	1.28	1.020	1.370	1.08	2.050	2.210	2.340
CMP-TMC2-100A137	CMP-TMC2-100NB137	CMP-TMC2-100SS137	-	1"	0.98	0.94	1.18	1.18	1.28			1.18			
CMP-TMC2-150A162	CMP-TMC2-150NB162	CMP-TMC2-150SS162	1-1/2"	-	1.03	1.22	1.35	1.35	1.50	1.300	1.620	1.35	2.360	2.550	2.440
CMP-TMC2-125A162	CMP-TMC2-125NB162	CMP-TMC2-125SS162	-	1-1/4"	1.00	1.22	1.42	1.42	1.50			1.42			
CMP-TMC2-150A190	CMP-TMC2-150NB190	CMP-TMC2-150SS190	1-1/2"	-	1.03	-	-	1.51	1.72	1.570	1.900	1.51	2.560	2.760	2.440
CMP-TMC2-125A190	CMP-TMC2-125NB190	CMP-TMC2-125SS190	-	1-1/4"	1.00	-	-	1.51	1.72			1.51			
CMP-TMC2-200A200	CMP-TMC2-200NB200	CMP-TMC2-200SS200	2"	-	1.53	1.57	1.70	1.70	1.88	1.650	2.000	1.70	2.750	2.970	2.600
CMP-TMC2-150A200	CMP-TMC2-150NB200	CMP-TMC2-150SS200	-	1-1/2"	1.03	1.57	1.70	1.70	1.88			1.70			
CMP-TMC2-250A233	CMP-TMC2-250NB233	CMP-TMC2-250SS233	2-1/2"	-	1.63	-	-	1.81	2.21	1.910	2.330	1.81	2.950	3.190	2.640
CMP-TMC2-200A233	CMP-TMC2-200NB233	CMP-TMC2-200SS233	-	2"	1.53	-	-	1.81	2.21			1.81			
CMP-TMC2-300A272	CMP-TMC2-300NB272	CMP-TMC2-300SS272	3"	-	1.63	-	-	2.17	2.61	2.270	2.720	2.17	3.540	3.820	2.760
CMP-TMC2-250A272	CMP-TMC2-250NB272	CMP-TMC2-250SS272	-	2-1/2"	1.63	2.14	2.46	2.46	2.61			2.46			
CMP-TMC2-350A325	CMP-TMC2-350NB325	CMP-TMC2-350SS325	3-1/2"	-	1.68	2.49	2.78	2.78	2.97	2.620	3.250	2.78	4.330	4.680	3.460
CMP-TMC2-300A325	CMP-TMC2-300NB325	CMP-TMC2-300SS325	-	3"	1.63	2.49	2.78	2.78	2.97			2.78			
CMP-TMC2-400A376	CMP-TMC2-400NB376	CMP-TMC2-400SS376	4"	-	1.73	2.95	3.45	3.45	3.54	3.160	3.760	3.45	4.840	5.230	3.680
CMP-TMC2-350A376	CMP-TMC2-350NB376	CMP-TMC2-350SS376	-	3-1/2"	1.68	2.95	3.45	3.45	3.54			3.45			
CMP-TMC2-400A425	CMP-TMC2-400NB425	CMP-TMC2-400SS425	4"	-	1.73	-	-	3.56	3.94	3.700	4.250	3.56	5.230	5.650	3.890

Dimensions are displayed in inches unless otherwise stated.

Order code example: **TMC2-050A075** - "TMC2" (Type: gland) - "050" (1/2" NPT thread) - "A" (Material: aluminum) - "075" (Max. cable diameter: 0.75")

CMP TMC2X TECK Connector

TMC2X Series

APPLICATIONS

The CMP Type TMC2X cable connector is suitable for use with Interlocked and Corrugated Continuously Welded Metal Clad (Type MC or MC-HL) or TECK armoured and armoured and jacketed cables in, wet and hazardous locations including:

- Certified to cCSAus, ATEX (EN) and IECEx Standards
- Class I Division 1 and Class 1 Division 2 ABCD
- Class I Zone 1 AExd/AExe, Exd/Exe, in accordance with NEC/CEC installations
- Class I Zone 1 Exd IIC, Exe II for IECEx and ATEX installation codes
- Ingress protection to NEMA 4X and IP66

All CMP cable connectors are EMC tested. The TMC2X utilizes CMP's innovative RapidEx Fast Curing Liquid Resin Injection System, which installs in seconds, significantly reducing installation error, with a complete 100% cure time of one hour, which significantly reduces installation times.

The two-part design allows the grounding and over jacket sealing to be carried out in a single simple movement and allows the cable to be easily removed from the equipment, for maintenance and change out etc. The TMC2X cable connector is supplied in copper free (<0.4%) aluminum, stainless steel, or electroless nickel plated brass in NPT (standard) and metric thread forms.

TECHNICAL DATA	
Type	TMC2X
Design Specification	EN 50262, BS 6121:Part 1:1989, IEC 62444
Mechanical Classification	Impact = Level 8, Retention = Class B (EN 50262), Class D (IEC 62444)
Electrical Classification	Category B
ATEX Certificate	SIRA09ATEX1165X
Code of Protection	Ex II 2 GD, Ex d IIC, Ex e IIC Gb, Ex ta IIIC Da
IEC Ex Certificate	IECEx SIR 09.0069X
Code of Protection	Ex d IIC Gb / Ex e IIC Gb, Ex ta IIIC Da
Compliance Standards	EN 60079-0,1,7, EN 61241-1, IEC 60079-0,1,7, IEC 61241-1
cCSAus Certificate	2194053
Code of Protection	Class I, Div 1 and 2, Groups A, B, C and D; Class II, Div 1 and 2, Groups E, F, and G; Class III, Div 1 and 2; Encl. Type 4X. Ex d IIC; Ex e II: Class I, Zone 1, AEx d IIC; AEx e II; AEx ta IIC:
Compliance Standards	CAN/CSA-C22.2 No 0-M91, CAN/CSA-C22.2 No 18-04, CAN/CSA-C22.2 No 25-1966, CAN/CSA-C22.2 No 30-M1986, CAN/CSA-C22.2 No.174-M1984, CAN/CSA-C22.2 No.94-M91, CAN/CSA-E60079-0:07, CAN/ CSA-E60079-7:07, CAN/CSA-E60079-1:07, CAN/CSA-E61241-1-1, ANSI/UL 514B Edition 5, ANSI/UL 50 Edition 11, ANSI/UL 2225 Edition 4
EAC Certificate (Formally GOST R, K and B)	TC RU C-GB.05.B00138
Code of Protection	1Ex d IIC Gb X, 1Ex e IIC Gb X, 2Ex nR IIC Gc X, Ex ta IIIC Da X
Compliance Standards	OCT P 52350. 7, OCT P MK 60079-0,15,31 , OCT IEC 60079-1,7 , OCT 31610.7
CCOE / PESO (India) Certificate	P333688/1
RETIE Approval Number	3866
Marine Approvals	LRS: 01/00172, DNV: E-13286, ABS: 10-HS630287
Continuous Operating Temperature	-60°C to 85°C
Ingress Protection Rating	NEMA 4X and IP66
Cable Type	Corrugated and Interlocked Metal Clad Armour (MC) or Teck 90, Continuously Welded Metal Clad Armour (MCHL), ACIC-HL, ACWU90-HL, RC90-HL, RA90-HL
Armour Clamping	360° stainless steel grounding spring (beryllium copper optional)
Jacket Sealing Technique	CMP load retention seal
Sealing Area(s)	RapidEx liquid resin, cable outer jacket
Cable Connector Material	Copper free (<0.4%) aluminum, stainless steel, electroless nickel plated brass
Support and Supplies	Adaptor/reducer, earth tag, locknut, grounding locknut, serrated washer, shroud

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CMP TMC2X TECK Connector

TMC2X Series

Anixter No.			Entry Thread "C"		Min. Thread Length "E"	Cable Armour Diameter "A"				Cable Jacket Diameter "B"		Thru Bore "G"	Across Flats "D"	Across Corners "D"	Nominal Assembly Length "F"
			NPT	NPT Option		Armour Stop In		Armour Stop Out							
Aluminum	Nickel Plated Brass	Stainless Steel				Min.	Max.	Min.	Max.	Min.	Max.	Max.	Max.	Max.	
CMP-TMC2X-050A075	CMP-TMC2X-050NB075	CMP-TMC2X-050SS075	1/2"	-	0.78	0.42	0.57	0.57	0.63	0.500	0.750	0.51	1.200	1.300	1.650
CMP-TMC2X-075A075	CMP-TMC2X-075NB075	CMP-TMC2X-075SS075	-	3/4"	0.80	0.42	0.57	0.57	0.63			0.51			
CMP-TMC2X-075A099	CMP-TMC2X-075NB099	CMP-TMC2X-075SS099	3/4"	-	0.80	0.60	0.78	0.78	0.89	0.690	0.990	0.71	1.480	1.600	1.970
CMP-TMC2X-050A099	CMP-TMC2X-050NB099	CMP-TMC2X-050SS099	-	1/2"	0.78	-	-	0.60	0.89			0.51			
CMP-TMC2X-100A118	CMP-TMC2X-100NB118	CMP-TMC2X-100SS118	1"	-	0.98	0.79	1.01	1.01	1.10	0.870	1.180	0.94	1.810	1.950	2.130
CMP-TMC2XX-075A118	CMP-TMC2X-075NB118	CMP-TMC2X-075SS118	0	3/4"	0.80	-	-	0.79	1.10			0.71			
CMP-TMC2X-125A137	CMP-TMC2X-125NB137	CMP-TMC2X-125SS137	1-1/4"	-	1.00	0.94	1.20	1.20	1.28	1.020	1.370	1.20	2.050	2.210	2.340
CMP-TMC2X-100A137	CMP-TMC2X-100NB137	CMP-TMC2X-100SS137	-	1"	0.98	0.94	1.00	1.00	1.28			0.94			
CMP-TMC2X-150A162	CMP-TMC2X-150NB162	CMP-TMC2X-150SS162	1-1/2"	-	1.03	-	-	1.43	1.50	1.300	1.620	1.46	2.360	2.550	2.440
CMP-TMC2X-125A162	CMP-TMC2X-125NB162	CMP-TMC2X-125SS162	-	1-1/4"	1.00	1.22	1.25	1.25	1.50			1.20			
CMP-TMC2X-150A190	CMP-TMC2X-150NB190	CMP-TMC2X-150SS190	1-1/2"	-	1.03	-	-	1.49	1.72	1.570	1.900	1.46	2.560	2.760	2.440
CMP-TMC2X-125A190	CMP-TMC2X-125NB190	CMP-TMC2X-125SS190	-	1-1/4"	1.00	-	-	1.49	1.72			1.20			
CMP-TMC2X-200A200	CMP-TMC2X-200NB200	CMP-TMC2X-200SS200	2"	-	1.53	1.57	1.70	1.70	1.88	1.650	2.000	1.63	2.750	2.970	2.600
CMP-TMC2X-150A200	CMP-TMC2X-150NB200	CMP-TMC2X-150SS200	-	1-1/2"	1.03	-	-	1.52	1.88			1.46			
CMP-TMC2X-250A233	CMP-TMC2X-250NB233	CMP-TMC2X-250SS233	2-1/2"	-	1.63	1.79	2.09	2.09	2.21	1.910	2.330	1.46	2.950	3.190	2.640
CMP-TMC2X-200A233	CMP-TMC2X-200NB233	CMP-TMC2X-200SS233	-	2"	1.53	1.79	1.97	1.97	2.21			1.90			
CMP-TMC2X-300A272	CMP-TMC2X-300NB272	CMP-TMC2X-300SS272	3"	-	1.63	2.14	2.50	2.50	2.61	2.270	2.720	2.13	3.540	3.820	2.760
CMP-TMC2X-250A272	CMP-TMC2X-250NB272	CMP-TMC2X-250SS272	-	2-1/2"	1.63	2.14	2.44	2.44	2.61			1.90			
CMP-TMC2X-350A325	CMP-TMC2X-350NB325	CMP-TMC2X-350SS325	3-1/2"	-	1.68	2.49	2.80	2.80	2.97	2.620	3.250	2.37	4.330	4.680	3.460
CMP-TMC2X-300A325	CMP-TMC2X-300NB325	CMP-TMC2X-300SS325	-	3"	1.63	2.49	2.80	2.80	2.97			2.55			
CMP-TMC2X-400A376	CMP-TMC2X-400NB376	CMP-TMC2X-400SS376	4"	-	1.73	2.95	3.49	3.49	3.54	3.160	3.760	2.98	4.840	5.230	3.680
CMP-TMC2X-350A376	CMP-TMC2X-350NB376	CMP-TMC2X-350SS376	-	3-1/2"	1.68	2.95	3.49	3.49	3.54			3.38			
CMP-TMC2X-400A425	CMP-TMC2X-400NB425	CMP-TMC2X-400SS425	4"	-	1.73	-	-	3.52	3.94	3.700	4.250	3.38	5.230	5.650	3.890

Dimensions are displayed in inches unless otherwise stated.

Order code example: **TMC2X-050A075** - "TMC2X" (Type: gland) - "050" (1/2" NPT thread) - "A" (Material: aluminum) - "075" (Max. cable diameter: 0.75")

CMP TC Connector

TC Series

APPLICATIONS

The CMP Type TC cable connector is suitable for use with type (TC) tray cable in ordinary, wet and hazardous locations including:

- Class I Division 2, where permitted by code
- Class 1 Zone 1 AEx e and Ex e, where permitted by code
- Ingress protection to NEMA 4X and IP66, 67 and 68

The unique use of the seal insert enables each gland size to terminate the widest range available in a single hub size. The TC cable connector is supplied in copper free (<0.4%) aluminum, stainless steel, or electroless nickel plated brass in NPT thread forms.

TECHNICAL DATA	
Type	TC
Design Specification	EN 50262, BS 6121:Part 1:1989, IEC 62444
ATEX Certificate	SIRA09ATEX1092X
Code of Protection	Ex II 2 GD, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da
Code of Protection	EN 60079-0,1,7, EN 61241-0,1
IEC Ex Certificate	IECEx SIR 09.0042X
Code of Protection	Ex IIC Gb, Ex e IIC Gb, Ex ta IIIC Da
Compliance Standards	IEC 60079-0,1,7, IEC 61241-1
cCSAus Certificate	2220601
Code of Protection	Class I, Div. 2, Groups A, B, C and D; Class II, Div. 2, Groups E, F, and G; Class III, Div. 2; Encl. Type 4X. Ex e; Class I, Zone 1, AEx e:
Compliance Standards	CAN/CSA-C22.2 Various Sections (See Certificate) CAN/CSA-E60079-0,7, CAN/CSA-E61241-1-1, ANSI/UL 514B Ed 5, ANSI/UL 50Ed 11, ANSI/UL 60079-0,7
EAC Certificate	TC RU C-GB.05.B00138
Code of Protection	1Ex d IIC Gb X, 1Ex e IIC Gb X, Ex ta IIIC Da X
Compliance Standards	OCT P 52350.7, OCT P MK 60079-0,15,31, OCT IEC 60079-1,7, OCT 31610.7
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172, DNV: E-10496, ABS: 10-HS630287
Continuous Operating Temperature	-60°C to 110°C
Ingress Protection Rating	NEMA 4X and IP66/67/68
Cable Connector Material	Copper free (<0.4%) aluminum, stainless steel, or electroless nickel plated brass
Cable Type	Tray cable and cords, unarmoured/braid (IEC)
Sealing Technique	CMP displacement seal
Sealing Area(s)	Cable outer jacket
Support and Supplies	Adaptor/reducer, earth tag, locknut, grounding lock nut, serrated washer, shroud

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CMP TC Connector

TC Series

Anixter No.			Entry Thread "C"		Min. Thread Length "E"	Cable Range "A"				Across Flats "D"	Across Corners "D"	Nominal Assembly Length "F"
						Insert		No Insert				
Aluminum	Nickel Plated Brass	Stainless Steel	NPT	NPT Option		Min.	Max.	Min.	Max.	Max.	Max.	
CMP-TC-050A028	CMP-TC-050NB028	CMP-TC-050SS028	1/2"	-	0.78	0.130	0.280	N/A	N/A	1.200	1.320	0.790
CMP-TC-075A028	CMP-TC-075NB028	CMP-TC-075SS028	-	3/4"	0.80							
CMP-TC-050A055	CMP-TC-050NB055	CMP-TC-050SS055	1/2"	-	0.78	0.260	0.410	0.410	0.550	1.200	1.320	0.790
CMP-TC-075A055	CMP-TC-075NB055	CMP-TC-075SS055	-	3/4"	0.80							
CMP-TC-075A079	CMP-TC-075NB079	CMP-TC-075SS079	3/4"	-	0.80	0.470	0.610	0.610	0.790	1.480	1.628	0.980
CMP-TC-100A079	CMP-TC-100NB079	CMP-TC-100SS079	-	1"	0.98							
CMP-TC-100A104	CMP-TC-100NB104	CMP-TC-100SS104	1"	-	0.98	0.670	0.850	0.850	1.040	1.810	1.991	0.980
CMP-TC-125A104	CMP-TC-125NB104	CMP-TC-125SS104	-	1-1/4"	1.00							
CMP-TC-125A127	CMP-TC-125NB127	CMP-TC-125SS127	1-1/4"	-	1.00	0.920	1.100	1.100	1.270	2.050	2.255	1.180
CMP-TC-150A127	CMP-TC-150NB127	CMP-TC-150SS127	-	1-1/2"	1.03							
CMP-TC-150A150	CMP-TC-150NB150	CMP-TC-150SS150	1-1/2"	-	1.03	1.220	1.370	1.370	1.500	2.360	2.596	1.260
CMP-TC-200A150	CMP-TC-200NB150	CMP-TC-200SS150	-	2"	1.06							
CMP-TC-200A174	CMP-TC-200NB174	CMP-TC-200SS174	2"	-	1.06	-	-	1.400	1.740	2.950	3.245	1.260
CMP-TC-250A174	CMP-TC-250NB174	CMP-TC-250SS174	-	2"	1.06							
CMP-TC-200A197	CMP-TC-200NB197	CMP-TC-200SS197	2"	-	1.06	-	-	1.630	1.970	2.950	3.245	1.650
CMP-TC-250A197	CMP-TC-250NB197	CMP-TC-250SS197	-	2-1/2"	1.53							
CMP-TC-250A220	CMP-TC-250NB220	CMP-TC-250SS220	2-1/2"	-	1.53	-	-	1.860	2.200	3.540	3.894	1.650
CMP-TC-300A220	CMP-TC-300NB220	CMP-TC-300SS220	-	2-1/2"	1.53							
CMP-TC-250A244	CMP-TC-250NB244	CMP-TC-250SS244	2-1/2"	-	1.53	-	-	2.130	2.440	3.540	3.894	1.690
CMP-TC-300A244	CMP-TC-300NB244	CMP-TC-300SS244	-	3"	1.63							
CMP-TC-300A268	CMP-TC-300NB268	CMP-TC-300SS268	3"	-	1.63	-	-	2.400	2.680	4.330	4.763	1.690
CMP-TC-350A268	CMP-TC-350NB268	CMP-TC-350SS268	-	3-1/2"	1.68							
CMP-TC-350A315	CMP-TC-350NB315	CMP-TC-350SS315	3-1/2"	-	1.68	-	-	2.620	3.150	4.840	5.324	2.280
CMP-TC-400A315	CMP-TC-400NB315	CMP-TC-400SS315	-	4"	1.73							
CMP-TC-400A354	CMP-TC-400NB354	CMP-TC-400SS354	4"	-	1.73	-	-	2.990	3.540	5.250	5.775	2.280

Dimensions are displayed in inches unless otherwise stated.

Order code example: **TC-050A028** - "TC" (Type: gland) - "050" (1/2" NPT thread) - "A" (Material: aluminum) - "028" (Max. cable diameter: 0.28")

CMP T3CDS Connector

T3CDS Series

APPLICATIONS
Triton CDS (T3CDS) globally approved, explosive atmosphere cable gland for all types of armoured cables

- Fully sequential, three -step installation procedure
- Reduces installation time, cost and risk
- Direct and remote installation
- Unique Compensating Displacement Seal System (COS)
- Metal-to-metal installation every time regardless of cable diameter
- Designed to prevent "Coldflow"
- Integral, protected deluge seal
- Controlled outer "LRS" seal
- Prevents overtightening
- -60°C to 130°C (standard), -20°C to 200°C (ThermEx option)
- Globally marked, IECEx, ATEX. UL s cCSAus
- EMC tested

TECHNICAL DATA	
Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Mechanical Classification*	Impact= Level 8, Retention = Class D
Enclosure Protection	IK10 10 IEC 62262 (20 joules) N/A for aluminum - Please contact your Anixter sales office
Electrical Classification*	Calegory B (Category A when used with braided cable)
ATEX Certificate	SIRA13ATEX1073X, SIRA13ATEX4079X
Code of Protection	Ex II 2G,II 1D, Ex d IIC Gb, Exe IIC Gb, Ex ta IIC Da, Ex II 3G Ex nR IIC Gc, Ex I M2, Ex d I Mb, Ex e I Mb
Compliance Standards	EN60079-0,1,7,15,31
IECEx Certificate	IECEx SIR 13.0028X
Code of Protection	Ex dIIC Gb, Ex e IIC Gb, Ex nR IIC Gc,Ex ta IIIC Da, Ex d I Mb, Ex e I Mb
Compliance Standards	IEC 60079-0,1,7,15,31
cCSAus Cetificate	1310517
Code of Protection	Class I, Div 2, Group, A,B,C and D, Class II, Div 2, Groups E,F and G, Cass III, Enclosure Type 3, 4 and 4X, Ex d IIC, Ex e IIC, Ex nR II, Class I, Zone 1, AEx e II, AEx nR II
Compliance Standards	CAN/CSA-C22.2 No 0, 18, 25, 30, 94, 174, CAN/CSA-E60079-0, 1, 7, ANSI/UL 5148 Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079-0, 1, 7
UL Certificate	E200163
Code of Protection	Class 1, Zone 1, AEx e II
Compliance Standards	UL 514B
EAC Certificate (Formally GOST R, K and B)	TC RU C-GB.05.B00138
NEPSI Certificate	GYJ13.1141X / GYJ13.1283X
CCOE/PESO (India) Certificate	P333688
INMETRO Certificate	TUV 11.0374X
RETIE Certificate	03866
Marine Certificates	LRS; 01/00172 (E3), DNV: E-13848, ABS: 14-LD234401A-4-PDA
Ingress Protection Rating	IP66, IP67 and IP68**
Deluge Protection	DTS01 : 91
Cable Gland Material	Brass, electroless nickel plated brass, aluminum, stainless steel
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer
Cable Type(s)	Single Wire Armour (SWA), Aluminum Wire Armour (AWA), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Aluminum Strip Armour (ASA), Screened Flexible (EMC) Wire Braid (e.g CY/SY), Wire Braid Armour (e.g., SWB)
Armour Clamping	Reversible Armour Cone and AnyWay Universal Clamping Ring
Sealing Technique	Inner bedding sealing ring: Compensating Displacement Seal (CDS), Outer Sheath Sealing Ring: Load Retention Seal (LRS)
Sealing Area(s)	Cable inner bedding and outer cable sheath

Note:(*) Mechanical and electrical classifications applied as per IEC 62444 and EN 62444.
(**) Refer to CMP catalog for further information on ingress protection ratings.

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CMP T3CDS Connector

T3CDS Series

Anixter No.	Entry Thread "C" Standard Metric	Entry Thread "C" Standard NPT	Entry Thread "C" Option NPT	Minimum Thread Length "E"	Cable Bedding Diameter "A" Min.	Cable Bedding Diameter "A" Max.	Cable Bedding Diameter "B" Min.	Cable Bedding Diameter "B" Max.	Armour Wire Diameter Grooved Cone (x) Min.	Armour Wire Diameter Grooved Cone (x) Max.	Armour Wire Diameter Stepped Cone (w) Min.	Armour Wire Diameter Stepped Cone (w) Max.	Across Flats "D" Max.	Across Corners "D" Max.	Protrusion Length "F"
CMP-20S/16T3CDS	M20	1/2"	3/4"	0.59	0.12	0.34	0.24	0.52	0.01	0.02	0.03	0.05	0.94	1.04	3.10
CMP-20ST3CDS	M20	1/2"	3/4"	0.59	0.24	0.46	0.37	0.63	0.01	0.02	0.03	0.05	0.94	1.04	3.10
CMP-20T3CDS	M20	1/2"	3/4"	0.59	0.26	0.55	0.49	0.82	0.01	0.02	0.03	0.05	1.20	1.33	3.00
CMP-25ST3CDS	M25	3/4"	1"	0.59	0.44	0.78	0.55	0.87	0.01	0.02	0.05	0.06	1.48	1.63	3.50
CMP-25T3CDS	M25	3/4"	1"	0.59	0.44	0.78	0.72	1.03	0.01	0.02	0.05	0.06	1.48	1.63	3.50
CMP-32T3CDS	M32	1"	1-1/4"	0.59	0.67	1.03	0.93	1.33	0.01	0.02	0.06	0.08	1.81	1.99	3.57
CMP-40T3CDS	M40	1-1/4"	1-1/2"	0.59	0.87	1.26	1.10	1.59	0.01	0.03	0.06	0.08	2.17	2.38	3.67
CMP-50ST3CDS	M50	1-1/2"	2"	0.59	1.16	1.50	1.39	1.84	0.01	0.03	0.08	0.10	2.36	2.60	3.96
CMP-50T3CDS	M50	2"	2-1/2"	0.59	1.40	1.73	1.59	2.09	0.01	0.03	0.08	0.10	2.76	3.03	4.17
CMP-63ST3CDS	M63	2"	2-1/2"	0.59	1.58	1.96	1.80	2.34	0.01	0.03	0.08	0.10	2.95	3.25	4.04
CMP-63T3CDS	M63	2-1/2"	3"	0.59	1.86	2.20	2.15	2.59	0.01	0.03	0.08	0.10	3.15	3.46	4.15
CMP-75ST3CDS	M75	2-1/2"	3"	0.59	2.08	2.44	2.32	2.83	0.01	0.03	0.08	0.10	3.54	3.90	4.35
CMP-75T3CDS	M75	3"	3-1/2"	0.59	2.33	2.67	2.63	3.09	0.01	0.03	0.10	0.12	3.94	4.33	4.74
CMP-90T3CDS	M90	3"	4"	0.94	2.62	3.09	3.00	3.56	0.02	0.03	0.12	0.16	4.53	4.98	5.47
CMP-100T3CDS	M100	4"	5"	0.94	3.02	3.58	3.39	3.99	0.02	0.03	0.12	0.16	5.00	5.50	5.05
CMP-115T3CDS	M115	4"	5"	0.94	3.39	3.85	4.00	4.34	0.02	0.03	0.12	0.16	5.43	5.98	6.35
CMP-130T3CDS	M130	5"	6"	0.94	3.82	4.52	4.34	4.85	0.02	0.03	0.12	0.16	6.18	6.80	6.82

Dimensions are displayed in inches unless otherwise stated.

For material options please add the following suffix to change the ordering reference:
brass (no suffix required), nickel plated brass "5", 316 grade stainless steel "4", copper free aluminum "1'"

For NPT options please add the following digits to the material suffix:
1/2" = 31, 3/4" =32, 1"= 33, 1-1/4" = 34, 1-1/2" = 35, 2" = 36, 2-1/2" = 37, 3"= 38, 3-1/2" = 39, (brass requires prefix "0")

CMP A2F Connector

A2F Series

APPLICATIONS
A2F globally approved, hazardous (Classified) location cable gland for all types of unarmoured and braid armour cables

- Aluminum, nickel-plated or stainless steel designs
- Optional thread sizes
- Displacement type flameproof seal
- Designed to prevent "Coldflow"
- Deluge protected
- -60°C to 130°C
- Class I Zone 1, 21 and Zone 2, 22 Class I Division 2 ABCD
- CEC Class I Zone 1 Ex d and Class I Division 2 ABCD
- Globally marked, CSA IECEx and ATEX
- As standard in nickel plated brass with NPT thread form

TECHNICAL DATA	
Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Mechanical Classification*	Impact= Level 8, Retention = Class B
Enclosure Protection	IK10 10 IEC 62262 (20 joules) N/A for aluminum - Please contact your Anixter sales office
Electrical Classification*	Category B
ATEX Certificate	SIRA13ATEX1068X, SIRA13ATEX4074X
Code of Protection	Ex II 2G,II 1D Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da, Ex II 3G Ex nR IIC Gc I M2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN60079-0,1,7,15,31
IECEx Certificate	IECEx SIR 13.0023X
Code of Protection	Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc,Ex ta IIIC Da, Ex d I Mb, Ex e I Mb
Compliance Standards	IEC 60079-0,1,7,15,31
CSA Cetificate	1211841
Code of Protection	Ex d IIC, Ex e II, Ex nR II: Enclosure Type 4X Class I, Div. 1 and Div. 2, Groups B, C and D
Compliance Standards	CSA No 0,0.4,94,174,CAN/CSA-E60079-0,1,7,15
KCC Certificate	13-GA4B0-0748X, 13-GA480-0749X, 13-GA4B0-0750X
NEPSI Certificate	GYJ13.1140X I GYJ13.1282X
CCOE/PESO Certificate (India)	P333688
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3), DNV: E-13848, ABS: 14-L0234401A-4-PD
Ingress Protection Rating	IP66, IP67 and IP68**
Deluge Protection Compliance	DTSOI: 91
Cable Gland Material	Brass, electroless nickel plated brass, stainless steel, aluminum
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer
Cable Type	Unarmoured and braided
Sealing Techniques	CMP unique displacement seal concept
Sealing Area(s)	Cable outer jacket

Note:(*) Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444.
(**) Refer to CMP catalog for further information on ingress protection ratings.

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CMP A2F Connector

A2F Series

Anixter No.	Available Entry Threads "C" (Alternate Thread Lengths Available)				Overall Cable Diameter "A"		Across Flats "D"	Across Corners "D"	Protrusion Length "F"
	NPT	NPT (Option)	Metric (Option)	Thread Length (NPT) "E"	Min.	Max.	Max.	Max.	
CMP-16A2F	-	-	M16	-	0.126	0.343	0.945	1.039	0.988
CMP-20S/16A2F	1/2"	3/4"	M20	0.783	0.126	0.343	0.945	1.039	0.988
CMP-20SA2F	1/2"	3/4"	M20	0.783	0.240	0.461	0.945	1.039	0.988
CMP-20A2F	1/2"	3/4"	M20	0.783	0.256	0.551	1.063	1.169	1.071
CMP-25A2F	3/4"	1"	M25	0.795	0.437	0.787	1.417	1.559	1.398
CMP-32A2F	1"	1 1/4"	M32	0.984	0.669	1.035	1.614	1.776	1.346
CMP-40A2F	1 1/4"	1 1/2"	M40	1.008	0.925	1.268	1.969	2.165	1.382
CMP-50SA2F	1 1/2"	2"	M50	1.028	1.220	1.504	2.165	2.382	1.260
CMP-50A2F	2"	2 1/2"	M50	1.059	1.402	1.732	2.362	2.598	1.429
CMP-63SA2F	2"	2 1/2"	M63	1.059	1.634	1.965	2.776	3.055	1.319
CMP-63A2F	2 1/2"	3"	M63	1.571	1.858	2.201	2.953	3.248	1.409
CMP-75SA2F	2 1/2"	3"	M75	1.571	2.126	2.437	3.150	3.465	1.346
CMP-75A2F	3"	3 1/2"	M75	1.634	2.406	2.673	3.307	3.638	1.598
CMP-90A2F	3 1/2"	4"	M90	1.685	2.622	3.146	4.252	4.677	2.295
CMP-100A2F	4"	5"	M100	1.732	2.992	3.583	4.843	5.327	2.173
CMP-115A2F	4"	5"	M115	1.732	3.386	3.854	5.252	5.776	2.567
CMP-130A2F	5"	6"	M130	1.843	3.819	4.524	6.000	6.598	2.909

Dimensions are displayed in inches unless otherwise stated.

For material options add the following suffix to the ordering reference: brass (no suffix required); nickel plated brass '5'; 316 grade stainless steel '4'; copper free aluminum '1'

For NPT options add the following digits to the material suffix; 1/2" = 31; 3/4" = 32; 1" = 33; 1 1/4" = 34; 1 1/2" = 35; 2" = 36; 2 1/2" = 37; 3" = 38; 3 1/2" = 39; 4" = 310 (brass requires prefix '0')

Examples: **32A2F1RA534** = nickel plated brass 1-1/4" NPT, **50SA2F1RA035** = brass 1-1/2" NPT, **25A2F1RA432** = stainless steel 3/4" NPT, **20A2F1RA5** = nickel plated brass M20

CMP PX2KXREX Connector

PX2KXREX Series

APPLICATIONS

PX2KXREX globally approved, explosive atmosphere Rapid Ex Barrier Cable Gland for all types of braid and tape-armoured cables

- RapidEx Liquid Pour Sealing System
  - Reduces risk
  - Reduces man hours
  - Reduces cost
- Metal-to-metal armour clamping
- Controlled outer "LRS" seal
  - Prevents overtightening
- Class I Zone 1, 21 and Zone 2, 22 Class I Division I ABCD
- -60°C to 85°C
- Globally marked, IECEx, ATEX and cCSAus
- EMC tested
- Direct and remote installation
- Integral, protected deluge seal

TECHNICAL DATA	
Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Mechanical Classification*	Impact= Level 8, Retention = Class D
Enclosure Protection	IK10 10 to IEC 62262 (20 joules) N/A for aluminum - Please contact your Anixter sales office
Electrical Classification*	Category B (Category A when used with braided cable)
ATEX Certificate	SIRA13ATEX1072X, SIRA13ATEX4078X
Code of Protection	Ex II 2G, II 1D, Ex d IIC, Ex e IIC Gb, Ex ta IIIC Da, Ex II 3G Ex nR IIC Gc, EX IM2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN60079-0,1,7,15,31
IECEx Certificate	IECEx SIR 13.0027X
Code of Protection	Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc,Ex ta IIIC Da, Ex d I Mb, Ex e I Mb
Compliance Standards	IEC 60079-0,1,7,15,31
cCSAus Cetificate	2288626
Code of Protection	Class I, Div. 1,2, Groups A,B,C,D; Class II, Div. 1,3, Groups E,F,G; Class III, Div. 1, 2, Class I Zone 1 NEMA 4X, Oil Resistant II, AEx dIIC Gb, AEx e IIC Gb, Class I, Zone 2 AEx NR IIC Gc, Class I, Zone 20 AEx ta, IIC Da
Compliance Standards	CAN/CSA-C22.2 No 0, 18,25,30,94,174, CAN/CSA-E60079-0,1,7,31 CAN/CSA-E61241-1-1 Part 1-1, ANSI/UL 514B ED 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079
CCOE/PESO Certificate (India)	P333688
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E2), DNV: E-13848, ABS: 14-LD234401A-4-PDA
Ingress Protectlon Rating	IP66, IP67 and IP68**
Deluge Protection Compliance	DTSOI: 91
Cable Gland Materlal	Brass, electroless nickel plated brass, stainless steel, aluminum
Seal Material	CMP SOLO LSF Halogen free Thermoset Elastomer/RapidEx Resin Barrier
Cable Type	Screened Flexible (EMC) Wire Braid (e.g. CY / SY), Pliable Wire Armour (PWA), Steel Tape Armour (STA), Wire Braid Armour (e.g. SWB), Aluminum Strip Armour (ASA), armoured and jacketed
Armour Clamping	Detachable resin tube/cone and AnyWay Universal Clamping Ring
Sealing Techniques	Unique CMP "LRS" outer seal (load retention seal)
Sealing Area(s)	Inner RapidEx Barrier Seal and outer sheath

Note:(*) Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444.
(**) Refer to CMP catalog for further information on ingress protection ratings.

