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600 V Multiconductor

XLP/TS-CPE

XLP insulation
TS-CPE jacket
UL Listed Type TC
90°C, 600 V

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, tinned copper per ASTM B-3 and B-8
2. INSULATION: Cross-Linked Polyethylene (XLP), per ICEA S-95-658 (NEMA WC70), meets UL requirements for Type XHHW-2
3. COLOR CODE: Conductors are coded per ICEA Method 4 (printed numbers)
4. ASSEMBLY: Insulated conductors together with one bare UL ground wire, cabled together with suitable fillers and wrapped with a clear aluminum/polyester tape
5. OVERALL JACKET: Sunlight-resistant thermoset Chlorinated Polyethylene (TS-CPE)
6. STANDARDS: Meets UL 1277 requirements for Type TC cables having VW-1 rated XHHW-2 conductors. Cables are listed for direct burial and meet the IEEE 1202, IEEE 383, and UL 1685, 70,000 Btu/hr flame tests as well as the ICEA T-29-520, 210,000 Btu/hr flame test
7. AMPACITY: Based on not more than three conductors in raceway or cable or earth per NEC Table 310.16 with an ambient temperature of 30°C and a conductor temperature of 90°C. All 4-conductor values have been derated per 2008 NEC Table 310.15(B)(2)(a)
8. TEMPERATURE: 90°C
9. VOLTAGE: 600 V

APPLICATIONS

Used for control and power applications in chemical plants, steel mills, industrial plants, utility substations and generating stations, residential and commercial buildings. May be used in Class 1, Div. 2 Hazardous Locations per NEC Art. 501. These cables also conform to Art. 392 "Cable Trays" and Art. 336 "Power and Control Tray Cable." Suitable for aerial, duct or direct burial.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Ground Wire Size AWG	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3RH-1003	10	7	10	3	0.030	0.045	0.49	205	30
3RH-0803	8	7	10	3	0.045	0.045	0.66	223	55
3RH-0804	8	7	10	4	0.045	0.060	0.726	421	44
3RH-0603	6	7	8	3	0.045	0.060	0.745	483	75
3RH-0604	6	7	8	4	0.045	0.060	0.82	600	60
3RH-0403	4	7	8	3	0.045	0.080	0.89	700	95
3RH-0404	4	7	8	4	0.045	0.080	0.975	882	76
3RH-0203	2	7	6	3	0.045	0.080	1.02	1,025	130
3RH-0204	2	7	6	4	0.045	0.080	1.02	1,290	104
3RH-1013	1/0	19	6	3	0.055	0.080	1.24	1,500	170
3RH-2023	2/0	19	6	3	0.055	0.080	1.34	1,809	195
3RH-2024	2/0	19	6	4	0.055	0.080	1.48	2,310	156
3RH-4043	4/0	19	4	3	0.055	0.080	1.578	2,720	260
3RH-2503	250	37	4	3	0.065	0.110	1.750	3,590	290
3RH-3503	350	37	3	3	0.065	0.110	2.01	4,435	350
3RH-5003	500	37	2	3	0.065	0.110	2.30	6,075	430
3RH-5004	500	37	2	4	0.065	0.110	2.55	7,910	344

Diameters and weights may vary among manufacturers.

600 V Multiconductor

EPR/CPE

EPR insulation
CPE jacket
UL Listed Type TC

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, tinned copper per ASTM B-3, B-33
2. INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-95-658 (NEMA WC70), meets UL 44 requirements for Type XHHW-2
3. COLOR CODE: Conductors are color coded per ICEA Method 4 (printed numbers)
4. ASSEMBLY: Conductors are cabled with a single UL ground wire and fillers where necessary to make round
5. OVERALL JACKET: Sunlight-resistant thermoplastic Chlorinated Polyethylene (CPE)
6. STANDARDS: Meets UL 1277 requirements for Type TC cables having VW-1 rated XHHW-2 conductors. Cables are listed for direct burial and meet the IEEE 1202, IEEE 383, and UL 1685, 70,000 Btu/hr flame tests as well as the ICEA T-29-520, 210,000 Btu/hr flame test
7. AMPACITY: Based on not more than three conductors in raceway or cable or earth (directly buried) with an ambient temperature of 30°C per 2008 NEC Table 310.16
8. TEMPERATURE: 90°C
9. VOLTAGE: 600 V

APPLICATIONS

Used for control and power applications in chemical plants, steel mills, industrial plants, utility substations and generating stations, residential as well as commercial buildings. May be used in Class 1, Div. 2 Hazardous Locations per NEC Art. 501. These cables also conform to Art. 392 "Cable Trays" and Art. 336 "Power and Control Tray Cable." Suitable for aerial, duct or direct burial.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Ground Wire Size AWG	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3MR-0803	8	7	10	3	0.045	0.060	0.660	299	55
3MR-0603	6	7	8	3	0.045	0.060	0.750	421	75
3MR-0403	4	7	8	3	0.045	0.080	0.890	635	95
3MR-0203	2	7	6	3	0.045	0.080	1.020	925	130
3MR-0103	1	19	6	3	0.055	0.080	1.150	1,158	150
3MR-1013	1/0	19	6	3	0.055	0.080	1.240	1,403	170
3MR-2023	2/0	19	4	3	0.055	0.080	1.340	1,709	195
3MR-3033	3/0	19	4	3	0.055	0.080	1.450	2,094	225
3MR-4043	4/0	19	4	3	0.055	0.080	1.580	2,575	260
3MR-2503	250	37	4	3	0.065	0.110	1.780	3,126	290
3MR-3503	350	37	3	3	0.065	0.110	2.010	4,219	350
3MR-5003	500	37	2	3	0.065	0.110	2.310	5,843	430

Diameters and weights may vary among manufacturers.

600 V Multiconductor

PVC-Nylon/PVC Tray Cable

PVC-nylon insulation
PVC jacket
UL Listed Type TC

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, annealed bare copper per ASTM B-3 and B-8
2. INSULATION: Polyvinyl Chloride (PVC), nylon covered per UL 83 for Type THHN/THWN
3. COLOR CODE: Conductors are color coded per ICEA Method 4 (printed numbers)
4. ASSEMBLY: Insulated conductors are cabled together with fillers as necessary to make round
5. OVERALL JACKET: Sunlight-resistant Polyvinyl Chloride (PVC) per UL 1277
6. STANDARDS: Meets UL 1277 requirements for Type TC cables having THWN or THHN conductors. Cables are listed for direct burial and meet the IEEE 1202 and UL 1685, 70,000 Btu/hr flame tests
7. AMPACITY: Based on not more than three conductors in raceway or cable or earth per NEC Table 310.16 with a conductor temperature of 90°C and an ambient temperature of 30°C. All 4-conductor values have been derated per 2008 NEC Table 310.15(B)(2)(a)
8. TEMPERATURE: 90°C
9. VOLTAGE: 600 V

APPLICATIONS

Used for control and power applications in chemical plants, steel mills, industrial plants, utility substations and generating stations, residential and commercial buildings. May be used in Class 1, Div. 2 Hazardous Locations per NEC Art. 501. These cables also conform to Art. 392 "Cable Trays" and Art. 336 "Power and Control Tray Cable." Suitable for aerial, duct or direct burial.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3G-0803	8	7	3	0.060	0.600	283	55
3G-0804	8	7	4	0.060	0.658	352	44
3G-0603	6	7	3	0.060	0.684	400	75
3G-0604	6	7	4	0.060	0.752	506	60
3G-0403	4	7	3	0.080	0.876	653	95
3G-0404	4	7	4	0.080	0.963	828	76
3G-0203	2	7	3	0.080	1.005	948	130
3G-0204	2	7	4	0.080	1.107	1,206	104
3G-1013	1/0	19	3	0.080	1.231	1,436	170
3G-1014	1/0	19	4	0.080	1.360	1,850	136
3G-2023	2/0	19	3	0.080	1.328	1,750	195
3G-2024	2/0	19	4	0.080	1.469	2,345	156
3G-4043	4/0	19	3	0.110	1.556	2,610	260
3G-4044	4/0	19	4	0.110	1.784	3,480	208
3G-2503	250	37	3	0.110	1.762	3,190	290
3G-2504	250	37	4	0.110	1.948	4,119	232
3G-3503	350	37	3	0.110	1.983	4,150	350
3G-3504	350	37	4	0.110	2.196	5,530	280
3G-5003	500	37	3	0.110	2.259	5,980	430
3G-5004	500	37	4	0.110	2.505	7,668	344

Diameters and weights may vary among manufacturers.

