

## Data Cables



### UNSCREENED TWISTED PAIR (UTP) CABLES - DATA CABLE

This cable meets or exceeds the requirements of TIA/EIA 568-B.2 and ISO/IEC 11801. Suitable for transmission of high speed data, digital and analogue voice and video (RGB) signals on LAN's. Support Gigabit Ethernet (1000 baseT) standard.



### CONSTRUCTION

**Cable Type** : Cu / PVC

**Conductor** : 24 AWG solid bare copper

**Insulation** : Polyethylene

**Pairs** : 2 insulated conductors twisted together, lays varied to minimise crosstalk.  
4 pairs twisted together.

**Sheath** : PVC (Grey, Orange, Blue) or LSOH (Violet), 6.35mm overall diameter maximum.  
Other colours available on request.

### COLOR CODE

Pair	Conductor 1	Conductor 2
1	Blue	White / Blue
2	Orange	White / Orange
3	Green	White / Green
4	Brown	White / Brown

### CONNECTION SYSTEMS

Compatible with all common systems according to EN 50173, ISO/IEC 11801 and TIA/EIA 568-B.

### ELECTRICAL PROPERTIES

**Conductor Resistance** : < 9.38  $\Omega$ /100m

**Mutual Capacitance** : < 5.6 nF/100m

**Resistance Unbalance** : 3% maximum

**Capacitance Unbalance** : 330 pF/km

**Delay Skew** : < 45 ns

**NVP** : 68%

### MECHANICAL PROPERTIES

**Bending Radius**

**During Installation** : > 42 mm

**After Installation** : > 21 mm

**Pulling Force** : < 65 N

**Temperature Range** : -15°C +/-70°C

**Heat of Combustion** : 373 MJ/km

### PACKAGING

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

Frequency (Mhz)	Attenuation (db/100m)	NEXT (db/100m)	PSNEXT (db/100m)	ELFEXT (db/100m)	PSELFEXT (db/100m)	Return Loss (db)
0.77	1.8	67.0	64.0	66.0	63.0	-
1.00	2.0	65.3	62.3	63.8	60.8	20.0
4.00	4.1	56.3	53.3	51.7	48.7	23.0
8.00	5.8	51.8	48.8	45.7	42.7	24.5
10.00	6.5	50.3	47.3	43.8	40.8	25.0
16.00	8.2	47.3	44.3	39.7	36.7	25.0
20.00	9.3	45.8	42.8	37.7	34.7	25.0
25.00	10.4	44.3	41.3	35.8	32.8	24.3
31.25	11.7	42.9	39.9	33.9	30.9	23.6
62.50	17.0	38.4	35.4	27.8	24.8	21.5
100.00	22.0	35.3	32.3	23.8	20.8	20.0