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CMP PX2KXREX Connector

PX2KXREX Series

Anixter No.	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)				No. of Cores	Diameter Over Conductors "A"	Cable Bedding Diameter "G"	Overall Cable Diameter "B"		Armour Range †				Across Flats "D"	Across Corners "D"	Protrusion Length "F"
										Grooved Cone (X)		Stepped Cone (W)				
	NPT	NPT (Option)	Metric (Option)	Thread Length (NPT) "E"	Max.	Max.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Max.	Max.	
CMP-20S/16PX2KXREX	-	-	M16	-	11	0.461	0.461	0.240	0.516	0.012	0.040	0.031	0.049	1.201	1.321	2.441
CMP-20SPX2KXREX	1/2"	3/4"	M20	0.783	11	0.461	0.461	0.374	0.626	0.012	0.040	0.031	0.049	1.201	1.321	2.441
CMP-20PX2KXREX	1/2"	3/4"	M20	0.783	11	0.496	0.508	0.492	0.823	0.016	0.040	0.031	0.049	1.201	1.321	2.480
CMP-25SPX2KXREX	1/2"	3/4"	M20	0.783	21	0.689	0.703	0.551	0.866	0.016	0.048	0.049	0.063	1.476	1.624	2.736
CMP-25PX2KXREX	3/4"	1"	M25	0.795	21	0.689	0.703	0.717	1.031	0.016	0.048	0.049	0.063	1.476	1.624	2.736
CMP-32PX2KXREX	1"	1 1/4"	M32	0.984	38	0.929	0.941	0.933	1.335	0.016	0.048	0.063	0.079	1.811	1.992	2.953
CMP-40PX2KXREX	1 1/4"	1 1/2"	M40	1.008	59	1.181	1.193	1.098	1.591	0.016	0.062	0.063	0.079	2.165	2.382	2.953
CMP-50SPX2KXREX	1 1/2"	2"	M50	1.028	89	1.441	1.453	1.386	1.839	0.016	0.062	0.079	0.098	2.362	2.598	3.031
CMP-50PX2KXREX	2"	2 1/2"	M50	1.059	89	1.614	1.626	1.591	2.087	0.024	0.062	0.079	0.098	2.756	3.031	3.031
CMP-63SPX2KXREX	2"	2 1/2"	M63	1.059	115	1.886	1.906	1.795	2.339	0.024	0.062	0.079	0.098	2.953	3.248	3.138
CMP-63PX2KXREX	2 1/2"	3"	M63	1.571	115	2.114	2.126	2.150	2.591	0.024	0.062	0.079	0.098	3.150	3.465	3.161
CMP-75SPX2KXREX	2 1/2"	3"	M75	1.571	140	2.358	2.370	2.323	2.835	0.024	0.062	0.079	0.098	3.543	3.898	3.417
CMP-75PX2KXREX	3"	3 1/2"	M75	1.634	140	2.528	2.528	2.626	3.087	0.024	0.062	0.098	0.118	3.937	4.331	3.476
CMP-90PX2KXREX	3 1/2"	4"	M90	1.685	200	2.965	2.976	3.000	3.555	0.032	0.062	0.124	0.157	4.528	4.980	4.020
CMP-100PX2KXREX	4"	5"	M100	1.732	200	3.370	3.382	3.390	3.992	0.032	0.062	0.124	0.157	5.000	5.500	4.488

Dimensions are displayed in inches unless otherwise stated.

† Grooved Cone (X) is predominantly used for Wire Braid (e.g., GSWB, TCWB), Steel Tape Armour (STA, DSTA) and Aluminum Strip Armour (ASA) but is also suitable for Single Wire Armour (SWA), Aluminum Wire Armour (AWA) and Pliable Wire Armour (PWA) if the range is outside that of the Stepped Cone (W).

For material options please change the suffix in the ordering reference: brass (no suffix required), nickel plated brass "5" (as standard), 316 grade stainless steel "4", copper free aluminum "1"

For NPT options please change the following digits after the material suffix: 1/2" = 31, 3/4" = 32, 1" = 33, 1 1/4" = 34, 1 1/2" = 35, 2" = 36, 2 1/2" = 37, 3" = 38, 3 1/2" = 39, 4" = 310 (brass requires prefix "0")

Examples: **32PX2KREX1RA534** = nickel plated brass 1-1/4" NPT, **50SPX2KREX1RA035** = brass 1-1/2" NPT, **25PX2KREX1RA432** = stainless steel 3/4" NPT, 20PX2KREX1RA5 = nickel plated brass M20

CMP PXSS2KREX Connector

PXSS2KREX Series

APPLICATIONS

PXSS2KREX Globally Approved, Hazardous (Classified) Location Barrier Cable Gland For all types of Unarmoured Cables

- RapidEx liquid pour sealing system
- Enhances reliability, reduces risk
- Reduces man hours
- Reduces cost
- Direct and remote installation
- Superior levels of cable retention
- Displacement type environmental seal
- Designed to prevent "Coldflow"
- Deluge protected
- Disconnectable, union feature design
- -76°F to 185°F / -60°C to 85°C
- Class I Zone 1, 21 and Zone 2, 22 Class I Division 1 and 2 ABCD
- Globally marked, cCSAus, IECEx and ATEX
- As standard in nickel plated brass with NPT thread form

TECHNICAL DATA	
Design Specification	BS 6121:Part 1:1989, IEC 62444, EN 62444
Mechanical Classification*	Impact = Level 8, Retention = Class B
Enclosure Protection	IK10 to IEC 62262 (20 joules) N/A for aluminum - Please contact your Anixter sales office
ATEX Certificate	SIRA13ATEX1072X, SIRA13ATEX4078X
Code of Protection	Ex II 2G, II 1D, Ex d IIC Gb, Ex e IIC Gb, Ex ta IIIC Da Ex II 3G Ex nR IIC Gc, Ex IM2 Ex d I Mb, Ex e I Mb
Compliance Standards	EN60079-0,1,7,15,31
IECEx Certificate	IECEx SIR 13.0027X
Code of Protection	Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex d I Mb, Ex e I Mb
Compliance Standards	IEC 60079-0,1,7,15,31
cCSAus Certificate (20s/16 - 90)	2288626
Code of Protection	Class I, Groups A, B, C and D; Class II, Div. 2, Groups F and G; Class III, Div. 2; Type 4X; Oil Resistance II Class I, Zone 1 AEx d IIC Gb, AEx e IIC Gb, Class I, Zone 2 AEx nR IIC Gc, Class I, Zone 20 AEx ta IIIC Da
Compliance Standards	CAN/CSA-C22.2 No 0,18,25,30,94,174, CAN/CSA-E60079-0,1,7,31 CAN CSA-E61241-1-1, Part 1-1, ANSI/UL 514B Ed 5, ANSI/UL 50 Ed 11, ANSI/UL 2225 Ed 4, UL60079-0:07
CCOE/PESO Certificate (India)	P333688
NEPSI Certificate	GYJ13.1140X / GYJ13.1282X
RETIE Approval Number	03866
Marine Approvals	LRS: 01/00172 (E3) DNV: E-13848 ABS: 14-LD234401A-4-PDA
Ingress Protection Rating	IP66, IP67 and IP68**
Deluge Protection Compliance	DTSOI: 91
NEMA Rating	NEMA 4X**
Cable Gland Material	Electroless nickel plated brass, copper Free (<0.4%) aluminum, stainless steel
Seal Material	CMP SOLO LSF Halogen Free Thermoset Elastomer/RapidEx Barrier Compound
Cable Type	Unarmoured (where permitted by code)
Sealing Techniques	Unique CMP "LRS" Outer Seal (Load Retention Seal)
Sealing Area(s)	RapidEx Resin Barrier and cable outer sheath

Note:(*) Mechanical and Electrical Classifications applied as per IEC 62444 and EN 62444.
(**) Refer to CMP catalog for further information on ingress protection ratings.

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CMP PXSS2KREX Connector

PXSS2KREX Series

Anixter No.	Available Entry Threads "C" (Alternate Metric Thread Lengths Available)				No. of Cores	Diameter Over Conductors "A"	Cable Bedding Diameter "G"	Overall Cable Diameter "B"		Across Flats "D"	Across Corners "D"	Protrusion Length "F"
	NPT	NPT (Option)	Metric (Option)	Thread Length (NPT) "E"	Max.	Max.	Max.	Min.	Max.	Max.	Max.	
CMP-20S/16PXSS2KREX	1/2"	3/4"	M20	0.78	11	0.339	0.339	0.122	0.339	1.181	1.299	2.091
CMP-20SPXSS2KREX	1/2"	3/4"	M20	0.78	11	0.461	0.461	0.240	0.461	1.181	1.299	2.091
CMP-20PXSS2KREX	1/2"	3/4"	M20	0.78	11	0.496	0.508	0.256	0.551	1.181	1.299	2.134
CMP-25PXSS2KREX	3/4"	1"	M25	0.80	21	0.689	0.703	0.437	0.787	1.417	1.559	2.362
CMP-32PXSS2KREX	1"	1 1/4"	M32	0.98	38	0.929	0.941	0.669	1.035	1.614	1.776	2.406
CMP-40PXSS2KREX	1 1/4"	1 1/2"	M40	1.01	59	1.181	1.193	0.866	1.264	1.969	2.165	2.457
CMP-50SPXSS2KREX	1 1/2"	2"	M50	1.03	89	1.441	1.453	1.161	1.504	2.165	2.382	2.567
CMP-50PXSS2KREX	2"	2 1/2"	M50	1.06	89	1.614	1.626	1.402	1.732	2.362	2.598	2.661
CMP-63SPXSS2KREX	2"	2 1/2"	M63	1.06	115	1.886	1.906	1.579	1.965	2.756	3.031	2.799
CMP-63PXSS2KREX	2 1/2"	3"	M63	1.57	115	2.114	2.126	1.858	2.201	2.953	3.248	2.772
CMP-75SPXSS2KREX	2 1/2"	3"	M75	1.57	140	2.358	2.370	2.079	2.437	3.150	3.465	2.965
CMP-75PXSS2KREX	3"	3 1/2"	M75	1.63	140	2.528	2.528	2.327	2.673	3.346	3.681	2.949
CMP-90PXSS2KREX	3 1/2"	4"	M90	1.69	200	2.965	2.976	2.622	3.126	4.252	4.677	3.732
CMP-100PXSS2KREX	4"	5"	M100	1.73	200	3.370	3.382	2.992	3.579	4.843	5.327	3.398

Dimensions are displayed in inches unless otherwise stated.

For material options please change the suffix in the ordering reference: brass (no suffix required), nickel plated brass "5" (as standard), 316 grade stainless steel "4", copper free aluminum "1"

For NPT options please change the following digits after the material suffix: 1/2" = 31, 3/4" = 32, 1" = 33, 1 1/4" = 34, 1 1/2" = 35, 2" = 36, 2 1/2" = 37, 3" = 38, 3 1/2" = 39, 4" = 310 (Brass requires prefix "0")

Examples: **32PXSS2KREX1RA534** = nickel plated brass 1-1/4" NPT, **50SPXSS2KREX1RA035** = brass 1-1/2" NPT, **25PXSS2KREX1RA432** = stainless steel 3/4" NPT, **20PXSS2KREX1RA5** nickel plated brass M20

Eaton Crouse-Hinds TECK Connector

TECK Connector

APPLICATIONS

Terminator™ Connectors:

- Are CSA Certified for use with TECK armoured cable,
- Provide a means to terminate at junction boxes, control centers, panellboards and enclosures for motor control and electrical distribution equipment;
- Form a watertight (Encl 4/IP 56) seal around cable and at enclosure entry;
- Provide ground continuity of cable armour;
- Provide excellent cable pullout protection exceeding CSA requirements;
- Are used indoors and outdoors, in wet or dry locations;
- Can be utilized in both vertical or horizontal cable runs,
- Protect fittings from corrosive elements like salt water with TMC-K Series Cold Shrink™ corrosion protection kits.

FEATURES

- CSA Certified for ordinary and hazardous locations assuiring a safe and reliable termination in adverse environments
- No disassembly required, resulting in a quick-and-easy installation and lower labour costs
- Available in aluminum, steel, stainless steel and PVC-coated aluminum construction for almost any type of corrosive environment
- Unique stainless steel grounding spring provides 360° positive grounding and superior pullout resistance
- Neoprene bushing creates a watertight seal to protect electrical equipment
- Neoprene O-ring on connector provides an environmental seal when fitting is installed in knockout
- Hex surfaces provide a large wrenching area for easy installation
- Hex surfaces on aluminum fittings have slots for screwdriver tightening/loosening
- Compact design allows close spacing of connectors
- Available in 1/2” to 4” trade sizes for application flexibility

CERTIFICATIONS AND COMPLIANCES

- CEO: Class II, Division 1 and 2.
  Groups E, F and G
  Class III
- CSA Standard: C22.2 No. 18
- Encl 4/IP 56

Note: For a complete list of Eaton Crouse-Hinds products call your local Anixter sales office.

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Eaton Crouse-Hinds TECK Connector

TECK Connector

Anixter No. Alum.	Anixter No. Steel	Hub Size in.	Range Over Armour in.	Range Over Jacket in.
7CH-TECK-050-1	7CH-TECK-050-1S	1/2	0.415 - 0.570	0.525 - 0.650
7CH-TECK-050-2	7CH-TECK-050-2S	1/2	0.490 - 0.680	0.600 - 0.760
7CH-TECK-050-3	7CH-TECK-050-3S	1/2	0.615 - 0.805	0.725 - 0.885
7CH-TECK-050-4	7CH-TECK-050-4S	1/2	0.715 - 0..905	0.825 - 0.985
7CH-TECK-075-5	7CH-TECK-075-5S	3/4	0.770 - 0.985	0.880 - 1.065
7CH-TECK-075-6	7CH-TECK-075-6S	3/4	0.915 - 1.125	1.025 - 1.205
7CH-TECK-100-7	7CH-TECK-100-7S	1	1.077 - 1.295	1.187 - 1.375
7CH-TECK-125-8	7CH-TECK-125-8S	1 1/4	1.240 - 1.545	1.350 - 1.625
7CH-TECK-125-9	7CH-TECK-125-9S	1 1/4	1.390 - 1.545	1.500 - 1.625
7CH-TECK-125-10	7CH-TECK-125-10S	1 1/4	1.490 - 1.795	1.600 - 1.875
7CH-TECK-150-11	7CH-TECK-150-11S	1 1/2	1.590 - 1.885	1.700 - 1.965
7CH-TECK-150-12	7CH-TECK-150-12S	1 1/2	1.790 - 2.107	1.900 - 2.187
7CH-TECK-200-13	7CH-TECK-200-13S	2	1.790 - 2.107	1.900 - 2.187
7CH-TECK-200-14	7CH-TECK-200-14S	2	1.990 - 2.280	2.100 - 2.375
7CH-TECK-200-15	7CH-TECK-200-15S	2	2.190 - 2.485	2.300 - 2.565
7CH-TECK-200-16	7CH-TECK-200-16S	2	2.390 - 2.656	2.500 - 2.750
7CH-TECK-250-17	7CH-TECK-250-17S	2 1/2	2.240 - 2.560	2.380 - 2.640
7CH-TECK-250-18	7CH-TECK-250-18S	2 1/2	2.440 - 2.750	2.580 - 2.840
7CH-TECK-300-19	7CH-TECK-300-19S	3	2.640 - 2.970	2.790 - 3.060
7CH-TECK-300-20	7CH-TECK-300-20S	3	2.870 - 3.190	3.000 - 3.270
7CH-TECK-300-21	7CH-TECK-300-21S	3	3.042 - 3.390	3.210 - 3.480
7CH-TECK-350-22	7CH-TECK-350-22S	3 1/2	3.270 - 3.590	3.420 - 3.690
7CH-TECK-350-23	7CH-TECK-350-23S	3 1/2	3.440 - 3.770	3.610 - 3.870
7CH-TECK-400-24	7CH-TECK-400-24S	4	3.600 - 3.930	3.810 - 4.030
7CH-TECK-400-25	7CH-TECK-400-25S	4	3.755 - 4.065	3.965 - 4.185
7CH-TECK-400-26	7CH-TECK-400-26S	4	3.910 - 4.220	4.120 - 4.340

NOTE: Steel connectors cannot be used on single-conductor (1C) cables.

Eaton Crouse-Hinds TMC Series

TMC Series

APPLICATIONS

Terminator™ cable fittings:

- Are UL Listed for use with jacketed metal-clad cable with interlocked or corrugated armour and Type TC tray cable,
- Provide a means to terminate metal-clad and tray cable at junction boxes, control centers, panelboards and enclosures for motor control and electrical distribution equipment,
- Form a watertight seal,
- Provide grounding continuity of cable armour (Type MC cable only),
- Can be used indoors or outdoors, in wet or dry locations,
- In vertical and horizontal cable runs,
- Provide a watertight seal in slip holes of sheet metal or cast boxes when used with SL Series sealing locknuts,
- Protect fittings from corrosive elements like salt water when used with TMC-K Series Cold Shrink™ Corrosion Protection Kits.

FEATURES

- Ten fittings cover cable O.D. range of 0.440" to 4.020", in 1/2" to 4" NPT sizes
- Quick and easy to install. No disassembly is required for TMC installation
- Unique stainless steel grounding/retaining spring with copper plate finish provides positive ground continuity and superior pull-out resistance exceeding that required by UL CSA.
- Neoprene bushing provides a watertight seal
- Lightweight, corrosion-resistant/copper-free aluminum construction provides long, maintenance-free service life in industrial environments
- Can be used in wet locations
- Temperature rating: -20 to 40°C
- CAN/CSA-C22.2 No. 18.3

Anixter No.	NPT Size in.	Armoured O.D. Range in.
7CH-TMC165	1/2	0.440 - 0.650
7CH-TMC285	3/4	0.600 - 0.850
7CH-TMC3112	1	0.800 - 1.120
7CH-TMC4140	1 1/4	1.100 - 1.400
7CH-TMC5161	1 1/2	1.330 - 1.610
7CH-TMC6206	3	1.570 - 2.060
7CH-TMC7247	2 1/2	1.930 - 2.470
7CH-TMC8302	3	2.450 - 3.020
7CH-TMC9352	3 1/2	2.950 - 3.520
7CH-TMC10402	4	3.500 - 4.020

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Eaton Crouse-Hinds TMCX Series

TMCX Series

APPLICATIONS

Terminator™ cable fittings:

- Are UL Listed for use with jacketed metal-clad cable with interlocked or corrugated armour and Type TC tray cable,
- Provide a means to terminate metal-clad and tray cable at junction boxes, control centers, panelboards and enclosures for motor control and electrical distribution equipment,
- Form a watertight seal,
- Provide grounding continuity of cable armour (Type MC cable only),
- Provide excellent cable pullout protection exceeding UL requirements,
- Are reusable in hazardous locations. An integral union feature simplifies installation on new construction and allows installed TMCX Series connector fittings to be disassembled and reused when performing repairs or replacement of equipment,
- Can be used indoors and outdoors, in wet or dry locations,
- Can be used in vertical and horizontal cable runs,
- Provide a watertight seal in slip holes of sheet metal or cast boxes when used with SL Series sealing locknuts,
- Protect fittings from corrosive elements like salt water when used with TMC-K Series Cold Shrink™ Corrosion Protection Kits.

FEATURES

- Ten fittings cover cable O.D. range of 0.440" to 4.020", in in 1/2" to 4" NPT sizes
- Quick and easy to install. No disassembly is required for TMCX installation
- Neoprene bushing provides a watertight seal
- Lightweight, corrosion-resistant/copper-free aluminum construction provides long, maintenance-free service life in industrial environments
- Optional all-brass construction available. Hex design for easy wrenching
- Compact size for close nesting of cables
- TMCX fittings are furnished complete with epoxy sealing compound
- TMCX fittings with sealing chamber have a red-colored gland nut for easy identification

CERTIFICATIONS AND COMPLIANCES

- NEC/CEC: Class I, Division 1 and 2, Groups B, C, D
  Class II, Division 1 and 2, Groups E, F, G
  Class III, Division 1 and 2
  Zone 1 and 2
- NEMA: FB1-1989
- UL Standards: 514B, 886
- Federal Specification: W-F 406B
- NEC Articles 501-4(a) and (b). 501-5(c)(d) and (e), 502-4(a) and (b), 502-5 and 503-3
- CSA Standard: C22.2 No. 18-M1987

Anixter No.	NPT Size in.	Range Over Armour in.
7CH-TMCX165	1/2	0.440 - 0.650
7CH-TMCX285	3/4	0.600 - 0.850
7CH-TMCX3112	1	0.800 - 1.120
7CH-TMCX4140	1 1/4	1.100 - 1.400
7CH-TMCX5161	1 1/2	1.330 - 1.610
7CH-TMCX6206	3	1.570 - 2.060
7CH-TMCX7247	2 1/2	1.930 - 2.470
7CH-TMCX8302	3	2.450 - 3.020
7CH-TMCX9352	3 1/2	2.950 - 3.520
7CH-TMCX10402	4	3.500 - 4.020

Compression Lugs (Copper)

Burndy HYLUG™ Copper Compression, CODE Conductor, One-hole Lugs

Conductor Size	Stud Hole Size	One-Hole Standard Barrel With Window		One-Hole Long Barrel With Window		One-Hole Long Barrel Without Window	
AWG/kcmil	in.	Anixter No.	Vendor No.	Anixter No.	Vendor No.	Anixter No.	Vendor No.
8	#10	YAL8CT10	YAL8CT10	YAZ8CTC10	YAZ8CTC10	YA8CTC10	YA8CTC10
	1/4	YAL8CT14	YAL8CT14	YAZ8CTC14	YAZ8CTC14	YA8CTC14	YA8CTC14
	5/16	YAL8CT516	YAL8CT516	-----	-----	-----	-----
	3/8	YAL8CT38	YAL8CT38	YAZ8CTC38	YAZ8CTC38	YA8CTC38	YA8CTC38
6	#10	YAL6CT10	YAL6CT10	YAZ6CTC10	YAZ6CTC10	YA6CTC10	YA6CTC10
	1/4	YAL6CT14	YAL6CT14	YAZ6CTC14	YAZ6CTC14	YA6C	YA6C
	5/16	YAL6CT516	YAL6CT516	-----	-----	-----	-----
	3/8	YAL6CT38	YAL6CT38	YAZ6CTC38	YAZ6CTC38	-----	-----
4	1/4	YAL4CT14	YAL4CT14	YAZ4CTC14	YAZ4CTC14	YA4C	YA4C
	5/16	YAL4CT516	YAL4CT516	-----	-----	-----	-----
	3/8	YAL4CT38	YAL4CT38	YAZ4CTC38	YAZ4CTC38	YA4CTC38	YA4CTC38
	1/2	YAL4CT12	YAL4CT12	YAZ4CTC12	YAZ4CTC12	YA4CN	YA4CN
2	1/4	YAL2CT14	YAL2CT14	YAZ2CTC14	YAZ2CTC14	YA2CTC10	YA2CTC10
	5/16	YAL2CT516	YAL2CT516	-----	-----	YA2C	YA2C
	3/8	YAL2CT38	YAL2CT38	YAZ2CTC38	YAZ2CTC38	-----	-----
	1/2	YAL2CT12	YAL2CT12	YAZ2CTC12	YAZ2CTC12	YA2CN	YA2CN
1/0	1/4	YAL25T14	YAL25T14	YAZ25TC14	YAZ25TC14	-----	-----
	5/16	YAL25T516	YAL25T516	-----	-----	YA25	YA25
	3/8	YAL25T38	YAL25T38	YAZ25TC38	YAZ25TC38	YA25TC38	YA25TC38
	1/2	YAL25T12	YAL25T12	YAZ25TC12	YAZ25TC12	YA25N	YA25N
2/0	5/16	YAL26T516	YAL26T516	-----	-----	-----	-----
	3/8	YAL26T38	YAL26T38	YAZ26TC38	YAZ26TC38	YA26	YA26
	1/2	YAL26T12	YAL26T12	YAZ26TC12	YAZ26TC12	YA26N	YA26N
3/0	5/16	YAL27T516	YAL27T516	-----	-----	-----	-----
	3/8	YAL27T38	YAL27T38	YAZ27TC38	YAZ27TC38	-----	-----
	1/2	YAL27T12	YAL27T12	YAZ27TC12	YAZ27TC12	YA27	YA27
4/0	3/8	YAL28T38	YAL28T38	YAZ28TC38	YAZ28TC38	YA28TC38	YA28TC38
	1/2	YAL28T12	YAL28T12	YAZ28TC12	YAZ28TC12	YA28	YA28
	5/8	YAL28T58	YAL28T58	-----	-----	-----	-----
250	3/8	YAL292T38	YAL292T38	YAZ29TC38	YAZ29TC38	-----	-----
	1/2	YAL29T12	YAL29T12	YAZ29TC12	YAZ29TC12	YA29	YA29
	7/8	YAL29T78	YAL29T78	-----	-----	-----	-----
350	3/8	YAL31T38	YAL31T38	YAZ31TC38	YAZ31TC38	-----	-----
	1/2	YAL31T12	YAL31T12	YAZ31TC12	YAZ31TC12	YA31	YA31
	5/8	YAL31T58	YAL31T58	-----	-----	-----	-----
	7/8	YAL31T78	YAL31T78	-----	-----	-----	-----
500	3/8	YAL34T38	YAL34T38	YAZ34TC38	YAZ34TC38	-----	-----
	1/2	YAL34T12	YAL34T12	YAZ34TC12	YAZ34TC12	YA34N	YA34N
	5/8	YAL34T58	YAL34T58	-----	-----	YA34	YA34
	7/8	YAL34T78	YAL34T78	-----	-----	-----	-----
750	3/8	YAL39T38	YAL39T38	YAZ39TC38	YAZ39TC38	-----	-----
	1/2	YAL39T12	YAL39T12	YAZ39TC12	YAZ39TC12	YA39N	YA39N
	5/8	YAL39T58	YAL39T58	-----	-----	YA39	YA39
	7/8	YAL39T78	YAL39T78	-----	-----	-----	-----

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Compression Lugs (Copper)

Burndy HYLUG™ Copper Compression, CODE Conductor, Two-hole Lugs

Conductor Size	Stud Hole Size	Stud Hole Spacing	Two-Hole Standard Barrel With Window		Two-Hole Long Barrel With Window		Two-Hole Long Barrel Without Window	
AWG/kcmil	in.	in.	Anixter No.	Vendor No.	Anixter No.	Vendor No.	Anixter No.	Vendor No.
8	#10	5/8	**YA8CL2TC10**	YA8CL2TC10	**YAZ8C2TC10**	YAZ8C2TC10	-----	-----
	1/4	5/8	**YA8CL2TC14**	YA8CL2TC14	**YAZ8C2TC14**	YAZ8C2TC14	**YA8C2TC14**	YA8C2TC14
	1/4	1	**YA8CL2TC14E0**	YA8CL2TC14E0	**YAZ8C2TC14E0**	YAZ8C2TC14E0	-----	-----
	3/8	1	**YA8CL2TC37**	YA8CL2TC37	**YAZ8C2TC37**	YAZ8C2TC37	**YA8C2TC38**	YA8C2TC38
6	#10	5/8	**YA6CL2TC9**	YA6CL2TC9	-----	-----	-----	-----
	1/4	1/2	**YA6CL2TC14E**	YA6CL2TC14E	-----	-----	-----	-----
	1/4	5/8	**YA6C-2L**	YA6C-2L	**YAZ6C2TC13**	YAZ6C2TC13	**YA6C2TC14**	YA6C2TC14
	1/4	3/4	**YA6CL2TC14E2**	YA6CL2TC14E2	**YAZ6C2TC14E2**	YAZ6C2TC14E2	**YA6C2TC14E2**	YA6C2TC14E2
	1/4	1	**YA6CL2TC14E1**	YA6CL2TC14E1	**YAZ6C2TC14E1**	YAZ6C2TC14E1	**YA6C2TC14E1**	YA6C2TC14E1
	3/8	1	**YA6CL2TC37**	YA6CL2TC37	**YAZ6C2TC37**	YAZ6C2TC37	**YA6C2C38**	YA6C2C38
4	1/4	5/8	**YA4C-2L**	YA4C-2L	**YAZ4C2TC13**	YAZ4C2TC13	**YA4C2TC14**	YA4C2TC14
	1/4	3/4	**YA4CL2TC14E2**	YA4CL2TC14E2	**YAZ4C2TC14E1**	YAZ4C2TC14E1	**YA4C2TC14E2**	YA4C2TC14E2
	1/4	1	**YA4CL2TC14E1**	YA4CL2TC14E1	-----	-----	-----	-----
	3/8	1	**YA4CL2TC37**	YA4CL2TC37	**YAZ4C2TC37**	YAZ4C2TC37	**YA4C2TC38**	YA4C2TC38
2	1/4	5/8	**YA2C-2L**	YA2C-2L	**YAZ2C2TC13**	YAZ2C2TC13	**YA2C2TC14**	YA2C2TC14
	1/4	3/4	**YA2CL2TC14E2**	YA2CL2TC14E2	**YAZ2C2TC14E2**	YAZ2C2TC14E2	**YA2C2TC14E2**	YA2C2TC14E2
	1/4	1	**YA2CL2TC14E1**	YA2CL2TC14E1	**YAZ2C2TC14E1**	YAZ2C2TC14E1	-----	-----
	3/8	1	**YA2CL2TC37**	YA2CL2TC37	**YAZ2C2TC37**	YAZ2C2TC37	**YA4C2TC38**	YA4C2TC38
1/0	1/4	5/8	**YA25L2TC13**	YA25L2TC13	**YAZ252TC13**	YAZ252TC13	**YA252TC14**	YA252TC14
	1/4	3/4	**YA25L2TC14E2**	YA25L2TC14E2	**YAZ252TC14E2**	YAZ252TC14E2	**YA252TC14E2**	YA252TC14E2
	1/4	1	**YA25L2TC14E1**	YA25L2TC14E1	**YAZ252TC14E1**	YAZ252TC14E1	-----	-----
	5/16	7/8	**YA25-2L**	YA25-2L	**YAZ252TC516E5**	YAZ252TC516E5	-----	-----
	3/8	1	**YA25L2TC37**	YA25L2TC37	**YAZ252TC37**	YAZ252TC37	**YA252TC38**	YA252TC38
2/0	1/4	5/8	**YA26L2TC13**	YA26L2TC13	**YAZ262TC13**	YAZ262TC13	**YA262TC14**	YA262TC14
	1/4	3/4	**YA26L2TC14E2**	YA26L2TC14E2	**YAZ262TC14E1**	YAZ262TC14E1	**YA262TC14E2**	YA262TC14E2
	1/4	1	**YA26L2TC14E1**	YA26L2TC14E1	-----	-----	-----	-----
	3/8	1	**YA26L2TC37**	YA26L2TC37	**YAZ262TC37**	YAZ262TC37	**YA262TC38**	YA262TC38
	1/2	1-3/4	**YA262LN**	YA262LN	**YAZ262N**	YAZ262N	-----	-----
4/0	1/4	3/4	**YA28L2TC14E2**	YA28L2TC14E2	**YAZ282TC14E1**	YAZ282TC14E1	**YA282TC14E2**	YA282TC14E2
	1/4	1	**YA28L2TC14E1**	YA28L2TC14E1	-----	-----	-----	-----
	1/2	1-3/4	**YA282LN**	YA282LN	**YAZ282N**	YAZ282N	-----	-----
	3/8	1"	**YA28L2TC37**	YA28L2TC37	**YAZ282TC37**	YAZ282TC37	**YA282TC38**	YA282TC38
350	1/4	3/4	**YA31L2TC14E1**	YA31L2TC14E1	**YAZ312TC14E1**	YAZ312TC14E1	**YA312TC14E2**	YA312TC14E2
	3/8	1	**YA31L2TC37**	YA31L2TC37	**YAZ312TC37**	YAZ312TC37	**YA312TC38**	YA312TC38
	1/2	1-3/4	**YA312LN**	YA312LN	**YAZ312N**	YAZ312N	**YA312N**	YA312N
500	3/8	1	-----	-----	**YAZ342TC38**	YAZ342TC38	**YA342TC38**	YA342TC38
	1/2	1-3/4	**YA342LN**	YA342LN	**YAZ342N**	YAZ342N	**YA342N**	YA342N
750	3/8	1	**YA39L2TC37**	YA39L2TC37	**YAZ392TC37**	YAZ392TC37	**YA392TC38**	YA392TC38
	1/2	1-3/4	**YA392LN**	YA392LN	**YAZ392N**	YAZ392N	**YA392N**	YA392N

