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Telephone Cables

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For ENATS 09-6 Telephony cables refer to Section 4.

Indoor/PVC/PVC CW 1308

Multipair Telephone Cables Indoor Unarmoured



Specifications

- In accordance with CW1308
- Solid plain copper conductors
- Solid PVC insulation
- Conductors twisted together in pairs
- Overall PVC sheath
- Conductor resistance (Maximum @ 20°C) 97.8 ohms/km
- Capacitance unbalanced (Maximum) 500 pF/500m
- Insulation resistance (Minimum @ 20°C) 50 Mohms/km

Anixter Number	BT Designation	Conductor Diameter Nominal mm	Number of Pairs	Nominal Overall Diameter mm	Approximate Cable Weight kg/km
A11P-P001-##	-	0.5	1	3.4	10
A11P-P002-##	-	0.5	2	4.5	20
A11P-P003-##	2503	0.5	3	4.8	30
A11P-P004-##	2504	0.5	4	5.4	35
A11P-P005-##	-	0.5	5	5.9	39
A11P-P006-##	2506	0.5	6	6.4	45
A11P-P010-##	2510	0.5	10	7.3	71
A11P-P015-##	2515	0.5	15	9.8	98
A11P-P020-##	2520	0.5	20	10.3	135
A11P-P025-##	2525	0.5	25	11.4	160

sheath colour codes use 01 - white, 02 - black.

BT designation - sheath colours are indicated with the following suffix:

A - cream, B - grey, F - white, G - black.

Colour code chart A (refer to end of section).

Indoor PVC/PVC CW 1308

Multipair Telephone Cables Indoor Unarmoured Unit Construction



Specifications

- In accordance with CW1308
- Solid plain copper conductors
- Solid PVC insulation
- Unit construction (20 pair unit or 10 pair half units as required)
- Integral (1.38mm PCW/PVC insulated) earth/continuity wire
- Overall PVC sheath
- Conductor resistance (Maximum @ 20°C) 97.8 ohms/km
- Capacitance unbalanced (Maximum) 500 pF/500m
- Insulation resistance (Minimum @ 20°C) 50 Mohms/km

Anixter Number	BT Designation	Conductor Diameter Nominal mm	Number of Pairs	Nominal Overall Diameter mm	Approximate Cable Weight kg/km
A11V-P010-##	2510E	0.5	10 + E	7.8	95
A11V-P020-##	2520E	0.5	20 + E	10.3	155
A11V-P040-##	2540E	0.5	40 + E	13.2	270
A11V-P050-##	2550E	0.5	50 + E	14.7	325
A11V-P060-##	-	0.5	60 + E	15.9	390
A11V-P080-##	2580E	0.5	80 + E	18.2	500
A11V-P100-##	2581E	0.5	100 + E	20.5	700
A11V-P160-##	2582E	0.5	160 + E	25.4	970
A11V-P200-##	-	0.5	200 + E	28.2	1225
A11V-P320-##	2584E	0.5	320 + E	35.0	1905

sheath colour codes use 01 - white, 02 - black.

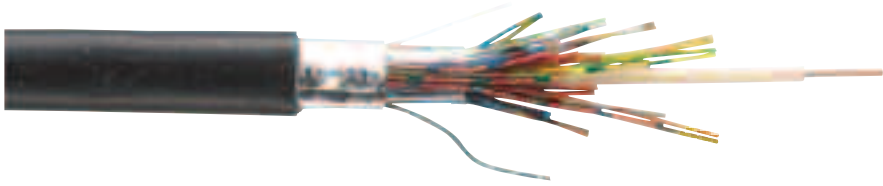
BT designation - sheath colours are indicated with the following suffix:

A - cream, B - grey, F - white, G - black.

Colour code chart A (refer to end of section).

