


**Construction**

<b>1 Conductor</b> Diameter	<b>Solid Bare Copper</b> AWG 23
<b>2 Insulation Color Code</b> Pair 1 Pair 2 Pair 3 Pair 4	<b>Solid PE</b> Blue/White-Blue Orange/White-Orange Green/White-Green 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> >100%
<b>7 Sheath</b> Diameter (mm) Color	<b>LSZH</b> 7.20±0.40 Black

**Marking**

BCABLES SMART  LINE EN 50575 Cca s1d1a1 DOP-BSYXX-4 PAIRS  
AWG 23 F/UTP CAT 6A 500 MHZ INDOOR-OUTDOOR-UV - 100 OHM -  
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 A1:2010  
EN 50288-11-1:2012 - ANSI/TIA-568-C.2:2009  
UV RESISTANT: UV: EN50289-4-17: OUTDOOR TEST EXPOSURE 720H UV:SO4892-2  
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(fMhz/20) (dB)  
AFEXT(f) ≥ =38-18\*log(fMhz/20) (dB)

**Euroclass Cca 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  
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

