

PeT Solid Local Network Cable

PACW/solid polyethylene insulation/PJ filled/polyethylene sheath
External Telephone Cable (Complies with BT Specification CW1326)

CW1326- Solid insulation, jelly filled

Application

The cable is designed primarily for installing in ducts in the 'D' or Secondary side of local telecommunications networks. If required by the customer, the cable can be supplied with an aluminium/polymer-coated tape applied longitudinally over the paper core wrap acting as a moisture barrier. There are various other options available including a figure of eight type sheathed cable incorporating a steel support strand for use in aerial applications, and a galvanised steel wire armoured version suitable for direct burial.

Construction

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

Product description

Plain annealed solid copper wire, solid polyethylene insulation, twisted pairs, petroleum jelly filling, paper core wrap and black low-density polyethylene sheath.



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%)	Unarmoured		Armoured	
								No Screen	With Screen	No Screen	With Screen
2	0.50	1.05	1.1	91	96	56	64	8.5	10.0	13.7	15.2
5	0.50	1.05	1.2	91	96	56	64	8.5	10.0	13.7	15.2
10	0.50	1.05	1.2	91	96	56	64	12.0	13.5	17.2	19.4
20	0.50	1.05	1.3	91	96	56	64	15.0	16.5	20.9	23.3
30	0.50	1.05	1.4	91	96	56	64	18.0	19.5	24.8	26.3
50	0.50	1.05	1.4	91	96	56	64	19.5	21.0	26.3	28.0
100	0.50	1.05	1.5	91	96	56	64	25.0	26.5	32.0	34.5

Note 1: 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.

Note 2: For screened cables the maximum overall diameter may be increased by 1.5mm.

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 1500megohms 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.

CW1326 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	1 x 10	4 x 5
7	RED	ORANGE	7	RED		1 x 5	5 x 5
8	RED	GREEN	8	BLACK	50	3 x 10	-
9	RED	BROWN	9	YELLOW		2 x 10	4 x 10
10	RED	GREY	10	VIOLET	100	2 x 10	8x 10
						3 x 10	7 x 10
						4 x 5	8x 10

Note: Options for the 2 pair cable are - Manufactured as a pair cable with cabling elements coloured as above. Manufactured as a quad, coloured Orange Green, White, Black in order of rotation.