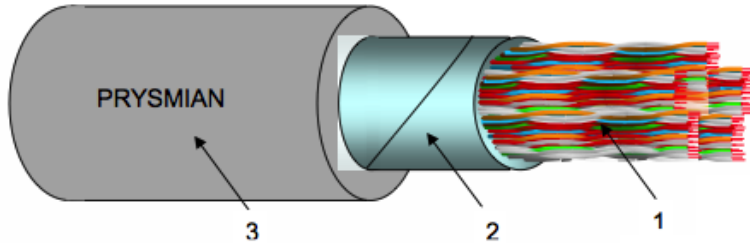


Cable Inter Connection

Specification CW1601 ISSUE 5 (2009)

Cable design



- 1 Pairs with PE insulated
- 2 Wrapping
- 3 Outer LSOH sheath

Cable construction

Conductor	Copper wire, diameter 0.5mm
Insulation	Solid PE Minimum thickness 0.15mm Maximum diameter 0.95mm
Cabling element	Two insulated conductors twisted together to form a pair
Pair identification	The pairs shall be identified with a colour scheme as shown in table 1
Stranding of pairs	Subunits of 10 pairs
Cable core wrapping	Synthetic tape longitudinally or helically applied
Rip cord	
Sheath	LSOH, minimum thickness 1.0mm
Colour	Grey RAL 9018
Diameter	Maximum 23.5mm
Weight	Approx. 570kg
Sheath marking:	--I 0020 m = PGH TPK wyyyyy 28498 CW1601 100pr/0.5 Property of BT plc ww : week of production yyyy : year of production 0020 m : cable length

Electrical properties at 20 °C

Conductor resistance in D.C.	Ohm/km	Max. ≤ 97.8
Insulation resistance	Mohmxkm	≥ 50
Mutual capacitance	nF/km	Nominal 50
Capacitance unbalance at 800-1000Hz	pF/500km	≤ 500
Characteristic impedance 1-20 MHz	Ohm	100 ± 15

Attenuation

1 MHz	dB/100m	2.6
4 MHz	dB/100m	5.6
8 MHz	dB/100m	8.5
10 MHz	dB/100m	9.8
16 MHz	dB/100m	13.1

NEXT crosstalk attenuation

1 MHz	dB	≥ 62.0
4 MHz	dB	≥ 53.0
8 MHz	dB	≥ 48.5
10 MHz	dB	≥ 47.0
16 MHz	dB	≥ 44.0
20 MHz	dB	≥ 42.5

Flame Propagation	Flame propagation will be in accordance with IEC 60332-1-2
Smoke Emission	Smoke emission will be in accordance with IEC 61034-2
Acid Gas Emission	Acid Gas Emission will be in accordance with IEC 60754-1 and IEC 6-754-2

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Table 1: Colour Scheme 100 pairs of 0.51 mm (10X10P construction)

Pairs no.	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
11	black	blue
12	black	orange
13	black	green
14	black	brown
15	black	grey
16	yellow	blue
17	yellow	orange
18	yellow	green
19	yellow	brown
20	yellow	grey

The **subunit identification** (lapping colour) will be the following:

Subunit no.	Identification colour	Pair count
1	Blue	1-10
2	Blue	11-20
3	Orange	1-20
4	Orange	11-20
5	Green	1-10
6	Green	11-20
7	Brown	1-10
8	Brown	11-20
9	Grey	1-10
10	Grey	11-20