Low Smoke No Halogen Indoor/Outdoor

External/Internal Telephone Cable Metallic Moisture Barrier



Specifications

- Solid plain copper conductors
- Solid PVC insulation
- Standard CW1308 colour code
- Aluminium, polyethylene laminated moisture barrier
- Low smoke no halogen sheath (black)
- Conductor resistance (Maximum) @ 20°C 97.8 ohms/km
- Capacitance unbalanced (Maximum) 500 pF/500m
- Insulation resistance (Minimum @ 20°C) 50 Mohms/km

Anixter Number	Conductor Diameter Nominal mm	Number of Pairs	Nominal Overall Diameter mm	Approximate Cable Weight kg/km
A11DA-P010-02	0.5	10 + E	10.5	150
A11DA-P020-02	0.5	20 + E	13.0	225
A11DA-P040-02	0.5	40 + E	15.5	340
A11DA-P050-02	0.5	50 + E	16.5	400
A11DA-P060-02	0.5	60 + E	18.0	460
A11DA-P080-02	0.5	80 + E	20.5	585
A11DA-P100-02	0.5	100 + E	21.5	700
A11DA-P160-02	0.5	160 + E	26.5	1050
A11DA-P320-02	0.5	320 + E	35.5	1920

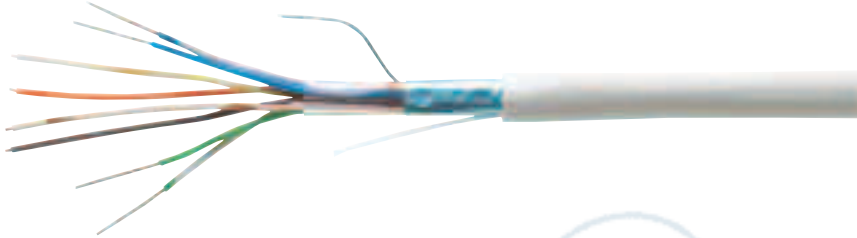
Integral (1.38mm PCW/PVC insulated) earth/continuity wire.

Unit construction.

Colour code chart A (refer to end of section).

Indoor Screened

Indoor Telephone Cable Low Fire Hazard



Specifications

- Solid tinned copper conductors
- Polyethylene insulation
- Poly-aluminium tape screen
- 10-40 pair low fire hazard woven glass tape
- White halogen free thermoplastic jacket
- Conductor resistance (Maximum @ 20°C) 98 ohms/km
- Mutual capacitance (Maximum) 80 pF/m
- Capacitance unbalanced (Maximum) 500 pF/500m
- Insulation resistance (Minimum @ 20°C) 50 Mohms/km

Anixter Number	Conductor Diameter Nominal mm	Number of Pairs	Nominal Overall Diameter mm	Approximate Cable Weight kg/km
A11CW-P004-01	0.5	4	5.4	38
A11CW-P010E-01	0.5	10 + E	8.7	112
A11CW-P020E-01	0.5	20 + E	10.8	172
A11CW-P040E-01	0.5	40 + E	14.7	350

Similar to BT CW1600.

Integral (1.38mm PCW/PVC insulated) earth/continuity wire.

Other pair counts available upon request.

Colour code chart A (refer to end of section).

External Duct PE Unarmoured CW 1128

External Telephone Cable P.J. Filled



Specifications

- In accordance with CW1128
- Solid bare copper conductors
- Cellular polyethylene insulation
- Petroleum jelly water blocking compound
- Black polyethylene jacket
- Conductor resistance (Maximum Average @ 20°C) 91 ohms/km
- Mutual capacitance (Maximum Average) 56 pF/m
- Insulation resistance (Minimum) 1500 Mohms/km
- Capacitance unbalanced (Maximum) 275 pF/500m

Anixter Number	Conductor Diameter Nominal mm	Number of Pairs	Nominal Overall Diameter mm	Approximate Cable Weight kg/km
A11-G02-0058	0.5	2	5.8	45
A11-G05-0078-02	0.5	5	6.9	55
A11-G10-0088-02	0.5	10	8.1	80
A11-G20-0108-02	0.5	20	10.3	140
A11-G30-0185-02	0.5	30	12.3	190
A11-G50-0153-02	0.5	50	14.5	300
A11-G10-0201-02	0.5	100	19.5	570

Colour code chart B (refer to end of section).

Direct Buried Single Wire Armoured CW 1128/1198

External Telephone Cable P.J. Filled



Specifications

- In accordance with CW1128/1198
- Solid bare copper conductors
- Cellular polyethylene insulation
- Petroleum jelly water blocking compound
- Galvanised steel wire armour
- Black polyethylene jacket
- Conductor resistance (Maximum Average @ 20°C) 91 ohms/km
- Mutual capacitance (Maximum Average) 56 pF/m
- Insulation resistance (Minimum) 1500 Mohms/km
- Capacitance unbalanced (Maximum) <275 pF/500m

Anixter Number	Conductor Diameter Nominal mm	Number of Pairs	Maximum Overall Diameter mm	Approximate Cable Weight kg/km
A11-H05-0119-02	0.5	5	13.2	225
A11-H10-0133-02	0.5	10	14.7	265
A11-H20-0149-02	0.5	20	17.2	365
A11-H50-0210-02	0.5	50	23.3	860
A11-H10-0260-02	0.5	100	29.0	1280

Colour code chart B (refer to end of section).

