SMART LINE

CAT 6A F/FTP LSZH Cca s1d1a1

100Ω F/FTP 4 PAIRS 500 MHZ CABLE

www.b-cables.be

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)	7.30 ±0.40
	Color	Green - RAL 6018 Color on request

Marking

B-CABLES SMART LINE EN50575 $C_{CA\ S1D1A1}$ DOP-BSYXXX-4 PAIRS AWG23 F/FTP CAT 6A 500MHZ – 100 OHM –ISO11801/TIA-EIA 568-B.2 CE LSZH F2 SA SD 001M

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
Includlng amendment A1:2010EN 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)	
@ 1~250 MHz (Ω)	100 ± 15
@ 250~500MHz (Ω)	100 ± 25
Conductor DC Resistance @ 20°C (Ω/km)	95
Nominal Velocity of Propagation	75%
Suitable for POE++	

	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