

Domestic Side Local Network Telecom Cable

PACW/Cell PE Insulation/PJ Filled/PE Sheathed/Steel Wire Armour/PE Oversheath
External Telephone Cable (Complies with BT Specifications CW1128/CW1198)



CW1128/1198 (with armour but no screen) / 0.50Cu

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 a black polyethylene inner sheath. A layer of galvanised steel armour wires is then applied over the inner sheathed cable and an outer sheath of PE is applied over the armour wires. Compliant with BCC Specification CW1198). The product is also available with a PVC outer sheath in lieu of polyethylene and with filling compound suitable for tropical climates with a drop point greater than 80°C.

Construction

Available as twisted pairs in 10 Pair Units with range from 2 to 100.

Product description

Plain annealed solid copper wire, cellular polyethylene insulation, twisted pairs, petroleum jelly filling, paper core wrap, black low-density polyethylene sheath. The armour is used as additional protection of telecommunication cables for direct burial.

Product description (Continued)

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 PE or polyethylene.



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%)	Max Ave	Max (99%)	
2	0.50	0.90	1.1	91	96	56	64	12.7
5	0.50	0.90	1.1	91	96	56	64	13.2
6	0.50	0.90	1.1	91	96	56	64	13.8
10	0.50	0.90	1.1	91	96	56	64	14.7
20	0.50	0.90	1.2	91	96	56	64	17.2
50	0.50	0.90	1.3	91	96	56	64	23.3
100	0.50	0.90	1.4	91	96	56	64	29.0

N.B. : For screened cables of 20 pairs or less the maximum average mutual capacitance shall not apply and the maximum for 99% of cases shall be increased by 3nF.

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 1st Layer	
						Centre	1st 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	30	3 x 10	-
7	RED	ORANGE	7	RED			
8	RED	GREEN	8	BLACK			
9	RED	BROWN	9	YELLOW			
10	RED	Grey	10	VIOLET			

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



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