Twisted Pair Type D10, Mark 4, Field Telephone Cable

(Picture Unavailable)

Specifications

- In accordance with DEF STAN 61-12 Part 12, Section 3, Issue 2
- Stranded 7/0.28mm composite conductors comprising of 4 x hard drawn tinned copper wires and 3 x grade 175, Z galvanised steel wires
- Black polyethylene insulation
- Clear abrasion resistant nylon sheath
- Two cores twisted to form pair, 125mm R/H lay
- -40 to +70°C temperature range
- Conductor resistance (Maximum @ 20°C) 151 ohms per loop km
- Insulation resistance (Minimum @ 20°C) 3500 Mohms per km of cable

N.S.N	Anixter Number	Nominal Cond Area mm ²	Nominal Conductor Stranding #/mm	Insulation Thickness mm	Sheath Thickness mm	Nominal Cable O/D mm	Approximate Cable Weight kg/km	Minimum Breaking Load (per leg) N
6145-99-648-0813	A10DW-648-0813	0.43	7/0.28	0.45	0.15	2.15 x 4.30	13	390

Chart A - CW1308

Pair Number	Colour of Insulation	
	A - wire	B - wire
1	White-Blue	Blue-White
2	White-Orange	Orange-White
3	White-Green	Green-White
4	White-Brown	Brown-White
5	White-Grey	Grey-White
6	Red-Blue	Blue-Red
7	Red-Orange	Orange-Red
8	Red-Green	Green-Red
9	Red-Brown	Brown-Red
10	Red-Grey	Grey-Red
11	Black-Blue	Blue-Black
12	Black-Orange	Orange-Black
13	Black-Green	Green-Black
14	Black-Brown	Brown-Black
15	Black-Grey	Grey-Black
16	Yellow-Blue	Blue-Yellow
17	Yellow-Orange	Orange-Yellow
18	Yellow-Green	Green-Yellow
19	Yellow-Brown	Brown-Yellow
20	Yellow-Grey	Grey-Yellow
21	Violet-Blue	Blue-Violet
22	Violet-Orange	Orange-Violet
23	Violet-Green	Green-Violet
24	Violet-Brown	Brown-Violet
25	Violet-Grey	Grey-Violet

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Colour Coding

CW1308 Unit Identification/Construction

Pair Size	40 PR	50 PR	60 PR	80 PR	100 PR	160 PR	200 PR	320 PR
Centre	4 x 10 PR	5 x 10 PR	6 x 10 PR	1 x 20 PR	5 x 20 PR	4 x 10 PR	3 x 20 PR	1 x 20 PR
1st layer				6 x 10 PR		6 x 20 PR	7 x 20 PR	5 x 20 PR
2nd layer								10 x 20 PR
Unit Number	Colours of Unit Lappings							
1	Orange	Orange	Orange	Orange	Orange	Orange	Orange	Orange
2	Orange	Orange	Orange	Orange	Natural	Orange	Natural	Orange
3	Green	Natural	Natural	Orange	Natural	Green	Green	Natural
4	Green	Natural	Natural	Natural	Natural	Green	Orange	Natural
5		Green	Green	Natural	Green	Orange	Natural	Natural
6			Green	Green		Natural	Natural	Green
7				Green		Natural	Natural	Orange
8						Natural	Natural	Natural
9						Natural	Natural	Natural
10						Natural	Green	Natural
11 - 15						Natural		Natural
16						Green		Green

Chart B - CW1128

Pair Number	Colour of Insulation	
	A - wire	B - wire
1	White	Blue
2	White	Orange
3	White	Green
4	White	Brown
5	White	Grey
6	Red	Blue
7	Red	Orange
8	Red	Green
9	Red	Brown
10	Red	Grey

Unit Number	Binder Colour	Unit Number	Binder Colour
1	Blue	6	White
2	Orange	7	Red
3	Green	8	Black
4	Brown	9	Yellow
5	Grey	10	Violet

Over 10 pair cable counts laid up in 5 or 10 pair units with coloured binder tapes.

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