600 V Multiconductor

PVC-Nylon/PVC Tray Cable With Ground

PVC-nylon insulation
PVC jacket
UL Listed, Type TC

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, annealed bare copper per ASTM B3 and B8
2. INSULATION: Polyvinyl Chloride (PVC), nylon covered per UL 83 for Type THHN/THWN
3. COLOR CODE: Conductors are color coded per ICEA Method 4 (printed numbers)
4. ASSEMBLY: Insulated conductors are cabled with a single ground wire and fillers as necessary to make round
5. OVERALL JACKET: Sunlight-resistant Polyvinyl Chloride (PVC) per UL 1277
6. STANDARDS: Meets UL 1277 requirements for Type TC cables having THWN or THHN conductors. Cables are listed for direct burial and meet the IEEE 1202 and UL 1685, 70,000 Btu/hr flame tests
7. AMPACITY: Based on not more than three conductors in raceway or cable or earth per NEC Table 310.16 with a conductor temperature of 90°C and an ambient temperature of 30°C. All 4-conductor values have been derated per 2008 NEC Table 310.15(B)(2)(a)
8. TEMPERATURE: 90°C
9. VOLTAGE: 600 V

APPLICATIONS

Used for control and power applications in chemical plants, steel mills, industrial plants, utility substations and generating stations, residential and commercial buildings. May be used in Class 1, Div. 2 Hazardous Locations per NEC Art. 501. These cables also conform to Art. 392 "Cable Trays" and Art. 336 "Power and Control Tray Cable." Suitable for aerial, duct or direct burial.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Ground Wire Size AWG	No. of Conductors	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3G-0803WG	8	7	10	3	0.060	0.600	283	55
3G-0804WG	8	7	10	4	0.060	0.655	373	55
3G-0603WG	6	7	8	3	0.060	0.684	386	75
3G-0604WG	6	7	8	4	0.060	0.752	488	60
3G-0403WG	4	7	8	3	0.080	0.876	653	95
3G-0404WG	4	7	8	4	0.080	0.970	828	76
3G-0203WG	2	7	6	3	0.080	1.005	948	104
3G-0204WG	2	7	6	4	0.080	1.117	1,211	104
3G-1013WG	1/0	19	6	3	0.080	1.207	1,451	170
3G-1014WG	1/0	19	6	4	0.080	1.344	1,832	136
3G-2023WG	2/0	19	6	3	0.080	1.297	1,738	195
3G-2024WG	2/0	19	6	4	0.080	1.452	2,223	156
3G-4043WG	4/0	19	4	3	0.110	1.530	2,652	260
3G-4044WG	4/0	19	4	4	0.110	1.768	3,457	208
3G-2503WG	250	37	4	3	0.110	1.740	3,128	290
3G-2504WG	250	37	4	4	0.110	1.937	4,046	232
3G-3503WG	350	37	3	3	0.110	1.961	4,215	350
3G-3504WG	350	37	3	4	0.110	2.180	5,469	280
3G-5003WG	500	37	2	3	0.110	2.234	5,892	430
3G-5004WG	500	37	2	4	0.110	2.494	7,556	344

Diameters and weights may vary among manufacturers

600 V Multiconductor

XLP/PVC Tray Cable

XLP insulation
PVC jacket
UL Listed Type TC

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, annealed, bare copper per ASTM B3 and B8
2. INSULATION: Cross-Linked Polyethylene (XLP) per UL 44 requirements for Type XHHW-2
3. COLOR CODE: 12 and 10 AWG are color coded black, red and blue, 8 AWG and larger are colored black and numbered per ICEA Method 4 (printed numbers)
4. ASSEMBLY: Three insulated conductors and one bare UL Class B stranded copper ground conductor are cabled together with suitable non-hygroscopic fillers and binder to make round
5. OVERALL JACKET: Sunlight-resistant Polyvinyl Chloride (PVC) per UL 1277
6. STANDARDS: Meets UL 1277 requirements for Type TC cables having XHHW-2 conductors. Cables are listed for direct burial and meet the IEEE 1202 and UL 1685, 70,000 Btu/hr flame tests as well as the ICEA T-29-520, 210,000 Btu/hr flame test
7. AMPACITY: Based on not more than three conductors in raceway or cable or earth per NEC Table 310.16, based on an ambient temperature of 30°C and a conductor temperature of 90°C
8. TEMPERATURE: 90°C
9. VOLTAGE: 600 V

APPLICATIONS

Used for control and power applications in chemical plants, steel mills, industrial plants, utility substations and generating stations, residential and commercial buildings. May be used in Class 1, Div. 2 Hazardous Locations per NEC Art. 501. These cables also conform to Art. 392 "Cable Trays" and Art. 336 "Power and Control Tray Cable." Suitable for aerial, duct or direct burial.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Ground Wire Size AWG	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3H-1203	12	7	12	0.030	0.045	0.490	110	30
3H-1003	10	7	10	0.030	0.060	0.500	232	40
3H-0803	8	7	10	0.045	0.060	0.660	320	55
3H-0603	6	7	8	0.045	0.060	0.765	460	75
3H-0403	4	7	8	0.045	0.080	0.885	665	95
3H-0203	2	7	6	0.045	0.080	1.020	980	130
3H-0103	1	19	6	0.055	0.080	1.130	1,195	150
3H-1013	1/0	19	6	0.055	0.080	1.220	1,440	170
3H-2023	2/0	19	6	0.055	0.080	1.320	1,745	195
3H-3033	3/0	19	4	0.055	0.080	1.420	2,180	225
3H-4043	4/0	19	4	0.055	0.080	1.550	2,650	260
3H-2503	250	37	4	0.065	0.110	1.750	3,190	290
3H-3503	350	37	3	0.065	0.110	1.970	4,300	350
3H-5003	500	37	2	0.065	0.110	2.250	5,910	430

Unless otherwise permitted in the NEC, the overcurrent protection shall not exceed 20 A for 12 AWG and 30 A for 10 AWG.
Diameters and weights may vary among manufacturers.

600 V Multiconductor

XLP/LSZH Tray Cable

XLP insulation
LSZH jacket
UL Listed Type TC

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, annealed, copper per ASTM B8
2. INSULATION: Cross-Linked Polyethylene (XLP) per ICEA S-73-532 (NEMA WC57) meets UL 44 requirements for Type XHHW-2 conductors
3. COLOR CODE: Conductors are color coded per ICEA Method 4 (printed numbers)
4. ASSEMBLY: Conductors are cabled with a single UL ground wire and fillers where necessary to make round
5. OVERALL JACKET: Low smoke zero halogen (LSZH) per UL 1277
6. STANDARDS: Meets UL 1277 requirements for Type TC cables having XHHW-2 conductors. Cables are listed for direct burial and meet the IEEE 1202 and UL 1685, 70,000 Btu/hr flame tests. Constructions with 3 or more conductors are listed for exposed runs (TC-ER)
7. AMPACITY: Based on not more than three conductors in raceway or cable or earth with an ambient temperature of 30°C per NEC Table 310.16
8. TEMPERATURE: 90°C
9. VOLTAGE: 600 V

APPLICATIONS

Used for control and power applications in chemical plants, steel mills, industrial plants, utility substations and generating stations, residential and commercial buildings where halogen content poses an environmental or safety concern. Suitable for aerial, duct or direct burial.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Ground Wire Size AWG	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3LS-1003WG	10	7	10	3	0.030	0.060	0.500	237	30
3LS-0803WG	8	7	10	3	0.045	0.060	0.660	314	55
3LS-0603WG	6	7	8	3	0.045	0.060	0.765	456	75
3LS-0403WG	4	7	8	3	0.045	0.080	0.885	642	95
3LS-0203WG	2	10	6	3	0.045	0.080	1.020	979	130
3LS-0103WG	1	19	6	3	0.055	0.080	1.130	1,021	150
3LS-1013WG	1/0	19	6	3	0.055	0.080	1.220	1,439	170
3LS-2023WG	2/0	19	4	3	0.055	0.080	1.320	1,720	195
3LS-4043WG	4/0	19	4	3	0.055	0.080	1.550	2,614	260
3LS-2503WG	250	37	4	3	0.065	0.110	1.750	3,184	290
3LS-3503WG	350	37	3	3	0.065	0.110	1.970	4,187	350
3LS-5003WG	500	37	2	3	0.065	0.110	2.250	5,843	430

Diameters and weights may vary among manufacturers.

