

TELEPHONE CABLES

10

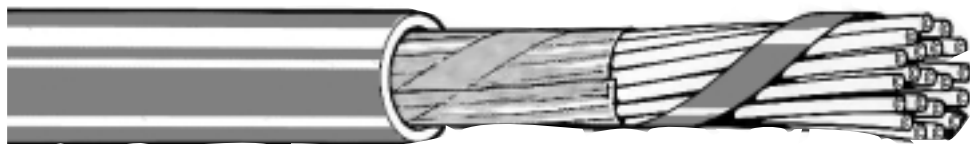
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For ESI Telephony/Telemetry cables refer to Section 4

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 (Max @ 20°C) 97.8ohms/km
- Capacitance Unbalanced (Max) 500pF/500m
- Insulation resistance (Min @ 20°C): 50Mohms/km

Anixter Part No.	BT Designation	Conductor Dia. Nom (mm)	No. of Pairs	Nom overall Diameter (mm)	Approx. Cable Weight (kg/km)
A11P-P001-XX	-	0.5	1	3.4	10
A11P-P002-XX	-	0.5	2	4.5	20
A11P-P003-XX	2503	0.5	3	4.8	30
A11P-P004-XX	2504	0.5	4	5.4	35
A11P-P005-XX	-	0.5	5	5.9	39
A11P-P006-XX	2506	0.5	6	6.4	45
A11P-P010-XX	2510	0.5	10	7.3	71
A11P-P015-XX	2515	0.5	15	9.8	98
A11P-P020-XX	2520	0.5	20	10.3	135
A11P-P025-XX	2525	0.5	25	11.4	160

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

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

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

Colour code chart A (refer to page 10:14)

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 (Max @20°C) 97.8ohms/km
- Capacitance unbalanced (Max) 500pF/500m
- Insulation resistance (Min @20°C) 50M ohms/km

Anixter Part No.	BT Designation	Conductor Dia. Nom (mm)	No. of Pairs	Nom overall Diameter (mm)	Approx. Cable Weight (kg/km)
A11V-P010-XX	2510E	0.5	10+E	7.8	95
A11V-P020-XX	2520E	0.5	20+E	10.3	155
A11V-P040-XX	2540E	0.5	40+E	13.2	270
A11V-P050-XX	2550E	0.5	50+E	14.7	325
A11V-P060-XX	-	0.5	60+E	15.9	390
A11V-P080-XX	2580E	0.5	80+E	18.2	500
A11V-P100-XX	2581E	0.5	100+E	20.5	700
A11V-P160-XX	2582E	0.5	160+E	25.4	970
A11V-P200-XX	-	0.5	200+E	28.2	1225
A11V-P320-XX	2584E	0.5	320+E	35.0	1905

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

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

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

Colour code chart A (refer to page 10:14)

Low Smoke Halogen Free 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 zero halogen sheath (black)
- Conductor resistance (Max @ 20°C) 97.8 ohms/km
- Capacitance Unbalanced (Max) 500pF/500m
- Insulation resistance (Min @ 20°C) 50 Mohms/km

Anixter Part No.	Conductor Dia. Nom (mm)	No. of Pairs	Nom overall Diameter (mm)	Approx 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

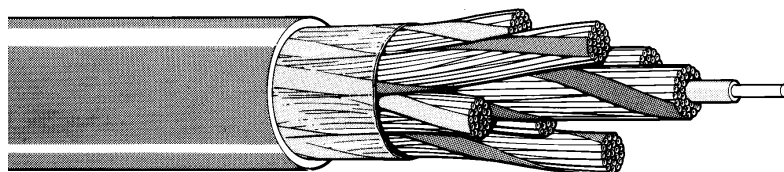
Integral (1.38mm PCW/PVC insulated) earth/continuity wire.

Unit construction

Colour code chart A (refer to page 10:14)

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 (Max @ 20°C) 98 ohms/km
- Mutual capacitance (Max) 80 pF/m
- Capacitance unbalanced (Max) 500 pF/500m
- Insulation resistance (Min @ 20°C) 50 Mohms/km

Anixter Part No.	Conductor Dia. Nom (mm)	No. of Pairs	Max overall Diameter (mm)	Approx 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

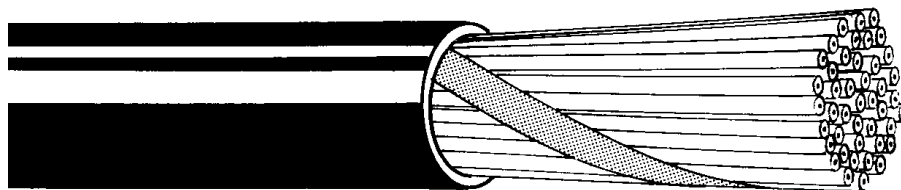
Integral (1.38mm PCW/PVC insulated) earth/continuity wire.