Compression Lugs (Copper)

Burndy HYLUG™ Copper Compression, Flex Conductor, One-hole

Conductor Size AWG/kcmil	Stud Hole Size in.	One-Hole Standard Barrel With Window Anixter No.	Vendor No.
8	#10	YA8C-LB	YA8C-LB
	3/8	-----	-----
6	1/4	YA5C-LB	YA5C-LB
4	1/4	-----	-----
	5/16	YA3C-LB	YA3C-LB
	3/8	-----	-----
2	1/4	-----	-----
	5/16	YA1C-LB	YA1C-LB
	1/2	-----	-----
1/0	1/4	-----	-----
	5/16	-----	-----
	3/8	YA26-LB	YA26-LB
	1/2	-----	-----
2/0	5/16	-----	-----
	3/8	-----	-----
	1/2	YA27-LB	YA27-LB
3/0	5/16	-----	-----
	3/8	-----	-----
	1/2	YA28-LB	YA28-LB
4/0	3/8	-----	-----
	1/2	YA30-LB	YA30-LB
	5/8	-----	-----
250	3/8	-----	-----
	1/2	YA30-LB	YA30-LB
	7/8	-----	-----
350	3/8	-----	-----
	1/2	-----	-----
	5/8	YA34-LB	YA34-LB
	7/8	-----	-----
500	3/8	-----	-----
	1/2	-----	-----
	5/8	YA38-LB	YA38-LB
	7/8	-----	-----
750	3/8	-----	-----
	1/2	-----	-----
	5/8	YA44-LB	YA44-LB

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Compression Lugs (Copper)

Burndy HYLUG™ Copper Compression, Flex Conductor, Two-hole

Conductor Size AWG/kcmil	Stud Hole Size in.	Stud Hole Spacing in.	Two-Hole Long Barrel Without Window Anixter No.	Vendor No.
8	#10	5/8	-----	-----
	3/8	1	**YA8C2TC38-FXB**	YA8C2TC38-FXB
6	1/4	1/2	-----	-----
	1/4	1	-----	-----
	3/8	1	**YAV6C2TC38-FXB**	YAV6C2TC38-FXB
4	5/16	1	**YAV4C2TC516-FXB**	YAV4C2TC516-FXB
	1/2	1.75	**YAV4C2N-FXB**	YAV4C2N-FXB
	3/8	1	**YAV4C2TC38-FXB**	YAV4C2TC38-FXB
2	5/16	1	**YAV2CTC**	YAV2CTC
	1/2	1.75	**YAV2C2N-FXB**	YAV2C2N-FXB
	3/8	1	**YAV2C2TC38-FXB**	YAV2C2TC38-FXB
1/0	1/4	5/8	**YAV252TC14-FXB**	YAV252TC14-FXB
	1/4	3/4	**YAV252TC14E2-FXB**	YAV252TC14E2-FXB
	1/4	1	-----	-----
	1/2	1.75	**YAV252N-FXB**	YAV252N-FXB
	3/8	1	**YAV252TC38-FXB**	YAV252TC38-FXB
2/0	1/4	5/8	**YAV262TC14-FXB**	YAV262TC14-FXB
	1/4	3/4	**YAV262TC14E2-FXB**	YAV262TC14E2-FXB
	1/2	1.75	**YAV262N-FXB**	YAV262N-FXB
	3/8	1	**YAV262TC38-FXB**	YAV262TC38-FXB
4/0	1/4	3/4	**YAV282TC14E2-FXB**	YAV282TC14E2-FXB
	1/2	1.75	**YAV282N-FXB**	YAV282N-FXB
	3/8	1"	**YAV262NT38-FXB**	YAV262NT38-FXB
350	1/4	3/4	-----	-----
	3/8	1	-----	-----
	1/2	1-3/4	**YA342N-FXB**	YA342N-FXB
500	3/8	1	**YA382TC38FXB**	YA382TC38-FXB
	1/2	1-3/4	**YA382N-FXB**	YA382N-FXB
750	3/8	1	**YA442TC38-FXB**	YA442TC38-FXB
	1/2"	1-3/4	**YA442NFXB**	YA442N-FXB

Compression Lugs (Copper)

PAN-LUG Copper Compression, CODE Conductor, One-hole Lugs

Conductor Size	Stud Hole Size	One-Hole Standard Barrel With Window		One-Hole Long Barrel With Window		One-Hole Long Barrel Without Window	
AWG/kcmil	in.	Anixter No.	Vendor No.	Anixter No.	Vendor No.	Anixter No.	Vendor No.
8	#10	PAN-LCA8-10	LCA8-10-L	-----	-----	PAN-LCB8-10	LCB8-10-L
	1/4	PAN-LCA8-14	LCA8-14-L	-----	-----	PAN-LCB8-14	LCB8-14-L
	5/16	PAN-LCA8-56	LCA8-56-L	PAN-LCB8-56W	LCB8-56W-L	-----	-----
	3/8	PAN-LCA8-38	LCA8-38-L	-----	-----	PAN-LCB8-38	LCB8-38-L
6	#10	PAN-LCA6-10	LCA6-10-L	-----	-----	PAN-LCB6-10	LCB6-10-L
	1/4	PAN-LCA6-14	LCA6-14-L	-----	-----	PAN-LCB6-14	LCB6-14-L
	5/16	PAN-LCA6-56	LCA6-56-L	PAN-LCB6-56W	LCB6-56W-L	-----	-----
	3/8	PAN-LCA6-38	LCA6-38-L	-----	-----	PAN-LCB6-38	LCB6-38-L
4 - 3 STR	#10	PAN-LCA4-10	LCA4-10-L	-----	-----	PAN-LCB4-10	LCB4-10-L
	1/4	PAN-LCA4-14	LCA4-14-L	-----	-----	PAN-LCB4-14	LCB4-14-L
2 SOL	5/16	PAN-LCA4-56	LCA4-56-L	-----	-----	PAN-LCB4-56	LCB4-56-L
	3/8	PAN-LCA4-38	LCA4-38-L	-----	-----	PAN-LCB4-38	LCB4-38-L
2	#10	-----	-----	-----	-----	PAN-LCB2-10	LCB2-10-Q
	1/4	PAN-LCA2-14	LCA2-14-Q			PAN-LCB2-14-Q	LCB2-14-Q
	5/16	PAN-LCA2-56	LCA2-56-Q	PAN-LCB2-56W	LCB2-56W-L	PAN-LCB2-56-Q	LCB2-56-Q
	3/8	PAN-LCA2-38	LCA2-38-Q	-----	-----	PAN-LCB2-38-Q	LCB2-38-Q
	1/2	PAN-LCA2-12	LCA2-12-Q	-----	-----	PAN-LCB2-12-Q	LCB2-12-Q
1	#10	-----	-----	-----	-----	PAN-LCB1-10-E	LCB1-10-E
	1/4	PAN-LCA1-14	LCA1-14-E	-----	-----	-----	-----
	5/16	PAN-LCA1-56	LCA1-56-E	-----	-----	PAN-LCB1-56-E	LCB1-56-E
	3/8	PAN-LCA1-38-E	LCA1-38-E	-----	-----	PAN-LCB1-38-E	LCB1-38-E
	1/2	PAN-LCA1-12	LCA1-12-E	-----	-----	PAN-LCB1-12-E	LCB1-12-E
1/0	#10	-----	-----	-----	-----	PAN-LCB1/0-10	LCB1/0-10-X
	1/4	PAN-LCA1/0-14	LCA1/0-14-X	-----	-----	-----	-----
	5/16	PAN-LCA1/0-56	LCA1/0-56-X	-----	-----	PAN-LCB1/0-56	LCB1/0-56-X
	3/8	PAN-LCA1/0-38	LCA1/0-38-X	-----	-----	PAN-LCB1/0-38	LCB1/0-38-X
	1/2	PAN-LCA1/0-12	LCA1/0-12-X	-----	-----	PAN-LCB1/0-12	LCB1/0-12-X
2/0	1/4	PAN-LCA2/0-14	LCA2/0-14-X	-----	-----	-----	-----
	-----	-----	-----	-----	-----	-----	-----
	5/16	PAN-LCA2/0-56	LCA2/0-56-X	-----	-----	-----	-----
	3/8	PAN-LCA2/0-38-X	LCA2/0-38-X	-----	-----	PAN-LCB2/0-38	LCB2/0-38-X
	1/2	PAN-LCA2/0-12	LCA2/0-12-X	-----	-----	PAN-LCB2/0-12	LCB2/0-12-X
	3/4	-----	-----	-----	-----	-----	-----
3/0	1/4	PAN-LCA3/0-14	LCA3/0-14-X	-----	-----	-----	-----
	5/16	PAN-LCA3/0-56	LCA3/0-56-X	-----	-----	-----	-----
	3/8	PAN-LCA3/0-38-X	LCA3/0-38-X	-----	-----	PAN-LCB3/0-38	LCB3/0-38-X
	1/2	PAN-LCA3/0-12	LCA3/0-12-X	-----	-----	PAN-LCB3/0-12	LCB3/0-12-X
4/0	1/4	PAN-LCA4/0-14	LCA4/0-14-X	-----	-----	-----	-----
	5/16	PAN-LCA4/0-56	LCA4/0-56-X	-----	-----	-----	-----
	3/8	PAN-LCA4/0-38	LCA4/0-38-X	-----	-----	PAN-LCB4/0-38	LCB4/0-38-X
	1/2	PAN-LCA4/0-12	LCA4/0-12-X	-----	-----	PAN-LCB4/0-12	LCB4/0-12-X
250	1/4	PAN-LCA250-14	LCA250-14-X	-----	-----	-----	-----
	5/16	PAN-LCA250-56	LCA250-56-X	-----	-----	-----	-----
	3/8	PAN-LCA250-38	LCA250-38-X	-----	-----	-----	-----
	1/2	PAN-LCA250-12	LCA250-12-X	-----	-----	PAN-LCB250-12-X	LCB250-12-X
	7/8	-----	-----	-----	-----	PAN-LCB250-78-X	LCB250-78-X

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Compression Lugs (Copper)

PAN-LUG Copper Compression, CODE Conductor, One-hole Lugs (continued)

Conductor Size	Stud Hole Size	One-Hole Standard Barrel With Window		One-Hole Long Barrel With Window		One-Hole Long Barrel Without Window	
kcmil	in.	Anixter No.	Vendor No.	Anixter No.	Vendor No.	Anixter No.	Vendor No.
300 kcmil	5/16	PAN-LCA300-56	LCA300-56-X	-----	-----	PAN-LCB300-56-X	LCB300-56-X
	3/8	PAN-LCA300-38	LCA300-38-X	-----	-----	PAN-LCB300-38-X	LCB300-38-X
	1/2	PAN-LCA300-12	LCA300-12-X	-----	-----	PAN-LCB300-12-X	LCB300-12-X
	5/8	PAN-LCA300-58	LCA300-58-X	-----	-----	-----	-----
	7/8	PAN-LCA300-78	LCA300-78-X	-----	-----	-----	-----
350 kcmil	3/8	PAN-LCA350-38	LCA350-38-X	-----	-----	-----	-----
	1/2	PAN-LCA350-12-X	LCA350-12-X	-----	-----	PAN-LCB350-12-X	LCB350-12-X
	5/8	PAN-LCA350-58	LCA350-58-X	-----	-----	-----	-----
	7/8	PAN-LCA350-78	LCA350-78-X	-----	-----	PAN-LCB350-78-X	LCB350-78-X
400 kcmil	3/8	PAN-LCA400-38-6	LCA400-38-6	-----	-----	PAN-LCB400-38-6	LCB400-38-6
	1/2	PAN-LCA400-12-6	LCA400-12-6	-----	-----	PAN-LCB400-12-6	LCB400-12-6
	5/8	PAN-LCA400-58-6	LCA400-58-6	-----	-----	PAN-LCB400-58-6	LCB400-58-6
	7/8	PAN-LCA400-78-6	LCA400-78-6	-----	-----	PAN-LCB400-78-6	LCB400-78-6
500 kcmil	3/8	PAN-LCA500-38	LCA500-38-6	-----	-----	-----	-----
	1/2	PAN-LCA500-12-6	LCA500-12-6	-----	-----	PAN-LCB500-12-6	LCB500-12-6
	5/8	PAN-LCA500-58	LCA500-58-6	-----	-----	PAN-LCB500-58-6	LCB500-58-6
	3/4	PAN-LCA500-34-6	LCA500-34-6	-----	-----	-----	-----
	7/8	PAN-LCA500-78-6	LCA500-78-6	-----	-----	PAN-LCB500-78-6	LCB500-78-6
	1	PAN-LCA500-1-6	LCA500-1-6	-----	-----		
600 kcmil	1/2	PAN-LCA600-12-6	LCA600-12-6	-----	-----	PAN-LCB600-12-6	LCB600-12-6
	5/8	PAN-LCA600-58-6	LCA600-58-6	-----	-----	PAN-LCB600-58-6	LCB600-58-6
	7/8	PAN-LCA600-78-6	LCA600-78-6	-----	-----	-----	-----
750 kcmil	3/8	-----	-----	PAN-LCB750-38W	LCB750-38W-6	-----	-----
	1/2	-----	-----	PAN-LCB750-12W	LCB750-12W-6	-----	-----
	5/8	PAN-LCA750-58-6	LCA750-58-6	PAN-LCB750-58W	LCB750-58W-6	PAN-LCB750-58-6	LCB750-58-6
	7/8	-----	-----	PAN-LCB750-78W	LCB750-78W-6	PAN-LCB750-78-6	LCB750-78-6
800 kcmil	5/8	-----	-----	PAN-LCB800-58W	LCB800-58W-6	PAN-LCB800-58-6	LCB800-58-6
1000 kcmil	1/2	-----	-----	PAN-LCB1000-12W	LCB1000-12W-3	-----	-----
	5/8	-----	-----	PAN-LCB1000-58W	LCB1000-58W-3	PAN-LCB800-58-3	LCB1000-58-3

Compression Lugs (Copper)

PAN-LUG Copper Compression, CODE Conductor, Two-hole Lugs

Conductor Size	Stud Hole Size	Stud Hole Spacing	Two-Hole Standard Barrel With Window		Two-Hole Long Barrel With Window		Two-Hole Long Barrel Without Window	
AWG/kcmil	in.	in.	Anixter No.	Vendor No.	Anixter No.	Vendor No.	Anixter No.	Vendor No.
8	#10	0.63	PAN-LCD8-10A	LCD8-10A-L	PAN-LCC8-10AW	LCC8-10AW-L	PAN-LCC8-10A	LCC8-10A-L
	#10	0.75	-----	-----	PAN-LCC8-10BW	LCC8-10BW-L	-----	-----
	#10	0.63 - 0.75	-----	-----	PAN-LCC8-10ABW	LCC8-10ABW-L	-----	-----
	1/4	0.63	PAN-LCD8-14A	LCD8-14A-L	PAN-LCC8-14AW	LCC8-14AW-L	PAN-LCC8-14A-L	LCC8-14A-L
	1/4	0.75	PAN-LCD8-14B	LCD8-14B-L	PAN-LCC8-14BW	LCC8-14BW-L	PAN-LCC8-14B	LCC8-14B-L
	1/4	1.00	PAN-LCD8-14D	LCD8-14D-L	PAN-LCC8-14DW	LCC8-14DW-L	PAN-LCC8-14D	LCC8-14D-L
	1/4	0.63 - 0.75	-----	-----	PAN-LCC8-14ABW	LCC8-14ABW-L	-----	-----
	3/8	1.00	PAN-LCD8-38D	LCD8-38D-L	PAN-LCC8-38DW	LCC8-38DW-L	PAN-LCC8-38D	LCC8-38D-L
6	#10	0.63	PAN-LCD6-10A	LCD6-10A-L	PAN-LCC-10AW	LCC-10AW-L	PAN-LCC6-10A	LCC6-10A-L
	#10	0.75	PAN-LCD6-10B	LCD6-10B-L	PAN-LCC6-10BW	LCC6-10BW-L	-----	-----
	#10	0.63 - 0.75	-----	-----	PAN-LCC6-10ABW	LCC6-10ABW-L	-----	-----
	#10	1.00	PAN-LCD6-10D	LCD6-10D-L	-----	-----	-----	-----
	1/4	0.50	PAN-LCD6-14J	LCD6-14J-L	PAN-LCC6-14JW	LCC6-14JW-L	-----	-----
	1/4	0.63	PAN-LCD6-14A	LCD6-14A-L	LCC6-14AW-L	LCC6-14AW-L	PAN-LCC6-14A	LCC6-14A-L
	1/4	0.50 - .063	-----	-----	PAN-LCC6-14JAW	LCC6-14JAW-L	-----	-----
	1/4	0.75	PAN-LCD6-14B	LCD6-14B-L	PAN-LCC6-14BW	LCC6-14BW-L	PAN-LCC6-14B	LCC6-14B-L
	1/4	1.00	PAN-LCD6-14D	LCD6-14D-L	PAN-LCC6-14DW	LCC6-14DW-L	PAN-LCC6-14D	LCC6-14D-L
	1/4	0.75 - 1.00	-----	-----	PAN-LCC6-14BDW	LCC6-14BDW-L	-----	-----
	1/4	1.25	-----	-----	PAN-LCC6-14EW	LCC6-14EW-L	-----	-----
	1/4	1.75	-----	-----	PAN-LCC6-14W	LCC6-14W-L	-----	-----
	5/16	0.75	-----	-----	PAN-LCC6-56BW	LCC6-56BW-L	-----	-----
	5/16	1.00	PAN-LCD6-56D	LCD6-56D-L	-----	-----	-----	-----
	3/8	0.75	-----	-----	PAN-LCC6-38BW	LCC6-38BW-L	-----	-----
	3/8	0.88	-----	-----	PAN-LCC6-38CW	LCC6-38CW-L	-----	-----
	3/8	1.00	PAN-LCD6-38D	LCD6-38D-L	PAN-LCC6-38DW	LCC6-38DW-L	PAN-LCC6-38D	LCC6-38D-L
	3/8	0.75 - 1.00	-----	-----	PAN-LCC6-38BDW	LCC6-38BDW-L	-----	-----
	1/2	1.75	-----	-----	PAN-LCC6-12W	LCC6-12W-L	PAN-LCC6-12	LCC6-12-L
4 - 3 STR 2 SOL	#10	0.63	PAN-LCD4-10A	LCD4-10A-L	PAN-LCC4-10AW	LCC4-10AW-L	-----	-----
	#10	0.75	PAN-LCD4-10B	LCD4-10B-L	PAN-LCC4-10BW	LCC4-10BW-L	-----	-----
	1/4	0.63	PAN-LCD4-14A	LCD4-14A-L	PAN-LCC4-14BW	LCC4-14AW-L	PAN-LCC4-14A	LCC4-14A-L
	1/4	0.75	PAN-LCD4-14B	LCD4-14B-L	PAN-LCC4-14BW	LCC4-14BW-L	PAN-LCC4-14B	LCC4-14B-L
	1/4	1.00	PAN-LCD4-14D	LCD4-14D-L	PAN-LCC4-14DW	LCC4-14DW-L	-----	-----
	1/4	.63 - 1.00	-----	-----	PAN-LCC4-14ADW	LCC4-14ADW-L	-----	-----
	3/8	1.00	PAN-LCD4-38D	LCD4-38D-L	PAN-LCC4-38DW	LCC4-38DW-L	PAN-LCC4-38D	LCC4-38D-L
#4 AWG	1/2	1.75	-----	-----	PAN-LCC4-12W	LCC4-12W-L	PAN-LCC4-12	LCC4-12-L
#2 AWG	#10	0.63	-----	-----	PAN-LCC2-10AW	LCC2-10AW-Q	-----	-----
	#10	0.75	-----	-----	PAN-LCC2-10BW	LCC2-10BW-Q	-----	-----
	1/4	0.63	PAN-LCD2-14A	LCD2-14A-Q	PAN-LCC2-14AW	LCC2-14AW-Q	PAN-LCC4-14A	LCC4-14A-Q
	1/4	0.75	PAN-LCD2-14B	LCD2-14B-Q	PAN-LCC2-14BW	LCC2-14BW-Q	PAN-LCC4-14B	LCC4-14B-Q
	1/4	1.00	PAN-LCD2-14D	LCD2-14D-Q	PAN-LCC2-14DW	LCC2-14DW-Q	-----	-----
	5/16	0.75	PAN-LCD2-56B	LCD2-56B-Q	PAN-LCC2-56BW	LCC2-56BW-Q	PAN-LCC2-56B	LCC2-56B-Q
	5/16	0.88	-----	-----	PAN-LCC2-56CW	LCC2-56CW-Q	PAN-LCC2-56C	LCC2-56C-Q
	3/8	0.75	-----	-----	LCC2-38BW-Q	LCC2-38BW-Q	-----	-----
	3/8	0.88	-----	-----	PAN-LCC2-38CW	LCC2-38CW-Q	-----	-----
	3/8	1.00	PAN-LCD2-38D	LCD2-38D-Q	PAN-LCC2-38DW	LCC2-38DW-Q	PAN-LCC2-38D-Q	LCC2-38D-Q
	3/8	1.75	-----	-----	PAN-LCC2-38W	LCC2-38W-Q	PAN-LCC2-38	LCC2-38-Q
	1/2	1.75	PAN-LCD2-12	LCD2-12-Q	PAN-LCC2-12W	LCC2-12W-Q	PAN-LCC2-12	LCC2-12-Q

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Compression Lugs (Copper)

PAN-LUG Copper Compression, CODE Conductor, Two-hole Lugs (continued)

Conductor Size	Stud Hole Size	Stud Hole Spacing	Two-Hole Standard Barrel With Window		Two-Hole Long Barrel With Window		Two-Hole Long Barrel Without Window	
AWG/kcmil	in.	in.	Anixter No.	Vendor No.	Anixter No.	Vendor No.	Anixter No.	Vendor No.
1	1/4	0.63	PAN-LCD1-14A-E	LCD1-14A-E	PAN-LCC1-14AW	LCC1-14AW-E	PAN-LCC1-14A-E	LCC1-14A-E
	1/4	0.75	PAN-LCD1-14B	LCD1-14B-E	PAN-LCC1-14BW	LCC1-14BW-E	PAN-LCC1-14B	LCC1-14B-E
	5/16	0.75	-----	-----	PAN-LCC1-56BW	LCC1-56BW-E	PAN-LCC1-56B	LCC1-56B-E
	5/16	0.88	PAN-LCD1-56C	LCD1-56C-E	PAN-LCC1-56CW	LCC1-56CW-E	PAN-LCC1-56C	LCC1-56C-E
	3/8	1.00	PAN-LCD1-38D	LCD1-38D-E	PAN-LCC1-38DW	LCC1-38DW-E	PAN-LCC1-38D	LCC1-38D-E
	1/2	1.75	PAN-LCD1-12	LCD1-12-E	PAN-LCC1-12W	LCC1-12W-E	PAN-LCC1-12	LCC1-12-E
1/0	1/4	0.63	PAN-LCD1/0-14A	LCD1/0-14A-X	PAN-LCC1/0-14AW	LCC1/0-14AW-X	PAN-LCC1/0-14A	LCC1/0-14A-X
	1/4	0.75	PAN-LCD1/0-14B	LCD1/0-14B-X	PAN-LCC1/0-14BW	LCC1/0-14BW-X	PAN-LCC1/0-14B	LCC1/0-14B-X
	3/8	1.00	PAN-LCD1/0-38D	LCD1/0-38D-X	PAN-LCC1/0-38DW	LCC1/0-38DW-X	PAN-LCC1/0-38D-X	LCC1/0-38D-X
	1/2	1.00	-----	-----	PAN-LCC1/0-12DW	LCC1/0-12DW-X	PAN-LCC1/0-12D	LCC1/0-12D-X
	1/2	1.75	PAN-LCD1/0-12	LCD1/0-12-X	PAN-LCC1/0-12W	LCC1/0-12W-X	PAN-LCC1/0-12	LCC1/0-12-X
2/0	1/4	0.63	PAN-LCD2/0-14A	LCD2/0-14A-X	PAN-LCC2/0-14AW	LCC2/0-14AW-X	PAN-LCC2/0-14A	LCC2/0-14A-X
	1/4	0.75	PAN-LCD2/0-14B-X	LCD2/0-14B-X	PAN-LCC2/0-14BW	LCC2/0-14BW-X	PAN-LCC2/0-14B	LCC2/0-14B-X
	5/16	0.88	PAN-LCD2/0-56C	LCD2/0-56C-X	-----	-----	PAN-LCC2/0-56C	LCC2/0-56C-X
	3/8	1.00	PAN-LCD2/0-38D	LCD2/0-38D-X	PAN-LCC2/0-38DW	LCC2/0-38DW-X	PAN-LCC2/0-38D	LCC2/0-38D-X
	1/2	1.75	PAN-LCD2/0-12-X	LCD2/0-12-X	PAN-LCC2/0-12W	LCC2/0-12W-X	PAN-LCC2/0-12	LCC2/0-12-X
3/0	1/4	0.75	PAN-LCD3/0-14B	LCD3/0-14B-X	PAN-LCC3/0-14BW	LCC3/0-14BW-X	PAN-LCC3/0-14B	LCC3/0-14B-X
	5/16	1.00	PAN-LCD3/0-56D-X	LCD3/0-56D-X	PAN-LCC3/0-56DW	LCC3/0-56DW-X	PAN-LCC3/0-56D	LCC3/0-56D-X
	3/8	1.00	PAN-LCD3/0-38D	LCD3/0-38D-X	PAN-LCC3/0-38DW	LCC3/0-38DW-X	PAN-LCC3/0-38D	LCC3/0-38D-X
	1/2	1.75	PAN-LCD3/0-12	LCD3/0-12-X	PAN-LCC3/0-12W	LCC3/0-12W-X	PAN-LCC3/0-12	LCC3/0-12-X
	1/4	0.75	PAN-LCD4/0-14B-X	LCD4/0-14B-X	PAN-LCC4/0-14BW	LCC4/0-14BW-X	PAN-LCC4/0-14B	LCC4/0-14B-X
	3/8	1.00	PAN-LCD4/0-38D	LCD4/0-38D-X	PAN-LCC4/0-38DW	LCC4/0-38DW-X	PAN-LCC4/0-38D-X	LCC4/0-38D-X
	1/2	1.75	PAN-LCD4/0-12	LCD4/0-12-X	PAN-LCC4/0-12W	LCC4/0-12W-X	PAN-LCC4/0-12	LCC4/0-12-X
250	5/16	1.00	-----	-----	PAN-LCC250-56DW	LCC250-56DW-X	-----	-----
	3/8	1.00	PAN-LCD250-38D	LCD250-38D-X	LCC250-38DW-X	LCC250-38DW-X	PAN-LCC250-38D	LCC250-38D-X
	1/2	1.00	-----	-----	PAN-LCC250-12DW	LCC250-12DW-X	PAN-LCC250-12D-X	LCC250-12D-X
	1/2	1.75	PAN-LCD250-12	LCD250-12-X	PAN-LCC250-12W	LCC250-12W-X	PAN-LCC250-12	LCC250-12-X
300	3/8	1.00	PAN-LCD300-38D	LCD300-38D-X	PAN-LCC300-38DW	LCC300-38DW-X	PAN-LCC300-38D	LCC300-38D-X
	1/2	1.75	PAN-LCD300-12-X	LCD300-12-X	PAN-LCC300-12W	LCC300-12W-X	PAN-LCC300-12	LCC300-12-X
350	1/4	0.75	PAN-LCD350-14B	LCD350-14B-X	PAN-LCC350-14BW	LCC350-14BW-X	PAN-LCC350-14B	LCC350-14B-X
	3/8	1.00	PAN-LCD350-38D	LCD350-38D-X	PAN-LCC350-38DW	LCC350-38DW-X	-----	-----
	1/2	1.75	PAN-LCD350-12-X	LCD350-12-X	PAN-LCC350-12W	LCC350-12W-X	PAN-LCC350-12	LCC350-12-X
400	1/4	0.75	-----	-----	PAN-LCC400-14BW-6	LCC400-14BW-6	PAN-LCC400-14B	LCC400-14B-6
	3/8	1.00	PAN-LCD400-38D-6	LCD400-38D-6	PAN-LCC400-38DW-6	LCC400-38DW-6	PAN-LCC400-38D	LCC400-38D-6
	1/2	1.75	PAN-LCD400-12-6	LCD400-12-6	PAN-LCC400-12W-6	LCC400-12W-6	PAN-LCC400-12-6	LCC400-12-6
500	1/4	0.75	PAN-LCD500-14B-6	LCD500-14B-6	PAN-LCC500-14BW-6	LCC500-14BW-6	PAN-LCC500-14B	LCC500-14B-6
	3/8	1.00	PAN-LCD500-38D-6	LCD500-38D-6	LCC500-38DW-6	LCC500-38DW-6	PAN-LC5C00-38D	LCC500-38D-6
	1/2	1.25	PAND-LCD500-12E-6	LCD500-12E-6	-----	-----	-----	-----
	1/2	1.75	PAN-LCD500-12-6	LCD500-12-6	PAN-LCC500-12W	LCC500-12W-6	PAN-LCC500-12	LCC500-12-6
600	3/8	1.00	PAN-LCD600-38D-6	LCD600-38D-6	PAN-LCC600-38DW-6	LCC600-38DW-6	PAN-LCC600-38D	LCC600-38D-6
	1/2	1.75	PAN-LCD600-12-6	LCD600-12-6	PAN-LCC600-12W-6	LCC600-12W-6	PAN-LCC600-12	LCC600-12-6
750	3/8	1.00	PAN-LCD750-38D-6	LCD750-38D-6	PAN-LCC750-38DW-6	LCC750-38DW-6	PAN-LCC750-38D	LCC750-38D-6
	1/2	1.75	PAN-LCD750-12-6	LCD750-12-6	PAN-LCC750-12W-6	LCC750-12W-6	PAN-LCC750-12	LCC750-12-6
800	1/2	1.75	-----	-----	PAN-LCC800-12W-6	LCC800-12W-6	PAN-LCC800-12	LCC800-12-6
1000	3/8	1.00	-----	-----	PAN-LCC1000-38DW-3	LCC1000-38DW-3	PAN-LCC1000-38D	LCC1000-38D-3
	1/2	1.25	PAN-LCD1000-12E-3	LCD1000-12E-3	-----	-----	-----	-----
	1/2	1.75	PAN-LCD1000-12-3	LCD1000-12-3	PAN-LCC1000-12W-3	LCC1000-12W-3	PAN-LCC1000-12	LCC1000-12-3

Compression Lugs (Copper)

PAN-LUG Copper Compression, CODE Conductor, One-hole Lugs, Standard Barrel with Window, Type LCAF

APPLICATIONS
For use with flexible copper conductor cables, such as DLO

FEATURES
- Color-coded barrels marked with PANDUIT and specified competitor die index numbers for proper crimp die selection
- UL Listed and CSA Certified to 35 kV and temperature rated to 90°C when crimped with PANDUIT and specified competitor crimping tools and dies
- Tested by Telcordia - meets NEBS Level 3

Anixter No.	Vendor No.	Conductor Size AWG	Stud Hole Size in.	Colour Code	Panduit Die No.
PAN-LCAF8-10	LCAF8-10	8	#10	Red	P21
PAN-LCAF8-14	LCAF8-14	8	1/4	Red	P21
PAN-LCAF8-56	LCAF8-56	8	5/16	Red	P21
PAN-LCAF8-38	LCAF8-38	8	3/8	Red	P21
PAN-LCAF6-10	LCAF6-10	6	#10	Blue	P24
PAN-LCAF6-14	LCAF6-14	6	1/4	Blue	P24
PAN-LCAF6-56	LCAF6-56	6	5/16	Blue	P24
PAN-LCAF6-38	LCAF6-38	6	3/8	Blue	P24
PAN-LCAF4-10	LCAF4-10	4	#10	Gray	P29
PAN-LCAF4-14	LCAF4-14	4	1/4	Gray	P29
PAN-LCAF4-56	LCAF4-56	4	5/16	Gray	P29
PAN-LCAF4-38	LCAF4-38	4	3/8	Gray	P29
PAN-LCAF2-14	LCAF2-14	2	1/4	Brown	P33
PAN-LCAF2-56	LCAF2-56	2	5/16	Brown	P33
PAN-LCAF2-38	LCAF2-38	2	3/8	Brown	P33
PAN-LCAF2-12	LCAF2-12	2	1/2	Brown	P33
PAN-LCAF1-14	LCAF1-14	1	1/4	Pink	P42
PAN-LCAF1-56	LCAF1-56	1	5/16	Pink	P42
PAN-LCAF1-38	LCAF1-38	1	3/8	Pink	P42
PAN-LCAF1-12	LCAF1-12	1	1/2	Pink	P42
PAN-LCAF1/0-14	LCAF1/0-14	1/0	1/4	Black	P45
PAN-LCAF1/0-56	LCAF1/0-56	1/0	5/16	Black	P45
PAN-LCAF1/0-38	LCAF1/0-38	1/0	3/8	Black	P45
PAN-LCAF1/0-12	LCAF1/0-12	1/0	1/2	Black	P45
PAN-LCAF2/0-14	LCAF2/0-14	2/0	1/4	Orange	P50
PAN-LCAF2/0-56	LCAF2/0-56	2/0	5/16	Orange	P50
PAN-LCAF2/0-38	LCAF2/0-38	2/0	3/8	Orange	P50
PAN-LCAF2/0-12	LCAF2/0-12	2/0	1/2	Orange	P50
PAN-LCAF3/0-14	LCAF3/0-14	3/0	1/4	Purple	P54
PAN-LCAF3/0-56	LCAF3/0-56	3/0	5/16	Purple	P54
PAN-LCAF3/0-38	LCAF3/0-38	3/0	3/8	Purple	P54
PAN-LCAF3/0-12	LCAF3/0-12	3/0	1/2	Purple	P54

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Compression Lugs (Copper)

PAN-LUG Copper Compression, CODE Conductor, One-hole Lugs, Standard Barrel with Window, Type LCAF (continued)

