


Construction

1 Conductor Diameter	Solid Bare Copper AWG 23
2 Insulation Color Code Diameter (mm)	Solid PE 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 Coverage	Al / PES >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 B2_{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
Including amendment A1:2010
EN 50288-5-1:2013 - ANSI/TIA-568-C.2: 2009

Euroclass B2_{ca} 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++

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