600 V Multiconductor

Bus Drop Cable

PVC insulation

PVC jacket

SPECIFICATIONS

1. CONDUCTOR: Stranded, bare, soft copper
2. INSULATION: Polyvinyl Chloride (PVC), per UL 83, color-coded black, white, red
3. ASSEMBLY: Three insulated conductors and three uninsulated ground wires are cabled together with one ground wire in each interstice, jute filled, wrapped with a suitable separator
4. OVERALL JACKET: Gray Polyvinyl Chloride (PVC)
5. AMPACITY: Based on not more than three conductors in raceway or cable or earth per NEC Table 310.16 at a conductor temperature of 60°C and an ambient temperature of 30°C
6. TEMPERATURE: 60°C
7. VOLTAGE: 600 V

APPLICATIONS

For use as drop cable from overhead bus duct to floor machines. Installs quickly without use of conduit for fixed or temporary power applications. Resistant to oil, grease, acids, cutting fluids and mechanical abuse.

Anixter No.	Conductor Size AWG	No. of Strands	No. of Conductors	Ground Wires No. x AWG	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3X-1403-09	14	7	3	3 x 18	0.030	0.045	0.400	120	20
3X-1203-09	12	7	3	3 x 16	0.030	0.045	0.440	165	25
3X-1003-09	10	7	3	3 x 14	0.030	0.045	0.500	230	30
3X-0803-09	8	7	3	3 x 14	0.045	0.060	0.670	265	40
3X-0603-09	6	7	3	3 x 14	0.060	0.060	0.810	520	55
3X-0403-09	4	7	3	3 x 12	0.060	0.080	0.950	810	70
3X-0203-09	2	7	3	3 x 12	0.060	0.080	1.100	1,050	95

Unless otherwise permitted in the NEC, the overcurrent protection shall not exceed 15 A for 14 AWG, 20 A for 12 AWG and 30 A for 10 AWG.
Diameters and weights may vary among manufacturers.

600 V Single Conductor

EPR/TS-CPE

EPR insulation
TS-CPE jacket
90°C wet/dry
UL Listed, VW-1

SPECIFICATIONS

1. CONDUCTOR: Tin-coated compressed Class B stranding per ASTM B8 and ASTM B33
2. INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-95-658 (NEMA WC70)
3. OVERALL JACKET: Thermoset Chlorinated Polyethylene (TS-CPE)
4. STANDARDS: Cable is listed as Type USE-2 per UL 854 and RHH/RHW-2 per UL 44. All sizes have VW-1 flame rating per UL 2556. In sizes 1/0 and larger cable is rated "for CT use" and passes the IEEE 383 and IEEE1202/CSA FT-4 flame tests. Cable meets the limited smoke (-LS) requirements of UL 1685
5. AMPACITY: Based on not more than three conductors in raceway or cable or earth per 2008 NEC Table 310.16 with an ambient temperature of 30°C
6. TEMPERATURE: 90°C
7. VOLTAGE: 600 V

APPLICATIONS

General purpose wiring for control, switchboard, lighting and power circuits in residential and commercial buildings, industrial plants and for utility substations, meters and generating plants. Ideally suited for applications where increased durability is required.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3BE-1401	14	7	0.030	0.015	0.17	25	25
3BE-1201	12	7	0.030	0.015	0.19	35	30
3BE-1001	10	7	0.030	0.015	0.21	50	40
3BE-0801	8	7	0.045	0.030	0.28	81	55
3BE-0601	6	7	0.045	0.030	0.35	130	75
3BE-0401	4	7	0.045	0.030	0.40	185	95
3BE-0201	2	7	0.045	0.030	0.46	275	130
3BE-0101	1	19	0.055	0.045	0.54	360	150
3BE-1011	1/0	19	0.055	0.045	0.59	440	170
3BE-2021	2/0	19	0.055	0.045	0.63	535	195
3BE-3031	3/0	19	0.055	0.045	0.68	655	225
3BE-4041	4/0	19	0.055	0.045	0.74	810	260
3BE-2501	250	37	0.065	0.065	0.85	990	290
3BE-3501	350	37	0.065	0.065	0.96	1,335	350
3BE-5001	500	37	0.065	0.065	1.10	1,850	430
3BE-7501	750	61	0.080	0.065	1.32	2,720	535
3BE-10001	1000	61	0.080	0.065	1.47	3,560	615

All part numbers require color code designation.
See Color Code Chart in the technical information section.
For a similar cable with more flexible (Class H) stranding and a single layer TS-CPE insulation/jacket use prefix 3BF when ordering.
Diameters and weights may vary among manufacturers.

600 V Single Conductor

XLP/USE-2 CT Rated

XLP
90°C wet/dry
UL Listed for CT use

SPECIFICATIONS

1. CONDUCTOR: Class B stranding, annealed, bare copper per ASTM B-8
2. INSULATION: Cross-Linked Polyethylene (XLP) per ICEA S-95-658 (NEMA WC70)
3. STANDARDS: Cable is listed as Type USE-2 per UL 854 and RHH/RHW-2 per UL 44. Rated "for CT use" and passes the IEEE 383 and IEEE 1202/CSA FT-4 flame tests
4. AMPACITY: Based on not more than three conductors in raceway or cable or earth per NEC 310.16 with an ambient temperature of 30°C
5. TEMPERATURE: 90°C
6. VOLTAGE: 600 V

APPLICATIONS

General purpose wiring for control, switchboard, lighting and power circuits in residential and commercial buildings, industrial plants as well as for utility substations and generating plants.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3B-1011-CT-02	1/0	19	0.080	0.532	386	170
3B-2021-CT-02	2/0	19	0.080	0.578	478	195
3B-3031-CT-02	3/0	19	0.080	0.629	594	225
3B-4041-CT-02	4/0	19	0.080	0.687	739	260
3B-2501-CT-02	250	37	0.095	0.769	882	290
3B-3501-CT-02	350	37	0.095	0.875	1,212	350
3B-5001-CT-02	500	37	0.095	1.007	1,702	430
3B-7501-CT-02	750	61	0.110	1.250	2,603	535
3B-10001-CT-02	1000	61	0.110	1.410	2,880	615

2,400 V Single Conductor - Nonshielded

EPR/CPE or CSPE

EPR insulation
CPE or CSPE jacket
Nonshielded
UL Listed Type MV-90

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, annealed, bare copper per ASTM B-3 and B-8, strand shield is an extruded semiconducting compound per ICEA S-96-659 (NEMA WC71)
2. INSULATION: Ethylene Propylene Rubber (EPR) which meets or exceeds ICEA S-96-659 and UL 1072. For wet or dry locations per UL 1072 and NEC Article 328
3. OVERALL JACKET: CPE or CSPE
4. STANDARDS: Listed Type MV-90 per UL 1072 for wet and dry locations. Meets requirements of ICEA S-96-659 (NEMA WC71). Sizes 1/0 and larger marked Sunlight Resistant and pass IEEE 383 70,000 Btu/hr flame test and are marked "for CT use"
5. AMPACITY: Based on three single conductor cables in isolated conduit in air per NEC Table 310.73 with a conductor temperature of 90°C and an ambient temperature of 40°C
6. TEMPERATURE: 90°C
7. VOLTAGE: 2,400 V

APPLICATIONS

For use in power circuits up to 2,400 V where shields cannot be properly terminated and where space is limited. Cable is used for power applications in chemical plants, refineries, steel mills, industrial plants, utility substations and generating stations. Ideally suited for applications where increased durability is required.

