


**Construction**

<b>1 Conductor</b>	<b>Solid Bare Copper</b>
Diameter	AWG 22
<b>2 Insulation Color Code</b>	<b>Skin-Foam-Skin PE</b>
Diameter (mm)	1.35 ± 0.05
Pair 1	Blue / White-Blue
Pair 2	Orange / White-Orange
Pair 3	Green / White-Green
Pair 4	Brown / White-Brown
<b>3 Each Pair Shield</b>	<b>Al-Pet (Al outside) Foil</b>
Coverage	≥ 115%
<b>4 Drain Wire</b>	
<b>5 General Shield</b>	<b>Braid</b>
Formation (mm)	8x7x0.12
Coverage	30%
<b>6 Outer Jacket</b>	<b>LSZH</b>
Diameter (mm)	7.50 ± 0.30
Jacket Color	Orange RAL 2000

**Marking**

BCABLES SMART  LINE EN50575 B2ca s1d1a1 DOP-BSYXXX-4 PAIRS  
 AWG 22 S/FTP CAT 7 600 MHZ - 100 OHM - DELTA - ISO 11801  
 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 Al:2010  
 IEN 50288-4 -1:2013  
 IEEE 802.3 A-NEXT ISO/IEC TR 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(f/MHz/20) (dB)

AFEXT(f) ≥ =38-18\*log(f/MHz/20) (dB)

**Euroclass B2ca s1d1a1**

**Electrical Characteristics**

Characteristics Impedance @	1~100 MHz (Ω)	100 ± 15
	100~250 MHz (Ω)	100 ± 20
	250 ~ 600 MHz	100 ± 25
Conductor DC Resistance @ 20°C (Ω/km)		95
Capacitance Unbalance @ 1Khz (pF/km)		1600
Min. Insulation Resistance (Ohm/km)		5000
Velocity of Propagation		78%
EIA/TIA 568 & ISO/IEC 11801 CAT 7 Standard :		

Frequency (MHz)	Attenuation (dB/100m)	NEXT (dB)	Return Loss (dB)
1	2.0	78.0	20.0
4	3.7	78.0	23.0
10	5.9	78.0	25.0
16	7.4	78.0	25.0
20	8.3	78.0	24.3
31.25	10.4	78.0	23.6
62.5	14.9	75.5	21.5
100	19.0	72.4	20.1
200	27.5	67.9	18.0
250	31.0	66.4	17.3
300	34.2	65.2	17.3
500	45.3	61.9	17.3
600	50.1	60.7	17.3