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size in.	Colour Code	Panduit Die No.
PAN-LCAF4/0-14	LCAF4/0-14	4/0	1/4	Yellow	P62
PAN-LCAF4/0-56	LCAF4/0-56	4/0	5/16	Yellow	P62
PAN-LCAF4/0-38	LCAF4/0-38	4/0	3/8	Yellow	P62
PAN-LCAF4/0-12	LCAF4/0-12	4/0	1/2	Yellow	P62
PAN-LCAF250-38	LCAF250-38	262	3/8	White	P66
PAN-LCAF250-12	LCAF250-12	262	1/2	White	P66
PAN-LCAF250-58	LCAF250-58	262	5/8	White	P66
PAN-LCAF250-78	LCAF250-78	262	7/8	White	P66
PAN-LCAF300-38	LCAF300-38	313	3/8	Red	P71
PAN-LCAF300-12	LCAF300-12	313	1/2	Red	P71
PAN-LCAF300-58	LCAF300-58	313	5/8	Red	P71
PAN-LCAF300-78	LCAF300-78	313	7/8	Red	P71
PAN-LCAF350-38	LCAF350-38	373	3/8	Blue	P76
PAN-LCAF350-12	LCAF350-12	373	1/2	Blue	P76
PAN-LCAF350-58	LCAF350-58	373	5/8	Blue	P76
PAN-LCAF350-34	LCAF350-34	373	3/4	Blue	P76
PAN-LCAF350-78	LCAF350-78	373	7/8	Blue	P76
PAN-LCAF350-1	LCAF350-1	373	1	Blue	P76
PAN-LCAF400-12	LCAF400-12	444	1/2	Brown	P87
PAN-LCAF400-58	LCAF400-58	444	5/8	Brown	P87
PAN-LCAF400-78	LCAF400-78	444	7/8	Brown	P87
PAN-LCAF500-12	LCAF500-12	535	1/2	Pink	P99
PAN-LCAF500-58	LCAF500-58	535	5/8	Pink	P99
PAN-LCAF600-12	LCAF600-12	646	1/2	Black	P106
PAN-LCAF600-58	LCAF600-58	646	5/8	Black	P106
PAN-LCAF750-12	LCAF750-12	777	1/2	Orange	P107
PAN-LCAF750-58	LCAF750-58	777	5/8	Orange	P107

Compression Lugs (Aluminum)

Burndy HYLUG™ Aluminum Compression, CODE Conductor, One-hole Lugs

Anixter No.	Vendor No.	Conductor Size AWG	Stud Hole Size in.	Lug Length x Tongue Width in.	Colour Code
YA8CA1	YA8CA1	8	#10	1.50 x 0.53	Blue
YA8CA3	YA8CA3	8	1/4	1.65 x 0.53	Blue
YA6CA1	YA6CA1	6	1/4	1.84 x 0.47	Gray
YA6CA3	YA6CA3	6	3/8	2.28 x 0.65	Gray
YA4CA1	YA4CA1	4	1/4	2.13 x 0.47	Green
YA4CA6	YA4CA6	4	3/8	2.32 x 0.80	Green
YA2CA5	YA2CA5	2	1/4	2.25 x 0.50	Pink
YA2CA3	YA2CA3	2	3/8	2.56 x 0.88	Pink
YA1CA1	YA1CA1	1	3/8	2.59 x 0.76	Gold
YA25A3	YA25A3	1/0	3/8	2.67 x 0.82	Tan
YA25A9	YA25A9	1/0	1/2	2.67 x 1.03	Tan
YA26A6	YA26A6	2/0	3/8	2.79 x 0.67	Olive
YA26A1	YA26A1	2/0	1/2	3.03 x 1.03	Olive
YA27A1	YA27A1	3/0	3/8	2.88 x 0.73	Ruby
YA27A3	YA27A3	3/0	1/2	3.27 x 1.04	Ruby
YA28A1	YA28A1	4/0	3/8	3.26 x 1.17	White
YA28A3	YA28A3	4/0	1/2	3.44 x 1.17	White

Burndy HYLUG™ Aluminum Compression, CODE Conductor, Two-hole Lugs

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size in.	Stud Hole Spacing in.	Lug Length x Tongue Width in.	Colour Code
YA25A5	YA25A5	1/0	3/8	1	3.73 x 0.82	Tan
YA25A7	YA25A7	1/0	1/2	1 3/4	4.59 x 1.03	Tan
YA26A3	YA26A3	2/0	1/2	1 3/4	4.78 x 1.03	Olive
YA26A5	YA26A5	2/0	3/8	1	3.56 x 0.92	Olive
YA27A5	YA27A5	3/0	1/2	1 3/4	5.02 x 1.04	Ruby
YA27A7	YA27A7	3/0	3/8	1	3.79 x 1.04	Ruby
YA28A5	YA28A5	4/0	1/2	1 3/4	5.19 x 1.17	White
YA28A7	YA28A7	4/0	3/8	1	3.97 x 1.17	White
YA29A3	YA29A3	250	1/2	1 3/4	5.28 x 1.26	Red
YA29A5	YA29A5	250	3/8	1	4.06 x 1.26	Red
YA31A3	YA31A3	350	1/2	1 3/4	6.07 x 1.52	Brown
YA31A5	YA31A5	350	3/8	1	4.85 x 1.52	Brown
YA34A3	YA34A3	500	1/2	1 3/4	6.80 x 1.62	Pink
YA34A5	YA34A5	500	3/8	1	5.54 x 1.80	Pink
YA36A3	YA36A3	600	1/2	1 3/4	7.09 x 1.62	Black
YA36A5	YA36A5	600	3/8	1	5.83 x 1.97	Black
YA39A5	YA39A5	750	1/2	1 3/4	7.07 x 1.62	Yellow

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Compression Lugs (Aluminum)

PAN-LUG Aluminum Compression, CODE Conductor, One-hole Lugs

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size in.	Lug Length x Tongue Width in.	Colour Code
PAN-LAA6-14-X	LAA6-14-X	6	1/4	2.20 x 0.55	Gray
PAN-LAA4-14-X	LAA4-14-X	4	1/4	2.05 x 0.66	Green
PAN-LAA2-14-X	LAA2-14-X	2	1/4	2.63 x 0.75	Pink
PAN-LAA250-12-5	LAA250-12-5	250	1/2	3.63 x 1.24	Red

PAN-LUG Aluminum Compression, CODE Conductor, Two-hole Lugs

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size in.	Stud Hole Spacing in.	Lug Length x Tongue Width in.	Colour Code
PAN-LAB1/0-38-X	LAB1/0-38-X	1/0	3/8	1 3/4	5.33 x 0.88	Tan
PAN-LAB250-12-5	LAB250-12-5	250	1/2	1 3/4	6.05 x 1.25	Red
PAN-LAB500-12-2	LAB500-12-2	500	1/2	1 3/4	7.36 x 1.72	Pink

Heat Shrink Tubing

Alpha FIT 221

SPECIFICATIONS
1. Shrink ratio: 2:1 at 121°C
2. Temperature: -55°C to 135°C
3. Longitudinal shrinkage: -5%
4. Size: 3/64 in. - 4 in.

APPLICATIONS
- General-purpose insulation and repair
- Wire and cable harnessing and bundling
- Cable and connector protection
- Wire and tubing splicing and connecting
- XTRA•GUARD 1 applications
- Automated cutting machines (spools)

Anixter No.	Vendor No.	Size (in.)	Min. Supplied I.D. (in.)	Max. Recovered I.D. (in.)	Wall Thickness (in.)
AFIT221-3/64-0	FIT-221B-3/64-0	3/64	0.046	0.023	0.016
AFIT221-1/16-0	FIT-221B-1/16	1/16	0.063	0.031	0.017
AFIT221-3/32-0	FIT-221B-3/32-0	3/32	0.093	0.046	0.02
AFIT221-1/8-0	FIT-221B-1/8-0	1/8	0.125	0.062	0.02
AFIT221-3/16-0	FIT-221B-3/16-0	3/16	0.187	0.093	0.02
AFIT221-1/4-0	FIT-221B-1/4-0	1/4	0.250	0.125	0.025
AFIT221-3/8-0	FIT-221B-3/8-0	3/8	0.375	0.187	0.025
AFIT221-1/2-0	FIT-221-1/2-0	1/2	0.500	0.250	0.025
AFIT221-3/4-0	FIT-221-3/4-0	3/4	0.750	0.375	0.03
AFIT221-1-0	FIT-221B-1	1	1.000	0.500	0.035
AFIT221-1 1/2-0	FIT-221-1 1/2	1 1/2	1.500	0.750	0.04
AFIT221-2-0	FIT-221B-2-0	2	2.000	1.000	0.045
AFIT221-3-0	FIT-221B-3-0	3	3.000	1.500	0.05
AFIT221-4-0	FIT-221-4	4	4.000	2.000	0.055

MIL-DTL-23053/5C, Class 1, 2

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Panduit Ring Terminal, Nylon and Vinyl Insulated

SPECIFICATIONS

1. Maximum insulation temperature: 221°F (105°C)
2. Internal barrel serrations assure good contact and maximum tensile strength
3. Terminals with funnel entry provide faster insertion and lower installed cost
4. Color-coded insulation identifies wire range
5. Sleeved barrel assures crimp reliability
6. UL and CSA rated up to 600 V per UL 486
7. Flammability: Nylon: UL 94 V-2/HB, Vinyl: UL 94 V-0
8. Contact your local sales representative for expanded offering

APPLICATIONS

Panduit PAN-TERM loose piece terminal offering includes insulated and non-insulated rings, forks, disconnects, splices and ferrules. Made of electrolytic refined copper and tin-plated for an optimum combination of crimp-forming and high-conductivity properties to provide superior terminations. Available in sizes from #26 AWG to #2 AWG and stud diameters from #2 - 1/2 inch.

RING TERMINAL, NYLON INSULATED

Anixter No.	Vendor No.	Wire Range	Colour	Stud Size	Length (in.)	Width (in.)	Std. Pkg. Qty.
PAN-PN18-4R-C	PN18-4R-C	22-18	Red	#4	0.80	0.25	100
PAN-PN18-6R-C	PN18-6R-C	22-18	Red	#6	0.80	0.25	100
PAN-PN18-10R-C	PN18-10R-C	22-18	Red	#10	0.88	0.31	100
PAN-PN14-6R-C	PN14-6R-C	16-14	Blue	#6	0.85	0.31	100
PAN-PN14-8R-C	PN14-8R-C	16-14	Blue	#8	0.85	0.31	100
PAN-PN14-10R-C	PN14-10R-C	16-14	Blue	#10	0.85	0.31	100
PAN-PN10-8R-L	PN10-8R-L	12-10	Yellow	#8	1.06	0.37	50
PAN-PN10-10R-L	PN10-10R-L	12-10	Yellow	#10	1.06	0.38	50
PAN-PN10-14R-L	PN10-14R-L	12-10	Yellow	1/4	1.21	0.52	50

RING TERMINAL, NYLON INSULATED - FUNNEL ENTRY

Anixter No.	Vendor No.	Wire Range	Colour	Stud Size	Length (in.)	Width (in.)	Std. Pkg. Qty.
PAN-PNF18-4R-C	PNF18-4R-C	22-18	Red	#4	0.77	0.25	100
PAN-PNF18-8R-C	PNF18-8R-C	22-18	Red	#8	0.87	0.31	100
PAN-PNF18-10R-C	PNF18-10R-C	22-18	Red	#10	0.87	0.32	100
PAN-PNF14-6R-C	PNF14-6R-C	16-14	Blue	#6	0.87	0.31	100
PAN-PNF14-8R-C	PNF14-8R-C	16-14	Blue	#8	0.87	0.31	100
PAN-PNF14-10R-C	PNF14-10R-C	16-14	Blue	#10	0.85	0.31	100
PAN-PNF14-14R-C	PNF14-14R-C	16-14	Blue	1/4	1.06	0.46	100
PAN-PNF10-8R-L	PNF10-8R-L	12-10	Yellow	#8	1.06	0.37	50
PAN-PNF10-10R-L	PNF10-10R-L	12-10	Yellow	#10	1.06	0.37	50

RING TERMINAL, VINYL INSULATED - FUNNEL ENTRY

Anixter No.	Vendor No.	Wire Range	Colour	Stud Size	Length (in.)	Width (in.)	Std. Pkg. Qty.
PAN-PV18-6R-CY	PV18-6R-CY	22-18	Red	#6	0.86	0.25	100
PAN-PV18-14R-CY	PV18-14R-CY	22-18	Red	1/4	1.11	0.46	100
PAN-PV14-6R-C	PV14-6R-C	16-14	Blue	#6	0.92	0.31	100
PAN-PV14-8R-C	PV14-8R-C	16-14	Blue	#8	0.92	0.31	100
PAN-PV14-10R-C	PV14-10R-C	16-14	Blue	#10	0.92	0.31	100
PAN-PV10-8R-L	PV10-8R-L	12-10	Yellow	#8	1.05	0.31	50
PAN-PV10-10R-L	PV10-10R-L	12-10	Yellow	#10	1.05	0.31	50
PAN-PV10-14R-L	PV10-14R-L	12-10	Yellow	1/4	1.23	0.52	50

Grounding

Burndy HYTAP™ Copper Compression Grounding C-Tap

APPLICATIONS AND FEATURES

- Irreversible compression ground tap figure "C" connectors
- Accommodates all cable combinations from #6 solid through 500 kcmil
- "C"- shaped opening permits placing two continuous parallel cables into conductor groove
- UL 467 Listed
- Acceptable for direct burial in earth or concrete
- Prefilled with PENETROX™ compound and strip sealed
- Certain sizes are also UL 467 Listed and CSA Certified for wire to ground rod

Anixter No.	Vendor No.	Commercial Copper Cable Range/ Ground Rod to Copper Cable		Stranded Copper Cable Range		Die Index No.
		Run	Tap	Run	Tap	
YGHC2C2	YGHC2C2	#6 Sol. (0.162) #2 Str. (0.292) 1/4" Rod	#6 Sol. (0.162) #2 Str. (0.292)	10 mm² (4.12 mm) 35 mm² (7.62 mm)	10 mm² (4.12 mm) 35 mm² (7.62 mm)	C
YGHC26C2	YGHC26C2	1 Str. (0.328) 2/0 Str. (0.419) 3/8" Rod	#6 Sol. (0.162) #2 Str. (0.292)	35 mm² (7.62 mm) 70 mm² (10.9 mm)	10 mm² (4.12 mm) 35 mm² (7.62 mm)	0
YGHC26C26	YGHC26C26	1 Str. (0.328) 2/0 Str. (0.419) 3/8" Rod	1 Str. (0.328) 2/0 Str. (0.419)	35 mm² (7.62 mm) 70 mm² (10.9 mm)	35 mm² (7.62 mm) 70 mm² (10.9 mm)	0
YGHC29C26	YGHC29C26	3/0 Str. (0.470) 250 kcmil (0.575) 1/2" or 5/8" Rod	6 Sol. (0.162) 2/0 Str. (0.419)	95 mm² (12.5 mm) 120 mm² (14.4 mm)	10 mm² (4.12 mm) 70 mm² (10.9 mm)	997
YGHC29C29	YGHC29C29	3/0 Str. (0.470) 250 kcmil (0.575) 1/2" or 5/8" Rod	3/0 Str. (0.470) 250 kcmil (0.575)	95 mm² (12.5 mm) 120 mm² (14.4 mm)	95 mm² (12.5 mm) 120 mm² (14.4 mm)	997
YGHC34C26	YGHC34C26	300 kcmil (0.630) 500 kcmil (0.813) 3/4" Rod	#6 Sol. (0.162) 2/0 Str. (0.419)	150 mm² (16 mm) 240 mm² (20.35 mm)	10 mm² (4.12 mm) 70 mm² (10.9 mm)	1011
YGHC34C29	YGHC34C29	300 kcmil (0.630) 500 kcmil (0.813)	3/0 Str. (0.470) 250 kcmil (0.575)	150 mm² (16 mm) 240 mm² (20.35 mm)	95 mm² (12.5 mm) 120 mm² (14.4 mm)	1011
YGHC34C34	YGHC34C34	300 kcmil (0.630) 500 kcmil (0.813)	300 kcmil (0.630) 500 kcmil (0.813)	150 mm² (16 mm) 240 mm² (20.35 mm)	150 mm² (16 mm) 240 mm² (20.35 mm)	1011

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Burndy HYTAP™ Copper Compression Ground Tap Figure 6

APPLICATIONS AND FEATURES
Irreversible compression ground tap figure 6 can be used as a tap connector or as a tap splice connector. Four die sets and eight connectors can accommodate a conductor range from #8 solid through 500 kcmil plus 1/2", 5/8", and 3/4" copper bonded ground rods. UL 467 Listed. Acceptable for direct burial in earth and concrete. Prefilled with PENETROX™ compound and strip sealed.

Anixter No.	Vendor No.	Commercial Copper Cable Range/ Ground Rod to Copper Cable		Cable to Rebar		Die Index No.
		Run	Tap	Run	Tap	
YGHP2C2	YGHP2C2	#6 Sol. (0.162) #2 Str. (0.292)	#6 Sol. (0.162) #2 Str. (0.292)	-	-	0
YGHP29C2	YGHP29C2	1/0 Str. (0.372) 250 kcmil (0.575) 1/2" – 5/8" Rod	#4 Sol. (0.204) #2 Str. (0.292)	#3 Rebar 3/8 through 1/2 #4 Rebar	#2 Str.	997
YGHP29C26	YGHP29C26		1/0 Str. (0.372) 2/0 Str. (0.419)		1/0 Str. – 2/0 Str.	
YGHP29C29	YGHP29C29		3/0 Str. (0.470) 250 kcmil (0.575)		3/0 Str. – 250 kcmil	
YGHP34C26	YGHP34C26	250 kcmil (0.575) 500 kcmil (0.813) 5/8" – 3/4" Rod	1/0 Str. (0.372) 2/0 Str. (0.419)	#5 Rebar 5/8 through 3/4 #6 Rebar	1/0 Str. – 2/0 Str.	998
YGHP34C29	YGHP34C29		3/0 Str. (0.470) 250 kcmil (0.575)		3/0 Str. – 250 kcmil	
YGHP34C34	YGHP34C34	250 kcmil (0.575) 500 kcmil (0.813) 5/8" – 3/4" Rod	350 kcmil (0.681) 500 kcmil (0.843)		350 kcmil – 500 kcmil	1011

Burndy HYTAP™ Copper Compression Ground Tap Figure 8

APPLICATIONS AND FEATURES
High torque strength ground rod connectors. Accommodates a wide range of copper conductors to ground rod. UL467 Listed. Acceptable for direct burial in earth or concrete. Prefilled with PENETROX™ compound and strip sealed.

Anixter No.	Vendor No.	Commercial Copper Cable Range	Nominal Ground Rod Diameter
YGHR26C34	YGHR26C34	#2 Str. (0.292 Dia.) 2/0 Str. (0.419 Dia.)	3/4"
YGHR26C58	YGHR26C58		5/8"
YGHR29C34	YGHR29C34	#4/0 Str. (0.528 Dia.) 250 kcmil (0.575 Dia.)	3/4"

Grounding

Burndy HYLINK™ Copper Compression Splice

APPLICATIONS AND FEATURES
Ideal for 600 volt heavy-duty applications. Also may be used at higher voltages up to 35 kV.

Copper Compression Tin Plated - Std. Barrel, Beveled Entry

Conductor Size	Splice Length	One-Hole Standard Barrel With Window	
AWG/kcmil	in.	Anixter No.	Vendor No.
8	1	YSL8C	YSL8C
6	1.75	YSL6C	YSL6C
4	1.75	YSL4C	YSL4C
2	2	YSL2C	YSL2C
1	2.06	YSL1C	YSL1C
1/0	2.08	YSL25	YSL25
2/0	2.17	YSL26	YSL26
3/0	2.30	YSL27	YSL27
4/0	2.32	YSL28	YSL28
250	2.46	YSL29	YSL29
300	2.47	YSL30	YSL30
350	2.60	YSL31	YSL31
400	2.74	YSL32	YSL32
500	3.15	YSL34	YSL34
750	3.72	YSL39	YSL39

Copper Compression Tin Plated - Long Barrel, Beveled Entry

Conductor Size	Splice Length	One-Hole Standard Barrel With Window	
AWG/kcmil	in.	Anixter No.	Vendor No.
8	1.75	YS8C	YS8C
6	2.38	YS6C	YS6C
4	2.55	YS4C	YS4C
2	2.82	YS2C	YS2C
1	2.06	YS1C	YS1C
1/0	3.06	YS25	YS25
2/0	3.30	YS26	YS26
3/0	3.30	YS27	YS27
4/0	3.57	YS28	YS28
250	3.58	YS29	YS29
300	4.34	YS30	YS30
350	4.35	YS31	YS31
400	4.62	YS32	YS32
500	4.91	YS34	YS34
750	6.38	YS39	YS39

Burndy HYLINK™ Copper Compression Splice

APPLICATIONS AND FEATURES
12-ton "U" dies for use with Y750HSXT and PAT750LI

Anixter No.	Vendor No.	Conductor Size AWG/kcmil
U8CRT	U8CRT	8
U5CRT	U5CRT	6
U4CRT	U4CRT	4
U3CRT	U3CRT	3
U2CRT	U2CRT	2
U1CRT1	U1CRT1	1
U25RT	U25RT	1/0
U26RT	U26RT	2/0
U27RT	U27RT	3/0
U28RT	U28RT	4/0
U29RT	U29RT	250
U30RT	U30RT	300
U31RT	U31RT	350
U32RT	U32RT	400
U34RT	U34RT	500
U38XRT	U38XRT	535 FLEX
U36RT	U36RT	600
U39RT	U39RT	750
U44XRT	U44XRT	777 FLEX

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Compression Tools

Burndy 750 Self Contained HYPRESS™

APPLICATIONS AND FEATURES
Hydraulic hand-operated tool with 12-ton crimp force
Conductor range: #12 to 750 kcmil CU/AL and #4 to 565.5 kcmil ACSR

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Description
Y750HSXT	Y750HSXT	#12 to 750 kcmil CU/AL #4 to 565.5 kcmil ACSR	Self-contained hydraulic hand-operated crimping tool, 12 ton

Burndy Type Y1MRTC HYTOOL™

APPLICATIONS AND FEATURES
Crimps 8 AWG - 1 AWG copper HYDENT terminals, splices and 6 AWG - 6 AWG thin-wall C-Taps.
Type Y1MRTC mechanical full cycle ratchet HYTOOL will accommodate copper compression HYDENT connectors for #8 through #1 CODE conductor and #8 through #2 Class I flexible strand copper conductor. The color-coded die wheel rotates to provide a proper match of the die and color-coded connector.

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Description
Y1MRTC	Y1MRTC	8-1 AWG Class B, 8-2 AWG Class I FLEX, 2 AWG solid and 3 AWG stranded	Type Y1MRTC mechanical full-cycle ratchet HYTOOL

Burndy PATRIOT Battery-powered Hydraulic Crimping Tool

APPLICATIONS AND FEATURES
The BURNDY PATRIOT PAT750-LI lithium-ion tool is approximately 25% faster than the previous models. In addition to faster crimp cycles, the high-performance PAT750-LI has newly designed electronics that are field proven for ultimate reliability and proven to handle the harshest work environments.

Anixter No.	Vendor No.	Description
PAT750LI	PAT750LI	18 Volt Lithium-Ion Battery Actuated Tool Hydraulic Self-Contained 12 Ton Crimping Tool

Compression Tools

Burndy Latch Head, Cu/Al Hydraulic Self-contained Cutter, 18 V Lithium-ion

APPLICATIONS AND FEATURES
Specialized latch head design for interference free closure for mid-span cuts, 180 degree head rotation, ergonomically balanced tool design eases operation and lessens user fatigue, overmolded handle for comfort and improved grip, one-handed operation for advance, retract and hold. Includes two batteries, charger, and polymer carrying case. For copper and aluminum cable only. Do not cut steel, ground rod, rebar or guy wire.

Anixter No.	Vendor No.	Conductor Size	Description
PATCUT245LI	PATCUT245LI	Up to 2.45” O.D.	Latch Head, Cu/Al up to 2.45 in. O.D. Hydraulic self-contained cutter 18V lithium-ion, 6 tons

Panduit CONTOUR CRIMP Controlled Cycle Hand Tool

APPLICATIONS AND FEATURES
Crimps Panduit #8 AWG to #2 AWG noninsulated tubular terminals (S series), #8 AWG to #1 AWG copper lugs and splices, #6 AWG to #4 AWG aluminum lugs and splices and CTAPF copper taps for #14 AWG to #3 AWG. Includes 5-position, color-coded rotating die.

Anixter No.	Vendor No.	Conductor Size AWG	Description
PAN-CT-1700	CT-1700	8-1 AWG	CONTOUR CRIMP controlled cycle hand tool

Panduit Die-type, Battery-powered Hydraulic, 14-ton Crimping Tool

APPLICATIONS AND FEATURES
Die type, lithium-ion powered hydraulic, 14 ton crimping tool; includes two high-capacity lithium-ion 18 V DC rechargeable batteries, battery charger, shoulder strap and tool bag. Develops 14 tons of crimping force, crimps copper compression lugs and splices up to 750 kcmil, up to 78 crimps per battery charge using Panduit 500 kcmil copper lugs and splices

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Description
PAN-CT-2930L	CT-2930L	8 AWG - 750 kcmil	Die-type, battery-powered hydraulic, 14-ton crimping tool

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Mechanical Lugs - Copper

Burndy SCRULUG, Offset Tongue, Nonplated, for Copper Cable

APPLICATIONS AND FEATURES

High-copper alloy terminal with offset tongue for joining a wide range of cable to equipment pads or bar. Easy to install with screwdriver or wrench. Connector is reusable. Plain copper finish.

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Hardware	Stud Hole Size in.
KLU25	KLU25	14 Sol. - 10 Sol.	No. 8 - 32 slotted round machine screw	#6
KLU25TP	KLU25TP	14 Sol. - 10 Sol.	No. 8 - 32 slotted round machine screw	#6
KLU225TP	KLU225TP	2 Str. - 4/0 Str.	7/16 UNF socket set screw	5/16
KLU35	KLU35	14 Sol. - 6 Str.	1/4 UNF slotted set screw	#10
KLU35TP	KLU35TP	14 Sol. - 6 Str.	1/4 UNF slotted set screw	#10
KLU70	KLU70	8 Sol. - 2 Str.	5/16 UNF slotted set screw	1/4
KLU70TP	KLU70TP	8 Sol. - 2 Str.	5/16 UNF slotted set screw	1/4
KLU125	KLU125	2 Str. - 1/0 Str.	3/8 UNF slotted set screw	1/4
KLU125TP	KLU125TP	2 Str. - 1/0 Str.	3/8 UNF slotted set screw	1/4
KLU175	KLU175	4 Str. - 3/0 Str.	3/8 UNF slotted set screw	3/8
KLU175TP	KLU175TP	4 Str. - 3/0 Str.	3/8 UNF slotted set screw	3/8
KLU225	KLU225	2 Str. - 4/0 Str.	7/16 UNF socket set screw	5/16
KLU300	KLU300	1/0 Str. - 300 kcmil	5/8 UNF slotted set screw	3/8
KLU300TP	KLU300TP	1/0 Str. - 300 kcmil	5/8 UNF slotted set screw	3/8
KLU400	KLU400	1/0 Str. - 500 kcmil	5/8 UNF slotted set screw	3/8
KLU400TP	KLU400TP	1/0 Str. - 500 kcmil	5/8 UNF slotted set screw	3/8

NOTE: Suffix “TP” on part number denotes tin plate (example: KLU400TP)

Mechanical Lugs - Copper

Burndy KA-LUG for Copper Cable

APPLICATIONS AND FEATURES
Compact, economical, high-copper alloy terminal for joining a wide range of cable to equipment pad or terminal blocks. For use with copper cable.

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size in.
KA8C	KA8C	14 Sol. - 8 Str.	#10
KA4C	KA4C	14 Sol. - 8 Str.	1/4
KA25	KA25	4 Str. - 1/0 Str.	3/8
KA28	KA28	1 Str. - 4/0 Str.	3/8
KA252TC3B	KA252TC3B	4 Str. - 1/0 Str.	3/8
KA34	KA34	4/0 Str. - 500 Str.	1/2
KA2U	KA2U	14 Str. - 2 Str.	1/4
KA25U	KA25U	14 Str. - 1/0 Str.	1/4
KA26U	KA26U	6 Str. - 2/0 Str.	1/4
KA29U	KA29U	6 Str. - 250 Str.	5/16
KA30U	KA30U	6 Str. - 300 Str.	5/16
KA31U	KA31U	6 Str. - 350 Str.	3/8
KA36U	KA36U	2 Str. - 600 Str.	3/8
KA40U	KA40U	300 Str. - 800 Str.	1/2
KA44U	KA44U	500 Str. - 1000 Str.	1/2
KA6U	KA6U	14 Str. - 6 Str.	1/4

Panduit One-hole, Offset Floating Tongue Lug

APPLICATIONS AND FEATURES
Made from high-strength electrolytic copper to provide premium electrical and mechanical performance.

FOR USE WITH STRANDED COPPER CODE CONDUCTORS

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size in.	Hex Size in.
PAN-CB35-36-CY	CB35-36-CY	14 - 6	3/16	Slot
PAN-CB175-38-QY	CB175-38-QY	4 - 3/0	3/8	5/16

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Mechanical Lugs - Aluminum

Burndy Universal Terminals - One Conductor

APPLICATIONS AND FEATURES

These dual-rated one-conductor lugs are constructed from high-strength aluminum alloy and electro tin-plated to provide low contact resistance. One conductor for aluminum and copper conductors.

Anixter No.	Vendor No.	Figure Number	Conductor Size AWG/kcmil	Stud Hole Size in.
KA6U	KA6U	1	14 Str. - 6 Str.	1/4
KA2U	KA2U	1	14 Str. - 2 Str.	1/4
KA25U	KA25U	1	14 Str. - 1/0 Str.	1/4
KA26U	KA26U	2	6 Str. - 2/0 Str.	1/4
KA29U	KA29U	2	6 Str. - 250	5/16
KA30U	KA30U	2	6 Str. - 300	5/16
KA31U	KA31U	2	6 Str. - 350	3/8
KA34U	KA34U	2	4 Str. - 500	3/8
KA36U	KA36U	2	2 Str. - 600	3/8
KA40U	KA40U	2	300 - 800	1/2
KA44U	KA44U	2	500 - 1000	1/2
KA36U-2N	KA36U-2N	4	2 Str. - 600	1/2
KA40U-2N	KA40U-2N	4	300 - 800	1/2
KKA31U-2N	KKA31U-2N	3	6 Str. - 350	1/2

"N" indicates NEMA standard stud holes.

Mechanical Lugs - Aluminum

Burndy Universal Terminals - Two Conductor

APPLICATIONS AND FEATURES
These dual-rated two-conductor lugs are constructed from high-strength aluminum alloy and electro tin-plated to provide low contact resistance. Two conductor for aluminum and copper conductors.

Anixter No.	Vendor No.	Figure Number	Conductor Size AWG/kcmil	Stud Hole Size in.
K2A25U	K2A25U	1	Two: 14 Str. - 1/0 Str.	1/4
K2A26U	K2A26U	2	Two: 14 Str. - 2/0 Str.	1/4
K2A29U	K2A29U	2	Two: 6 Str. - 250	3/8
K2A31U	K2A31U	2	Two: 4 Str. - 350	1/2
K2A36U	K2A36U	2	Two: 2 Str. - 600	1/2
K2A40U	K2A40U	2	Two: 300 - 800	5/8
K2A44U	K2A44U	2	Two: 500 - 1000	5/8
K2A31U-2N	K2A31U-2N	3	Two: 6 Str. - 350	1/2
K2A36U-2N	K2A36U-2N	3	Two: 2 Str. - 600	1/2
K2A40U-2N	K2A40U-2N	3	Two: 300 - 800	1/2
K2A44U-2N	K2A44U-2N	3	Two: 500 - 1000	1/2

"N" indicates NEMA standard stud holes.

Panduit One-hole, Two-barrel Lugs

APPLICATIONS AND FEATURES
For use with stranded aluminum or copper CODE conductors.

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size in.	Hex Size in.
PAN-LAM2A2/0-14-6Y	LAM2A2/0-14-6Y	14 - 2/0	1/4	Slot
PAN-LAM2A600-12-6Y	LAM2A600-12-6Y	4 - 600	1/2	1/2

ONE-HOLE, SINGLE BARREL LUGS

Anixter No.	Vendor No.	Conductor Size AWG/kcmil	Stud Hole Size in.	Hex Size in.
PAN-LAMA6-14-QY	LAMA6-14-QY	14 - 6	1/4	Slot
PAN-LAMA2-14-QY	LAMA2-14-QY	14 - 2	1/4	Slot
PAN-LAMA2/0-14-QY	LAMA2/0-14-QY	14 - 2/0	1/4	Slot

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Mechanical Splices - Copper

Burndy UNITap ™

APPLICATIONS AND FEATURES

Tap connections and in-line splice/reductions are made quickly and easily with the UNITap ™ line connectors. UL 486B Listed. Dual-rated for any stranded copper or stranded aluminum applications. 600 volts. 90°C.

