

Construction

1 Conductor Diameter	Solid Bare Copper AWG 24
2 Insulation Color Code Diameter (mm) Pair 1 Pair 2 Pair 3 Pair 4	HDPE 0.90 ± 0.05 Blue/White-Blue Orange/White-Orange Green/White-Green Brown/White-Brown
3 Sheath Diameter (mm) Color	PE for outdoor use (UV resistant) 5.70 ± 0.50 Black
4 Shielding	Al / PES > 110%

Marking

B-CABLES EN50575 F_{ca} DOP-BSYXXX-4 PAIRS AWG 24 F/UTP CAT 5E 200MHZ – 100 OHM – ISO11801/TIA-EIA 568-B.2 CE PE 001M

Electrical characteristics

Characteristics Impedance @ 1~100 MHz (Ω)	100 ± 15
Conductor DC Resistance @ 20°C (Ω/km)	≤ 96
Velocity of Propagation	69%
Mutual Capacity (pF/m)	50

EIA /TIA 568-B.2 Category 5e Standard:

Frequency	Attenuation	Return Loss	NEXT
1 MHz	2.04	20.00	65.30
4 MHz	4.10	23.00	56.30
10 MHz	6.50	25.00	50.30
16 MHz	8.20	25.00	47.20
20 MHz	9.30	25.00	45.80
25 MHz	10.40	24.30	44.30
31.25 MHz	11.70	23.60	42.90
62.5 MHz	17.00	21.50	38.40
100 MHz	22.00	20.10	35.30