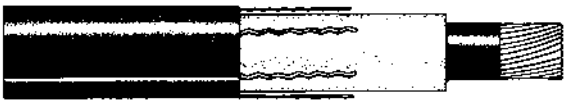
Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3DC-0601	6	7	0.125	0.080	0.65	270	75
3DC-0401	4	7	0.125	0.080	0.70	340	97
3DC-0201	2	7	0.125	0.080	0.76	450	130
3DC-1011	1/0	19	0.125	0.080	0.84	610	180
3DC-2021	2/0	19	0.125	0.080	0.88	700	205
3DC-3031	3/0	19	0.125	0.095	0.96	875	240
3DC-4041	4/0	37	0.125	0.095	1.02	1,020	280
3DC-2501	250	37	0.140	0.110	1.13	1,225	315
3DC-3501	350	37	0.140	0.110	1.23	1,625	385
3DC-5001	500	37	0.140	0.110	1.37	2,150	475
3DC-7501	750	61	0.155	0.125	1.62	3,110	600
3DC-10001	1000	61	0.155	0.125	1.77	3,800	690

Diameters and weights may vary among manufacturers.

5 kV Single Conductor - Shielded

EPR/CPE/Unishield

EPR insulation
CPE jacket
Shielded
133% insulation level



SPECIFICATIONS

1. CONDUCTOR: Class B compact stranded, annealed bare copper per ASTM B-3 and B-496, strand shield is an extruded semiconducting compound
2. INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-93-639 (NEMA WC74)
3. SHIELD SYSTEM: Combination of six copper drain wires and extruded semiconducting Chlorinated Polyethylene (CPE) jacket
4. STANDARDS: Listed Type MV-105 per UL 1072. Meets requirements of ICEA S-93-639 / NEMA WC74. Passes IEEE 1202 (70,000 Btu/hr)/CSA FT4. Sizes 1/0 and larger marked Sunlight Resistant and pass UL 1685 70,000 Btu/hr flame test and are UL rated "for CT use"
5. AMPACITY: Based on three single conductor cables in isolated conduit in air per NEC Table 310.73 with a conductor temperature of 90°C and an ambient temperature of 40°C
6. TEMPERATURE: 105°C
7. VOLTAGE: 5 kV

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 AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Nominal Insulation O.D. (in.)	Shield Drain Wire AWG	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3USA-0201	2	7	0.115	0.53	20	0.075	0.71	422	130
3USA-1011	1/0	19	0.115	0.60	20	0.075	0.79	573	180
3USA-2021	2/0	19	0.115	0.64	20	0.075	0.84	687	205
3USA-4041	4/0	19	0.115	0.74	19	0.080	0.94	974	280
3USA-2501	250	37	0.115	0.79	18	0.080	1.02	1,141	315
3USA-3501	350	37	0.115	0.88	18	0.080	1.12	1,500	385
3USA-5001	500	37	0.115	1.01	17	0.085	1.25	2,036	475
3USA-7501	750	61	0.115	1.18	17	0.085	1.43	2,905	600
3USA-10001	1000	61	0.115	1.38	16	0.100	1.62	3,800	690

5 kV Single Conductor - Shielded

Lead-free EPR/PVC Copper Tape Shield

EPR insulation
PVC jacket
Shielded
133% insulation level
Lead-free
No lube required

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, annealed, bare copper per ASTM B3 and B8, (compact stranding per ASTM B-496 is available), strand shield is an extruded conducting thermosetting compound
2. INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-93-639 (NEMA WC74)
3. INSULATION SHIELD: Over the insulation is an extruded semi-conducting, thermosetting insulation shield. Metallic shield is a helically applied 5 mil uncoated copper tape
4. OVERALL JACKET: Sunlight-resistant black Polyvinyl Chloride (PVC), meeting the requirements of ICEA and UL 1072. Lubricant built into jacket to facilitate installation
5. STANDARDS: Listed as Type MV-105 per UL 1072, meets the requirements of ICEA S-93-639, sizes 1/0 and larger marked "for CT use" and pass UL 1685 70,000 Btu/hr flame test
6. AMPACITY: Based on three single conductor cables in isolated conduit in air per NEC Table 310.73 with a conductor temperature of 90°C and an ambient temperature of 40°C
7. TEMPERATURE: 105°C
8. VOLTAGE: 5 kV 133% and 8 kV 100%

APPLICATIONS

For use in power circuits up to 8 kV when installed in open air, conduit, duct or buried directly in the 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 AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Nominal Insulation O.D. (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3DA-0201-SW	2	7	0.115	0.76	0.060	0.78	450	130
3DA-1011-SW	1/0	19	0.115	0.65	0.080	0.91	670	180
3DA-2021-SW	2/0	19	0.115	0.69	0.080	0.96	780	205
3DA-4041-SW	4/0	19	0.115	0.80	0.080	1.05	1,085	280
3DA-2501-SW	250	37	0.115	0.86	0.080	1.21	1,225	315
3DA-3501-SW	350	37	0.115	0.96	0.080	1.21	1,500	385
3DA-5001-SW	500	37	0.115	1.09	0.080	1.36	2,130	475
3DA-7501-SW	750	61	0.115	1.28	0.080	1.55	3,025	600
3DA-10001-SW	1000	61	0.115	1.43	0.110	1.75	3,980	690

Cables with compact stranding have slightly smaller overall diameters.
Diameters and weights may vary among manufacturers.

5 kV Single Conductor - Shielded

EPR/PVC Copper Tape Shield

EPR insulation
PVC jacket
Shielded
133% insulation level

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, annealed, bare copper per ASTM B-3 and B-8, (compact stranding per ASTM B-496 is available). Strand shield is an extruded semi-conducting thermoset
2. INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-93-639 (NEMA WC74)
3. INSULATION SHIELD: Extruded semi-conducting thermoset insulation shield. Metallic shield is a helically applied 5 mil uncoated copper tape
4. OVERALL JACKET: Sunlight-resistant, black Polyvinyl Chloride (PVC)
5. STANDARDS: Listed as Type MV-105 per UL 1072 and meets the requirements of ICEA S-93-639. Sizes 1/0 and larger marked "for CT use" and pass UL 1685 70,000 Btu/hr flame test
6. AMPACITY: Based on three single conductor cables in isolated conduit in air per NEC Table 310.73 with a conductor temperature of 90°C and an ambient temperature of 40°C
7. TEMPERATURE: 105°C
8. VOLTAGE: 5 kV 133% and 8 kV 100%

APPLICATIONS

For use in power circuits up to 8 kV when installed in open air, conduit, duct or buried directly in the earth, for wet and dry locations. Used for power applications in chemical plants, refineries, steel mills, industrial plants, utility substations and generating stations.

5 KV SINGLE CONDUCTOR - SHIELDED

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Nominal Insulation O.D. (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3DA-0201	2	7	0.115	0.57	0.060	0.78	470	130
3DA-1011	1/0	19	0.115	0.65	0.080	0.91	670	180
3DA-2021	2/0	19	0.115	0.69	0.080	0.96	780	205
3DA-4041	4/0	19	0.115	0.80	0.080	1.05	1,085	280
3DA-2501	250	37	0.115	0.86	0.080	1.11	1,225	315
3DA-3501	350	37	0.115	0.96	0.080	1.21	1,500	385
3DA-5001	500	37	0.115	1.09	0.080	1.36	2,130	475
3DA-7501	750	61	0.115	1.28	0.080	1.55	3,025	600
3DA-10001	1000	61	0.115	1.43	0.110	1.75	3,980	690

Cables with compact stranding have slightly smaller overall diameters.
Diameters and weights may vary among manufacturers.