MULTI-PORT SINGLE-SIDED ENTRY

Anixter No.	Vendor No.	No. of Ports	Conductor Size AWG/kcmil	Length (in.)	Height (in.)	Width (in.)	Hex Size (in.)
BIBS4-3	BIBS4-3	3	14 - 4	1.59	1.25	1.25	1/8
BIBS4-4	BIBS4-4	4	14 - 4	2.03	1.25	1.25	1/8
BIBS4-5	BIBS4-5	5	14 - 4	2.47	1.25	1.25	1/8
BIBS4-6	BIBS4-6	6	14 - 4	2.91	1.25	1.25	1/8
BIBS4-8	BIBS4-8	8	14 - 4	3.78	1.25	1.25	1/8
BIBS2/0-3	BIBS2/0-3	3	14 - 2/0	2.19	1.38	1.31	3/16
BIBS2/0-4	BIBS2/0-4	4	14 - 2/0	2.86	1.38	1.31	3/16
BIBS2/0-5	BIBS2/0-5	5	14 - 2/0	3.53	1.38	1.31	3/16
BIBS2/0-6	BIBS2/0-6	6	14 - 2/0	4.20	1.38	1.31	3/16
BIBS2/0-8	BIBS2/0-8	8	14 - 2/0	5.55	1.38	1.31	3/16
BIBS2/0-10	BIBS2/0-10	10	14 - 2/0	6.89	1.38	1.31	3/16
BIBS2/0-12	BIBS2/0-12	12	14 - 2/0	8.24	1.38	1.31	3/16
BIBS2/0-14	BIBS2/0-14	14	14 - 2/0	9.58	1.38	1.31	3/16
BIBS250-3	BIBS250-3	3	10 - 250	2.97	2.13	2.07	5/16
BIBS250-4	BIBS250-4	4	10 - 250	3.91	2.13	2.07	5/16
BIBS250-5	BIBS250-5	5	10 - 250	4.84	2.13	2.07	5/16
BIBS250-6	BIBS250-6	6	10 - 250	5.78	2.13	2.07	5/16
BIBS250-8	BIBS250-8	8	10 - 250	7.66	2.13	2.07	5/16
BIBS250-10	BIBS250-10	10	10 - 250	9.53	2.13	2.07	5/16
BIBS250-12	BIBS250-12	12	10 - 250	11.41	2.13	2.07	5/16
BIBS250-14	BIBS250-14	14	10 - 250	13.29	2.13	2.07	5/16
BIBS350-3	BIBS350-3	3	10 - 350	3.13	2.50	2.32	5/16
BIBS350-4	BIBS350-4	4	10 - 350	4.04	2.50	2.32	5/16
BIBS350-5	BIBS350-5	5	10 - 350	4.95	2.50	2.32	5/16
BIBS350-6	BIBS350-6	6	10 - 350	5.86	2.50	2.32	5/16
BIBS350-8	BIBS350-8	8	10 - 350	7.68	2.50	2.32	5/16
BIBS350-10	BIBS350-10	10	10 - 350	9.50	2.50	2.32	5/16
BIBS350-12	BIBS350-12	12	10 - 350	11.32	2.50	2.32	5/16
BIBS350-14	BIBS350-14	14	10 - 350	13.14	2.50	2.32	5/16
BIBS600-3	BIBS600-3	3	4 - 600	4.00	2.75	2.38	3/8
BIBS600-4	BIBS600-4	4	4 - 600	5.28	2.75	2.38	3/8
BIBS600-5	BIBS600-5	5	4 - 600	6.56	2.75	2.38	3/8
BIBS600-6	BIBS600-6	6	4 - 600	7.84	2.75	2.38	3/8
BIBS600-8	BIBS600-8	8	4 - 600	10.41	2.75	2.38	3/8
BIBS600-10	BIBS600-10	10	4 - 600	12.97	2.75	2.38	3/8
BIBS600-12	BIBS600-12	12	4 - 600	15.53	2.75	2.38	3/8
BIBS600-14	BIBS600-14	14	4 - 600	18.09	2.75	2.38	3/8
BIBS750-3	BIBS750-3	3	2 - 750	4.25	3.00	2.70	3/8
BIBS750-4	BIBS750-4	4	2 - 750	5.63	3.00	2.70	3/8
BIBS750-6	BIBS750-6	6	2 - 750	8.37	3.00	2.70	3/8
BIBS750-8	BIBS750-8	8	2 - 750	11.13	3.00	2.70	3/8
BIBS750-10	BIBS750-10	10	2 - 750	13.87	3.00	2.70	3/8
BIBS750-12	BIBS750-12	12	2 - 750	16.63	3.00	2.70	3/8
BIBS750-14	BIBS750-14	14	2 - 750	19.37	3.00	2.70	3/8

Mechanical Splices - Copper

Burndy UNITap™ - The Mole™

APPLICATIONS AND FEATURES

Designed specifically for direct-burial applications, the MOLE™ inline splice/reducer is made with a specialized Plastisol material that forms a rugged weathertight connection.

Anixter No.	Vendor No.	No. of Ports	Conductor Size AWG/kcmil	Length in.	Height in.	Width in.	Hex Key (Torque) in.-lb.	Wire Strip Length in.
BISR4-DB	BISR4-DB	2	6 - 4	4.30	1.28	0.80	1/8 (50)	0.875
BISR1-DB	BISR1-DB	2	2 - 1	6.30	1.59	0.93	5/32 (130)	1.094
BISR3/0-DB	BISR3/0-DB	2	1/0 - 3/0	6.25	1.84	0.99	3/16 (220)	1.094
BISR250-DB	BISR250-DB	2	4/0 - 250	6.70	2.03	1.18	5/16 (360)	1.313

BISR-DB = BURNDY inline splice/reducer direct burial

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Mechanical Split Bolts - Copper

Burndy Type KS SERVIT - Split Bolts for Copper, Copperweld

APPLICATIONS AND FEATURES

For copper, copperweld, compact, high-strength, high-copper alloy. SERVIT split-bolt has free-running threads and easy-to-grip wrench flats. Highly resistant to seasonal cracking and corrosion, the SERVIT provides maximum pressure and assures a secure connection on all combinations of run-and-tap conductors. Type KS-3 accommodates three maximum-size conductors.

Anixter No.	Vendor No.	Cross Flat in.	Length in.	Width in.	Conductor Size Range Run AWG/kcmil	Conductor Size Range Tap AWG/kcmil
KS90	KS90	0.50	0.85	0.38	12 Str. - 10 Str.	16 Str.
KS15	KS15	0.50	0.85	0.38	10 Str. - 8 Str.	14 Str.
KS17	KS17	0.63	1.14	0.45	8 Str. - 6 Sol.	14 Str.
KS17-3	KS17-3	0.63	1.14	0.45	8 Str. - 6 Sol.	16 Str.
KS20	KS20	0.69	1.20	0.51	8 Str. - 4 Sol.	14 Str.
KS20-3	KS20-3	0.69	1.20	0.51	8 Str. - 4 Sol.	14 Str.
KS22	KS22	0.75	1.50	0.60	6 Str. - 2 Sol.	14 Str.
KS22-3	KS22-3	0.75	1.50	0.60	6 Str. - 2 Sol.	14 Str.
KS23	KS23	0.82	1.54	0.62	6 Str. - 2 Str.	14 Str.
KS25	KS25	0.94	1.77	0.73	4 Str. - 1/0 Str.	14 Str.
KS26	KS26	1.05	1.94	0.82	2 Str. - 2/0 Str.	14 Str.
KS27	KS27	1.36	1.86	1.17	1 Str. - 3/0 Str.	8 Sol.
KS29	KS29	1.36	2.07	1.17	1 Str. - 250	8 Str.
KS31	KS31	1.70	2.51	1.41	1/0 Str. - 350	1/0 Str.
KS34	KS34	1.82	2.79	1.48	2/0 Str. - 500	2/0 Str.
KS39	KS39	2.31	3.29	1.94	4/0 Str. - 750	4/0 Str.
KS44	KS44	2.56	3.73	2.19	300 - 1000	4/0 Str.

Burndy Type KSU Universal SERVIT for All Combinations of Copper, Aluminum

APPLICATIONS AND FEATURES

For use with stranded aluminum or copper CODE conductors. Tin-plated, high-strength copper alloy SERVIT with spacer. Spacer separates dissimilar conductors and provides long contact length that prevents high pressure point contacts between run-and-tap conductors. Use of PENETROX joint compound recommended with aluminum and ACSR.

Anixter No.	Vendor No.	Cross Flat in.	Length in.	Width in.	Conductor Size Range Run AWG/kcmil	Conductor Size Range Tap AWG/kcmil
KSU17	KSU17	0.62	0.92	0.42	12 Sol. - 6 Sol.	12 Sol. - 6 Sol.
KSU20	KSU20	0.69	1.05	0.48	10 Sol. - 4 Sol.	10 Sol. - 4 Sol.
KSU22	KSU22	0.74	1.25	0.57	10 Sol. - 2 Sol.	10 Sol. - 2 Sol.
KSU23	KSU23	0.81	1.48	0.59	8 Str. - 2 Str.	8 Sol. - 2 Str.
KSU25	KSU25	0.93	1.77	0.70	2 Str. - 1/0 Str.	10 Str. - 1/0 Str.
KSU26	KSU26	1.04	1.93	0.79	1/0 Str. - 2/0 Str.	8 Str. - 2/0 Str.
KSU27	KSU27	1.38	2.34	1.12	1 Str. - 3/0 Str.	8 Sol. - 3/0 Str.
KSU29	KSU29	1.38	2.50	1.14	1 Str. - 250	8 Str. - 250
KSU31	KSU31	1.69	2.88	1.36	4/0 Str. - 350	4 Str. - 350
KSU34	KSU34	2.00	3.12	1.47	400 - 500	2 Str. - 500

Mechanical Split Bolts - Copper

Panduit Copper Split Bolts

APPLICATIONS AND FEATURES

Made from high-strength copper alloy to resist corrosion and provide premium electrical and mechanical performance.
For use with copper CODE conductors.

Anixter No.	Vendor No.	Conductor Size AWG/kcmil Range for Equal Run and Tap	Min. Tap with Max. Run	Cross Flat in.	Length in.	Width in.
PAN-SBC8-C	SBC8-C	12 Sol. - 8 Str.	16 Str.	0.39	0.86	0.55
PAN-SBC6S-C	SBC6S-C	10 Sol. - 6 Sol.	16 Sol.	0.41	0.95	0.62
PAN-SBC4S-C	SBC4S-C	8 Sol. - 4 Sol.	16 Sol.	0.45	0.98	0.69
PAN-SBC2-C	SBC2-C	6 Sol. - 2 Str.	14 Str.	0.59	1.23	0.86
PAN-SBC1/0-L	SBC1/0-L	4 Sol. - 1/0 Str.	14 Sol.	0.75	1.55	0.93
PAN-SBC2/0-Q	SBC2/0-Q	2 Sol. - 2/0 Str.	14 Str.	0.79	1.72	1.05
PAN-SBC3/0-Q	SBC3/0-Q	2 Sol. - 3/0 Str.	12 Sol.	0.95	2.07	1.24
PAN-SBC250-Q	SBC250-Q	1/0 Sol. - 250 kcmil	10 Sol.	1.03	2.09	1.36
PAN-SBC350-1	SBC350-1	4/0 Str. - 350 kcmil	8 Sol.	1.16	1.48	2.42
PAN-SBC500-1	SBC500-1	250 kcmil - 500 kcmil	8 Sol.	1.33	2.83	1.74

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Termination Lubricants

Burndy Oxide-inhibiting Compounds

APPLICATIONS AND FEATURES

PENETROX oxide-inhibiting compounds produce low initial contact resistance, seal put air and moisture, prevent oxidation or corrosion, exhibit superior weathering characteristics, are usable over wide temperature ranges and provide a high-conductivity "gas-tight" joint.

Anixter No.	Vendor No.	Description
PENEQT	PENEQT	1 quart plastic tube - recommended for copper-to-copper applications, grounding and for use on copper conduit threads
PENEB	PENEB	8 oz. squeeze bottle - recommended for copper-to-copper applications, grounding and for use on copper conduit threads
PEN-A13-4	PEN-A13-4	4 oz. squeeze bottle - recommended for aluminum-to-aluminum, aluminum-to-copper applications and aluminum conduit threads
PENA1/2	PENA1/2	1/2 oz. tube - recommended for aluminum-to-aluminum, aluminum-to-copper applications and aluminum conduit threads
PENA4	PENA4	4 oz. squeeze bottle - recommended for aluminum-to-aluminum, aluminum-to-copper applications and aluminum conduit threads
PENA138	PENA138	8 oz. squeeze bottle - recommended for aluminum-to-aluminum, aluminum-to-copper applications and aluminum conduit threads

Wire Basket

Eaton Cooper B-Line Wire Basket Cable Tray and Support and Supplies

APPLICATIONS AND FEATURES

Eaton Cooper B-Line's wire basket cable tray system is designed for cable support in customer premise environments. B-Line's wire basket combines support, strength, lightweight construction, cable fill depth, and unmatched adaptability to site conditions, making wire basket a fast and economical system to install.

STRAIGHT SECTIONS

Anixter No.	Vendor No.	Description
7BL-FT2X12X10	FT2X12X10	2" H x 12" W x 10' L Wire Basket
7BL-FT2X16X10	FT2X16X10	2" H x 16" W x10' L Wire Basket
7BL-FT2X18X10	FT2X18X10	2" H x 18" W x 10' L Wire Basket
7BL-FT2X2X10	FT2X2X10	2"H x 2" W x 10' L Wire Basket
7BL-FT2X24X10	FT2X24X10	2" H x 24" W x 10' L Wire Basket
7BL-FT2X4X10	FT2X4X10	2" H x 4" W x 10' L Wire Basket
7BL-FT2X6X10	FT2X6X10	2" H x 6" W x 10' L Wire Basket
7BL-FT2X8X10	FT2X8X10	2" H x 8" W x 10' L Wire Basket
7BL-FT2X4X10SS	FT2X4X10 SS	2" H x 4" W x 10' L Stainless Steel Wire Basket
7BL-FT2X6X10SS	FT2X6X10 SS	2" H x 6" W x 10' L Stainless Steel Wire Basket
7BL-FT4X12X10	FT4X12X10	4" H x 12" W X 10' L Wire Basket
7BL-FT4X18X10	FT4X18X10	4" H x 18" W X 10' L Wire Basket

SPLICE MATERIALS

Anixter No.	Vendor No.	Description
7BL-WB4CA	WB4CA	Connector Assembly (50 pcs per box)
7BL-SPLICE BAR	SPLICE BAR	Splice Bar
7BL-WB9TB	WB9TB	Tee Bars for Horizontal Splice
7BL-WB-TLC	WB-TLC	Tab-Loc Connector Splice

ACCESSORIES

Anixter No.	Vendor No.	Description
7BL-WB30BC	WB30BC	Angular Bolt (Wire) Cutter
7BL-FTB08CT	FTB08CT	Click Hanger (Center Hanger/Trapeze Hanger) for 12" Basket
7BL-WB46H	WB46H	Wire Basket Hanger
7BL-SUPTWASHER	SUPT WASHER	Washer Square Splice 2"
7BL-GROUND BOLT	GROUND BOLT	Grounding Bolt

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Bolted Framing (Strut Systems)

Eaton Cooper B-Line Bolted Framing (Strut Systems)

APPLICATIONS AND FEATURES

Eaton Cooper B-Line's bolted framing and strut support systems provides an economical solution for virtually any electrical, mechanical or industrial support application. Channel and fittings can be taken apart for reuse as quickly as they were assembled, producing substantial savings in time and labor.

CHANNEL

Anixter No.	Vendor No.	Description
7BL-B22SHGALV10	B22SHGALV10	1 5/8" x 1 5/8" Channel Slotted Hole
7BL-B54SH-120-GLV	B54SH GALV	13/16" Xx1 5/8" Channel Slotted Hole
7BL-B22A-120-GLV	B22A-120 GLV	1 5/8" x 1 5/8" Back to Back

SPRING NUTS

Anixter No.	Vendor No.	Description
7BL-N224-ZN-1/4	N224	1/4-20 Spring Nut for B22 Channel
7BL-N228-ZN3/8	N228	3/8-16 Spring Nuts for B22 Channel
7BL-N524-ZN	N524	1/4-20 Spring Nut for B54 Channel
7BL-N528-ZN	N528	3/8-16 Spring Nut for B54 Channel

FITTINGS

Anixter No.	Vendor No.	Description
7BL-B101-ZN	B101 ZN	Two Hole Corner Angle
7BL-B104-ZN	B104 ZN	Four Hole Corner Angle
7BL-B441-22-ZN	B441-22 ZN	Beam Clamps

PIPE STRAPS

Anixter No.	Vendor No.	Description
7BL-B2207PA-ZN-1/2	B2207	3/8" Multi Grip Pipe Clamp for Rigid and EMT Conduit
7BL-B2208PA-ZN-1/2	B2208	1/2" Multi Grip Pipe Clamp for Rigid and EMT Conduit
7BL-B2209PA-ZN-3/4	B2209	3/4" Multi Grip Pipe Clamp for Rigid and EMT Conduit
7BL-B2210PA-ZN-1	B2210	1" Multi Grip Pipe Clamp for Rigid and EMT Conduit
7BL-B2211PA-ZN-1-1/4	B2211	1 1/4" Multi Grip Pipe Clamp for Rigid and EMT Conduit
7BL-B2212PA-ZN-1-1/2	B2212	1 1/2" Multi Grip Pipe Clamp for Rigid and EMT Conduit
7BL-B2213PA-ZN-2	B2213	2" Multi Grip Pipe Clamp for Rigid and EMT Conduit
7BL-B2014PA-ZN-2-1/2	B2014	2 1/2" Pipe Clamp for Rigid Conduit
7BL-B2015PA-ZN-3-RGD	B2015	3" Pipe Clamp for Rigid Conduit
7BL-B2016PA-ZN-3-1/2	B2016	3 1/2" Pipe Clamp for Rigid Conduit
7BL-B2017PA-ZN-4-RGD	B2017	4" Pipe Clamp for Rigid Conduit

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Bolted Framing (Strut Systems)

Eaton Cooper B-Line Bolted Framing (Strut Systems) (continued)

CONDUIT STRUT CLAMP WITH SADDLE

Anixter No.	Vendor No.	Description
7BL-B1508S	B1508S	1/2" EMT one PC pipe clamp
7BL-B1512S	B1512S	3/4" EMT, 1/2" one PC pipe clamp
7BL-B1516S	B1516S	1" EMT, 3/4" rigid PC pipe clamp
7BL-B1520S	B1520S	1 1/4" EMT, 1" rigid one PC pipe clamp
7BL-B1524S	B1524S	1 1/2" EMT, 1 1/4" rigid one PC pipe clamp

FASTENERS

Anixter No.	Vendor No.	Description
7BL-BB10L	BB10	Single-outlet base bracket
7BL-BB10P	BB10P	Single-outlet base bracket nonmetallic
7BL-BB10L	BB10L	Single-outlet base bracket with screws
7BL-BB20	BB20	Dual-outlet base bracket
7BL-BC1	BC1	Beam clamp up to 1/2" beam flange
7BL-BC442	BC442	Beam clamp heavy duty up to 5/8" beam flange
7BL-BCH12	BCH12	3/4" cable hook
7BL-BCH12-C1	BCH12-C1	3/4" cable hook with beam clamp
7BL-BCH12-C2	BCH12-C2	3/4" cable hook with beam clamp and bracket
7BL-BCH12-U-2-4	BCH12-U-2-4	3/4" cable hook with universal beam fastener
7BL-BCH21	BCH21	1 5/16" cable hook
7BL-BCH21-C1	BCH21-C1	1 5/16" cable hook with beam clamp
7BL-BCH21-C2	BCH21-C2	1 5/16" cable hook with beam clamp and bracket
7BL-BCH21-7-2-4	BCH21-u-2-4	1 5/16" cable hook with universal beam fastener
7BL-BCH32	BCH32	2" cable hook
7BL-BCH32-C1	BCH32-C1	2" cable hook with beam clamp
7BL-BCH32-C2	BCH32-C2	2" cable hook with beam clamp and bracket
7BL-BCH32-C442-A	BCH32-C442-A	2" cable hook with heavy-duty beam clamp
7BL-BCH32PNA	BCH32PNA	2" cable hook with drive pin fastener
7BL-BCH32-U-2-4	BCH32-U-2-4	2" cable hook with universal beam fastener
7BL-BCH64	BCH64	4" cable hook

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Cable Tray

Eaton Cooper B-Line Ladder Tray

APPLICATIONS AND FEATURES

Two-sided cable tray that supports power and low-voltage cabling systems over short, medium and long spans. Cable trays are manufactured in a variety of materials and finishes which enable them to be used in both indoor and outdoor applications. Unique I-beam design provides maximum side rail and rung strength while "Wedge-Lock" splice plates reduce installation costs. Smooth radius bends protect cables bending radius.

STRAIGHT SECTIONS

Anixter No.	Vendor No.	Description
7BL-24A09-12-144	24A-09-12-144	4 in. H x 12 in. W x 12 ft. L, aluminum cable tray, 9 in. rung spacing
7BL-36A09-12-144	36A-09-12-144	6 in. H x 12 in. W x 12 ft. L, aluminum cable tray, 9 in. rung spacing
7BL-46A09-24-240	46A-09-24-240	6 in. H x 24 in. W x 20 ft. L, aluminum cable tray, 9 in. rung spacing

BENDS

Anixter No.	Vendor No.	Description
7BL-4A-12-HT12	4A-12-HT12	4 in. H x 12 in. W, horizontal tee, 12 in. radius
7BL-4A-12-90HB12	4A-12-90HB12	4 in. H x 12 in. W, 90° horizontal bend, 12 in. radius
7BL-6A-24-HT12	6A-24-HT12	6 in. H x 24 in. W, horizontal tee, 12 in. radius
7BL-6A-24-90HB24	6A-24-90HB24	6 in. H x 24 in. W, 90° horizontal bend, 24 in. radius
7BL-4A-12-90VO12	4A-12-90VO12	4 in. H x 12 in. W, 90° vertical outside bend, 12 in. radius
7BL-4A-12-90VI12	4A-12-90VI12	4 in. H x 12 in. W, 90° vertical inside bend, 12 in. radius
7BL-6A-12-90VO24	6A-12-90VO24	6 in. H x 12 in. W, 90° vertical outside bend, 24 in. radius
7BL-6A-24-90VO24	6A-24-90VO24	4 in. H x 24 in. W, 90° vertical outside bend, 24 in. radius

SPLICES

Anixter No.	Vendor No.	Description
7BL-9A-1004	9A-1004	4 in. H standard splice
7BL-9A-1006	9A-1006	6 in. H standard splice
7BL-9A-1024	9A-1024	4 in. H vertical adjustable splice
7BL-9A-1026	9A-1026	6 in. H vertical adjustable splice
7BL-9A-1014	9A-1014	4 in. H expansion splice
7BL-9A-1016	9A-1016	6 in. H expansion splice

SUPPORT AND SUPPLIES

Anixter No.	Vendor No.	Description
7BL-99-1620	99-1620	2,000 amp bonding jumper
7BL-99-40	99-40	1,600 amp bonding jumper
7BL-9A-1104-12	9A-1104-12	12 in. W drop-out
7BL-9A-1104-24	9A-1104-24	24 in. W drop-out
7BL-9P-5512-22SH	9P-5512-22SH	12 in. W trapeze support kit
7BL-5524-22SH	9P-5524-22SH	24 in. W trapeze support kit

Cable Tray

Eaton Cooper B-Line KwikSplice™ Cable Tray

APPLICATIONS

The KwikSplice™ system is a lightweight, yet durable cable management system that is rated for NEMA 12A and 12B load classes. The system is ideal for commercial, light-industrial, data center, healthcare, education and government cable management applications.

FEATURES

- Lightweight aluminum construction
- Patent pending I-beam splice retention groove to secure splice connection
- Splice maintains structural integrity and electrical grounding
- Rated for NEMA 12A and NEMA 12B (CSA class C-3m and D-3m) load classes
- Full line of labor-saving support and supplies and fittings
- Standardized 1/4" hardware

STRAIGHT SECTIONS

Anixter No.	Vendor No.	Description
7BL-KSA4A12-06-120	KSA4A12-06-120	4 in. H x 6 in. W x 12 ft. L, aluminum cable tray, 12 in. rung spacing
7BL-KSA4A12-12-120	KSA4A12-12-120	4 in. H x 12 in. W x 12 ft. L, aluminum cable tray, 12 in. rung spacing
7BL-KSA4A12-24-120	KSA4A12-24-120	4 in. H x 24 in. W x 12 ft. L, aluminum cable tray, 12 in. rung spacing

HORIZONTAL BENDS

Anixter No.	Vendor No.	Description
7BL-KS4A09-06-90HB12	KS4A09-06-90HB12	4 in. H x 6 in. W, 90° horizontal bend, 12 in. radius
7BL-KS4A09-12-90HB12	KS4A09-12-90HB12	4 in. H x 12 in. W, 90° horizontal bend, 12 in. radius
7BL-KS4A09-24-90HB12	KS4A09-24-90HB12	4 in. H x 24 in. W, 90° horizontal bend, 12 in. radius

VERTICAL INSIDE BENDS

Anixter No.	Vendor No.	Description
7BL-KS4A09-06-90VI12	KS4A09-06-90VI12	4 in. H x 6 in. W, 90° vertical inside bend, 12 in. radius
7BL-KS4A09-06-90VO12	KS4A09-06-90VO12	4 in. H x 6 in. W, 90° vertical outside bend, 12 in. radius
7BL-KS4A09-12-90VI12	KS4A09-12-90VI12	4 in. H x 12 in. W, 90° vertical inside bend, 12 in. radius
7BL-KS4A09-12-90VO12	KS4A09-12-90VO12	4 in. H x 12 in. W, 90° vertical outside bend, 12 in. radius
7BL-KS4A09-24-90VI12	KS4A09-24-90VI12	4 in. H x 24 in. W, 90° vertical inside bend, 12 in. radius
7BL-KS4A09-24-90VO12	KS4A09-24-90VO12	4 in. H x 24 in. W, 90° vertical outside bend, 12 in. radius

HORIZONTAL TEES

Anixter No.	Vendor No.	Description
7BL-KS4A09-06-HT12	KS4A09-06-HT12	4 in. H x 6 in. W, horizontal tee, 12 in. radius
7BL-KS4A09-12-HT12	KS4A09-12-HT12	4 in. H x 12 in. W, horizontal tee, 12 in. radius
7BL-KS4A09-24-HT12	KS4A09-24-HT12	4 in. H x 24 in. W, horizontal tee, 12 in. radius

EXPANSION SPLICE PLATES

Anixter No.	Vendor No.	Description
7BL-KS4A-SSP	KS4A-SSP	KS4A series standard splice plates
7BL-KS4A-ESP	KS4A-ESP	KS4A series expansion splice plates

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Panduit PAN-TY Cable Ties - Nylon 6.6

APPLICATIONS AND FEATURES
- One-piece construction, low thread force
- For 1,000 packs, replace vendor "-C" with "-M" (PLT1M-M)
- Suffix "0" denotes weather-resistant nylon 6.6

MINIATURE CROSS SECTION

Anixter No.	Vendor No.	Max. Bundle Diameter in.	Length in.	Colour	Std. Pkg.
PAN-PLT1M-C	PLT1M-C	0.87	3.9	Natural	100
PAN-PLT1M-C0	PLT1M-C0	0.87	3.9	Black	100
PAN-PLT1M-M	PLT1M-M	0.87	3.9	Natural	1,000
PAN-PLT1M-M0	PLT1M-M0	0.87	3.9	Black	1,000
PAN-PLT1.5M-C	PLT1.5M-C	1.25	5.6	Natural	100
PAN-PLT1.5M-C0	PLT1.5M-C0	1.25	5.6	Black	100
PAN-PLT1.5M-M	PLT1.5M-M	1.25	5.6	Natural	1,000
PAN-PLT1.5M-M0	PLT1.5M-M0	1.25	5.6	Black	1,000
PAN-PLT2M-C	PLT2M-C	2.00	8.0	Natural	100
PAN-PLT2M-C0	PLT2M-C0	2.00	8.0	Black	100
PAN-PLT2M-M	PLT2M-M	2.00	8.0	Natural	1,000
PAN-PLT2M-M0	PLT2M-M0	2.00	8.0	Black	1,000

INTERMEDIATE CROSS SECTION

Anixter No.	Vendor No.	Max Bundle Diameter in.	Length in.	Colour	Std. Pkg.
PAN-PLT1.5I-C	PLT1.5I-C	1.38	5.6	Natural	100
PAN-PLT1.5I-M	PLT1.5I-M	1.38	5.6	Natural	100
PAN-PLT1.5I-C0	PLT1.5I-C0	1.38	5.6	Black	100
PAN-PLT1.5I-M0	PLT1.5I-M0	1.38	5.6	Black	100
PAN-PLT2I-C	PLT2I-C	2.0	8.0	Natural	100
PAN-PLT2I-M	PLT2I-M	2.0	8.0	Natural	1000
PAN-PLT2I-C0	PLT2I-C0	2.0	8.0	Black	100
PAN-PLT2I-M0	PLT2I-M0	2.0	8.0	Black	1000
PAN-PLT2I-C14	PLT2I-C14	2.0	8.0	Grey	100
PAN-PLT3I-C	PLT3I-C	3.0	11.4	Natural	100
PAN-PLT3I-C0	PLT3I-C0	3.0	11.4	Black	100
PAN-PLT3I-C14	PLT3I-C14	3.0	11.4	Grey	100
PAN-PLT3I-M	PLT3I-M	3.0	11.4	Natural	1,000
PAN-PLT3I-M0	PLT3I-M0	3.0	11.4	Black	1,000
PAN-PLT4I-C	PLT4I-C	4.00	14.5	Natural	100
PAN-PLT4I-C0	PLT4I-C0	4.00	14.5	Black	100
PAN-PLT4I-C14	PLT4I-C14	4.00	14.5	Grey	100
PAN-PLT4I-M	PLT4I-M	4.00	14.5	Natural	1,000
PAN-PLT4I-M0	PLT4I-M0	4.00	14.5	Black	1,000

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Cable Ties

Panduit PAN-TY Cable Ties - Nylon 6.6 (continued)

LIGHT-HEAVY CROSS SECTION

Anixter No.	Vendor No.	Max. Bundle Diameter in.	Length in.	Colour	Std. Pkg.
PAN-PLT3H-L	PLT3H-L	3.0	11.4	Natural	50
PAN-PLT4H-L	PLT4H-L	4.0	14.5	Natural	50
PAN-PLT4H-L0	PLT4H-L0	4.0	14.5	Black	50
PAN-PLT6LH-L	PLT6LH-L	6.0	21.9	Natural	50
PAN-PLT6LH-L0	PLT6LH-L0	6.0	21.9	Black	50
PAN-PLT9LH-L	PLT9LH-L	9.0	30.5	Natural	50

CABLE TIE MOUNTS

Anixter No.	Vendor No.	Max. Static Load lb.	Length in.	Colour	Std. Pkg.	Use With Cable Tie
PAN-ABMM-A-C	ABMM-A-C	30	0.75	White	100	M, I
PAN-ABMM-A-D	ABMM-A-D	30	0.75	White	500	M, I
PAN-ABM2S-A-C	ABM2S-A-C	50	1	White	100	M, I, S
PAN-ABM2S-A-D	ABM2S-A-D	50	1	White	500	M, I, S
PAN-ABM100-A-C	ABM100-A-C	50	1	White	100	M, I, S
PAN-ABM2S-AT-C	ABM2S-AT-C	50	1	White	100	M, I, S

CABLE TIE INSTALLATION TOOLS

Anixter No.	Vendor No.	Max Static Load lbs.
PAN-GTS	GTS	Subminiature Cross Section Miniature Cross Section Intermediate Cross Section Standard Cross Section
PAN-GTH	GTH	Standard Cross Section Heavy-Standard Cross Section Light-Heavy Cross Section HeavyCross Section

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Electrical Tape

3M Scotch Electrical Tapes

SCOTCH ALL-WEATHER ELECTRICAL TAPE

Anixter No.	Vendor No.	Description	Colour
009616	33+ SUPER	3/4" x 66 ft. roll	Black
021906	88T .75X36	3/4" x 36 ft. roll	Black
009618	88T 3.4X60	3/4" x 60 ft. roll	Black
024323	88T 1X36	1" x 36 ft. roll	Black
009638	88T	1-1/2" x 44 ft. roll	Black

COLOURFLEX - COLOUR CODING VINYL TAPE

Anixter No.	Vendor No.	Description	Colour
3M-COLOURFLEX-BLACK	COLOURFLEX BLK	3/4" Wide x 60 ft. Long	Black
3M-COLOURFLEX-BLUE	COLOURFLEX-BLUE	3/4" Wide x 60 ft. Long	Blue
3M-COLOURFLEX-BROWN	COLOURFLEX-BR	3/4" Wide x 60 ft. Long	Brown
3M-COLOURFLEX-GRAY	COLOURFLEX-GRAY	3/4" Wide x 60 ft. Long	Gray
3M-COLOURFLEX-GREEN	COLOURFLEX-GRN	3/4" Wide x 60 ft. Long	Green
3M-COLOURFLEX-ORANGE	COLOURFLEX-OR	3/4" Wide x 60 ft. Long	Orange
3M-COLOURFLEX-RED	COLOURFLEX-RED	3/4" Wide x 60 ft. Long	Red
3M-COLOURFLEX-WHITE	COLOURFLEX-WHT	3/4" Wide x 60 ft. Long	White
3M-COLOURFLEX-YELLOW	COLOURFLEX-YEL	3/4" Wide x 60 ft. Long	Yellow

SCOTCH 35 VINYL PLASTIC ELECTRICAL TAPE FOR COLOUR CODING

Anixter No.	Vendor No.	Description	Colour
009592	35 GN66	3/4" Wide x 66 ft. Long	Green
009593	35 BL66	3/4" Wide x 66 ft. Long	Blue
009594	35 OR66	3/4" Wide x 66 ft. Long	Orange
009595	35	3/4" Wide x 66 ft. Long	Violet
009596	35 BR66	3/4" Wide x 66 ft. Long	Brown
009597	35 YL66	3/4" Wide x 66 ft. Long	Yellow
009598	35 RD66	3/4" Wide x 66 ft. Long	Red
009599	35 WH66	3/4" Wide x 66 ft. Long	White
009600	35 GY66	3/4" Wide x 66 ft. Long	Gray

SCOTCH 35 VINYL PLASTIC ELECTRICAL TAPE FOR COLOUR CODING

Anixter No.	Vendor No.	Description	Colour
009579	35	1/2" Wide x 20 ft. Long	Blue
009583	35 GY20	1/2" Wide x 20 ft. Long	Gray
009585	35	1/2" Wide x 20 ft. Long	Green
078459	35 RD20	1/2" Wide x 20 ft. Long	Red
078461	35 Wh20	1/2" Wide x 20 ft. Long	White
078462	35 YL20	1/2" Wide x 20 ft. Long	Yellow

SCOTCH 130C LINERLESS RUBBER SPLICING TAPE

Anixter No.	Vendor No.	Description	Colour
420731	130C-3/4X30FT	3/4" Wide x 30 ft. Long	Black
178013	130C-2X30FT	2" Wide x 30 ft. Long	Black

Firestop

3M Firestop Moldable Putty+

FEATURES
A re-enterable firestop for all types of cable and conduit penetrations. Comes in pad form for electrical box outlet protection. Remains pliable and flexible after it is installed. No tools required. Age-tested and UL Classified.

