

Construction

1 Conductor Diameter	Solid Bare Copper AWG 24
2 Insulation Color Code Diameter (mm) Pair 1 Pair 2 Pair 3 Pair 4	Solid PE 0.90 ± 0.05 Blue/White-Blue Orange/White-Orange Green/White-Green Brown/White-Brown
3 Synthetic Polyester Foil	
4 Drain Wire	Solid Tinned Copper
5 Shielding	Al / PES > 110%
6 Sheath Diameter (mm) Color	PVC 5.70 x 2 ± 0.50 Grey

Marking

B-CABLES EN50575 E_{ca} DOP-BSYXXX-2x4 PAIRS AWG 24 F/UTP CAT 5E 200MHZ – 100 OHM – ISO11801/TIA-EIA 568-B.2 CE 001M

Standards

Comply with EIA/TIA 568 & ISO/IEC 11801 CAT 5e Standard
Euroclass E_{ca}

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
Rated Temperature	-10 ~ +70 °C

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