5 kV Multiconductor - Shielded

Three Conductor EPR/PVC Shielded

EPR insulation
PVC jacket
Shielded
UL Listed Type MV-105

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, annealed bare copper
2. CONDUCTOR SHIELD: Conductor is covered with an extruded semiconducting thermoset compound bonded to the insulation
3. INSULATION: Ethylene Propylene Rubber (EPR) with thermoset semiconducting layer and 5 mil copper tape shield
4. ASSEMBLY: The three conductors are cabled with a Class B stranded, uncoated copper grounding conductor and suitable fillers in compliance with UL 1072. A binder tape is applied overall
5. OVERALL JACKET: Sunlight-resistant black Polyvinyl Chloride (PVC) meeting ICEA and UL requirements
6. STANDARDS: Listed Type MV-105 per UL 1072 and meets the requirements of ICEA S-93-639 and AEIC CS8. Passes UL 1685 70,000 Btu/hr flame test. Sizes 1/0 and larger marked "for CT use"
7. AMPACITY: Based on three single conductor cables in isolated conduit in air per NEC Table 310.75 with a conductor temperature of 90°C and an ambient temperature of 40°C
8. TEMPERATURE: 105°C
9. VOLTAGE: 5 kV 133% and 8 kV 100%

APPLICATIONS

For use in power circuits up to 8 kV when installed in open air, conduit, duct or buried directly in the earth, for wet and dry locations. Used for power applications in chemical plants, refineries, steel mills, industrial plants, utility substations and generating stations.

5 KV 115 EP W/GRD CTS 133% CT-USE

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Ground Wire Size AWG	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3JS-0603	6	7	6	3	0.115	0.080	1.29	935	95
3JS-0403	4	7	6	3	0.115	0.080	1.39	1,158	125
3JS-0203	2	7	6	3	0.115	0.080	1.51	1,510	160
3JS-1013	1/0	19	4	3	0.115	0.080	1.66	2,030	210
3JS-2023	2/0	19	4	3	0.115	0.080	1.82	2,445	235
3JS-4043	4/0	19	3	3	0.115	0.110	2.05	3,415	320
3JS-3503	350	37	2	3	0.115	0.110	2.36	5,061	400
3JS-5003	500	37	1	3	0.115	0.110	2.63	6,800	485
3JS-7503	750	61	1/0	3	0.115	0.140	3.14	9,490	525

Diameters and weights may vary among manufacturers.

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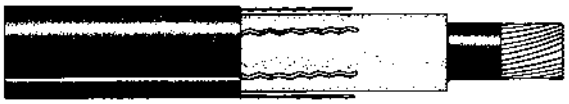
General Cable

15 kV - 133% Insulation Level

EPR/CPE Unishield

EPR insulation
CPE jacket
Shielded (Unishield)
133% insulation level



SPECIFICATIONS

1. CONDUCTOR: Class B, compact stranded, annealed bare copper per ASTM B-3 and B-496, strand shield is an extruded semiconducting compound
2. INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-93-639 (NEMA WC74)
3. SHIELD SYSTEM: Combination of six copper drain wires and extruded semiconducting Chlorinated Polyethylene (CPE) jacket
4. STANDARDS: UL Listed Type MV-105 per UL 1072. Also meets ICEA S-93-639/NEMA WC74 and ICEA S-97-682. Passes IEEE 1202 70,000 Btu/hr flame test. Sizes 1/0 and larger marked "Sunlight-Resistant for CT use" and pass UL 1685 70,000 Btu/hr flame test
5. AMPACITY: Based on three single conductor cables in isolated conduit in air per NEC Table 310.73 with a conductor temperature of 90°C and an ambient temperature of 40°C
6. TEMPERATURE: 105°C
7. VOLTAGE: 15 kV

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 AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Nominal Insulation O.D. (in.)	Shield Drain Wire AWG	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3USC-0201	2	7	0.220	0.74	19	0.080	0.94	586	150
3USC-1011	1/0	19	0.220	0.81	18	0.080	1.02	767	195
3USC-2021	2/0	19	0.220	0.86	18	0.080	1.06	880	225
3USC-4041	4/0	19	0.220	0.96	18	0.080	1.14	1,211	295
3USC-2501	250	37	0.220	1.00	17	0.085	1.25	1,384	330
3USC-3501	350	37	0.220	1.10	17	0.085	1.35	1,762	395
3USC-5001	500	37	0.220	1.22	17	0.085	1.47	2,298	480
3USC-7501	750	61	0.220	1.39	16	0.100	1.68	3,256	585
3USC-10001	1000	61	0.220	1.55	16	0.115	1.84	4,141	675

15 kV - 133% Insulation Level

EPR/PVC Copper Tape Shield

EPR insulation
PVC jacket
Shielded
133% insulation level

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, annealed, bare copper per ASTM B-3, (compact stranding per ASTM B-496 is available). Strand shield is an extruded semiconducting, thermosetting compound
2. INSULATION: Ethylene Propylene Rubber (EPR), physical and electrical properties are in accordance with ICEA S-93-639 (NEMA WC74)
3. INSULATION SHIELD: Extruded semiconducting thermoset insulation shield. Metallic shield is a helically applied 5 mil uncoated copper tape
4. OVERALL JACKET: Sunlight-resistant black Polyvinyl Chloride (PVC)
5. STANDARDS: Listed Type MV-105 per UL 1072 and meets the requirements of ICEA S-93-639. Sizes 1/0 and larger marked "for CT use" and pass UL 1685 70,000 Btu/hr flame test
6. AMPACITY: Based on three single conductor cables in isolated conduit in air per 2008 NEC Table 310.73 with a conductor temperature of 90°C and an ambient temperature of 40°C
7. TEMPERATURE: 105°C
8. VOLTAGE: 15 kV

APPLICATIONS

For use in power circuits up to 15 kV when installed in open air, conduit, duct, or direct buried, 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 AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Nominal Insulation O.D. (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3FE-0201	2	7	0.220	0.78	0.080	1.04	685	150
3FE-0101	1	19	0.220	0.82	0.080	1.08	760	170
3FE-1011	1/0	19	0.220	0.86	0.080	1.13	870	195
3FE-2021	2/0	19	0.220	0.91	0.080	1.16	995	225
3FE-3031	3/0	19	0.220	0.96	0.080	1.24	1,130	260
3FE-4041	4/0	19	0.220	1.02	0.080	1.29	1,275	295
3FE-2501	250	37	0.220	1.07	0.080	1.34	1,465	330
3FE-3501	350	37	0.220	1.18	0.080	1.44	1,840	395
3FE-5001	500	37	0.220	1.30	0.080	1.57	2,395	480
3FE-7501	750	61	0.220	1.49	0.110	1.82	3,415	585
3FE-10001	1000	61	0.220	1.64	0.110	2.03	4,435	675

Cables with compact stranding have slightly smaller overall diameters. Diameters and weights may vary among manufacturers.

15 kV - 133% Insulation Level

Lead-free EPR/PVC Copper Tape Shield

EPR insulation
PVC jacket
Shielded
133% insulation level
Lead-free
No lube required

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, annealed, bare copper per ASTM B-3, (compact stranding per ASTM B-496 is available). Strand shield is an extruded semiconducting, thermosetting compound
2. INSULATION: Ethylene Propylene Rubber (EPR), physical and electrical properties are in accordance with ICEA S-93-639 (NEMA WC74)
3. INSULATION SHIELD: Extruded semiconducting thermoset insulation shield. Metallic shield is a helically applied 5 mil uncoated copper tape
4. OVERALL JACKET: Sunlight-resistant black Polyvinyl Chloride (PVC)
5. STANDARDS: Listed Type MV-105 per UL 1072 and meets the requirements of ICEA S-93-639. Sizes 1/0 and larger marked "for CT use" and pass UL 1685 70,000 Btu/hr flame test
6. AMPACITY: Based on three single conductor cables in isolated conduit in air per 2008 NEC Table 310.73 with a conductor temperature of 90°C and an ambient temperature of 40°C
7. TEMPERATURE: 105°C
8. VOLTAGE: 15 kV

APPLICATIONS

For use in power circuits up to 15 kV when installed in open air, conduit, duct, or direct buried, 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 AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Nominal Insulation O.D. (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3FE-0201-SW	2	19	0.220	0.78	0.080	1.04	685	150
3FE-1011-SW	1/0	19	0.220	0.86	0.080	1.13	870	195
3FE-2021-SW	2/0	19	0.220	0.91	0.080	1.16	995	225
3FE-4041-SW	4/0	19	0.220	1.02	0.080	1.22	1,275	295
3FE-2501-SW	250	37	0.220	1.10	0.080	1.30	1,400	330
3FE-3501-SW	350	37	0.220	1.18	0.080	1.44	1,840	395
3FE-5001-SW	500	37	0.220	1.30	0.080	1.57	2,395	480
3FE-7501-SW	750	61	0.220	1.49	0.110	1.82	3,415	585
3FE-10001-SW	1000	61	0.220	1.64	0.110	2.03	4,435	675

Cables with compact stranding have slightly smaller overall diameters.
Diameters and weights may vary among manufacturers.

