

Construction

1 Conductor Diameter	Solid Bare Copper AWG 23
2 Insulation Color Code	Solid PE
Pair 1	Blue/White-Blue
Pair 2	Orange/White-Orange
Pair 3	Green/White-Green
Pair 4	Brown/White-Brown
3 Each Pair Shielding Coverage	Al-Pet Foil ≥ 115%
4 Braiding Coverage	AL 30%
5 Outer Jacket	PE (UV resistant)
Thickness (mm)	0.50
Diameter (mm)	7.50 ±0.30
Color	Black

Marking

BCABLES EN50575 F_{ca} DOP-BSYXXX-4 PAIRS AWG 23 S/FTP CAT 7 600MHZ – 100 OHM – ISO11801/TIA-EIA 568-B.2 CE PE 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

Euroclass F_{ca}

Electrical Characteristics

Characteristics Impedance (Ω) from 1 to 250 MHz	100 ± 15
from 250 to 600 MHz	100 ± 25
Conductor DC Resistance @ 20°C (Ω/km)	95
Capacitance Unbalance @1Khz (pF/km)	1600
Min. insulation Resistance (MΩ/km)	5000
Mutual Capacitance(nF/km)	56
Velocity of Propagation	78%
Suitable for POE++	

Comply with EIA/TIA 568 & ISO/IEC 11801 CAT 7 Standard:

Frequency (MHz)	Attenuation (dB/100m)	Return Loss (dB)	NEXT (dB)
1	2.0	20.0	78.0
4	3.7	23.0	78.0
10	5.9	25.0	78.0
16	7.4	25.0	78.0
20	8.3	24.3	78.0
31.25	10.4	23.6	78.0
62.5	14.9	21.5	75.5
100	19.0	20.1	72.4
200	27.5	18.0	67.9
250	31.0	17.3	66.4
300	34.2	17.3	65.2
500	45.3	17.3	61.9
600	50.1	17.3	60.7

