

Construction

1 Conductor	Solid Bare Copper
Diameter	AWG 23
2 Insulation Color Code	Solid PE
Diameter (mm)	1.33 ±0.10
Pair 1	Blue/White-Blue
Pair 2	Orange/White-Orange
Pair 3	Green/White-Green
Pair 4	Brown/White-Brown
3 Al-Pet Foil (on each pair, Al outside)	
Coverage	≥115%
4 Drain Wire	
5 Shielding	Al / PES
Coverage	>100%
6 Outer Sheath	LSZH
Thickness (mm)	0.5
Diameter (mm)	2x7.30 ±0.40
Color	Green - RAL 6018
	Color on request

Standards

ISO/IEC 11801-1:2017 (Ed. 1.0) / ISO/IEC 11801-2:2017 (Ed. 1.0)
 IEC 61156-5:2012 (Ed. 2.1)
 EN 50173-1:2011 / EN 50173-2:2007 Including amendment A1:2010
 EN 50288-5-1:2013 - ANSI/TIA-568-C.2: 2009
 IEE 802.3 A-NEXT/ISO 24750 A-FEXT

The alien NEXT or alien FEXT coupled into a link segment is specified as the power sum of the individual alien NEXT or alien FEXT disturbers. The link segment shall meet the values determined using Equation (xx) dB.

ANEXT(f) ≥ =37.5-17*log(fMHz/20) (dB)
 AFEXT(f) ≥ =38-18*log(fMHz/20) (dB)


Euroclass Cca s1d1a1

Electrical Characteristics

Characteristics Impedance (Ω)	100 ± 15
@ 1~250 MHz (Ω)	100 ± 25
@ 250~500MHz (Ω)	95
Conductor DC Resistance @ 20°C (Ω/km)	75%
Nominal Velocity of Propagation	

	Attenuation	Return Loss	NEXT
4 MHz	3.8	23.00	66.3
10 MHz	5.9	25.00	60.3
16 MHz	7.5	25.00	57.2
25 MHz	9.4	25.00	54.3
31.25 MHz	10.5	23.6	52.9
100 MHz	19.1	20.1	45.3
200 MHz	27.6	18.0	40.8
250 MHz	31.1	17.3	39.3
300 MHz	34.3	17.3	38.1
400 MHz	40.1	17.3	36.3
500 MHz	45.3	17.3	34.8

Marking

B-CABLES **SMART  LINE** EN50575 Cca s1d1a1 DOP-BSYXXX-2X4 PAIRS
 AWG23 F/FTP CAT 6A 500MHZ – 100 OHM –ISO11801/TIA-EIA
 568-B.2 CE LSZH F2 SA SD 001M

