

Construction

1 Conductor	Bare Copper
Diameter	AWG 23
2 Insulation Color Code	HDPE
Diameter (mm)	0.98 ± 0.05
Pair 1 (insulation Ø 1.15 ± 0.05)	Blue/White-Blue or White
Pair 2	Orange/White-Orange or White
Pair 3	Green/White-Green or White
Pair 4	Brown/White-Brown or White
(pair 2-4 insulation Ø 1.03 ± 0.05)	
3 Central Cross	PE Spline
4 Sheath	PE for outdoor use (UV resistant)
Diameter (mm)	6.00 ± 0.20
Color	Black

Marking

BCABLES EN50575 F_{ca} DOP-BSYXXX-4 PAIRS AWG 23 U/UTP CAT 6 250MHZ – 100 OHM – ISO11801/TIA-EIA 568-B.2 CE PE 001M

Electrical characteristics

Characteristics Impedance @	1~100 MHz (Ω)	100 ± 15
	100~250 MHz (Ω)	100 ± 20
Conductor DC Resistance @ 20 °C (Ω/km)		≤ 95
Mutual Capacity @ 1KHz (pF/km)		≤ 1500
NVP		72%

EIA /TIA 568-B.2-1 Category 6 Standard:

Frequency (MHz)	Attenuation (dB/100m)	Return Loss (dB)	NEXT (dB)
4	3.80	23.00	65.30
10	6.00	25.00	59.30
16	7.60	25.00	56.20
25	9.50	24.30	53.30
31.25	10.70	23.60	51.90
100	19.80	20.10	44.30
200	29.00	18.00	39.80
250	32.80	17.30	38.30