35 kV - 100% Insulation Level

Lead-free EPR/PVC Copper Tape Shield

EPR insulation
PVC jacket
Shielded
100% insulation level
Lead-free
No lube required

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, annealed copper per ASTM B-3 and B-8. Strand shield is an extruded semiconducting thermoset
2. INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-93-639 (NEMA WC74)
3. INSULATION SHIELD: Extruded semiconducting, thermoset insulation shield. Metallic shield is a helically applied 5 mil uncoated copper shielding tape
4. OVERALL JACKET: Sunlight-resistant, black Polyvinyl Chloride (PVC). Lubricant built into jacket to facilitate installation
5. STANDARDS: Listed as Type MV-105 per UL 1072 and meets the requirements of ICEA S-93-639 (NEMA WC74). Sizes 1/0 and larger pass UL 1685 70,000 Btu/hr flame test
6. AMPACITY: Based on three single conductor cables in isolated conduit in air per NEC Table 310.73 with a conductor temperature of 90°C and an ambient temperature of 40°C
7. TEMPERATURE: 105°C
8. VOLTAGE: 35 kV

APPLICATIONS

For use in power circuits up to 35 kV when installed in open air, conduit, duct or direct burial for wet or dry locations. Used for power applications in chemical plants, refineries, steel mills, industrial plants, utility substations and generating stations.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Nominal Insulation O.D. (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3DX-1011-SW	1/0	19	0.345	1.12	0.080	1.39	1,160	195
3DX-2021-SW	2/0	19	0.345	1.16	0.080	1.43	1,190	225
3DX-3031-SW	3/0	19	0.345	1.21	0.080	1.48	1,445	260
3DX-4041-SW	4/0	19	0.345	1.27	0.080	1.54	1,635	295
3DX-2501-SW	250	37	0.345	1.33	0.080	1.60	1,805	330
3DX-3501-SW	350	37	0.345	1.43	0.080	1.70	2,205	395
3DX-5001-SW	500	37	0.345	1.56	0.110	1.91	2,920	480
3DX-7501-SW	750	61	0.345	1.75	0.110	2.10	3,895	585
3DX-10001-SW	1000	61	0.345	1.90	0.110	2.25	4,840	675

0.420 in. insulation thickness (133% insulation level) available upon request.
Diameters and weights may vary among manufacturers.

35 kV - 100% Insulation Level

EPR/PVC Copper Tape Shield

EPR insulation
PVC jacket
Shielded
100% insulation level

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, annealed copper per ASTM B-3 and B-8, strand shield is an extruded semiconducting thermoset
2. INSULATION: Ethylene Propylene Rubber (EPR) per ICEA S-93-639 (NEMA WC74)
3. INSULATION SHIELD: Extruded semiconducting thermoset insulation shield. Metallic shield is a helically applied 5 mil uncoated copper shielding tape
4. OVERALL JACKET: Sunlight-resistant, black Polyvinyl Chloride (PVC)
5. STANDARDS: Listed as Type MV-105 per UL 1072 and meets the requirements of ICEA S-93-639. Sizes 1/0 and larger pass UL 1685 70,000 Btu/hr flame test
6. AMPACITY: Based on three single conductor cables in isolated conduit in air per NEC Table 310.73 with a conductor temperature of 90°C and an ambient temperature of 40°C
7. TEMPERATURE: 105°C
8. VOLTAGE: 35 kV

APPLICATIONS

For use in power circuits up to 35 kV when installed in open air, conduit, duct or direct burial for wet or dry locations. Used for power applications in chemical plants, refineries, steel mills, industrial plants, utility substations and generating stations.

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	Insulation Thickness (in.)	Nominal Insulation O.D. (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3DX-1011	1/0	19	0.345	1.12	0.080	1.39	1,160	195
3DX-2021	2/0	19	0.345	1.16	0.080	1.43	1,190	225
3DX-3031	3/0	19	0.345	1.21	0.080	1.48	1,445	260
3DX-4041	4/0	19	0.345	1.27	0.080	1.54	1,635	295
3DX-2501	250	37	0.345	1.33	0.080	1.60	1,805	330
3DX-3501	350	37	0.345	1.43	0.080	1.70	2,205	395
3DX-5001	500	37	0.345	1.56	0.110	1.91	2,920	480
3DX-7501	750	61	0.345	1.75	0.110	2.10	3,895	585
3DX-10001	1000	61	0.345	1.90	0.110	2.25	4,840	675

0.420 in. insulation thickness (133% insulation level) available upon request.
Diameters and weights may vary among manufacturers.

Airport Lighting Cable

Single Conductor Type L-824-B or L-824-C

FAA approved

Nonshielded

SPECIFICATIONS

1. Completed cables conform to Federal Aviation Agency (FAA) Specification L-824, latest edition
2. Type B 5,000 V: Annealed, soft-drawn copper conductor, Class B stranded; suitable separator tape 90°C EPR insulation; PVC jacket (other jackets optional) overall; surface printed L-824-B plus conductor size, voltage and manufacturer's name
3. Type C 5,000 V: Annealed, soft-drawn copper conductor, Class B stranded; suitable separator tape 90°C XLP insulation; surface printed L-824-C plus conductor size, voltage and manufacturer's name

APPLICATIONS

For use in underground installations for airport lighting and control.

Anixter No.	Conductor Size AWG	No. of Strands	Designation	Voltage	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
3Z-0805B	8	7	L-824-B	5,000	0.090	0.030	0.41	115
3Z-0805C	8	7	L-824-C	5,000	0.110	-----	0.38	95
3Z-0605C	6	7	L-824-C	5,000	0.110	-----	0.42	125

Diameters and weights may vary among manufacturers.

15 kV Ignition Cable

Single Conductor Type GTO

PE insulation
PVC jacket
Nonshielded

SPECIFICATIONS

1. CONDUCTOR: Flexible tinned copper
2. INSULATION: Polyethylene (PE), black in color, meets UL Standard 814 Gas-Tube-Sign and Ignition Cable

APPLICATIONS

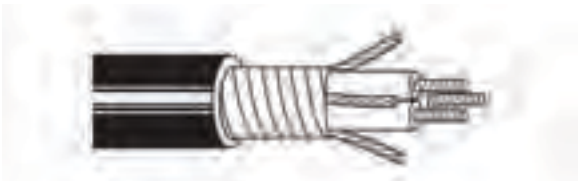
Used between high-voltage terminals on sign transformers and signs. Also used for oil burner ignition cable. This cable may be used indoors or outdoors. UL Listed for use per NEC Article 600.32 - Neon Secondary-Circuit Wiring, over 1,000 volts.

Anixter No.	Conductor Size AWG	No. of Strands	Voltage	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.
3GTO-15	14	19	5,000-15,000	0.264	50

Diameters and weights may vary among manufacturers.

Variable-frequency Drive Cable

VFD



XLP insulation
PVC jacket
Type TC
90°C
UL Listed

SPECIFICATIONS

1. CONDUCTOR: Class B stranded, tinned copper per ASTM B-3, B-33
2. INSULATION: Cross-Linked Polyethylene (XLP) per ICEA S-95-685 (NEMA WC70) meets UL requirements
3. COLOR CODE: Conductors are coded per ICEA Method 4 (printed numbers)
4. ASSEMBLY: Three insulated conductors are cabled with three uninsulated grounds and an overall copper tape shield
5. OVERALL JACKET: Black sunlight-resistant Polyvinyl Chloride (PVC) per UL 1277
6. STANDARDS: Meets the UL requirements for Type TC cables having XHHW-2 conductors. Cables are listed for direct burial and meet the IEEE 1202, IEEE 383, and UL 1685, 70,000 Btu/hr flame tests as well as the ICEA T-29-520, 210,000 Btu/hr flame test
7. AMPACITY: Based on not more than three conductors in raceway or cable or earth per 2008 NEC Table 310.16 with a conductor temperature of 90°C and an ambient temperature of 30°C. All 4-conductor values have been derated per 2008 NEC Table 310.15(B)(2)(a)
8. TEMPERATURE: 90°C
9. VOLTAGE: 600 V or 2 kV

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 cables that are specifically designed for VFD applications in order to improve drive system reliability while negating the impact of RFI/EMI.

