

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	AI / PES Bleu >100%
7 Sheat Diameter (mm) Color	LSZH 6.90 x 2 ± 0.40 Green - RAL 6018 Color on request

Marking

B-CABLES SMART **∞** LINE EN50575 C_{ca s1d1a1} DOP-BSYXXX- 2X4 PAIRS
AWG 23 F/UTP CAT 6 250MHZ – 100 OHM – ISO11801/TIA-EIA
568-B.2 CE LSZH F2 SA SD 001M

Standards

HD 60 364 – 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 50288-5-1:2013 - ANSI/TIA-568-C.2:2009 - EN 60216
Euroclass C_{ca s1d1a1}

Electrical characteristics

Characteristics Impedance (Ω)
from 1 to 100 MHz 100 ± 15
from 100 to 250 MHz 100 ± 20
Conductor DC Resistance @ 20 °C (Ω/km) < 95
Nominal Velocity of Propagation 72%

Frequency (MHz)	Attenuation (dB/100m)	Return Loss (dB)	NEXT (dB)
1	2.00	20.00	74.30
4	3.80	23.00	66.30
10	6.00	25.00	60.30
16	7.60	25.00	57.20
25	9.50	24.30	54.30
31.25	10.70	23.60	52.90
100	19.80	20.10	45.30
200	29.00	18.00	40.80
250	32.80	17.30	39.30

