

# Domestic Side Local Network Telecom Cable

PACW/Cell PE Insulation/PJ Filled/Moisture Barrier/PE Sheathed/

Steel Wire Armour/PE Oversheath

External Telephone Cable (Complies with BCC Specifications CW1128,1179 and 1198)



## CW1128/1179/1198 (with screen and armour) / 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 BT 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

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

### Product description

Plain annealed solid copper wire, cellular polyethylene insulation, twisted pairs, petroleum jelly filling, paper core wrap and black lowdensity 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%)	
2	0.50	0.90	1.1	91	96	56	64	14.2
5	0.50	0.90	1.1	91	96	56	64	14.7
6	0.50	0.90	1.1	91	96	56	64	15.3
10	0.50	0.90	1.1	91	96	56	64	16.9
20	0.50	0.90	1.2	91	96	56	64	19.4
50	0.50	0.90	1.3	91	96	56	64	24.8
100	0.50	0.90	1.4	91	96	56	64	30.5

**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	25	1 x 5	2 x 10
7	RED	ORANGE	7	RED	50	5 x 10	
8	RED	GREEN	8	BLACK		1 x 10	4 x 10
9	RED	BROWN	9	YELLOW	100	2 x 10	8 x 10
10	RED	Grey	10	VIOLET		3 x 10	7 x 10
						4 x 5	8 x 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.



British Cables Company Limited, Delaunays Road, Blackley, Manchester, M9 8FP, United Kingdom

Tel: +44 (0) 161 741 2345 | Fax: +44 (0) 161 795 8393 | Web: www.britishcablescompany.com | Email: info@britishcables.com

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