VFD 600 V

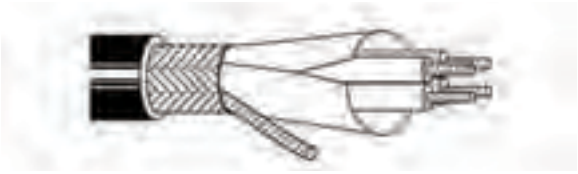
Anixter No.	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Ground Wires No. x AWG	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
2ACD-1403	14	7	3	3 x 18	0.030	0.045	0.412	134	25
2ACD-1203	12	7	3	3 x 16	0.030	0.045	0.453	178	30
2ACD-1003	10	7	3	3 x 14	0.030	0.045	0.511	260	40
3ACD-0803	8	7	3	3 x 14	0.045	0.060	0.672	396	55
3ACD-0603	6	7	3	3 x 12	0.045	0.060	0.780	537	75
3ACD-0403	4	7	3	3 x 12	0.045	0.080	0.822	765	95
3ACD-0203	2	7	3	3 x 10	0.045	0.080	1.007	1,085	130
3ACD-1013	1/0	19	3	3 x 10	0.055	0.080	1.231	1,500	170

VFD 2 KV

Anixter No.	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Ground Wires No. x AWG	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
2ACD-1403-2KV	14	7	3	3 x 18	0.030	0.030	0.580	189	25
2ACD-1203-2KV	12	7	3	3 x 16	0.030	0.045	0.615	249	30
2ACD-1003-2KV	10	7	3	3 x 14	0.030	0.045	0.670	326	40
3ACD-0803-2KV	8	7	3	3 x 14	0.070	0.060	0.770	441	55
3ACD-0603-2KV	6	7	3	3 x 12	0.045	0.060	0.895	615	75
3ACD-0403-2KV	4	7	3	3 x 12	0.045	0.080	0.995	858	95
3ACD-0203-2KV	2	7	3	3 x 10	0.045	0.080	1.125	1,240.3	130
3ACD-1013-2KV	1/0	19	3	3 x 6	0.055	0.080	1.385	1,850	170
3ACD-2023-2KV	2/0	19	3	3 x 5	0.090	0.080	1.480	2,160	195
3ACD-4043-2KV	4/0	19	3	3 x 4	0.090	0.110	1.780	3,240	260
3ACD-3503-2KV	350	37	3	3 x 2	0.105	0.110	2.162	5,105	350
3ACD-5003-2KV	500	37	3	3 x 1	0.110	0.110	2.455	6,933	430

Variable-frequency Drive Cable

Belden VFD



XLPE insulation
PVC jacket
UL Listed Type TC
90°C , 1,000 V

SPECIFICATIONS

1. CONDUCTOR: Stranded, tinned copper per ASTM B-3, B-33
2. INSULATION: Cross-Linked Polyethylene (XLPE) per ICEA S-95-685 (NEMA WC70) meets UL requirements
3. COLOR CODE: Circuit conductors are coded per ICEA Method 4 (printed numbers)
4. ASSEMBLY: Copper tape shielded: 3-conductor stranded TC conductors plus three bare copper grounds. Foil/braid shielded: 3 stranded TC conductors plus one full-sized PVC insulated green ground. Full-sized TC drain
5. STANDARDS: Meets the UL requirements for Type TC cables having XHHW-2 conductors. Cables are listed for direct burial and meet the IEEE 1202, IEEE 383, and UL 1685, 70,000 Btu/hr flame tests as well as the ICEA T-29-520, 210,000 Btu/hr flame test. Foil/braid cables are also UL rated for 1,000 V Flexible Motor Supply Cable applications.
6. AMPACITY: Based on not more than three conductors in raceway or cable or earth per NEC Table 310.16 with a conductor temperature of 90°C and an ambient temperature of 30°C. All 4-conductor values have been derated per 2008 NEC Table 310.15(B)(2)(a)
7. TEMPERATURE: 90°C
8. VOLTAGE: 600 V / 1 kV

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 cables that are specifically designed for VFD applications in order to improve drive system reliability while negating the impact of RFI/EMI.

1 KV COPPER TAPE SHIELD

Anixter No.	Belden Part Number	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
3ACD-0103-1KV-B	29528	1	133	3	0.057	0.080	1.200	1,439	150
3ACD-1013-1KV-B	29529	1/0	133	3	0.057	0.080	1.290	1,843	170
3ACD-2023-1KV-B	29530	2/0	133	3	0.057	0.080	1.400	2,148	195
3ACD-3033-1KV-B	29531	3/0	133	3	0.057	0.080	1.520	2,538	225
3ACD-4043-1KV-B	29532	4/0	133	3	0.057	0.110	1.680	3,264	260

1 KV OVERALL FOIL PLUS 85% TC BRAID SHIELD

Anixter No.	Belden Part Number	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
2ACD-1603FB-1KV-B	29500	16	26	3	0.045	0.060	0.530	160	18
2ACD-1403FB-1KV-B	29501	14	41	3	0.045	0.070	0.600	190	25
2ACD-1203FB-1KV-B	29502	12	65	3	0.045	0.070	0.650	250	30
2ACD-1003FB-1KV-B	29503	10	105	3	0.045	0.070	0.690	350	40
3ACD-0803FB-1KV-B	29504	8	133	3	0.060	0.070	0.930	604	55
3ACD-0603FB-1KV-B	29505	6	133	3	0.060	0.080	1.020	810	75
3ACD-0403FB-1KV-B	29506	4	133	3	0.060	0.080	1.160	1,129	95
3ACD-0203FB-1KV-B	29507	2	133	3	0.060	0.080	1.340	1,630	130

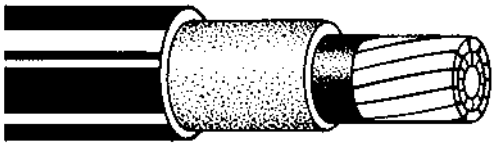
1 KV VFD WITH BRAKE PAIR

Anixter No.	Belden Part Number	Conductor Size AWG/kcmil	No. of Strands	No. of Conductors	Signal Pair Individually Shielded	Insulation Thickness (in.)	Overall Jacket Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
2ACD-1603+16-1PR-B	29510	16	26	3	16	0.030	0.075	0.75	259	18
2ACD-1403+16-1PR-B	29511	14	41	3	16	0.030	0.075	0.82	275	25
2ACD-1203+16-1PR-B	29512	12	65	3	16	0.045	0.080	0.90	373	30
2ACD-1003+16-1PR-B	29513	10	105	3	16	0.045	0.105	0.99	493	40

Jumper Cable

5-15 kV Jumper Cable Nonshielded

EPR insulation/jacket



SPECIFICATIONS

1. CONDUCTOR: Extra flexible, rope-stranded copper with a semi-conducting tape applied over the conductor
2. INSULATION: Red Ethylene Propylene Rubber (EPR) per ICEA S-96-659 (NEMA WC71)
3. AMPACITY: Based on insulated single conductor isolated in air with a conductor temperature of 90°C and an ambient temperature of 40°C per 2008 NEC Table 310.69
4. TEMPERATURE: 90°C
5. VOLTAGE: 5/15 kV

APPLICATIONS

Temporary jumper cables are intended for use as flexible power leads to by-pass portions of aerial power lines. They are also used in equipment where a nonshielded flexible cable is required.