Anixter No.	Vendor No.	Description
174609	MP+	1.5 in. x 12 in. putty stick
125441	MPP+4X8	4 in. x 8 in. pad
270020	MPP+7X7	7 in. x 7 in. putty pad
309232	MPP+9.5X9.5	9.5 in. X 9.5 in. putty pad

3M Fire Barrier Pillows

FEATURES
The 3M Fire Barrier Pillow is a self-contained, highly intumescent product designed to firestop a wide variety of through-penetrations including cable trays, (up to two per opening), conduit and blank openings, which penetrate fire-rated construction. During a fire, a 3M Fire Barrier Pillow intumesces (expands) and locks itself into place completely surrounding the penetrants, stopping smoke, fire and toxic gases from spreading to the next room or next floor for the rated time period.
3M Fire Barrier Pillows are also available in self-locking models for increased ease of use and ability to lock them in place for larger openings. They offer an abrasion-resistant surface for enhanced reuse. The self-locking models are identified with the SL suffix.

STANDARD PILLOWS

Anixter No.	Vendor No.	Description
247363	FB249	2 in. x 4 in. x 9 in.
247364	FB269	2 in. x 6 in. x 9 in.
247365	FB369	3 in. x 6 in. x 9 in.

SELF-LOCKING PILLOWS

Anixter No.	Vendor No.	Description
282601	FB249-SL	2 in. x 4 in. x 9 in. - self locking
282602	FB269-SL	2 in. x 6 in. x 9 in. - self locking
282603	FB369-SL	3 in. x 6 in. x 9 in. - self locking

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Specified Technologies EZ-Path Firestop

APPLICATIONS AND FEATURES

For new or existing cable applications, EZ-Path is the easy-to-install solution for penetrating fire-rated walls and floors. This low-leakage device remains fire and leakage safe whether empty or 100 percent visually filled. Cables can be added or changed without the need to remove and reinstall firestopping materials. The compact square design (available in two sizes) provides greater cable loading than a conventional sleeve. EZ-Path devices can be installed using available single-, double-, triple-, four- and seven-gang mounting plates for additional capacity, segregation of cables and cable management. EZ-Path installations offer UL Classified floor and wall systems for up to four hours. The device is safety orange and comes with wall labels for easy identification. From installation (empty) to 100 percent visual fill, it continuously remains firestopped and compliant.

EZ-PATH DEVICES

Anixter No.	Vendor No.	Description
269611	EZDP33FWS	EZ-Path Series 33 fire-rated device kit - includes one device (3 in. x 3 in. x 10.5 in.), one pair (2) single square wall plates and labels
272522	EZD33FWS	EZ-Path Series 33 fire-rated device. Device (3 in. x 3 in. x 10.5 in.) and labels only. Does not include wall plates
269459	EZDP33WR	EZ-Path Series 33 fire-rated device retrofit kit - includes one device (3 in. x 3 in. x 10.5 in.), one pair (2) retrofit wall plates and labels
280114	EZD22	EZ-Path Series 22 fire-rated device kit - includes one series 22 device (1.5 in. x 1.5 in. x 10.5 in.), one pair (2) wall plates and labels
301389	EZDP133FK	EZ-Path Series 33 fire-rated device kit with single kick-in plate. For floor installations. Fits 4 in. core holes with no fasteners required
301390	EZDP233GK	EZ-Path Series 33 two-gang fire-rated device kit - includes two EZ-Path Series 33 fire-rated devices, one pair (2) double wall plates and labels
301393	EZDP333GK	EZ-Path Series 33 three-gang fire-rated device kit - includes three EZ-Path Series 33 fire-rated devices, one pair (2) triple wall plates and labels
301396	EZDP433GK	EZ-Path Series 33 four-gang fire-rated device kit - includes four EZ-Path Series 33 fire-rated devices, one pair (2) four-gang wall plates and labels
301400	EZDP133CAK	EZ-Path Series 33 conduit attachment fire-rated device kit - includes one EZ-Path fire-rated device, one pair (2) conduit attachment plates and labels
301398	EZDP733GK	EZ-Path Series 33 seven-gang fire-rated device kit - includes seven EZ-Path fire-rated devices, one pair (2) seven-gang mounting plates and labels
301403	EZDP133CWK	EZ-Path Series 33 fire-rated device, kit with one pair (2) circular wall plates and labels

EZ-PATH SUPPORT AND SUPPLIES

Anixter No.	Vendor No.	Description
305967	EZD33EE	EZ-Path Series 33 extension module 6 in.
261823	EZP133W	EZ-Path Series 33 single wall plates, one pair (2)
261824	EZP233W	EZ-Path Series 33 double wall plates and labels, one pair (2)
261825	EZP333W	EZ-Path Series 33 triple wall plates and labels, one pair (2)
261826	EZP133PC	EZ-Path Series 33 positioning clamps, one pair (2). For use in new/existing cable installations using sealant
280116	EZP433W	EZ-Path Series 33 four-gang mounting wall plates and labels, one pair (2)
280117	EZP733W	EZ-Path Series 33 seven-gang mounting wall plates and labels, one pair (2)
280118	EZP133K	EZ-Path Series 33 single kick-in plate (1). For use with floor applications
280119	EZP133R	EZ-Path Series 33 retrofit mounting wall plates, one pair (2)
280120	RCM33	EZ-Path Series 33 radius control modules, one pair (2)
301405	EZP133CA	EZ-Path Series 33 conduit attachment plates, one pair (2)
301406	EZP133CW	EZ-Path Series 33 circular wall plates, one pair (2)

Firestop

Specified Technologies SSP Series Intumescent Firestop Putty

FEATURES
- Nonhardening for a tough, flexible seal
- Two-stage intumescence provides aggressive expansion
- Endothermic fillers absorb heat and release water
- Highly adhesive, stays put
- Allows movement
- Water-resistant. Unaffected by humidity, condensation and water
- Soft and pliable. Easy to install
- Sound deadening. Tested and proven acoustical properties
- UL Classified and FM approved

Anixter No.	Vendor No.	Description
264618	SSP100	36 cu. in. (0.6 L) tube of putty
264619	SSP4S	Putty pad; 7.25 in. x 7.25 in. x 3/16 in.
280121	SSP28	24 cu. in. putty round bar
264620	SSP9S	Putty pad; 9 in. x 9 in. x 3/16 in.
301260	EP44	Electrical box insert; 3 3/4 in. x 3 3/4 in. x 1/8 in. pad

Specified Technologies SSB Series Intumescent Firestop Pillow

FEATURES
- Intumescent: expands in all directions for a tough, tight seal
- Reinstallable for easy retrofitting of cables
- Single-side application makes installation easy for tough access openings
- Intumescent coating on all sides for faster expansion and easier installation
- Heat-sealed poly cover protects core and makes pillows slide in and out with ease
- Superior air leakage ratings
- Broad base of tested systems
- UL Classified and FM approved

Anixter No.	Vendor No.	Description
264621	SSB14	1 in. x 4 in. x 9 in. firestop pillow
264622	SSB24	2 in. x 4 in. x 9 in. firestop pillow
264623	SSB26	2 in. x 6 in. x 9 in. firestop pillow
264624	SSB36	3 in. x 6 in. x 9 in. firestop pillow

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Wrap/Sealant

3M CS-195+ Fire Barrier Composite Sheet

FEATURES

An intumescent sheet which is ideal for all types of telecommunications applications. It expands up to ten times its original size to form a seal against smoke, fire and water. The sheet is cut to fit and fastened to the substrate using common trade tools. UL Classified. Documented aging properties to ensure the product performs and lasts as long as the structure. The composite sheet is also available in various sizes. Please contact your local sales respresentative for more information.

Anixter No.	Vendor No.	Description
167253	CS-195+/BX36x24	36 in. x 24 in. size
218398	CS-195+/BX36x36	36 in. x 36 in. size
309235	CS-195+/BX16x28	16 in. x 28 in. size
309236	CS-195+/BX36X41	36 in. x 41 in. size

3M FS-195+ Wrap/Strip

FEATURES

One part intumescent and elastomeris strip which can be cut to fit irregular shapes. Used to seal and firestop inner duct and cable bundle penetrations. Documented aging properties to ensure the product performs and lasts as long as the structure. UL Classified.

Anixter No.	Vendor No.	Description
167252	FS-195+	Fire barrier 2 in. x 24 in. wrap/strip - resistive strip cut to fit firestop

Wrap/Sealant

Specified Technologies Ready Sleeve Firestop Sleeve

FEATURES
- Economical - significant material and labor savings vs. field fabrication
- Ready to install "out of the box" firestop sleeve kit - kit comes complete with no additional parts required
- No external firestop seal required - factory supplied intumescent firestop gasket
- UL Classified and code compliant
- For rated and non-rated barriers
- Available in three sizes - 1 in., 2 in. and 4 in.

Anixter No.	Vendor No.	Description
305968	FS100	1 in. firestop sleeve kit: includes one 1 in. (25 mm) sleeve, two standard-size escutcheon plates, two firestop gaskets, firestop putty and labels
305969	FS200	2 in. firestop sleeve kit: includes one 2 in. (51 mm) sleeve, two standard-size escutcheon plates, two firestop gaskets, firestop putty and labels
305970	FS400	4 in. firestop sleeve kit: includes one 4 in. (102 mm) sleeve, two standard-size escutcheon plates, two firestop gaskets, firestop putty and labels

Specified Technologies SSS Series Intumescent Firestop Sealant

FEATURES
- Water-based for easy installation, cleanup and disposal
- Two-stage intumescence features extremely fast and directionalized expansion
- Remains flexible
- Sandable and paintable when dry
- Water-resistant. Will not re-emulsify when dry
- Red for easy identification and inspection
- Excellent smoke seal
- Low VOCs. No solvents
- Over 250 UL Classified systems and FM approved

Anixter No.	Vendor No.	Description
264609	SSS100	10.1 oz. tube (300 ml) 18.2 cu. in.
264610	SSS129	29 oz. tube (858 ml) 52 cu.in.
264612	SSS102	2 gallon pail (7.6 L) 462 cu. in.
264611	SSS120	20 oz. sausage (592 ml) 36 cu. in.
264613	SSS105	5 gallon pail (19 L) 1,155 cu. in.

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Fiber Optic Cable

Fiber Optic Cable – Product Selection Guide

Core	Fiber Count	Use	Colour	Construction	Level 1	Level 2	Level 3
62.5 0M1	2	Riser	Orange	Loose Tube	L1-02-FLT-0M1-08	L2-02-FLT-0M1-08	---
		Riser	Orange	Tight Buffer	---	L2-02-FTB-0M1-08	L3-02-FTB-0M1-08
		Plenum	Orange	Loose Tube	L1-02-FLT-0M1-08P	---	---
62.5 0M1	6	Riser	Orange	Loose Tube	L1-06-FLT-0M1-08	L2-06-FLT-0M1-08	---
		Riser	Orange	Tight Buffer	---	L2-06-FTB-0M1-08	L3-06-FTB-0M1-08
		Plenum	Orange	Loose Tube	L1-06-FLT-0M1-08P	---	---
62.5 0M1	12	Riser	Orange	Loose Tube	L1-12-FLT-0M1-08	L2-12-FLT-0M1-08	---
		Riser	Orange	Tight Buffer	---	L2-12-FTB-0M1-08	---
		Plenum	Orange	Loose Tube	L1-12-FLT-0M1-08P	---	---
62.5 0M1	24	Riser	Orange	Loose Tube	L1-24-FLT-0M1-08	L2-24-FLT-0M1-08	---
		Riser	Orange	Tight Buffer	---	L2-24-FTB-0M1-08	---
		Plenum	Orange	Loose Tube	L1-24-FLT-0M1-08P	---	---
50 0M3	2	Riser	Aqua	Loose Tube	L1-02-FLT-0M3-16	L2-02-FLT-0M3-16	---
		Riser	Aqua	Tight Buffer	---	L2-02-FTB-0M3-16	L3-02-FTB-0M3-16
		Plenum	Aqua	Loose Tube	L1-02-FLT-0M3-16P	---	---
50 0M3	6	Riser	Aqua	Loose Tube	L1-06-FLT-0M3-16	L2-06-FLT-0M3-16	---
		Riser	Aqua	Tight Buffer	---	L2-06-FTB-0M3-16	L3-06-FTB-0M3-16
		Plenum	Aqua	Loose Tube	L1-06-FLT-0M3-16P	---	---
50 0M3	12	Riser	Aqua	Loose Tube	L1-12-FLT-0M3-16	L2-12-FLT-0M3-16	---
		Riser	Aqua	Tight Buffer	---	L2-12-FTB-0M3-16	---
		Plenum	Aqua	Loose Tube	L1-12-FLT-0M3-16P	---	---
50 0M3	24	Riser	Aqua	Loose Tube	L1-24-FLT-0M3-16	L2-24-FLT-0M3-16	---
		Riser	Aqua	Tight Buffer	---	L2-24-FTB-0M3-16	---
		Plenum	Aqua	Loose Tube	L1-24-FLT-0M3-16P	---	---
9 0S1	2	Riser	Yellow	Loose Tube	L1-02-FLT-0S1-05	L2-02-FLT-0S1-05	---
		Riser	Yellow	Tight Buffer	---	L2-02-FTB-0S1-05	L3-02-FTB-0S1-05
		Plenum	Yellow	Loose Tube	L1-02-FLT-0S1-05P	---	---
9 0S1	6	Riser	Yellow	Loose Tube	L1-06-FLT-0S1-05	L2-06-FLT-0S1-05	---
		Riser	Yellow	Tight Buffer	---	L2-06-FTB-0S1-05	L3-06-FTB-0S1-05
		Plenum	Yellow	Loose Tube	L1-06-FLT-0S1-05P	---	---
9 0S1	12	Riser	Yellow	Loose Tube	L1-12-FLT-0S1-05	L2-12-FLT-0S1-05	---
		Riser	Yellow	Tight Buffer	---	L2-12-FTB-0S1-05	---
		Plenum	Yellow	Loose Tube	L1-12-FLT-0S1-05P	---	---
9 0S1	24	Riser	Yellow	Loose Tube	L1-24-FLT-0S1-05	L2-24-FLT-0S1-05	---
		Riser	Yellow	Tight Buffer	---	L2-24-FTB-0S1-05	---
		Plenum	Yellow	Loose Tube	L1-24-FLT-0S1-05P	---	---

Levels
Industrial Environments

Anixter's Levels for Industrial Environments uses technology and environment requirements to simplify product choices and deliver performance, scalability and reliability for mission-critical systems.

LEVEL 1

A controlled area located inside an industrial facility where cabling components are secured from physical damage and protected from harsh or industrial environments.

LEVEL 2

Located inside an industrial facility where cabling and components are subjected to more extreme ambient temperatures, humidity and potential damage.

LEVEL 3

Located in a harsh industrial area where cabling and components are exposed to oil, solvents, cleaning agents, lubricants, water, wide varying temperatures, humidity and dust.

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Technical Information

15

Section 15 Technical Information

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Conductors

Conductors
The conductor is the metallic component of cables through which electrical power or electrical signals are transmitted. Conductor size is usually specified by American Wire Gauge (AWG), circular mil area or in square millimeters.

AWG
The American Wire Gauge (sometimes called Brown and Sharpe or B. and S.) is used almost exclusively in the USA for copper and aluminum wire. The Birmingham Wire Gauge (BWG) is used for steel armour wire.

Circular Mil
Sizes larger than 4/0 are specified in terms of the total area of a cross-section of the copper in circular mils (cmil). A circular mil is a unit of area equal to the area of a circle one mil in diameter. It is $\pi/4$ (equal to 0.7854) of a square mil (one mil = 0.001 inch). The area of a circle in circular mils is therefore equal to the square of its diameter in mils. A solid wire one inch in diameter has an area of 1,000,000 cmils, whereas one square inch equals $4/\pi$ x 1,000,000 cmils (equal to 1,273,200 cmils).

Square Millimeters
Metric sizes are given in terms of square millimeters (mm^2).

Conductor Characteristics
Relative electrical and thermal conductivities of common metal conductors are as follows:

Relative Electrical and Thermal Conductivities of Common Conductor Materials

Metal	Relative Electrical Conductivity at 20°C	Relative Thermal Conductivity at 20°C
Silver	106	108
Copper (annealed)	100	100
Copper (hard drawn)	97	-
Gold	72	76
Aluminum	62	56
Magnesium	39	41
Zinc	29	29
Nickel	25	15
Cadmium	23	24
Cobalt	18	17
Iron	17	17
Platinum	16	18
Tin	15	17
Steel	12	13-17
Lead	8	9

Additional electrical properties can be found in Section 7 of the Anixter Wire and Cable Technical Handbook.

Conductors

STRAND TYPES

Concentric Strand

A concentric stranded conductor consists of a central wire or core surrounded by one or more layers of helically laid wires. Each layer after the first has six more wires than the preceding layer. Except in compact stranding, each layer is usually applied in a direction opposite to that of the layer under it.

If the core is a single wire and if it and all of the outer strands have the same diameter, the first layer will contain six wires; the second, twelve; the third, eighteen; etc.

Figure 1 - Concentric Strand

Bunch Strand

The term bunch stranding is applied to a collection of strands twisted together in the same direction without regard to the geometric arrangement.

Figure 2 - Bunch Strand

Rope Strand

A rope stranded conductor is a concentric stranded conductor each of whose component strands is itself stranded. A rope stranded conductor is described by giving the number of groups laid together to form the rope and the number of wires in each group.

Figure 3 - Rope Strand

Sector Conductor

A sector conductor is a stranded conductor whose cross-section is approximately the shape of a sector of a circle. A multiple conductor insulated cable with sector conductors has a smaller diameter than the corresponding cable with round conductors.

Figure 4 - Sector Conductor

Segmental Conductor

A segmental conductor is a round, stranded conductor composed of three or four sectors slightly insulated from one another. This construction has the advantage of lower AC resistance due to increased surface area and skin effect.

Figure 5 - Segmental Conductor

Annular Conductor

An annular conductor is a round, stranded conductor whose strands are laid around a suitable core. The core is usually made wholly or mostly of nonconducting material. This construction has the advantage of lower total AC resistance for a given cross-sectional area of conducting material due to the skin effect.

Figure 6 - Annular Conductor

Compact Strand

A compact stranded conductor is a round or sector conductor having all layers stranded in the same direction and rolled to a predetermined ideal shape. The finished conductor is smooth on the surface and contains practically no interstices or air spaces. This results in a smaller diameter.

Figure 7 - Compact Strand

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Conductors

Compressed Strand

Compressed conductors are intermediate in size between standard concentric conductors and compact conductors. A comparison is shown below:

In a concentric stranded conductor, each individual wire is round and considerable space exists between wires. In a compressed conductor, the conductor has been put through a die that "squeezes out" some of the space between wires. In a compact conductor each wire is preformed into a trapezoidal shape before the wires are stranded together into a finished conductor. This results in even less space between wires. A compact conductor is, therefore, the smallest in diameter (except for a solid conductor, of course). Diameters for common conductor sizes are given in the table below.

Diameters for Copper and Aluminum Conductors

Conductor Size		Nominal Diameters (in.)			
AWG	kcmil	Solid	Class B Compact	Class B Compressed	Class B Concentric
8	16.51	0.1285	0.134	0.141	0.146
6	26.24	0.162	0.169	0.178	0.184
4	41.74	0.2043	0.213	0.225	0.232
3	52.62	0.2294	0.238	0.252	0.26
2	66.36	0.2576	0.268	0.283	0.292
1	83.69	0.2893	0.299	0.322	0.332
1/0	105.6	0.3249	0.336	0.361	0.373
2/0	133.1	0.3648	0.376	0.406	0.419
3/0	167.8	0.4096	0.423	0.456	0.470
4/0	211.6	0.4600	0.475	0.512	0.528
–	250	0.5000	0.520	0.558	0.575
–	300	0.5477	0.570	0.611	0.63
–	350	0.5916	0.616	0.661	0.681
–	400	0.6325	0.659	0.706	0.728
–	450	0.6708	0.700	0.749	0.772
–	500	0.7071	0.736	0.789	0.813
–	550	0.7416	0.775	0.829	0.855
–	600	0.7746	0.813	0.866	0.893
–	650	0.8062	0.845	0.901	0.929
–	700	0.8367	0.877	0.935	0.964
–	750	0.866	0.908	0.968	0.998
–	800	0.8944	0.938	1.000	1.031
–	900	0.9487	0.999	1.061	1.093
–	1000	1.000	1.06	1.117	1.152

Sources: ASTM B8 and B496
ICEA S-95-658 (NEMA WC-70)

Insulation and Jacket Materials

Conductors need to be electrically isolated from other conductors and from the environment to prevent short circuits and for safety. Insulation is applied around a conductor to provide this isolation. Most wire and cable insulations consist of polymers (plastics), which have a high resistance to the flow of electric current. A jacket is the outermost layer of a cable whose primary function is to protect the insulation and conductor core from external physical forces and chemical deterioration.

THERMOPLASTICS

Chlorinated Polyethylene (CPE)
CPE is one of the few polymers available in both thermoplastic and thermoset (cross-linked) versions. As a rule, thermoset formulations have better high-temperature properties than thermoplastics but are also higher in cost. Thermoplastic CPE is more common than thermoset CPE.

Polyvinyl Chloride (PVC)
Sometimes referred to simply as "vinyl," PVC does not usually exhibit extremely high- and low-temperature properties in one formulation. Certain formulations may have a –55°C to 105°C rating, while other common vinyls may have a –20°C to 60°C rating. The many varieties of PVC also differ in pliability and electrical properties. The price range can vary accordingly. Typical dielectric constant values range from 3.5 to 6.5.
When properly formulated, thermoplastic jackets of PVC provide cables with the ability to resist oils, acids, alkalies, sunlight, heat, weathering and abrasion. This range of properties makes PVC a suitable outer covering for such cable types as underground feeders (Type UF), control, aerial, street lighting and cables for direct burial.
PVC is frequently used as an impervious jacket over and/or under metal armour where the installation requires PVC's protective characteristics. Flamarrest is a plenum-grade, PVC-based jacketing material with low smoke and low flame spread properties.

Fluoropolymers
Fluoropolymers, with the exception of PTFE Teflon, are extrudable thermoplastics used in a variety of low-voltage insulating situations. Fluoropolymers contain fluorine in their molecular composition, which contributes to their excellent thermal, chemical, mechanical and electrical characteristics. The most commonly used fluoropolymers are Teflon (PTFE, FEP and PFA), Tefzel (ETFE), Halar (ECTFE) and Kynar or Solef (PVDF).
Teflon has excellent electrical properties, temperature range and chemical resistance. It is not suitable where subjected to nuclear radiation and does not have good high-voltage characteristics. FEP Teflon is extrudable in a manner similar to PVC and polyethylene. This means that long wire and cable lengths are available. PTFE Teflon is only extrudable in a hydraulic ram type process. Lengths are limited due to the amount of material in the ram, the thickness of the insulation and the preform size. PTFE must be extruded over a silver- or nickel-coated wire. The nickel- and silver-coated designs are rated 260°C and 200°C maximum, respectively. The cost of Teflon is approximately 8 to 10 times more per pound than PVC compounds.
Teflon PTFE is the original Teflon resin invented by DuPont in 1938. It is an opaque, white material, although some forms are translucent in thin sections. It does not melt in the usual sense. To coat wire for insulating purposes, Teflon PTFE is extruded around the conductor as a paste, then sintered. Conductors can also be wrapped with tape of Teflon PTFE. Maximum continuous service temperature of Teflon PTFE is 260°C (500°F).

- Nonflammability
- Extremely high insulation resistance
- Very low dielectric constant
- Small size compared to elastomer insulated wires
- Excellent lubricity for easier installation
- Chemical inertness

Teflon FEP was also invented by DuPont and became commercially available in 1960. It has a glossy surface and is transparent in thin sections. Teflon FEP is a true thermoplastic. Wire insulated with Teflon FEP can be melt extruded by conventional methods. Maximum continuous service temperature is 400°F (205°C). Teflon FEP is an excellent nonflammable jacketing material for multiconductor cables.

Specific advantages of wire insulated with Teflon FEP include:

- High current-carrying ability (ampacity)
- Easy colour coding
- Very low moisture absorption
- Nonflammability
- Smallest diameter of any high-temperature wire

Teflon PFA is a perfluoroalkoxy copolymer resin supplied by DuPont. Wire insulated with PFA is rated up to 250°C (482°F) and has excellent high-temperature creep resistance, low-temperature toughness and flame resistance.
Tefzel (ETFE) is commonly used in computer backplane wiring and has the highest abrasion and cut-through resistance of any fluoropolymer. Tefzel is a thermoplastic material having excellent electrical properties, heat resistance, chemical resistance, toughness, radiation resistance and flame resistance. Tefzel's temperature rating is –65°C to 150°C.
Halar (ECTFE) is similar to Tefzel and is also used in wirewrap applications, but because it is less expensive than Tefzel, it is often used as insulation on multipair plenum telephone cables. It has a maximum operating temperature of 125°C (UL). Halar has excellent chemical resistance, electrical properties, thermal characteristics and impact resistance. Halar's temperature rating is –70°C to 150°C.
Kynar (PVDF) is one of the least expensive fluoropolymers and is frequently used as a jacketing material on plenum cables. Because of its high dielectric constant, however, it tends to be a poor insulator. PVDF has a temperature maximum of 135°C (UL).

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Insulation and Jacket Materials

Polyolefins (PO)
Polyolefin is the name given to a family of polymers. The most common polyolefins used in wire and cable include polyethylene (PE), polypropylene (PP) and ethylene vinyl acetate (EVA).

Polyethylene (PE)
Polyethylene has excellent electrical properties. It has a low dielectric constant, a stable dielectric constant over a wide frequency range, and very high insulation resistance. However, polyethylene is stiff and very hard, depending on molecular weight and density. Low density PE (LDPE) is the most flexible, with high-density, high-molecular weight formulations being least flexible. Moisture resistance is excellent. Properly formulated PE has excellent weather resistance. The dielectric constant is 2.3 for solid and 1.6 for cellular (foamed) insulation. Flame retardant formulations are available, but they tend to have poorer electrical properties.

Polypropylene (PP)
Similar in electrical properties to polyethylene, this material is primarily used as an insulation material. Typically, it is harder than polyethylene. This makes it suitable for thin wall insulations. The UL maximum temperature rating may be 60°C or 80°C, but most UL styles call for 60°C maximum. The dielectric constant is typically 2.25 for solid and 1.55 for cellular designs.

Thermoplastic Elastomer (TPE)
TPE, sometimes called TPR (thermoplastic rubber), has excellent cold-temperature characteristics, making it an excellent insulating and jacketing compound in cold climates. It is resistant to aging from sunlight, oxidation and atmospheric ozone. It retains most of its physical and electrical properties in the face of many severe environmental conditions such as a salt water environment. TPE compounds can be rated as high as 125°C (257°F).
TPE has good chemical resistance to all substances except hydrocarbons. It has a tendency to swell in a hydrocarbon environment, causing the material to degrade. It has good abrasion resistance. It will resist wear, cutting and impact. These properties make TPE jackets an excellent choice for use in control cables that are dragged around or frequently moved.
TPE compounds are used as insulating materials up to a 600-volt rating. The most common cables using TPE insulation are portable control cables such as SEO and SJEO.

Polyurethane (PUR)
Polyurethane is used primarily as a cable jacket material. It has excellent oxidation, oil and ozone resistance. Some formulations also have good flame resistance. It has excellent abrasion resistance. It has outstanding "memory" properties, making it an ideal jacket material for retractile cords.

THERMOSETS

Chlorinated Polyethylene (CPE)
Cross-linked chlorinated polyethylene is a material with outstanding physical and electrical properties for many cable jacket applications. It is highly resistant to cold flow (compression set) and other forms of external loading as well as heat, light and chemical attack. CPE is also often supplied in a thermoplastic (non-cross-linked) version.
CPE compares favorably with most other synthetic elastomers currently used for cable jacketing. It is resistant to ozone and ultraviolet (sunlight) degradation. Properly compounded, CPE will withstand prolonged immersion in water. It will not support combustion, but under the right conditions of excessive heat, oxygen supply and flame source, it will burn slowly. Removal of the ignition source will extinguish the flame. CPE jacketed cables pass the IEEE 1202, UL, CSA and ICEA flame tests.
CPE maintains its flexibility at –18°C (0°F) and does not become brittle unless temperatures are below –40°C (–40°F). Its low temperature impact resistance is excellent. CPE jackets are suited to 105°C (221°F) and intermittently to higher temperatures. They will maintain adequate flexibility after repeated aging at elevated temperatures. They are known for abrasion resistance and long life in mining cable applications. CPE does not support the growth of mold, mildew or fungus.
CPE is resistant to most strong acids and bases and many solvents except for chlorinated organics. It is particularly well-suited to chemical plant use where both above ground (ultraviolet and flame retardancy) and below ground (water and chemical resistance) properties are desired. CPE's resistance to oils and fuels is good. CPE can be conveniently coloured over a wide range and will maintain colour upon aging.

Neoprene (CP)
Neoprene is a vulcanized synthetic rubber also referred to as chloroprene. It provides a resilient jacket that resists permanent deformation under heat and load, and does not embrittle at low temperatures. It is highly resistant to aging from sunlight and oxidation, and is virtually immune to atmospheric ozone.
Samples of neoprene-jacketed cable, tested outdoors under constant exposure for 40 years, have remained tough, resilient, uncracked and completely serviceable. Neoprene jackets are "flame resistant," i.e., not combustible without directly applied heat and flame. Neoprene will burn slowly as long as an outside source of flame is applied, but is self-extinguishing as soon as the flame is removed. Neoprene-jacketed power cable can be flexed without damage to the jacket at –40°C (–40°F) and will pass a mandrel wrap test down to about –45°C (–49°F). Neoprene jackets resist degradation for prolonged periods at temperatures up to 121°C (250°F). Satisfactory performance at even higher temperatures is possible if the exposures are brief or intermittent.
Neoprene jackets have excellent resistance to soil acids and alkalies. Mildew, fungus and other biological agents do not deteriorate properly compounded neoprene. These jackets perform well in many chemical plants. They are tough, strong, resilient and have excellent resistance to abrasive wear, impact, crushing and chipping. Because of these properties, neoprene is the jacketing material frequently used for mine trailing cables and dredge cables.

Insulation and Jacket Materials

Cross-linked Polyethylene (XLP or XLPE)
Cross-linked polyethylene is a frequently used polymer in wire and cable. It is most often used as the insulation of 600 volt building wire (e.g., Type XHHW), as the insulation in 5 to 69 kV and higher rated power cables and as the insulation in many control cables.
XLP has very high insulation resistance (IR), high dielectric strength and low dielectric constant (2.3). It also is a very tough material at temperatures below 100°C, so it is resistant to cutting, impact and other mechanical forces. Its low-temperature performance is also very good: down to –40°C and below.
XLP's fire resistance, however, is poor unless flame retardants are added. XLP is lower in cost than EPR.

Ethylene Propylene Rubber (EP, EPR or EPDM)
Ethylene propylene rubber is a common synthetic rubber polymer used as an insulation in electrical wire and cable. EPR is used as the insulation in 600 volt through 69 kV power cables, as an integral insulation/jacket on welding cables and as an insulation in many cords, portable mining cables and control/instrumentation cables.
Because of its rubber-like characteristics, EPR is used in many highly flexible cables. Its dielectric strength is good but not as high as that of PE or XLP. Dielectric constant ranges from 2.8 to 3.2 depending on the specific EPR formulation. EPR is abrasion resistant and is suitable for use at temperatures down to –60°C. It is fairly flame retardant and can be made even more flame retardant by careful formulation. Flame retardant versions are often referred to as "FREP" or "flame retardant EP." EPR's high-temperature characteristics are very good. Some formulations can withstand continuous temperatures as high as 150°C.

CSPE
Chlorosulfonated polyethylene is a thermosetting, cross-linked material with many excellent physical and electrical properties. It is inherently resistant to cold flow (compression set) resulting from clamping pressures and other forms of external loading; it is immune to attack by ozone; and it is highly resistant to aging from sunlight and oxidation. Water absorption of properly compounded CSPE cable sheathing is extremely low.
CSPE sheathing will not support combustion. It will burn slowly as long as an outside source of flame is applied but is self-extinguishing as soon as the flame is removed. It remains flexible at –18°C (0°F) and will not become brittle at –40°C (–40°F). CSPE jacketed constructions pass both the Underwriters Laboratories' vertical flame test and the U.S. Bureau of Mines' flame test for mining cable.
At high temperatures, CSPE will perform satisfactorily after short-term exposure at up to 148°C (300°F) – even higher if compounded for maximum heat resistance. It is well-known for its resistance to chemicals, oils, greases and fuels. It is particularly useful as a cable sheathing in plant processing areas, where airborne chemicals attack ordinary jacketing materials and metal conduit.
CSPE surpasses most elastomers in resistance to abrasion. It is highly resistant to attack by hydrocarbon oils and fuels. It is especially useful in contact with oils at elevated temperatures. Sheathing of CSPE provides high resistance to impact, crushing and chipping. CSPE's electrical properties make it appropriate as insulation for low-voltage applications (up to 600 volts) and as jacketing for any type of wire and cable.
CSPE was formerly sold by DuPont under the trade name "Hypalon". DuPont has since discontinued Hypalon manufacturing. To replace Hypalon after all existing supply is exhausted, cable manufacturers are either changing jackets to a "performance-based" equivalent thermoset material like thermoset chlorinated polyethylene (TS-CPE) or searching for other global sources for CSPE resin.