Other pair counts available upon request

Colour code chart A (refer to page 10:14)

External Duct PE Unarmoured CW 1128

External Telephone Cable P.J. Filled



SPECIFICATIONS

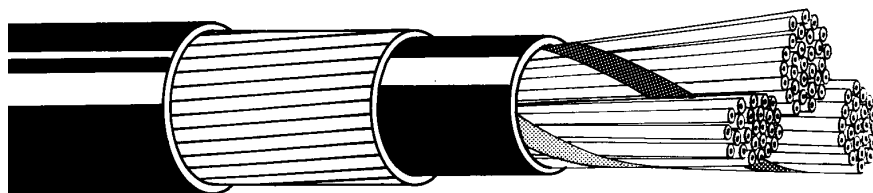
- Inaccordance with CW1128D
- Solid bare copper conductors
- Cellular polyethylene insulation
- Petroleum jelly water blocking compound
- Black polyethylene jacket
- Conductor resistance (Max Average @20°C) 91ohms/km
- Mutual capacitance (Max Average) 56 pF/m
- Insulation resistance (Min) 1500M ohms/km
- Capacitance unbalanced (Max) 275pF/500m

Anixter Part No.	Conductor Dia. Nom (mm)	No. of Pairs	Max overall Diameter (mm)	Approx 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 page 10:16)

Direct Buried Single Wire Armoured CW 1128/1198

External Telephone Cable P.J. Filled



SPECIFICATIONS

- Inaccordance with CW1128D/1198D
- Solid bare copper conductors
- Cellular polyethylene insulation
- Petroleum jelly water blocking compound
- Galvanised steel wire armour
- Black polyethylene jacket
- Conductor resistance (Max Average @20°C) 91ohms/km
- Mutual Capacitance (Max Average) 56 pF/m
- Insulation resistance (Min) 1500M ohms/km
- Capacitance unbalanced (Max) <275pF/500m

Anixter Part No.	Conductor Dia. Nom (mm)	No. of Pairs	Max overall Diameter (mm)	Approx 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

For diameter under armour see unarmoured CW1128D
Colour code chart B (refer to page 10:16)

External Aerial CW 1128/1252

Self Supporting Telephone Cable



SPECIFICATIONS

- In accordance with CW1128D/CW1252D
- Solid bare copper conductors
- Cellular polyethylene insulation
- Petroleum jelly water blocking compound
- Black polyethylene jacket
- Figure 8 construction

Anixter Part No.	Conductor Dia. Nom (mm)	No. of Pairs	Sheathed Catenary Wire dia. (mm)	Sheathed Cable dia. (mm)	Approx Cable Weight (kg/km)
A11AS-P010	0.5	10	5.7	8.1	120
A11AS-P020	0.5	20	5.9	10.3	200

Catenery wire diameter nom. 2.65mm
 Colour code chart B (refer to page 10:16)

For cable electricals refer to CW1128 cables on page 10:6

Functional Earth

FUNCTIONAL EARTH 

SPECIFICATIONS

- Manufactured in accordance with CW1044B
- Bare copper conductors
- Cream PVC jacket

Anixter Part No.	Conductor Size (mm ²)	Conductor Stranding (mm)	Approx Cable Weight (kg/km)
A11CV-1015	1.5	1/1.38	11
A11CV-1025	2.5	7/0.67	13
A11CV-1040	4.0	7/0.85	15
A11CV-1060	6.0	7/1.04	17
A11CV-1100	10.0	7/1.35	21
A11CV-1160	16.0	7/1.70	25

For conductor resistances refer to page 13:25 for Stranded Class 2 Conductors.

Drop Wires

Drop Wire No.6

APPLICATION

For connection of subscribers distribution point to external overhead distribution point

SPECIFICATIONS

- Inaccordance with CW1247
- Solid copper covered steel conductors
- Black PVC insulation

Anixter Part No.	Conductor Area (mm ²)	Conductor Size No (mm)	Overall Diameter (mm)
T3-DW-AA-XX	0.52	1/0.81	5.4 x 2.5

Drop Wire No.10

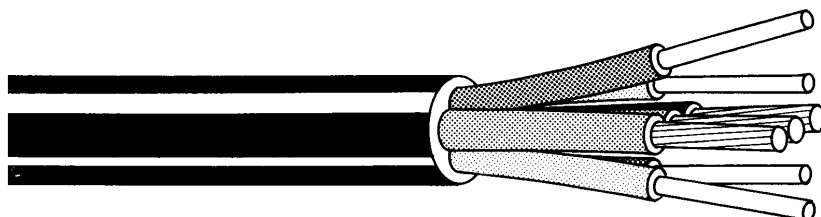
APPLICATION

For the overhead distribution points to the subscribers installation.

