

**Construction**

<b>1 Conductor</b> Diameter	<b>Solid Bare Copper</b> AWG 23
<b>2 Insulation Color Code</b> Pair 1 Pair 2 Pair 3 Pair 4	<b>Solid PE</b> Blue/White-Blue Orange/White-Orange Green/White-Green Brown/White-Brown
<b>3 Central Cross</b>	<b>PE Spline</b>
<b>4 Synthetic Polyester Foil</b> Coverage	>100%
<b>5 Drain Wire</b> Diameter (mm)	<b>Solid Tinned Copper</b> 0.40 ± 0.05
<b>6 Shielding</b> Coverage	<b>Al / PET</b> ≥115%
<b>7 Sheath</b> Avg. Thickness (mm) Diameter (mm) Color	<b>PE (UV resistant)</b> 0.55 7.50 ± 0.30 Black

**Marking**

BCABLES EN50575 Fca DOP-BSYXX-4 PAIRS AWG 23 F/UTP CAT 6A 500MHZ – 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 A1:2010  
EN 50288-11-1:2012 - ANSI/TIA-568-C.2:2009  
**Euroclass Fca**

**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  
Min. insulation Resistance (MΩ/km) 5000  
Mutual Capacitance(nF/km) 56  
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	3.8	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	10.5	23.6	52.0
100	19.1	20.1	44.0
200	27.6	18.0	40.0
250	31.1	17.3	38.3
300	34.3	16.8	37.1
500	45.3	15.2	33.8

