Category 5e Data Cable

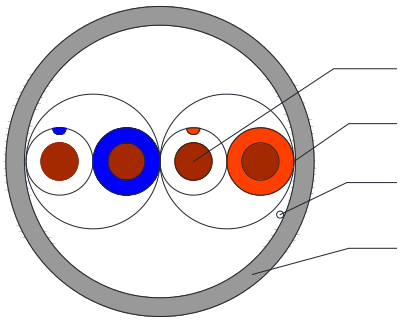
2pr 24AWG, UTP with PVC or HFFR/LSZH Sheath

C1058, C1061

Applications

Twisted pair cable suitable for Local Area Networks and Video Applications

Cross Section Drawing



Conductor

Insulation

Rip Cord

Sheath

Design

Unit	Properties
Conductor	Solid Plain Copper Wire
Insulation	Solid Polyethylene Pair 1: WHITE/Blue + BLUE Pair 2: WHITE/Orange + ORANGE
Pair	Two wires twisted together
Rip Cord	Nylon Yarn
Sheath Material	Polyvinyl Chloride (PVC) Standard Color: Grey or Halogen Free, Flame Retardant (HFFR/LSZH) Standard Color: Purple
Standard Put Up Length	305 metres

*Other Colors, Put Up Lengths and structures can be manufactured upon request, please contact your local B3 International sales representative.

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Physical Characteristics

Part Number	C1058	C1061
Sheath Material	PVC	HFFR/LSZH
Screen type	UTP	
No. of Pairs	2	
Conductor Size (AMG)	24	
Nom. Radial Thickness Sheath (mm)	0.55	
Nom. Overall Diameter (mm)	4.2	
Operating Temperature (°C)	-20°C to +60°C	
Min. Bend Radius (install) (mm)	45	
Nominal Cable Weight (kg/km)	17	
Maximum Pulling Tension (Newton)	80	

Electrical Characteristics at 20°C

Conductor Resistance (Ohm/100m)	Mutual Capacitance (pF/m)	Input Impedance (Ohm)	Velocity of Propagation (%)	Maximum Delay Skew (ns/100m)	Max. Operating Voltage (Volts RMS)
10	48	100 ± 15	65	45	300

Frequency (MHz)	Return Loss (dB/100m)	Maximum Attenuation (dB/100m)	Minimum NEXT (dB)	Maximum Time Delay (ns/100m)	Minimum PSNEXT (dB)	Minimum ELFEXT (dB)	Minimum PSELFEXT (dB)
1	20.0	2.0	65.3	570.00	62.3	63.8	60.8
4	23.0	4.1	56.3	552.00	53.3	51.7	48.7
8	24.5	5.8	51.8	546.73	48.8	45.7	42.7
10	25.0	6.5	50.3	545.38	47.3	43.8	40.8
16	25.0	8.2	47.2	543.00	44.4	39.7	36.7
20	25.0	9.3	45.8	542.05	42.8	37.7	34.7
25	24.3	10.4	44.3	541.20	41.3	35.8	32.8
31.25	23.6	11.7	42.9	540.44	39.9	33.9	30.9
62.5	21.5	17.0	38.4	538.55	35.4	27.8	24.8
100	20.1	22.0	35.3	537.60	32.3	23.8	20.8

Reference Standards

ISO 11801, ANSI/TIA/EIA-568-C2	IEC 61034, IEC 60754-1 & 2 (HFFR/LSZH only)
EN 50290-2	RoHS directives
IEC 60332-1	