SPECIFICATIONS

- Inaccordance with CW1378
- Solid bare copper conductors
- PVC insulated
- Two twisted pairs
- Insulated brass plated steel strength member

Anixter Part No.	Conductor Area (mm ²)	Conductor Size No (mm)	Overall Diameter (mm)	Resistance 20°C
T3-DW-AB-XX	0.20	1/0.5	5.5	93 ohms/km



Equipment Wire

CW1109

SPECIFICATIONS

- In accordance with CW1109
- Solid tinned copper conductor
- PVC insulated

Anixter Part No.	Conductor Stranding (#/mm)	Conductor Colours	Conductor Count
500334	1/0.5	Blue/Yellow	2

CW1257

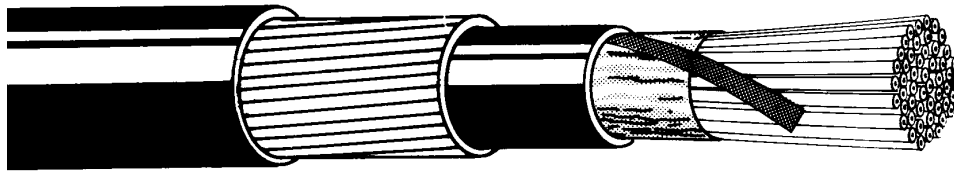
SPECIFICATIONS

- In accordance with CW1257
- Soft tinned copper conductor
- PVC insulated

Anixter Part No.	Conductor Stranding (#/mm)	Conductor Colours	Conductor Count
A11BT-C002-34	1/0.5	Black/yellow	2
A11BT-C002-38	1/0.5	Red/blue	2
A11BT-C002-61	1/0.5	Green/white	2
A11BT-C002-69	1/0.5	Red/white	2
A11BT-C002-76	1/0.5	Blue/yellow	2
A11BT-C004-900	1/0.5	Red/black/white/green	4

Subscriber to Exchange Cables

BS3573:1990



SPECIFICATIONS

- In accordance with BS3573:1990
- Solid bare copper conductor
- Cellular polyethylene insulation
- PJ filled
- Aluminium tape screen
- Polyethylene sheathed
- Galvanised single wire armour
- Black PVC jacket
- Conductor resistance (Max @ 20°C) 28 ohms/km
- Mutual capacitance (Max average) 59 pF/m
- Insulation resistance (Min) 1500 Mohms/km
- Capacitance unbalanced (Max) 275 pF/500m

Anixter Part No.	Conductor Dia. Nom (mm ²)	No. of Pairs	Max Dia Under Armour (mm)	Max overall Dia. (mm)	Approx Cable Weight (kg/km)
A11CT-P005-02	0.9	5	11.5	17.0	430
A11CT-P010-02	0.9	10	14.0	20.0	760
A11CT-P015-02	0.9	15	16.0	22.5	950
A11CT-P020-02	0.9	20	18.0	24.5	1085
A11CT-P050-02	0.9	50	26.5	34.5	2600

Colour code chart C (refer to page 10:17)

TWISTED PAIR TYPE D10, MARK 4, FIELD TELEPHONE CABLE

(PICTURE UNAVAILABLE)

SPECIFICATIONS

- In accordance with DEF STAN 61-12 Part 12, Section 3, Issue 1.
- Stranded 7/0.28mm composite conductors comprising of 4 x hard drawn tinned copper wires and 3 x grade 1770 steel wires.
- Black polyethylene insulation.
- Clear abrasion resistant nylon sheath.
- Two cores twisted to form pair, 12.5mm R/H lay.
- -40 to +70° C temperature range.
- Conductor resistance (Max @ 20°C) 151 ohms per loop km.
- Insulation resistance (Min @ 20°C) 3500 megohms per km of cable.

N.S.N.	Anixter Part No.	Nom. Cond. Area	Nominal Conductor Stranding	Insulation Thickness	Sheath Thickness	Nominal Cable O/D	Approx Cable Weight	Min. Breaking Load (per leg)
		mm ²	#/mm	mm	mm	mm	kg/km	N
6145-99-	A10DW-							
648-0813	648-0813	0.43	7/0.28	0.45	0.15	2.15 x 4.30	13	390

Colour Coding

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

TELEPHONE CABLES

CW1308 UNIT IDENTIFICATION/CONSTRUCTION

Pair Size	45 PR	50 PR	60 PR	80 PR	100 PR	160 PR	200 PR	320 PR
Centre	4 x 10 PR	5 x 10PR	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 - CW1128D

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 layed up in 5- or 10-pair units with coloured binder tapes

Colour Coding

CHART C

BS3573:1990

	Colour of Insulation
1st Pair	Orange/White
2nd Pair Even	Red/Grey
3rd Pair Odd	Blue/Brown
Last Pair	Green/Black

1st Pair used as marker

Alternate pairs as 2nd and 3rd

Last pair used as marker