


Construction

1 Conductor Diameter	Solid Bare Copper AWG 23
2 Insulation Color Code Diameter (mm) Pair 1 Pair 2 Pair 3 Pair 4	HDPE 1.05 ± 0.05 Blue/White-Blue Orange/White-Orange Green/White-Green Brown/White-Brown
3 Central Cross	PE
4 Inner sheath	
5 Sheat Thickness (mm) Diameter (mm) Color	LSZH 0.50 ± 0.05 2 x 7.50 ± 0.3 Green - RAL 6016 Color on request

Marking

B-CABLES SMART  LINE EN50575 C_{ca} s1d2a1 DOP-BSYXXX-2X4 PAIRS
AWG 23 U/UTP CAT 6A 500 MHZ - 100 OHM - DELTA ISO11801/
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 AI:2010
EN 50288-11-1:2012 - ANSI/TIA-568-C.2:2009
including all cable alien crosstalk parameters (PS ANEXT and PS AACR-F)

Euroclass C_{ca} s1d2a1



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) ≤ 94
Min Resistance of Insulation (MΩ.Km) ≥ 5000
Max. Pair Mutual Capacitance (nF/100 m) ≤ 5.6
Max. Pair Capacitance Unbalance (pF/100 m) ≤ 330
Nominal Velocity of Propagation 75%
Suitable for POE++

Comply with EIA/TIA 568 & ISO/IEC 11801 CAT 6A Standard:

Frequency (MHz)	Attenuation (dB/100m)	Return Loss (dB)	NEXT (dB)
4	3.70	23.00	65.00
10	5.90	25.00	59.00
16	7.50	25.00	56.00
20	8.40	25.00	55.00
31.25	10.60	23.60	51.95
62.5	15.40	21.50	47.00
100	19.80	20.10	44.00
200	29.00	18.00	40.00
250	32.80	17.30	38.30
300	36.40	16.80	37.10
500	48.90	15.20	33.80

