

Application

The cable is designed primarily for direct burial in the 'D' or Secondary side of local telecommunications networks.

The cable core comprises units of cellular polyethylene insulated twin conductors flooded with petroleum jelly and wrapped with a paper tape. The cable core is then covered with an aluminium/polymer-coated tape applied longitudinally over the paper core wrap of the inner cable acting as a moisture barrier (Compliant with BT Specification CW1179). The moisture barrier is bonded to the inner polyethylene sheath.

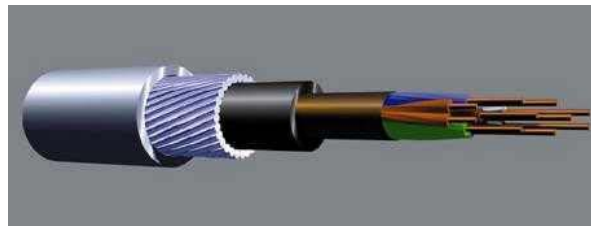
A layer of galvanised steel armour wires is then applied over the inner sheathed cable and an outer sheath of polyethylene is applied over the armour wires. Compliant with BT Specification CW1198).

The product is also available with filling compound suitable for tropical climates with a drop point greater than 80°C.

Construction

Twisted pairs in 10 Pair Units. The pair range is 2 – 100.

No. Pairs	Cu Size (mm)	Nom Ins Dia (mm)	Min Sheath Radial	Resistance @ 20°C (ohms/km)		Mutual Capacitance (nF/km)		Maximum Overall Diameter (mm)	
				Max Ave	Max (99%)	No Screen	With Screen	Armoured	
								No Screen	With Screen
50	0.60	1.300	1.1	63	67	42	46	31.0	32.5



Product Description

Plain annealed solid copper wire, cellular polyethylene insulation, twisted pairs, petroleum jelly filling, paper core wrap and black low-density polyethylene sheath. The armour is used as additional protection of telecommunication cables for direct burial. The jelly filled or air core cable is armoured with a suitable number of galvanised mild steel wires applied directly over the polyethylene sheath of the cable. The wires shall comply with BS EN 10257 Part 1 except that the tensile strength shall be not less than 340 MN/m² and not greater than 540 MN/m². The value of resistivity for the armour is not mandatory. The cable is then sheathed overall with polyethylene or PVC.

Insulation Resistance

Insulation resistance measurements shall be made with not less than 500 volts D.C. After steady electrification for one minute the insulation resistance measured between each conductor and the remaining conductors connected together shall be not less than 1500 megohms per 1000 metres at 20°C.

Capacitance Unbalance

Not more than 1% of the corrected capacitance unbalance measurements between adjacent pairs shall exceed the following values:

Two-Pair (Quad) Cable 800pF. All other sizes 275pF.

CW1128 Pair Colour Scheme, Unit Binder Colours and Cable Make-up

Cabling Element No.	a-wire	b-wire	Unit Number	Binder Colour	Cable Size	No. and Pair Size of Unit in Centre and 1 st Layer	
						Centre	1 st layer
1	WHITE	BLUE	1	BLUE	2	1 x 2	-
2	WHITE	ORANGE	2	ORANGE	5	1 x 5	-
3	WHITE	GREEN	3	GREEN	10	1 x 10	-
4	WHITE	BROWN	4	BROWN	20	4 x 5	-
5	WHITE	GREY	5	GREY		2 x 10	-
6	RED	BLUE	6	WHITE	50	5 x 10	-
7	RED	ORANGE	7	RED		1 x 10	4 x 10
8	RED	GREEN	8	BLACK	100	2 x 10	8 x 10
9	RED	BROWN	9	YELLOW		3 x 10	7 x 10
10	RED	GREY	10	VIOLET		4 x 5	8 x 10

Note: The two pair cable is manufactured as a quad, coloured Orange, Green, White, Black in order of rotation.