

# Category 5e (enhanced) local area network (LAN) data cable

**Unscreened Twisted Pair (UTP) 4 Pair, Data Cable meeting or exceeding the requirements of EIA/TIA 568A, ISO/IEC 11801**



**Conductor:** 24 AWG (0.52 nom.) solid bare copper

**Insulation:** Polyethylene, diameter <1.0mm

**Pairs:** 2 insulated conductors laid up,  
4 pairs twisted together

**O/D:** 5.0mm nominal

**Sheath:** PVC OR LSZH compound

## Pair Identification

**No: Colour Code**

- 1: BLUE & WHITE/Blue
- 2: ORANGE & WHITE/Orange
- 3: GREEN & WHITE/Green
- 4: BROWN & WHITE/Brown

## Packaging

Available in easy pull dispenser boxes 305m,  
or non-returnable reels of longer lengths.

Frequency (MHz)	Characteristic Impedance (ohms)	Maximum Attenuation (dB/100m @ 20°C)	Near-End Crosstalk Minimum (dB)
1.0	100 ± 15%	2.0	65.3
4.0	100 ± 15%	4.1	56.3
10.0	100 ± 15%	6.5	50.3
16.0	100 ± 15%	8.2	47.3
20.0	100 ± 15%	9.3	45.8
31.25	100 ± 15%	11.7	42.9
62.5	100 ± 15%	17.0	38.4
100	100 ± 15%	22.0	35.3

The minimum NEXT loss is given by the formula:  
NEXT cable  $\geq 67-15 \log (f/0.772)$

Mutual Capacitance @ 1kHz max. 56nF/km.

Pair-to-ground Capacitance Unbalance:  
3300pF/km max. @ 1kHz.

DC Resistance: 93.8 ohms/km max. @ 20°C.

DC Resistance Unbalance: 3% max.



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