

**Construction**

<b>1 Conductor</b>	<b>Solid Bare Copper</b>
Diameter	AWG 23
<b>2 Insulation Color Code</b>	<b>Solid PE</b>
Diameter (mm)	1.27 ± 0.05
Pair 1	Blue/White-Blue
Pair 2	Orange/White-Orange
Pair 3	Green/White-Green
Pair 4	Brown/White-Brown
<b>3 Al-Pet Foil</b> (on each pair, Al outside)	
Coverage	≥115%
<b>4 Drain Wire</b>	
<b>5 Outer Sheath</b>	<b>LSZH</b>
Thickness (mm)	0.5
Diameter (mm)	7.60 ± 0.30
Color	Green - RAL 6018
	Color on request

**Marking**

B-CABLES SMART  LINE EN50575 C<sub>ca</sub> s1d1a1 DOP-BSYXXX-4 PAIRS  
 AWG23 U/FTP CAT 6A 500MHZ – 100 OHM – DELTA – 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 AI:2010  
 EN 50288-11-1:2012 - ANSI/TIA-568-C.2:2009

**Euroclass** C<sub>ca</sub> 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

