


**Construction**

<b>1 Conductor</b> Diameter	<b>Solid Bare Copper</b> AWG 23
<b>2 Insulation</b> Color Code	<b>Solid PE</b>
Pair 1	Blue/White-Blue
Pair 2	Orange/White-Orange
Pair 3	Green/White-Green
Pair 4	Brown/White-Brown
<b>3 Central Cross</b>	<b>PE Spline</b>
<b>4 Synthetic Polyester Foil</b> Coverage	>100%
<b>5 Drain Wire</b> Diameter (mm)	<b>Solid Tinned Copper</b> 0.40±0.05
<b>6 Shielding</b> Coverage	<b>Al / PES</b> ≥115%
<b>7 Sheath</b> Diameter (mm) Color	<b>LSZH</b> 2 x 7.20 ± 0.40 Green - RAL 6016 & 6018 Color on request

**Marking**

BCABLES SMART  LINE EN 50575 B2<sub>ca</sub> S1D1A1 DOP-BSYXXX 4 PAIRS  
AWG 23 F/UTP CAT 6A 500 MHZ - 100 OHM - DELTA - ISO 11801  
TIA/EIA 568-B2 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 Al:2010  
EN 50288-11-1:2012 - NSI/TIA-568-C.2:2009

**Euroclass B2<sub>ca</sub> s1d1a1**



**Electrical Characteristics**

Characteristics Impedance (Ω) from 1 to 100 MHz	100 ± 15
from 100 to 250 MHz	100 ± 25
Conductor DC Resistance @ 20°C (Ω/km)	95
Min. insulation resistance (MΩm/Km)	5000
Mutual capacitance (nF/Km)	56
Nominal Velocity of Propagation	75%

Frequency (MHz)	Attenuation (dB/100m)	Return Loss (dB)	NEXT (dB)
4	3.8	23.0	65.0
10	5.9	25.0	59.0
16	7.5	25.0	56.0
20	8.4	25.0	55.0
31.25	10.6	23.6	52.0
100	19.8	20.1	44.0
200	29.0	18.0	40.0
250	32.8	17.3	38.3
300	36.4	16.8	37.1
500	48.9	15.2	33.8