SILICONE
Silicone is a soft, rubbery insulation that has a temperature range from –80°C to 200°C. It has excellent electrical properties plus ozone resistance, low moisture absorption, weather resistance, and radiation resistance. It typically has low mechanical strength and poor scuff resistance.

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FIBROUS COVERINGS

Fibrous coverings are commonly used on high-temperature cables due to their excellent heat resistance. They are normally constructed of a textile braid (e.g., fiberglass or K-fiber) impregnated with a flame and heat-resistant finish.
K-fiber insulating materials are a blend of polyaramid, polyamid, phenolic-based and fiberglass fibers. They are available as roving and yarn for insulating applications and as rope for use as fillers. They provide a non-asbestos, abrasion-, moisture-, flame- and temperature-resistant, non-melting insulating material for all applications requiring a 250°C (482°F) temperature rating, which would have previously utilized asbestos.

ADDITIONAL INFORMATION

Additional information on the selection of cable jackets is available in IEEE 532 "Guide for Selecting and Testing Jackets for Power, Instrumentation and Control Cables."

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Insulation and Jacket Materials

THERMOPLASTIC PROPERTIES

Properties of Thermoplastic Insulation and Jacket Materials	PVC	Low-Density Polyethylene	Cellular Polyethylene	High-Density Polyethylene	Polypropylene
Oxidation resistance	E	E	E	E	E
Heat resistance	G-E	G	G	E	E
Oil resistance	F	G-E	G	G-E	F
Low-temperature flexibility	P-G	E	E	E	P
Weather, sun resistance	G-E	E	E	E	E
Ozone resistance	E	E	E	E	E
Abrasion resistance	F-G	G	F	E	F-G
Electrical properties	F-G	E	E	E	E
Flame resistance	E	P	P	P	P
Nuclear radiation resistance	F	G-E	G	G-E	F
Water resistance	F-G	E	E	E	E
Acid resistance	G-E	G-E	G-E	E	E
Alkali resistance	G-E	G-E	G-E	E	E
Gasoline, kerosene, etc. (aliphatic hydrocarbons) resistance	P	G-E	G	G-E	P-F
Benzol, toluol, etc. (aromatic hydrocarbons) resistance	P-F	P	P	P	P-F
Degreaser solvents (halogenated hydrocarbons) resistance	P-F	G	G	G	P
Alcohol resistance	G-E	E	E	E	E
Underground burial	P-G	G	F	E	E

Properties of Thermoplastic Insulation and Jacket Materials	Cellular Polypropylene	Polyurethane	Nylon	CPE	Plenum PVC
Oxidation resistance	E	E	E	E	E
Heat resistance	E	G	E	E	G-E
Oil resistance	F	E	E	E	F
Low-temperature flexibility	P	G	G	E	P-G
Weather, sun resistance	E	G	E	E	G
Ozone resistance	E	E	E	E	E
Abrasion resistance	F-G	O	E	E-O	F-G
Electrical properties	E	P	P	E	G
Flame resistance	P	P	P	E	E
Nuclear radiation resistance	F	F	G	F-G	O
Water resistance	E	P-G	P-F	O	F
Acid resistance	E	F	P-E	E	G
Alkali resistance	E	F	E	E	G
Gasoline, kerosene, etc. (aliphatic hydrocarbons) resistance	P	P-G	G	E	P
Benzol, toluol, etc. (aromatic hydrocarbons) resistance	P	P-G	G	G-E	P-F
Degreaser solvents (halogenated hydrocarbons) resistance	P	P-G	G	E	P-F
Alcohol resistance	E	P-G	P	E	G
Underground burial	F	G	P	E-O	P

P = Poor, F = Fair, G = Good, E = Excellent, O = Outstanding
These ratings are based on average performance of general purpose compounds. Any given property can usually be improved by the use of selective compounding.

Source: Belden

Continued on next page. > >

Insulation and Jacket Materials

THERMOPLASTIC PROPERTIES (CONTINUED)

Properties of Thermoplastic Insulation and Jacket Materials					
	FEP	Tefzel (ETFE)	PTFE (TFE) Teflon	Solef/Kynar (PVDF)/PVF	Halar (ECTFE)
Oxidation resistance	0	E	0	0	0
Heat resistance	0	E	0	0	0
Oil resistance	0	0	E	E-0	E
Low-temperature flexibility	0	E	0	0	0
Weather, sun resistance	0	E	0	E-0	0
Ozone resistance	E	E	0	E	E
Abrasion resistance	E	E	0	E	E
Electrical properties	E	E	E	G-E	E
Flame resistance	0	G	E	E	E-0
Nuclear radiation resistance	P-G	E	P	E	E
Water resistance	E	E	E	E	E
Acid resistance	E	E	E	G-E	E
Alkali resistance	E	E	E	E	E
Gasoline, kerosene, etc. (aliphatic hydrocarbons) resistance	E	E	E	E	E
Benzol, toluol, etc. (aromatic hydrocarbons) resistance	E	E	E	G-E	E
Degreaser solvents (halogenated hydrocarbons) resistance	E	E	E	G	E
Alcohol resistance	E	E	E	E	E
Underground burial	E	E	E	E	E

THERMOSET PROPERTIES

Properties of Thermoset Insulation and Jacket Materials						
	Neoprene	Chlorosulfonated Polyethylene (CSPE)	EPR (Ethylene Propylene Rubber)	XLPE	CPE	Silicone Rubber
Oxidation resistance	G	E	E	E	E	E
Heat resistance	G	E	E	G	E	0
Oil resistance	G	G	P	G	G-E	F-G
Low-temperature flexibility	F-G	F	G-E	0	F	0
Weather, sun resistance	G	E	E	G	E	0
Ozone resistance	G	E	E	G	G-E	0
Abrasion resistance	G-E	G	G	F-G	G-E	P
Electrical properties	P	G	E	E	F-G	G
Flame resistance	G	G	P	P	G	F-G
Nuclear radiation resistance	F-G	E	G	E	G	E
Water resistance	E	E	G-E	G-E	G-E	G-E
Acid resistance	G	E	G-E	G-E	E	F-G
Alkali resistance	G	E	G-E	G-E	E	F-G
Gasoline, kerosene, etc. (aliphatic hydrocarbons) resistance	G	F	P	F	F	P-F
Benzol, toluol, etc. (aromatic hydrocarbons) resistance	P-F	F	F	F	F	P
Degreaser solvents (halogenated hydrocarbons) resistance	P	P-F	P	F	P	P-G
Alcohol resistance	F	G	P	E	G-E	G
Underground burial	G-E	E	E	E	E	G

P = Poor, F = Fair, G = Good, E = Excellent, 0 = Outstanding
These ratings are based on average performance of general purpose compounds. Any given property can usually be improved by the use of selective compounding.

Source: Belden

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Insulation and Jacket Materials

Belden Electronic Colour Code

Belden Colour Code Chart No. 1

Cond. No.	Colour
1	Black
2	White
3	Red
4	Green
5	Brown
6	Blue
7	Orange
8	Yellow
9	Purple
10	Gray
11	Pink
12	Tan

Belden Colour Code Chart No. 2 and 2R - ICEA (Insulated Cable Engineers Association) Standard*

Cond. No.	Colour	Cond. No.	Colour	Cond. No.	Colour	Cond. No.	Colour
1	Black	13	Red/White Stripe	25	Green/Black/White	37	White/Red/Blue
2	White	14	Green/White Stripe	26	Orange/Black/White	38	Black/White/Green
3	Red	15	Blue/White Stripe	27	Blue/Black/White	39	White/Black/Green
4	Green	16	Black/Red Stripe	28	Black/Red/Green	40	Red/White/Green
5	Orange	17	White/Red Stripe	29	White/Red/Green	41	Green/White/Blue
6	Blue	18	Orange/Red Stripe	30	Red/Black/Green	42	Orange/Red/Green
7	White/Black Stripe	19	Blue/Red Stripe	31	Green/Black/Orange	43	Blue/Red/Green
8	Red/Black Stripe	20	Red/Green Stripe	32	Orange/Black/Green	44	Black/White/Blue
9	Green/Black Stripe	21	Orange/Green Stripe	33	Blue/White/Orange	45	White/Black/Blue
10	Orange/Black Stripe	22	Black/White/Red	34	Black/White/Orange	46	Red/White/Blue
11	Blue/Black Stripe	23	White/Black/Red	35	White/Red/Orange	47	Green/Orange/Red
12	Black/White Stripe	24	Red/Black/White	36	Orange/White/Blue	48	Orange/Red/Blue
						49	Blue/Orange/Red
						50	Black/Orange/Red

Notes: *2 = Spiral Stripe; 2R = Ring Band Striping; 18 AWG conductors in 8446 through 8449 are Black and White

Belden Colour Code Chart No. 3

Pair No.	Colour Combination	Pair No.	Colour Combination	Pair No.	Colour Combination	Pair No.	Colour Combination
1	Black & Red	10	Red & Blue	19	White & Blue	28	Orange & Yellow
2	Black & White	11	Red & Yellow	20	White & Yellow	29	Purple & Orange
3	Black & Green	12	Red & Brown	21	White & Brown	30	Purple & Red
4	Black & Blue	13	Red & Orange	22	White & Orange	31	Purple & White
5	Black & Yellow	14	Green & White	23	Blue & Yellow	32	Purple & Green
6	Black & Brown	15	Green & Blue	24	Blue & Brown	33	Purple & Blue
7	Black & Orange	16	Green & Yellow	25	Blue & Orange	34	Purple & Yellow
8	Red & White	17	Green & Brown	26	Brown & Yellow	35	Purple & Brown
9	Red & Green	18	Green & Orange	27	Brown & Orange	36	Purple & Black
						37	Gray & White

Belden Colour Code Chart No. 4

Pair No.	Colour Combination	Pair No.	Colour Combination	Pair No.	Colour Combination	Pair No.	Colour Combination	Pair No.	Colour Combination
1	White & Blue	6	Red & Blue	11	Black & Blue	16	Yellow & Blue	21	Purple & Blue
2	White & Orange	7	Red & Orange	12	Black & Orange	17	Yellow & Orange	22	Purple & Orange
3	White & Green	8	Red & Green	13	Black & Green	18	Yellow & Green	23	Purple & Green
4	White & Brown	9	Red & Brown	14	Black & Brown	19	Yellow & Brown	24	Purple & Brown
5	White & Gray	10	Red & Gray	15	Black & Gray	20	Yellow & Gray	25	Purple & Gray

Continued on next page. > >

Insulation and Jacket Materials

Belden Colour Code Chart No. 5									
Pair No.	Colour Combination	Pair No.	Colour Combination	Pair No.	Colour Combination	Pair No.	Colour Combination	Pair No.	Colour Combination
1	White/Blue Stripe & Blue/White Stripe	6	Red/Blue Stripe & Blue/Red Stripe	11	Black/Blue Stripe & Blue/Black Stripe	16	Yellow/Blue Stripe & Blue/Yellow Stripe	21	Purple/Blue Stripe & Blue/Purple Stripe
2	White/Orange Stripe & Orange/White Stripe	7	Red/Orange Stripe & Orange/Red Stripe	12	Black/Orange Stripe & Orange/Black Stripe	17	Yellow/Orange Stripe & Orange/Yellow Stripe	22	Purple/Orange Stripe & Orange/Purple Stripe
3	White/Green Stripe & Green/White Stripe	8	Red/Green Stripe & Green/Red Stripe	13	Black/Green Stripe & Green/Black Stripe	18	Yellow/Green Stripe & Green/Yellow Stripe	23	Purple/Green Stripe & Green/Purple Stripe
4	White/Brown Stripe & Brown/White Stripe	9	Red/Brown Stripe & Brown/Red Stripe	14	Black/Brown Stripe & Brown/Black Stripe	19	Yellow/Brown Stripe & Brown/Yellow Stripe	24	Purple/Brown Stripe & Brown/Purple Stripe
5	White/Gray Stripe & Gray/White Stripe	10	Red/Gray Stripe & Gray/Red Stripe	15	Black/Gray Stripe & Gray/Black Stripe	20	Yellow/Gray Stripe & Gray/Yellow Stripe	25	Purple/Gray Stripe & Gray/Purple

Belden Colour Code Chart No. 6			
Position No.	Colour	Position No.	Colour
1	Brown	13	White/Orange
2	Red	14	White/Yellow
3	Orange	15	White/Green
4	Yellow	16	White/Blue
5	Green	17	White/Purple
6	Blue	18	White/Gray
7	Purple	19	White/Black/Brown
8	Gray	20	White/Black/Red
9	White	21	White/Black/Orange
10	White/Black	22	White/Black/Yellow
11	White/Brown	23	White/Brown/Green
12	White/Red	24	White/Black/Blue

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Insulation and Jacket Materials

Belden Colour Code Chart No. 7 For Snake Cables							
Pair No.	Colour Combination	Pair No.	Colour Combination	Pair No.	Colour Combination	Pair No.	Colour Combination
1	Brown	16	Gray/Yellow Stripe	31	Blue/Purple Stripe	46	Lime/Black Stripe
2	Red	17	Gray/Green Stripe	32	Blue/Gray Stripe	47	Lime/Tan Stripe
3	Orange	18	Gray/Blue Stripe	33	Blue/White Stripe	48	Lime/Pink Stripe
4	Yellow	19	Gray/Purple Stripe	34	Blue/Black Stripe	49	Aqua/Brown Stripe
5	Green	20	Gray/Gray Stripe	35	Blue/Tan Stripe	50	Aqua/Red Stripe
6	Blue	21	Gray/White Stripe	36	Blue/Pink Stripe	51	Aqua/Orange Stripe
7	Purple	22	Gray/Black Stripe	37	Lime/Brown Stripe	52	Aqua/Yellow Stripe
8	Gray	23	Gray/Tan Stripe	38	Lime/Red Stripe	53	Aqua/Green Stripe
9	White	24	Gray/Pink Stripe	39	Lime/Orange Stripe	54	Aqua/Blue Stripe
10	Black	25	Blue/Brown Stripe	40	Lime/Yellow Stripe	55	Aqua/Purple Stripe
11	Tan	26	Blue/Red Stripe	41	Lime/Green Stripe	56	Aqua/Gray Stripe
12	Pink	27	Blue/Orange Stripe	42	Lime/Blue Stripe	57	Aqua/White Stripe
13	Gray/Brown Stripe	28	Blue/Yellow Stripe	43	Lime/Purple Stripe	58	Aqua/Black Stripe
14	Gray/Red Stripe	29	Blue/Green Stripe	44	Lime/Gray Stripe	59	Aqua/Tan Stripe
15	Gray/Orange Stripe	30	Blue/Blue Stripe	45	Lime/White Stripe	60	Aqua/Pink Stripe

Continued on next page. > >

Insulation and Jacket Materials

Belden Colour Code Chart No. 8 For DataTwist Cables									
Pair No.	Colour Combination	Pair No.	Colour Combination	Pair No.	Colour Combination	Pair No.	Colour Combination	Pair No.	Colour Combination
1	White/Blue Stripe & Blue/White Stripe	6	Red/Blue Stripe & Blue/Red Stripe	11	Black/Blue Stripe & Blue/Black Stripe	16	Yellow/Blue Stripe & Blue/Yellow Stripe	21	Purple/Blue Stripe & Blue/Purple Stripe
2	White/Orange Stripe & Orange/White Stripe	7	Red/Orange Stripe & Orange/Red Stripe	12	Black/Orange Stripe & Orange/Black Stripe	17	Yellow/Orange Stripe & Orange/Yellow Stripe	22	Purple/Orange Stripe & Orange/Purple Stripe
3	White/Green Stripe & Green/White Stripe	8	Red/Green Stripe & Green/Red Stripe	13	Black/Green Stripe & Green/Black Stripe	18	Yellow/Green Stripe & Green/Yellow Stripe	23	Purple/Green Stripe & Green/Purple Stripe
4	White/Brown Stripe & Brown/White Stripe	9	Red/Brown Stripe & Brown/Red Stripe	14	Black/Brown Stripe & Brown/Black Stripe	19	Yellow/Brown Stripe & Brown/Yellow Stripe	24	Purple/Brown Stripe & Brown/Purple Stripe
5	White/Gray Stripe & Gray/White Stripe	10	Red/Gray Stripe & Gray/Red Stripe	15	Black/Gray Stripe & Gray/Black Stripe	20	Yellow/Gray Stripe & Gray/Yellow Stripe	25	Purple/Gray Stripe & Gray/Purple

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Maximum Short Circuit

Conductor copper. Insulation cross-linked polyethylene and ethylene propylene rubber.
Curves based on formula:

$$\left[\frac{I}{A}\right]^2 t = 0.0297 \log \left[\frac{T_2 + 234}{T_1 + 234}\right]$$

I = Short circuit current – amperes
A = Conductor area – circular mils
t = Time of short circuit – seconds
T_1 = Maximum operating temperature – 90°C (194°F)
T_2 = Maximum short circuit temperature – 250°C (482°F)

Maximum Conductor Short Circuit Current for Copper Cables

Source: ICEA P-32-382

Maximum Short Circuit

Conductor aluminum. Insulation cross-linked polyethylene and ethylene propylene rubber.
Curves based on formula:

$$\left[\frac{I}{A}\right]^2 t = 0.0125 \log \left[\frac{T_2 + 228}{T_1 + 228}\right]$$

I = Short circuit current – amperes
A = Conductor area – circular mils
t = Time of short circuit – seconds
T_1 = Maximum operating temperature – 90°C (194°F)
T_2 = Maximum short circuit temperature – 250°C (482°F)

Maximum Conductor Short Circuit Current for Aluminum Cables

Source: ICEA P-32-382

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Handling and Storage

This section is intended as a guide for the installer's use in the field. The information has been obtained from many sources and covers some of the major considerations when installing and testing power, control, instrumentation, fiber and communication cable.

RECEIVING, HANDLING AND STORAGE

Receiving

Before accepting any shipment, all reels should be visually inspected for both hidden and obvious damage. Be especially alert if:

- A reel is lying flat on its side
- Reels are poorly stacked
- Protective covering (packaging material) is removed or damaged
- Cable end seals are removed or damaged
- Reel flanges are broken
- A reel has been dropped
- Cable ties are loose
- Nails or staples have been driven into the reel flange.

Handling

Cable reels should always be rolled in the direction of the "roll this way" stenciled on the flanges. This prevents loosening of the cable turns, which may cause problems during installation. If the roll direction is not indicated, rotate the reel in the same direction it was rotated when the cable was wound onto the reel.
Cable reels should only be lifted by forklift trucks from the sides and only if the forks are long enough to cradle both flanges.
Steel lifting bars of a suitable diameter and length should be used when lifting cable reels by crane or other overhead lifting devices. With heavy reels or reels that may be unbalanced, the use of a lifting yoke is recommended to prevent reels from slipping or tipping during lifting.

Storage

Where possible, reels should be stored indoors on a hard, dry surface. If reels must be stored outside they should be supported off the ground and covered with a suitable weatherproof material.

- Each reel should be aligned flange to flange.
- Each reel should be chocked.
- Reels should be stored to allow easy access for lifting and moving.

When cable lengths are cut from a master cable reel, all exposed cable ends should be resealed with plastic weatherproof caps or tape to prevent the entrance of moisture.

Cable Handling "Dos":

- Always load with flanges on edge and chock and block securely.
- Lower reels from trucks using hydraulic gate, hoist or forklift.
- Cradle both reel flanges between forks.
- Reels can be hoisted with a shaft extending through both flanges.
- When rolling reels, secure the end of cable and roll counterclockwise to how the cable is wrapped.
- Only stack light reels directly on top of each other using 2x4 spacers or pallets under the bottom flange. For heavier reels, store on surfaces with the flanges vertical. When reels need to be stored for an extended time, use railroad ties to tie them in place.

Cable Handling "Dont's":

- Never drop reels.
- Never allow forklifts to touch the cable surface or reel wrap.
- Do not lift by the top flange.
- Leave out the spreader bar as the flanges could bend.
- Roll clockwise or in the direction that unreels the cable.
- Do not stack hazardously.

Installation

PULLING

Methods of Gripping Cable

In general, insulated cables may be gripped either directly by the conductors or by a basket-weave pulling grip applied over the cables. The appropriate method to use depends on the anticipated maximum pulling tension. When pulls are relatively light a basket-weave grip can often be used. Heavier pulls usually require connecting directly to the conductor either by means of pulling eyes or by forming a loop with the conductor itself. In some instances it is desirable to use a grip over the outer covering in addition to the conductor connection to prevent any slippage of one with respect to the other.

Nonmetallic Sheathed Cables

Smaller sizes of nonmetallic sheathed cables can usually be gripped directly by the conductors by forming them into a loop to which the pull wire or rope can be attached. The insulation on each conductor is removed before the loop is formed. Larger sizes are more easily handled by applying a pulling grip over the cable or cables provided the pull is not too severe. If more than one cable is involved, the ends should be bound together with electrical tape before applying the grip overall. Long, hard pulls will necessitate the use of pulling eyes.

Interlocked Armour Cables

When pulling interlocked armour cable it is usually necessary to grip both the armour and the conductors. This can be accomplished in a number of ways. One method requires that a portion of the armour be removed. Electrical tape is then applied over the armour and down over the conductors and a long basket-weave grip is applied such that it grips both the armour and the conductors. Another method requires that two holes be drilled through the cable (armour and conductors) at right angles to each other and a loop formed by passing steel wires through the holes and out over the end of the cable. A third approach is to use a pulling eye and a grip together, the grip being applied over the armour to prevent it from slipping back. This latter approach provides the greatest strength.

Preassembled Aerial Cables

This type of cable should always be gripped by the messenger that is usually attached to a pulling swivel. In addition, a basket grip should be applied over the conductors to prevent any slippage and to facilitate guiding the conductors through the pulleys.

Tension Limitations

When the pulling force is applied directly to the conductor (e.g., when pulling eyes are used or when the conductor is formed into a loop) it should be limited to 0.008 lb. per circular mil area of cross-section for copper and 0.006 lb. per circular mil for aluminum.
When a grip is applied over nonmetallic sheathed cables, the pulling force should be limited to 1,000 pounds provided this is not in excess of the force calculated above using the 0.008 or 0.006 factors.
To limit the sidewall pressure to a safe value at bends in duct and conduit runs, the pulling force in pounds should not exceed 300 to 500 times the radius of the bend in feet.
The above limits are maximum values that should not be exceeded. However, it is possible to damage cables while applying lower tensions if, for example, there are sharp projections in a poorly constructed duct bank, or if an interlocked armour cable is pulled around too small a sheave. Every installation detail cannot be covered here but staying within the above tension limits will help ensure a successful installation.

Pulling Lubricants

Many commercial lubricants are available and may be employed to reduce pulling tensions provided they do not affect electrical or mechanical characteristics of the cable. The primary function of a pulling lubricant is to reduce the tension on the cable as it is installed in a duct. This is accomplished by reducing the friction (technically the coefficient of friction) between the cable and the inside surface of the conduit, i.e., it makes the cable more slippery. Cable pulling lubricants should be formulated for the conditions of the pull, be safe for the environment, not degrade the cable jacket and be easy to work with. Some LSZH (low smoke zero halogen) cables require special pulling lubricants such as Polywater LZ to prevent chemical damage to the jacket.

The quantity of lubricant required depends on various factors: The pull length, the condition and size of the conduit and the difficulty of the pull.
The recommended average quantity of lubricant per pull is equal to:

$$Q = 0.0015 \times L \times D$$

Where Q is the quantity of lubricant needed in gallons, L is the length of the pull in feet and D is the inner diameter of the conduit in inches.
The appropriate quantity to use can vary by +/- 50 percent from the average depending on installation conditions. Follow the manufacturer's instructions for the conditions affecting each pull.

Sidewall Bearing Pressure (SWBP)

To prevent damage to a cable from pressure that develops when a cable is pulled around a bend under tension, the pressure must be kept as low as possible and should not exceed specified values. Sidewall bearing pressure = tension out of the bend divided by the radius of the bend. Cable manufacturers generally recommend a maximum SWBP of 500 lb./ft. for most 600 V and medium-voltage power cables.

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CABLE PULLING SETUPS

Setup for duct close to floor

Setup for overhead into tray

(a) Proper (b) Improper

The feed-in setup should unreel the cable with the natural curvature (a) as opposed to a reverse “S” curvature (b).

Continued on next page. > >

Installation

CABLE PULLING SETUPS (CONTINUED)

A setup with timbers because pulling eyes were not available

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CABLE PULLING SETUPS (CONTINUED)

Single Sheave

Single sheaves should be used only for guiding cables. Arrange multiple blocks if necessary to maintain minimum bending radii whenever cable is deflected.

Sheave Assembly

For pulling around bends, use multisheave assemblies

The pulleys must be positioned to ensure that the effective curvature is smooth and deflected evenly at each pulley. Never allow a polygon curvature to occur as shown.

The fit of the pulley around the cable is also important when the pulling tension is high (for example, pulleys at the top of a vertical drop). Remember to use the radius of the surface over which the cable is bent, not the outside flange diameter of the pulley. A 10-inch cable sheave typically has an inside (bending) radius of 3 inches!

Installation

SINGLE-CONDUCTOR TECK 90 TERMINATION

Single-conductor high-current armoured cables require special termination methods to prevent excessive heating caused by induced "circulating currents" in nearby conductors and "eddy currents" in nearby magnetic materials. One acceptable method is shown below for the termination of single conductor TECK 90 cables for circuits over 425 A.

Termination of Single-Phase Single-Conductor Teck 90 Cables for Circuit Ampacity Over 425 Amps

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Electrical Characteristics

DC and AC Resistance of Copper Conductors, Nominal Ohms Per 1,000 ft.										
Size	20°C Conductor Temperature	60°C Conductor Temperature			75°C Conductor temperature			90°C Conductor Temperature		
	DC	DC	60 Hz AC		DC	60 Hz AC		DC	60 Hz AC	
AWG / kcmil			*Single Cond.	†Multi Cond.		*Single Cond.	†Multi Cond.		*Single Cond.	†Multi Cond.
30	103.2	119.4	–	–	125.5	–	–	131.6	–	–
28	64.9	75.1	–	–	79	–	–	82.8	–	–
26	40.8	47.2	–	–	49.7	–	–	52.1	–	–
24	26.1	30.2	–	–	31.8	–	–	33.3	–	–
22	16.4	19	–	–	20	–	–	20.9	–	–
20	10.3	11.9	–	–	12.5	–	–	13.1	–	–
18	6.54	7.57	–	–	7.96	–	–	8.34	–	–
16	4.1	4.75	–	–	4.99	–	–	5.23	–	–
14	2.57	2.98	2.98	2.98	3.14	3.14	3.14	3.29	3.29	3.29
12	1.62	1.88	1.88	1.88	1.97	1.97	1.97	2.07	2.07	2.07
10	1.17	1.18	1.18	1.18	1.24	1.24	1.24	1.31	1.31	1.31
8	0.638	0.744	0.744	0.744	0.783	0.783	0.783	0.822	0.822	0.822
6	0.403	0.466	0.466	0.466	0.491	0.491	0.491	0.515	0.515	0.515
4	0.253	0.295	0.295	0.295	0.31	0.31	0.31	0.325	0.325	0.325
2	0.159	0.184	0.184	0.185	0.195	0.194	0.196	0.203	0.203	0.205
1	0.126	0.147	0.147	0.148	0.154	0.154	0.155	0.162	0.162	0.163
1/0	0.1	0.116	0.116	0.118	0.122	0.122	0.124	0.128	0.128	0.13
2/0	0.0794	0.0923	0.0923	0.095	0.0971	0.0971	0.1	0.102	0.102	0.105
3/0	0.0629	0.073	0.073	0.0759	0.0769	0.0769	0.0799	0.0807	0.0807	0.0839
4/0	0.05	0.0579	0.0579	0.0608	0.061	0.061	0.064	0.0639	0.0639	0.0671
250	0.0423	0.049	0.0492	0.0519	0.0516	0.0518	0.0547	0.0541	0.0543	0.0573
300	0.0353	0.0409	0.0411	0.0437	0.0431	0.0433	0.0461	0.0452	0.0454	0.0483
350	0.0302	0.035	0.0353	0.0378	0.0369	0.0372	0.0398	0.0387	0.039	0.0418
400	0.0264	0.0307	0.031	0.0338	0.0323	0.0326	0.0355	0.0339	0.0342	0.0373
500	0.0212	0.0246	0.025	0.0278	0.0258	0.0262	0.0291	0.0271	0.0275	0.0306
600	0.0177	0.0205	0.021	0.0238	0.0215	0.022	0.0249	0.0226	0.0231	0.0262
700	0.0151	0.0175	0.0181	0.0208	0.0184	0.019	0.0219	0.0193	0.0199	0.0229
750	0.0141	0.0164	0.017	0.0198	0.0172	0.0178	0.0208	0.0181	0.0188	0.0219
1000	0.0106	0.0123	0.0131	0.016	0.0129	0.0137	0.0167	0.0135	0.0144	0.0175
1250	0.00847	0.00982	0.0108	0.0138	0.0103	0.0113	0.0145	0.0108	0.0119	0.0152
1500	0.00705	0.00818	0.00934	0.0125	0.00861	0.00983	0.0132	0.00904	0.0103	0.0138
1750	0.00604	0.00701	0.0083	0.0117	0.00738	0.00874	0.0123	0.00774	0.00917	0.0129
2000	0.00529	0.00613	0.00755	0.0111	0.00645	0.00795	0.0117	0.00677	0.00835	0.0123

Note: 40 AWG through 26 AWG values are for solid conductors, all others are for ASTM Class B stranded conductors.
*One single conductor in air, buried or in nonmetallic conduit.
†Multiconductor cable or two or three single conductors in one metallic conduit.

Temperature Correction Factors for Copper DC resistance		
Temperature °C	Multiplying Factors for Correction To:	
	20°C	25°C
60	0.864	0.881
75	0.822	0.838
90	0.784	0.800

Example: The DC resistance of a 500 kcmil copper conductor at 60°C is 0.0246 ohms per 1,000 ft. The resistance at 25°C would be 0.0246 × 0.881 = 0.0217 ohms per 1,000 ft.

Electrical Characteristics

DC and AC Resistance of Aluminum Conductors, Nominal Ohms Per 1,000 ft.									
Size	60°C Conductor Temperature			75°C Conductor temperature			90°C Conductor Temperature		
	DC	60 Hz AC		DC	60 Hz AC		DC	60 Hz AC	
AWG / kcmil		*Single Cond.	†Multi Cond.		*Single Cond.	†Multi Cond.		*Single Cond.	†Multi Cond.
12	3.08	3.08	3.08	3.24	3.24	3.24	3.4	3.4	3.4
10	1.93	1.93	1.93	2.03	2.03	2.03	2.13	2.13	2.13
8	1.21	1.21	1.21	1.28	1.28	1.28	1.34	1.34	1.34
6	0.765	0.765	0.765	0.808	0.808	0.808	0.848	0.848	0.848
4	0.483	0.483	0.483	0.507	0.507	0.507	0.533	0.533	0.533
3	0.382	0.382	0.382	0.402	0.402	0.402	0.422	0.422	0.422
2	0.303	0.303	0.303	0.319	0.319	0.319	0.335	0.335	0.335
1	0.24	0.24	0.24	0.253	0.253	0.253	0.266	0.266	0.266
1/0	0.191	0.191	0.191	0.201	0.201	0.201	0.211	0.211	0.211
2/0	0.151	0.151	0.151	0.159	0.159	0.159	0.167	0.167	0.167
3/0	0.119	0.119	0.12	0.126	0.126	0.127	0.132	0.132	0.133
4/0	0.0953	0.0954	0.0963	0.101	0.101	0.102	0.106	0.106	0.107
250	0.0806	0.0808	0.0822	0.0848	0.085	0.0865	0.089	0.0892	0.0908
300	0.0672	0.0674	0.0686	0.0706	0.0708	0.072	0.0741	0.0744	0.0756
350	0.0575	0.0578	0.0593	0.0605	0.0608	0.0623	0.0635	0.0638	0.0654
400	0.0504	0.0507	0.0525	0.05	0.0533	0.0552	0.0557	0.056	0.058
500	0.0403	0.0406	0.0428	0.0424	0.0427	0.045	0.0445	0.0448	0.0472
600	0.0336	0.034	0.037	0.0353	0.0357	0.0381	0.037	0.0374	0.04
700	0.0288	0.0292	0.032	0.0303	0.0307	0.0337	0.0318	0.0322	0.0353
750	0.0269	0.0273	0.0302	0.0283	0.0288	0.0317	0.0297	0.0302	0.0333
1000	0.0201	0.0207	0.0239	0.0212	0.0218	0.0253	0.0222	0.0228	0.0265
1250	0.0162	0.0176	0.0215	0.017	0.0177	0.0216	0.0179	0.0186	0.0228
1500	0.0135	0.0143	0.0184	0.0142	0.015	0.0193	0.0149	0.0158	0.0203
1750	0.0115	0.0124	0.0168	0.0121	0.0131	0.0177	0.0127	0.0137	0.0186
2000	0.0101	0.0111	0.0158	0.0106	0.0117	0.0165	0.0111	0.0122	0.0173

*One single conductor in air, buried or in nonmetallic conduit.
†Multiconductor cable or two or three single conductors in one metallic conduit.

Temperature Correction Factors for Copper DC Resistance		
Temperature °C	Multiplying Factors for Correction To:	
	20°C	25°C
60	0.861	0.878
75	0.818	0.835
90	0.780	0.796

Example: The DC resistance of a 500 kcm aluminum conductor at 60°C is 0.0403 ohms per 1,000 ft. The resistance at 25°C would be 0.0403 × 0.878 = 0.0354 ohms per 1,000 ft.

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Glossary

#

0–10 V—A common analog process control signal voltage range.

4–20 mA—A common analog process control signal current range.

A

A—Common abbreviation for ampere (see AMPERE).

AAAC—All-aluminum alloy conductor. A special high-strength aluminum alloy.

AAR—American Association of Railroads.

ABRASION RESISTANCE—Ability of a material to resist surface wear.

