


Construction

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

Marking

BCABLES SMART  LINE EN 50575 Cca 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 AI:2010 EN 50288-11-1:2012 - ANSI/TIA-568-C.2:2009 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 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
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