Anixter No.	Conductor Size AWG	No. of Strands	Nominal Conductor Diameter (in.)	Insulation Thickness (in.)	Nominal O.D. (in.)	Approx. Wt. lb./1,000 ft.	Amps per Conductor
5R-0201	2	259	0.330	0.210	0.775	420	195
5R-0101	1	259	0.375	0.210	0.820	497	225
5R-1011	1/0	259	0.385	0.210	0.880	580	260
5R-2021	2/0	259	0.474	0.210	0.920	685	300
5R-4041	4/0	259	0.540	0.210	0.985	950	400
5R-3501	350	855	0.675	0.210	1.135	1,500	550
5R-5001	500	1235	0.840	0.210	1.290	2,055	685

Diameters and weights may vary among manufacturers.

Note: Jumper cables should not be used in place of shielded medium-voltage cables.
They should be used only in areas where contact with people and electrical grounds is limited.
Access to these cables must be limited to authorized personnel.

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 for the FT4/ST1 flame/smoke test, sizes 1/0 AWG and larger are UL "for CT Use" (Cable Tray) rated, 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, FT4, ST1

APPLICATIONS

Telecommunications power cable. The cables are designed for use in 600 V AC or DC circuits in telecommunications central offices, wireless sites, repeater stations, data centers and other UPS and power management systems. The cable can be installed in trays, racks, or conduit in horizontal and vertical applications.

Anixter No.	Conductor Size AWG/kcmil	Stranding No. Wires/ Wire Diam. (in.)	Conductor Dia (in.)	Insul. Min. Avg. Wall (mils.)	Nominal Insul. Diam. (in.)	Resistance at 20°C Ohms/1,000 ft.	Ampacity Per NEC Table 310.16 75°C	Ampacity Per NEC Table 310.16 90°C
3BALU-0801-XX	8	41/0.0201	0.156	60	0.295	0.6790	50	55
3BALU-0601-XX	6	65/0.0201	0.186	60	0.325	0.4360	65	75
3BALU-0401-XX	4	105/0.0201	0.263	60	0.405	0.2740	85	95
3BALU-0201-XX	2	168/0.0201	0.325	60	0.465	0.1720	115	130
3BALU-0101-XX	1	224/0.0201	0.390	80	0.570	0.1260	130	150
3BALU-1011-XX	1/0	266/0.0201	0.441	80	0.630	0.1090	150	170
3BALU-2021-XX	2/0	342/0.0201	0.500	80	0.690	0.0868	175	195
3BALU-4041-XX	4/0	532/0.0201	0.559	80	0.750	0.0546	230	260
3BALU-3501-XX	350	855/0.0201	0.705	95	0.925	0.0334	310	350
3BALU-5001-XX	500	1221/0.0201	0.870	95	1.100	0.0234	380	430
3BALU-7501-XX	750	1850/0.0201	1.050	110	1.300	0.0157	475	535

All part numbers require color code description.
See Color Code chart on page 9.29.

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 UL Listed "for CT use" (1/0 and larger) CSA 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, FT4, ST1

APPLICATIONS

Telecommunications power cable. The cables are designed for use in 600 V AC or DC circuits in telecommunications central offices, wireless sites, repeater stations, data centers and other UPS and power management systems. The cable can be installed in trays, racks, or conduit in horizontal and vertical applications.

Anixter No.	Conductor Size AWG/kcmil	Stranding No. Wires/Wire Diam. (in.)	Conductor Dia (in.)	Insul. Min. Avg. Wall (mils.)	Nominal Insul. Diam. (in.)	Nominal Braid Diam. (in.)	Resistance at 20°C Ohms/1,000 ft.	Ampacity Per NEC Table 310.16 75°C	Ampacity Per NEC Table 310.16 90°C
3BAL-1401-XX	14	7/0.0242	0.072	45	0.165	0.195	2.7300	20	25
3BAL-1201-XX	12	7/0.0305	0.090	45	0.185	0.215	1.7200	25	30
3BAL-1001-XX	10	7/0.0385	0.114	45	0.210	0.245	1.0800	35	40
3BAL-0801-XX	8	7/0.0486	0.144	60	0.270	0.310	0.6780	50	55
3BAL-0601-XX	6	7/0.0612	0.181	60	0.310	0.350	0.4270	65	75
3BAL-0401-XX	4	7/0.0772	0.228	60	0.355	0.395	0.2690	85	95
3BAL-0201-XX	2	7/0.0974	0.287	60	0.420	0.470	0.1690	115	130
3BAL-1011-XX	1/0	19/0.0745	0.367	80	0.545	0.595	0.1060	150	170
3BAL-2021-XX	2/0	19/0.0837	0.412	80	0.590	0.640	0.0840	175	195
3BAL-4041-XX	4/0	19/0.1055	0.520	80	0.695	0.745	0.0520	230	260
3BAL-3501-XX	350	37/0.0973	0.670	95	0.875	0.925	0.0320	310	350
3BAL-5001-XX	500	37/0.1162	0.800	95	1.005	1.055	0.0220	380	430
3BAL-7501-XX	750	61/0.1109	0.983	110	1.220	1.270	0.0148	475	535

All part numbers require color code designation.
See Color Code chart on page 9.29.

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 UL Listed "for CT use" (1/0 and larger) CSA 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, FT4, ST1

APPLICATIONS

Telecommunications power cable. The cables are designed for use in 600 V AC or DC circuits in telecommunications central offices, wireless sites, repeater stations, data centers and other UPS and power management systems. The cable can be installed in trays, racks, or conduit in horizontal and vertical applications.

Anixter No.	Conductor Size AWG/kcmil	Stranding No. Wires/Wire Diam. (in.)	Conductor Dia (in.)	Insul. Min. Avg. Wall (mils.)	Nominal Insul. Diam. (in.)	Nominal Braid Diam. (in.)	Resistance at 20°C Ohms/ 1,000 ft.	Ampacity Per NEC Table 310.16 75°C	Ampacity Per NEC Table 310.16 90°C
3BALI-0801-XX	8	41/0.0201	0.156	60	0.295	0.335	0.6790	50	55
3BALI-0601-XX	6	65/0.0201	0.186	60	0.325	0.365	0.4360	65	75
3BALI-0401-XX	4	105/0.0201	0.263	60	0.405	0.445	0.2740	85	95
3BALI-0201-XX	2	168/0.0201	0.325	60	0.465	0.520	0.1720	115	130
3BALI-1011-XX	1/0	266/0.0201	0.441	60	0.630	0.685	0.1090	150	170
3BALI-2021-XX	2/0	342/0.0201	0.500	60	0.690	0.740	0.0868	175	195
3BALI-4041-XX	4/0	532/0.0201	0.559	60	0.775	0.810	0.0546	230	260
3BALI-3501-XX	350	855/0.0201	0.705	95	0.940	0.990	0.0334	310	350
3BALI-5001-XX	500	1221/0.0201	0.870	95	1.100	1.150	0.0234	380	430
3BALI-7501-XX	750	1850/0.0201	1.050	110	1.300	1.370	0.0157	475	535

All part numbers require color code designation.
See Color Code chart below.

Telecom Cable Color Code

Code	Color
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

CASE STUDY | Contractor Gets Power Plant Running with Anixter's READY! To Install

READY! DEPLOYMENT SERVICES BY ANIXTER

READY!℠ Deployment Services by Anixter map our distribution and Supply Chain Solutions to the construction or deployment process of any technology project. We combine sourcing, inventory management, kitting, labeling, packaging and deployment services to simplify and address the material management challenges at the job site(s).

This project called for:

READY! KIT BY ANIXTER

READY!℠ To Install is a customized, full-service wire and cable management and delivery program.

Customer

Leading global provider of engineering and construction services

Challenge

Construction of a coal-fired, 660-megawatt power plant at a remote site

Solution

READY!℠ To Install

Results

- Helped to hold costs steady, regardless of commodity fluctuations
- Minimized risk of stolen material at the site by holding products in local distribution center
- Reduced cost of ownership
- Enabled customer to adjust material requirements and construction schedule

Anixter's product knowledge, dedicated inventory and just-in-time delivery capabilities provided the contractor with the flexibility to meet changes in construction planning and scheduling.