ABSORPTION—Physical phenomenon that attenuates light traveling in fibers by converting it into heat, thereby raising the fiber's temperature. Absorption results from impurities and defects in the glass structure.

AC—(1) Alternating current. (2) A UL cable type (armoured cable) with flexible metal tape armour.

ACCELERATED LIFE TEST—A test in which a cable is subjected to extreme conditions to determine the life of a cable.

ACSR—Aluminum conductor, steel reinforced. A bare composite of aluminum and steel wires, usually aluminum around steel.

AEIC—Association of Edison Illuminating Companies. Electric energy industry association.

AGING—The irreversible change of material properties after exposure to an environment for an interval of time.

AIA—Aluminum interlocked armour. A type of cable sheath consisting of interlocked pieces of aluminum armour.

ALLOY—A substance (usually metallic) composed of two or more individual substances.

ALTERNATING CURRENT—Electric current that periodically reverses direction. Alternating current is generally abbreviated AC.

AMBIENT—Conditions existing at a location prior to energizing of equipment (example: ambient temperature).

AMPACITY—The rms current that a device can safely carry within specified temperature limitations in a specified environment: dependent upon a) temperature rating; b) power loss; c) heat dissipation; and d) applicable codes.

AMPERE—A standard unit of current. Designated as the amount of current that flows when one volt of EMF (electromotive force) is applied across one ohm of resistance. An ampere of current is flowing when one coulomb of charge is passing a point every second.

AMPLITUDE—The peak value of a electrical signal.

ANALOG—A continuously varying waveform that has not been digitized.

ANNEAL—To soften and relieve strains in any solid material, such as metal or glass, by heating to just below its melting point and then slowly cooling it. This also generally lowers the tensile strength of the material, while improving its flex life.

ANSI (American National Standards Institute)—A not-for-profit organization that publishes nationally recognized standards.

ANTIOXIDANT—Retards or prevents degradation of materials exposed to oxygen (air).

APPARENT POWER—The product of the voltage and amperage (VA) in a system. Wiring must be sized to handle the apparent power, and utilities charge extra for loads that require large amounts of reactive power. For this reason, large industrial loads are often power factor corrected using large capacitors to prevent drawing the reactive power needed from the utility distribution system, instead drawing from the capacitors and presenting a less reactive load to the grid.

ARMATURE—(1) Rotating machinery: the member in which alternating voltage is generated. (2) Electromagnet: the member which is moved by magnetic force.

ARMOUR—Mechanical protector for cables; usually a helical winding of metal tape, formed so each convolution locks mechanically upon the previous one (interlocked armor); may be a formed metal tube (CCW) or a helical wrap of wires.

ASTM—American Society for Testing and Materials. An organization that sets standards on various material tests for industry.

ATTENUATION—The decrease in magnitude of a signal as it travels through any transmitting medium, such as a cable, circuitry or free air. Attenuation is measured as a ratio or as the logarithm of a ratio (decibel).

ATTENUATION CONSTANT—A rating for a cable or other transmitting medium, which is the relative rate of amplitude decrease of voltage or current in the direction of travel. It is measured in decibels per unit length of cable.

AUDIO—A term used to describe sounds within the range of human hearing. Also used to describe devices that are designed to operate within this range.

AWG—American Wire Gauge. A common wire diameter specification.

B

BACKFILL—The materials used to fill an excavation, such as sand in a trench.

BALANCED LINE—A cable having two identical conductors with the same electromagnetic characteristics in relation to other conductors and to ground.

BALLAST—A device designed to stabilize current flow.

BANDWIDTH—The width of a communications channel, measured as frequency (in cycles per second, or hertz). A channel's bandwidth is a major factor in determining how much information it can carry.

Glossary

BASE AMBIENT TEMPERATURE—The temperature of a cable group when there is no load on any cable of the group or of the duct bank containing the group.

BENDING RADIUS—The radius of a circle that can be tightly fitted into the inside curvature of a bent wire or cable. Also, half the diameter of a drum around which a wire is wound. The manufacturer or industry standards specify the minimum bending radius for a cable.

BIL—Basic impulse level. The crest value of a lightning impulse voltage of a specified wave shape that a high-voltage cable or termination is required to withstand under specified conditions.

BINDER—A tape or thread used for holding assembled cable components in place.

BIRDCAGE—The undesirable unwinding of a stranded cable.

BONDING—The method used to produce good electrical contact between metallic parts of any device. Used extensively in automobiles and aircraft to prevent static buildup. Also refers to the connectors and straps used to ground equipment.

BRAID—Textile or metallic filaments interwoven to form a tubular structure that may be applied over one or more wires or flattened to form a strap.

BRIDGE—A circuit that measures by balancing four impedances through which the same current flows:

- Wheatstone measures resistance
- Kelvin measures low resistance
- Schering measures capacitance, dissipation factor, dielectric constant
- Wien measures capacitance, dissipation factor

B and S—Brown and Sharpe wire gauge—same as AWG.

BUNCH STRAND—A conductor arrangement in which all individual wires are twisted in the same direction without regard for geometrical arrangement.

BUS-BAR WIRE—Uninsulated tinned copper wire used as a common lead.

BUTT SPLICE—A splice wherein two wire ends butt against each other, or against a stop, in the center of a splice.

BUTYL RUBBER—Synthetic rubber formerly used for electrical insulating purposes.

BX—A common type of armoured building wire rated 600 volts also known as AC90.

C

C—Symbol for capacitance and Celsius.

CABLE—A cable may be a small number of large conductors or a large number of small conductors cabled together, usually color coded and with a protective overall jacket.

CABLE ASSEMBLY—A cable assembly is a cable with plugs or connectors on each end for a specific purpose. It may be formed in various configurations.

CABLE, BELTED—A multiconductor cable having a layer of insulation over the assembled insulated conductors.

CABLE CLAMP—A device used to give mechanical support to the wire bundle or cable at the rear of a plug or receptacle.

CABLE FILLER—The material used in multiple-conductor cables to occupy the interstices formed by the assembly of the insulated conductors, thus forming a cable core.

CABLE, PRESSURIZED—A cable having a pressurized fluid (gas or oil) as part of the insulation; nitrogen and oil are the most common fluids.

CABLE SHEATH—The protective covering applied to cables.

CABLE SUPPORT—A device to mount a cable on a supporting member.

CABLING—The method by which a group of insulated conductors is mechanically assembled (or twisted together).

CAPACITANCE—Capacitance is that property of a system of conductors and dielectrics that permits the storage of electricity when potential differences exist between the conductors.

CAPACITIVE REACTANCE—The opposition to alternating current due to the capacitance of a capacitor, cable or circuit.

CAPACITOR—Two conducting surfaces separated by a dielectric material. The capacitance is determined by the area of the surface, type of dielectric and spacing between the conducting surfaces.

CAPILLARY ACTION—Movement of a liquid along a small interstice due to surface tension.

CATHODIC PROTECTION—Reduction or prevention of corrosion by making the metal to be protected the cathode in a direct current circuit.

CENELEC—Comité Européen de Normalisation Electrotechnique. One of the European Union's key electrical standards bodies.

CELLULAR POLYETHYLENE—Expanded or "foam" polyethylene, consisting of individual closed cells of inert gas suspended in a polyethylene medium, resulting in a desirable reduction of dielectric constant.

CERTIFICATE OF COMPLIANCE—A written statement normally generated by a quality control department that states that the product being shipped meets a particular specification.

CERTIFIED TEST REPORT (CTR)—A report reflecting actual test data on the cable shipped. Tests are normally conducted by the quality control department and show that the product being shipped meets the required test specifications.

CIRCULAR MIL (CMIL)—A term universally used to define cross-sectional areas of conductors. It is an area equal to the area of a circle 1/1000 of an inch in diameter. As the number of circular mils increase, the size of a wire increases.

COAXIAL CABLE—A cylindrical transmission line comprised of a conductor centered inside a metallic tube or shield, separated by a dielectric material and usually covered by an insulating jacket.

COIL EFFECT—The inductive effect exhibited by a spiral wrapped shield, especially above audio frequencies.

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COLD BEND—Generally refers to a test to determine cable or wire characteristics at low temperatures. The test specimen is cooled in a low-temperature box to a specified temperature. The wire specimen is then wound around a mandrel after which it is examined for cracks or other defects caused by bending at low temperatures.

COMPACT STRANDED CONDUCTOR—A unidirectional or conventional concentric conductor manufactured to a specified diameter, approximately 8 to 10 percent below the nominal diameter of a noncompact conductor of the same cross-sectional area.

COMPRESSED STRANDED CONDUCTOR—A conventional concentric conductor manufactured to a diameter not more than 3 percent below the nominal diameter of a noncompressed conductor of the same cross-sectional area.

COMPRESSION LUG OR SPLICE—A connection installed by compressing the connector onto the strand, ideally creating a cold weld.

CONCENTRIC-LAY CONDUCTOR—A layer of uninsulated wires twisted around a central wire with subsequent layers spirally wrapped around the inner layers to form a single conductor.

CONDUCTANCE—The ability of a conductor to carry an electric charge. The ratio of the current flow to the potential difference causing the flow. The reciprocal of resistance.

CONDUCTIVITY—Capacity of a material to carry electrical current–usually expressed as a percentage of copper conductivity (copper being 100 percent).

CONDUCTOR—A material suitable for carrying an electric current.

CONDUCTOR SHIELD—A conducting layer applied to make the conductor a smooth surface in intimate contact with the insulation; sometimes called Extruded Strand Shield (ESS).

CONDUIT—A tube or trough for protecting electrical wires or cables. Also referred to as raceway.

CONNECTION, DELTA—Interconnection of three electrical equipment windings in a DELTA (triangular) configuration.

CONNECTION, WYE—Interconnection of three electrical equipment windings in WYE (star) configuration.

COPOLYMER—A compound resulting from the polymerization of two different monomers.

COPPERWELD—Trademark of Copperweld Steel Co. for copper-clad steel conductor.

CORD—A flexible insulated cable.

CORONA—A discharge due to ionization of the air around a conductor due to a potential gradient exceeding a certain critical value. See PARTIAL DISCHARGE.

COULOMB—The derived SI unit for quantity of electricity or electrical charge. One coulomb equals one ampere-second.

COUPLING—The transfer of energy between two or more cables or components of a circuit.

CPE—Chlorinated polyethylene. A jacketing compound sold by Dow Chemical under the trademark Tyrin.

CROSS-LINKED—Intermolecular bonds created between long-chain thermoplastic polymers by chemical or electron bombardment means. The properties of the resulting thermosetting material are usually improved.

CROSS-LINKED POLYETHYLENE—A dielectric material used for insulating and jacketing. Also referred to as "XLP" or "XLPE."

CROSSTALK—A type of interference caused by audio frequencies from one circuit being coupled into an adjacent circuit. The term is loosely used to also include coupling at higher frequencies.

CSA (CANADIAN STANDARDS ASSOCIATION)—Standards body for Canada, similar to UL in the United States.

CSPE—A jacketing compound based on DuPont's chlorosulfonated polyethylene (Hypalon). Sometimes abbreviated CSP.

CURRENT—The rate of transfer of electricity. The unit of current is the ampere, a rate of one coulomb/second.

CURRENT, ALTERNATING (AC)—An electric current that periodically reverses direction of electron flow. The number of cycles in a given unit of time (generally a second) is called the frequency of the current.

CURRENT CARRYING CAPACITY—The maximum current an insulated conductor can safely carry without exceeding its insulation and jacket temperature limitations. Same as ampacity.

CURRENT, CHARGING—The current needed to bring the cable up to voltage; determined by the capacitance of the cable. The charging current will be 90° out of phase with the voltage.

CURRENT, DIRECT (DC)—Electrical current whose electrons flow in one direction only. It may be constant or pulsating as long as their movement is in the same direction.

CUT-THROUGH RESISTANCE—The ability of a material to withstand mechanical pressure without damage.

CV—Continuous vulcanization. An insulation and jacketing curing process.

D

DC—Direct current. (see CURRENT, DIRECT.)

DC RESISTANCE—See RESISTANCE.

DEMAND—(1) The measure of the maximum load of a utility's customer over a short period of time. (2) The load integrated over a specified time interval.

DERATING FACTOR—A factor used to reduce the current carrying capacity of a wire when used in environments other than that for which the value was established.

DIELECTRIC—An insulating (nonconducting) medium.

Glossary

DIELECTRIC BREAKDOWN—Any change in the properties of a dielectric that causes it to become conductive. Normally the failure of an insulation because of excessive voltage.

DIELECTRIC CONSTANT—The property of an insulation which determines the electrostatic energy stored per unit volume for unit potential gradient. It is expressed as a ratio. "K" for air is 1.0, while that for polyethylene is 2.3. Therefore, the capacitance of polyethylene is 2.3 times that of air. It is also referred to as specific inductive capacity or permittivity.

DIELECTRIC DISPERSION—The change in relative capacitance due to a change in frequency.

DIELECTRIC HEATING—The heating of an insulating material when placed in a radio-frequency field, caused by internal losses during the rapid polarization reversal of molecules in the material.

DIELECTRIC LOSS—The power dissipated in a dielectric as the result of the friction produced by molecular motion when an alternating electric field is applied.

DIELECTRIC STRENGTH—The maximum voltage that an insulation can withstand without breaking down; usually expressed as a gradient in V/mil (volts per mil). Polyethylene, for example, has a dielectric strength of about 800 V/mil.

DISSIPATION FACTOR—Energy lost when voltage is applied across an insulation. The cotangent of the phase angle between voltage and current in a reactive component. Dissipation factor is quite sensitive to contamination and deterioration of insulation. Also known as power factor.

DRAIN WIRE—An uninsulated wire in contact with a shield throughout its length, used for terminating the shield.

DRAWING—In wire manufacturing, pulling the metal through a die or series of dies to reduce diameter to a specified size.

E

E—Symbol for voltage. Usually used to represent direct voltage or the effective (root-mean-square) value of an alternating voltage.

EARTH—British terminology for zero-reference ground.

ECCENTRICITY—Like concentricity, a measure of the center of a conductor's location with respect to the circular cross section of the insulation. Expressed as a percentage of displacement of one circle within the other.

EDDY CURRENT—Circulating currents induced in conducting materials by varying magnetic fields.

ELASTOMER—Any material that will return to its original dimensions after being stretched or distorted.

ELECTROMAGNET—A device consisting of a ferromagnetic core and a coil that produces appreciable magnetic effects only when an electric current exists in the coil.

ELECTROMAGNETIC—Referring to the combined electric and magnetic fields caused by electron motion through conductors.

ELECTROMOTIVE FORCE (EMF)—Pressure or voltage. The force that causes current to flow in a circuit.

ELECTRON—An elementary particle containing the smallest negative electric charge.

ELECTRON VOLT—A measure of the energy gained by an electron passing through an electric field produced by one volt.

ELECTROSTATIC—Pertaining to static electricity, or electricity at rest. A static electric charge, for example.

ELECTROSTATIC COUPLING—The transfer of energy by means of a varying electrostatic field. Capacitive coupling.

ELEXAR—Shell trademark for a thermoplastic elastomer (TPE).

ELONGATION—The fractional increase in the length of a material stressed in tension.

EMBOSSING—Identification by means of thermal indentation that leaves raised lettering on the sheath material of cable.

EP, EPR, EPM, EPDM—E-ethylene, P-propylene, M-monomer, D-diene. Designations for a synthetic rubber based upon the hydrocarbon ethylene propylene.

EPA—Environmental Protection Agency. The federal regulatory agency responsible for keeping and improving the quality of our living environment–mainly air and water.

EPDM—Ethylene propylene diene monomer.

EPR—Ethylene propylene rubber.

ETFE—Ethylene tetrafluoroethylene. Tefzel is DuPont's trademark for this material.

F

FAULT, GROUND—A fault to ground.

FEP—Fluorinated ethylene propylene. Teflon is DuPont's trademark for this material.

FIBER OPTICS—Transmission of energy by light through glass fibers. A technology that uses light as an information carrier. Fiber optic cables (light guides) are a direct replacement for conventional cable and wire pairs. The glass-based transmission cable occupies far less physical volume for an equivalent transmission capacity; the fibers are immune to electrical interference.

FIELD TESTS—Tests that may be made on a cable system after installation as an acceptance or proof test. Various standards with test recommendations exist, like the IEEE 400 series.

FLAME RESISTANCE—The ability of a material to not propagate flame once the heat source is removed.

FLEXIBILITY—The ease with which a cable may be bent. In general, finer stranding gives greater flexibility. Various types of cables are available depending on the type of flexing required.

FREQUENCY—The number of cycles per second at which an (electrical) event occurs, expressed in hertz (Hz). One hertz is one cycle per second.

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G

GAUGE—A term used to denote the physical size of a wire. See AWG.

GFCI—Ground fault circuit interrupter. A protective device that detects abnormal current flowing to ground and then interrupts the circuit. Required by the NEC for some installations.

GLAND—A device used to terminate, seal and/or ground the metallic armor of a cable as it enters a metal enclosure. Sometimes called a fitting or a connector.

GND—Common abbreviation for ground.

GROUND—A voltage reference point that can be the same as earth or chassis ground.

GUY—A tension wire connected to a tall structure and another fixed object to add strength to the structure.

H

HALAR—(ECTFE) Allied Co. Trademark for ethylene chlorotrifluoroethylene.

HAZARDOUS—Ignitable vapors, dust, or fibers that may cause fire or explosion.

HMWPE—High molecular weight polyethylene.

HOT MODULUS—Stress at 100% elongation after five minutes of conditioning at a given temperature.

HOT STICK—A long insulated stick having a hook at one end which is used to open energized switches, etc.

HYGROSCOPIC—Readily absorbing and retaining moisture.

HYPALON—(CSP) Du Pont trademark for chlorosulphenated polyethylene.

I

I—Symbol used to designate current.

IACS (INTERNATIONAL ANNEALED COPPER STANDARD)—Refined copper for electrical conductors: 100% conductivity at 20°C for 1 m X 1 mm^2 has 1/58 ohm resistivity, 8.89 grams per mm^2 density, 0.000017 per degree C coefficient of linear expansion, 1/254.45 per degree C coefficient of variation of resistance; however, NBS suggests the use of 8.93 for density (1977).

IEEE—Institute of Electrical and Electronics Engineers.

IMPEDANCE—The total opposition a circuit, cable, or component offers to alternating current. It includes both resistance and reactance and is generally expressed in ohms.

IMPEDANCE, CHARACTERISTIC—In a transmission cable of infinite length, the ratio of the applied voltage to the resultant current at the point the voltage is applied. Or, the impedance which makes a transmission cable seem infinitely long, when connected across the cable's output terminals. For a waveguide, it is the ratio of rms voltage to total rms longitudinal current at certain points on a diameter, when the waveguide is match-terminated.

IMPEDANCE, HIGH—Generally, the area of 25,000 ohms or higher.

IMPEDANCE, LOW—Generally, the area of 1 through 600 ohms.

IMPEDANCE MATCH—A condition whereby the impedance of a particular circuit cable or component is the same as the impedance of the circuit, cable, or device to which it is connected.

IMPEDANCE MATCHING TRANSFORMER—A transformer designed to match the impedance of one circuit to that of another.

IMPULSE—See PULSE.

INDUCTANCE—A property of a conductor or circuit which resists a change in current. It causes current changes to lag behind voltage changes and is measured in henrys.

INDUCTION—The phenomenon of a voltage, magnetic field, or electrostatic charge being produced in an object by lines of force from the source of such fields.

INDUCTION HEATING—Heating a conducting material by placing it in a rapidly changing magnetic field. The changing field induces electric currents in the material and I^2R losses account for the resultant heat.

INSULATION—A material having good dielectric properties which is used to separate close electrical components, such as cable conductors and circuit components.

INSULATION LEVEL (CABLE)—The thickness of insulation for circuits having ground fault detectors which interrupt fault currents within 1) 1 minute = 100% level, 2) 1 hour = 133% level, 3) over 1 hour = 173% level.

INSULATION STRESS—The molecule separation pressure caused by a potential difference across an insulator. The practical stress on insulation is expressed in volts per mil.

INTERFERENCE—Disturbances of an electrical or electromagnetic nature that introduce undesirable responses into other electronic equipment.

INTERCALATED TAPES—Two or more tapes helically wound and overlapping on a cable.

INTERSTICE—The space or void between assembled conductors and within the overall circumference of the assembly.

INTRINSICALLY SAFE—Incapable of releasing sufficient electrical or thermal energy under normal or abnormal conditions to cause ignition of a specific hazardous atmospheric mixture in its most ignitable concentration.

IONIZATION—The formation of ions. Ions are produced when polar compounds are dissolved in a solvent and when a liquid, gas or solid is caused to lose or gain electrons due to the passage of an electric current.

Glossary

ICEA (INSULATED CABLE ENGINEERS ASSOCIATION)—The association of cable manufacturing engineers who make nationally recognized specifications and tests for cables.

I^2R—Formula for power in watts, where I = current in amperes, R = resistance in ohms. Also see WATT. I^2R drop - a method of designating a voltage drop in terms of both current and resistance.

ISOLATION—The ability of a circuit or component to reject interference, usually expressed in dB.

J

JACKET—Pertaining to wire and cable, the outer sheath which protects against environment and may also provide additional insulation.

K

KAPTON—Du Pont trademark for polyimide.

KILO—Prefix meaning thousand.

KIRCHOFF'S LAW—1) The algebraic sum of the currents at any point in a circuit is zero. 2) The algebraic sum of the product of the current and the impedance in each conductor in a circuit is equal to the electromotive force in the circuit.

KV—Kilovolt (1,000 volts).

KVA—Kilovolt ampere.

KYNAR—(PVDF) Pennwalt trademark for polyvinylidene fluoride.

KW—Kilowatt.

L

L—Symbol for inductance.

LAY—Pertaining to wire and cable, the axial distance required for one cabled conductor or conductor strand to complete one revolution about the axis around which it is cabled.

LAY DIRECTION—The twist in the cable as indicated by the top strands while looking along the axis of the cable away from the observer. Described as "right hand" or "left hand."

LEAKAGE—The undesirable passage of current over the surface of or through an insulator.

LEAKAGE DISTANCE—The shortest distance along an insulation surface between conductors.

LINE DROP— A voltage loss occurring between any two points in a power or transmission line. Such loss, or drop, is due to the resistance, reactance, or leakage of the line.

LINE VOLTAGE— The value of the potential existing on a supply or power line.

LOAD—A device that consumes or converts the power delivered by another device.

LOCA (LOSS-OF-COOLANT ACCIDENT)—The test to simulate a nuclear reactor accident exhibited by high radiation, high temperature, etc.

LONGWALL MACHINE (MINING)—A machine used to undercut coal at relatively long working spaces.

LOSS—The portion of energy applied to a system that is dissipated and performs no useful work.

M

M—Mutual inductance.

mA—Milliampere (one-thousandth of an ampere).

MAGNETIC FIELD—1) A magnetic field is said to exist at a point if a force over and above any electrostatic force is exerted on a moving charge at the point.
2) The force field established by ac through a conductor, especially a coiled conductor.

MECHANICAL WATER ABSORPTION—A check of how much water will be absorbed by material in warm water for seven days (mg/sq. in surface).

MEGA—Prefix meaning million.

MELT INDEX—The extrusion rate of a material through a specified orifice at specified conditions.

MHz—Megahertz (one million cycles per second).

MICRO—Prefix meaning one-millionth.

MIL—A unit of length equal to one thousandth of an inch.

MILLI—Prefix meaning one-thousandth.

MODULUS OF ELASTICITY—The ratio of stress (force) to strain (deformation) in a material that is elastically deformed.

MUTUAL CAPACITANCE—Capacitance between two conductors when all other conductors are connected together.

mV—Millivolt (one-thousandth of a volt).

mW—Milliwatt (one-thousandth of a watt).

MYLAR—DuPont trademark for polyethylene terephtalate (polyester) film.

N

NBR—Butadiene-acrylonitrile copolymer rubber, a material with good oil and chemical resistance.

NEC®—The National Electrical Code®, or NFPA 70, is a regionally adoptable standard for the safe installation of electrical wiring and equipment in the United States.

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Glossary

NEMA®—National Electrical Manufacturers Association.

NEOPRENE—A synthetic rubber with good resistance to oil, chemical, and flame. Also called polychloroprene.

NYLON—An abrasion-resistant thermoplastic with good chemical resistance. Polyamide.

O

OHM—The electrical unit of resistance. The value of resistance through which a potential difference of one volt will maintain a current of one ampere.

OHM'S LAW—Stated E = IR, I = E/R, or R = E/I, the current I in a circuit is directly proportional to the voltage E, and inversely proportional to the resistance R.

OPERATING TEMPERATURE—See TEMPERATURE, OPERATING.

OSMOSIS—The diffusion of fluids through membranes.

OUTPUT—The useful power or signal delivered by a circuit or device.

OXYGEN INDEX—A test to rate flammability of materials in a mixture of oxygen and nitrogen.

OZONE—Extremely reactive form of oxygen, normally occurring around electrical discharges and present in the atmosphere in small but active quantities. In sufficient concentrations, it can break down certain rubber insulation under tension (such as bent cable).

P

PARALLEL CIRCUIT—A circuit in which the identical voltage is presented to all components, and the current divides among the components according to the resistances of the impedances of the components.

PCP—(Neoprene) Polychloroprene.

PEAK—The maximum instantaneous value of a varying current or voltage. Also called CREST.

PFA—(Teflon) DuPont trademark for perfluoroalkoxy.

PHASE—The location of a position on a waveform of an alternating quality, in relation to the start of a cycle. Measured in degrees, with 360 corresponding to one complete cycle.

PHASE SEQUENCE—The order in which the successive members of a periodic wave set reach their positive maximum values: a) zero phase sequence - no phase shift; b) plus/minus phase sequence – normal phase shift.

PICO—Prefix meaning one-millionth of one-millionth (10^{-12}).

PLASTIC—High polymeric substances, including both natural and synthetic products, but excluding the rubbers that are capable of flowing under heat and pressure.

PLASTICIZER—A chemical added to plastics to make them softer and more flexible.

PILC CABLE—Paper insulated, lead covered cable.

POLYBUTADIENE—A type of synthetic rubber often blended with other synthetic rubbers to improve their properties.

POLYETHYLENE—A thermoplastic material having excellent electrical properties.

POLYMER—A substance made of many repeating chemical units or molecules. The term polymer is often used in place of plastic, rubber, or elastomer.

POLYPROPYLENE—A thermoplastic similar to polyethylene but stiffer and having higher softening point (temperature).

POLYURETHANE—Broad class of polymers noted for good abrasion and solvent resistance. Can be in solid or cellular form.

POLYVINYL CHLORIDE (PVC)—A general purpose thermoplastic used for wire and cable insulations and jackets.

POTTING—Sealing by filling with a substance to exclude moisture.

POWER—The amount of work per unit of time. Usually expressed in watts, and equal to I^2R.

POWER LOSS—The difference between the total power delivered to a circuit, cable, or device, and the power delivered by that device to a load.

POWER RATIO—The ratio of the power appearing at the load to the input power. Expressed in db, it is equal to 10 $\log_{10}$ (P2/P1), where P1 is input power and P2 is the power at the load.

POWER LOSS—The difference between the total power delivered to a circuit, cable, or device, and the power delivered by that device to a load.

PPE—Polypropylene ethylene.

PTFE—(TFE Teflon) Polytetrafluoroethylene.

PULSE—A current or voltage which changes abruptly from one value to another and back to the original value in a finite length of time. Used to describe one particular variation in a series of wave motions.

PVDF—(Kynar) Pennwalt trademark for polyvinylidene fluoride.

R

R—Symbol for resistance or resistor.

REACTANCE—The opposition offered an alternating electron flow by a capacitance or inductance. The amount of such opposition varies with the frequency of the current. The reactance of a capacitor decreases with an increase in frequency; the opposite occurs with an inductance.

RESISTANCE—In DC circuits, the opposition a material offers to current, measured in ohms. In AC circuits, resistance is the real component of impedance, and may be higher than the value measured at DC.

Glossary

RG/U—"RG" is the military designation for coaxial cable, and "U" stands for "general utility."

RMS—Root-mean-square.

ROPE STRAND—A conductor composed of a center group of twisted strands surrounded by layers of twisted strands.

RUBBER, ETHYLENE PROPYLENE—A synthetic rubber insulation having excellent electrical properties.

S

SAE—Society of Automotive Engineers.

SEPARABLE INSULATED CONNECTOR—An insulated device to facilitate power cable connections and separations.

SERIES CIRCUIT—A circuit in which the components are arranged end-to-end to form a single path for current.

SHIELD—A sheet, screen, or braid of metal, usually copper, aluminum, or other conducting material placed around or between electric circuits or cables or their components, to contain any unwanted radiation, or to keep out an unwanted interference.

SHIELD COVERAGE—See SHIELD PERCENTAGE.

SHIELD EFFECTIVENESS—The relative ability of a shield to screen out undesirable radiation. Frequently confused with the term shield percentage, which it is not.

SHIELD PERCENTAGE—The physical area of a circuit or cable actually covered by shielding material, expressed in percent.

SIGNAL—Any visible or audible indication which can convey information. Also, the information conveyed through a communication system.

SILICONE—A material made from silicon and oxygen. Can be in thermosetting elastomer or liquid form. The thermosetting elastomer form is noted for high heat resistance.

SKIN EFFECT—The tendency of alternating current, as its frequency increases, to travel only on the surface of a conductor.

STATIC CHARGE—An electrical charge that is bound to an object. An unmoving electrical charge.

STRESS RELIEF CONE—Mechanical element to relieve the electrical stress at a shielded cable termination.

SUPER CONDUCTORS—Materials whose resistance and magnetic permeability are infinitesimal at absolute zero (-273°C).

SURGE—A temporary and relatively large increase in the voltage or current in an electric circuit or cable. Also called transient.

T

TEFLON— Du Pont Company trademark for fluorocarbon resins. (See FEP and TFE).

TEFZEL—(ETFE) Du Pont trademark for ethylene tetrafluoroethylene.

TFE—Tetrafluoroethylene. A thermoplastic material having good electrical insulating properties and chemical and heat resistance.

TEMPERATURE, COEFFICIENT OF RESISTANCE—The unit change in resistance per degree temperature change.

TEMPERATURE, OPERATING—The temperature at which a device is designed or rated for normal operating conditions; for cables: the maximum temperature for the conductor during normal operation.

TEST, CORONA—Finding the corona extinction and inception voltage levels; low levels indicate impurities in insulation, or voids within the insulation, or voids between insulation and shield, or broken shields.

THERMOCOUPLE—A device using the Seebeck effect to measure temperature.

THERMOPLASTIC—A material which will soften, flow, or distort appreciably when subjected to sufficient heat and pressure. Examples are polyvinyl chloride and polyethylene.

THERMOSET—A material which will not soften, flow, or distort appreciably when subjected to heat and pressure. Vulcanizable. Examples are rubber and neoprene.

THOMPSON EFFECT—The absorption or evolution of thermal energy produced by the interaction of an electric current and a temperature gradient in a homogeneous electric conductor.

THUMPER—A device used to locate faults in a cable by the release of power surges from a capacitor, characterized by the audible noise when the cable breaks down.

TRANSMISSION LINE—An arrangement of two or more conductors or a waveguide used to transfer signal energy from one location to another.

THERMAL RATING—The temperature range in which a material will perform its function without undue degradation.

TRANSDUCER—A device for transforming mechanical energy to electrical energy, or for transforming electrical energy to mechanical energy, such as in microphones and loudspeakers, but not motors or generators.

TRANSFER SWITCH—A device for transferring one or more load conductor connections from one power source to another.

TRANSFORMER—A static device consisting of winding(s) with or without a tap(s) and with or without a magnetic core for introducing mutual coupling by induction between circuits.

TRANSFORMER, AUTO—Any transformer where primary and secondary connections are made to a single cell.

TRANSFORMER, POWER—Designed to transfer electrical power from the primary circuit to the secondary circuit(s) to 1) step up the secondary voltage at less current, or 2) step down the secondary voltage at more current: with the voltage-current product being constant for either primary or secondary.

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TRANSFORMER, SAFETY ISOLATION—Inserted to provide a non-grounded power supply such that a grounded person accidentally coming in contact with the secondary circuit will not be electrocuted.

U

UL—Underwriters Laboratories, Inc.

ULTRASONIC CLEANING—Immersion cleaning aided by ultrasonic waves which cause microagitation.

UNILAY—More than one layer of helically laid wires with the direction of lay and length of lay the same for all layers.

V

V—Volt.

VA—Volt-ampere. A designation of power in terms of volts and amperes.

VELOCITY OF PROPAGATION—The transmission speed of an electrical signal down a length of cable compared to speed in free space. Usually expressed as a percentage.

VISCOSITY— Internal friction or resistance to flow of a liquid: the constant ratio of shearing stress to rate of shear.

VOLT—A unit of electrical pressure. One volt is the amount of pressure that will cause one ampere of current in one ohm of resistance.

VOLTAGE—Electrical potential or electromotive force expressed in volts.

VOLTAGE, CORONA EXTINCTION—The minimum voltage that sustains corona; determined by applying a corona producing voltage, then decreasing the voltage until corona is extinct.

VOLTAGE DROP—The voltage developed across a component or conductor by the current in the resistance or impedance of the component or conductor.

VOLTAGE, INDUCED—A voltage produced in a conductor by a change in magnetic flux linking that path.

VOLTAGE TO GROUND—The voltage between an energized conductor and earth.

VULCANIZE—To cure by chemical reaction that induces extensive changes in the physical properties of a rubber or plastic, brought about by reacting it with sulphur and/or other suitable agents; the changes in physical properties include decreased plastic flow, reduced surface tackiness, increased elasticity, much greater tensile strength and considerably less solubility: the process being hastened by heat and pressure; the method of curing thermosetting materials – rubbers, XLP, etc.

W

W—Symbol for watt or wattage.

WATT—A unit of electrical power. One watt is equivalent to the power represented by one ampere of current under a pressure of one volt in a DC circuit.

X

X—Symbol for reactance.

XLPE—Cross-linked polyethylene. Also known as XLP.

Y

YIELD STRENGTH—The point at which a substance changes from elastic to viscous.

Z

Z—Symbol for impedance.

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