

# Category 6 Data Cables – Enhanced 350MHz

## 23AWG. UTP with PVC or HFFR Sheath

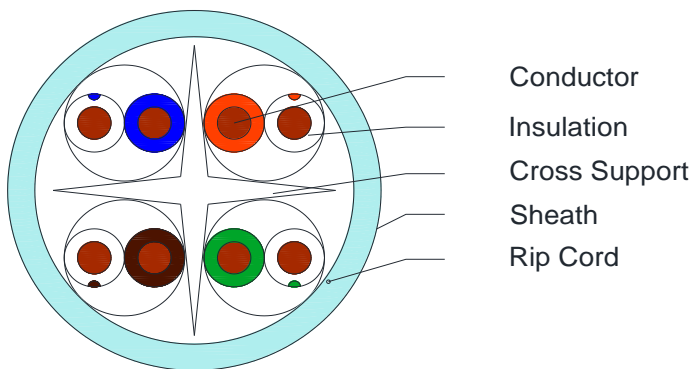


C1637, C1657

### 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
Rip Cord	Nylon Yarn
Sheath Material	Polyvinyl Chloride (PVC) Or Halogen Free, Flame Retardant (HFFR) Standard Color: Turquoise
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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### C1637, C1657

#### Physical Characteristics

Part Number	C1637	C1657
Sheath Material	PVC	HFFR
Screen type	UTP	UTP
No. of Pairs	4	
Conductor Size (AWG)	23	
Nom. Radial Thickness Sheath (mm)	0.5	
Nom. Overall Diameter (mm)	6.1	
Operating Temperature (°C)	-20°C to +60°C	
Min. Bend Radius (install) (mm)	61	
Nominal Cable Weight (kg/km)	40.5	
Maximum Pulling Tension (Newton)	160	

#### 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)
9.38	47	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
300	16.77	36.4	37.14	536.08	35.1	18.3	15.3
350	16.3	39.8	36.14	536.00	34.1	16.9	13.9

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### C1637, C1657 Reference Standards

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