

Category 6 Data Cables

23AWG. UTP or FTP with PVC/PE Sheath

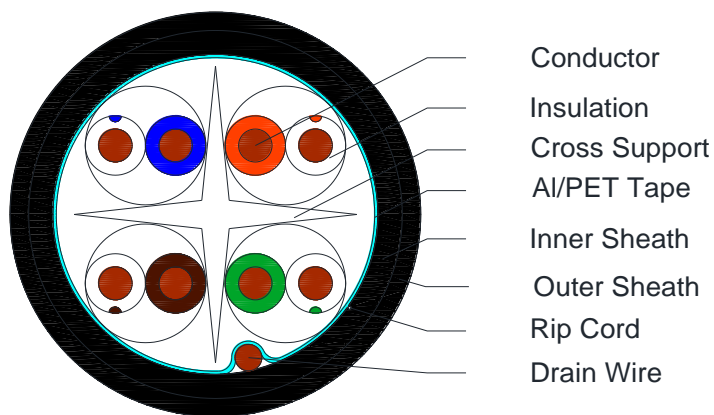


C1481, C1482

Applications

Twisted pair cable suitable for Local Area Networks and Video Applications

Cross Section Drawing



Design

Unit	Properties
Conductor	Solid Plain Copper Wire
Insulation	Solid Polyethylene Pair 1: WHITE/Blue + BLUE Pair 2: WHITE/Orange + ORANGE Pair 3: WHITE/Green + GREEN Pair 4: WHITE/Brown + BROWN
Pair	Two wires twisted together
Filler	Cross support
Drain Wire (FTP only)	Tinned Copper wire
Screen(FTP only)	Aluminium/Polyester tape
Rip Cord	Nylon Yarn
Inner Sheath Material	Polyvinylchloride (PVC)
Outer Sheath Material	UV Stable Polyethylene (PE) Standard Color: Black
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	C1481	C1482
Screen type	UTP	FTP
No. of Pairs	4	
Conductor Size (AMG)	23	
Drain Wire Size (AMG)	-	26
Screen Coverage (%)	-	115
Nom. Inner Sheath Diameter (mm)	6.1	7.2
Nom. Radial Thickness Sheath (mm)	0.5	
Nom. Overall Diameter (mm)	7.2	8.3
Operating Temperature (°C)	-20°C to +60°C	
Min. Bend Radius (install) (mm)	61	72
Nominal Cable Weight (kg/km)	52	69
Maximum Pulling Tension (Newton)	180	220

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)
	UTP	FTP				
9.38	47	48	100 ± 15	67	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	74.3	570.00	72.3	67.8	64.8
4	23.0	3.8	65.3	552.00	63.3	55.8	52.8
8	24.5	5.3	60.8	546.73	58.8	49.7	46.7
10	25.0	6.0	59.3	545.38	57.3	47.8	44.8
16	25.0	7.6	56.2	543.00	54.2	43.7	40.7
20	25.0	8.5	54.8	542.05	52.8	41.8	38.8
25	24.3	9.5	53.3	541.20	51.3	39.8	36.8
31.25	23.6	10.7	51.9	540.44	49.9	37.9	34.9
62.5	21.5	15.4	47.4	538.55	45.4	31.9	28.9
100	20.1	19.8	44.3	537.80	42.3	27.8	24.8
200	18.0	29.0	39.8	536.54	37.8	21.8	18.8
250	17.3	32.8	38.3	536.27	36.3	19.8	16.8

Reference Standards

ISO 11801	RoHS directives
ANSI/TIA/EIA-568-C2	