


Construction

- | | |
|--|---|
| 1 Conductor
Diameter | Solid Bare Copper
AWG 23 |
| 2 Insulation Color Code
Pair 1 (insulation Ø 1.15 ± 0.05)
Pair 2
Pair 3
Pair 4
(pair 2-4 insulation Ø 1.03 ± 0.05) | Solid PE
Blue/White-Blue
Orange/White-Orange
Green/White-Green
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
>100% |
| 7 Sheath
Diameter (mm)
Color | LSZH
7.20 ± 0.40
Green en color on request |

Marking

BCABLES SMART  LINE EN 50575 C_{ca} S1D1A1 DOP-BSY32B-XX
ZZWWYY 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 A1:2010
EN 50288-11-1:2012 - ANSI/TIA-568-C.2:2009

Euroclass C_{ca} s1d1a1

Electrical characteristics

Characteristics Impedance (Ω)
from 1 to 250 MHz 100 ± 15
from 250 to 500 MHz 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	23.0	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

