

High Frequency Signal Cable

PVC Sheath



C4596

Application

High frequency signal cable suitable for High Speed Local Area Networks and Analogue & Digital video applications.

Design

Unit	Properties
Conductor	Solid Plain Copper Wire
Insulation	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
Rip Cord	Nylon Yarn
Sheath Material	Polyvinyl Chloride (PVC) Standard Color: Grey
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.

Physical Characteristics

Part Number	C4596
No. of Pairs	4
Conductor Size (AMG)	23
Nom. Radial Thickness Sheath (mm)	0.5
Nom. Overall Diameter (mm)	7.0
Operating Temperature (°C)	-20°C to +60°C
Min. Bend Radius (install) (mm)	70
Maximum Pulling Tension (Newton)	160

Electrical Characteristics at 20°C

Max. DC resistance conductor ($\Omega/100m$)		Input Impedance (Ohm)	Velocity of Propagation (%)	Maximum Delay Skew (ns/100m)	Max. Operating Voltage (Volts RMS)
UTP	FTP/U-FTP				
9.38	7.69	100	65	45	300

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Freq. (MHz)	Min. Return Loss dB	Max. Attenuation dB	Min. NEXT dB	Min. PSNEXT dB	Min. ACRF dB	Min. PSACRF dB	Max. DELAY ns
1	20.0	2,1	74.3	72.3	67.8	64.8	570
4.0	23.0	3,8	65.3	63.3	55.8	52.8	552
8.0	24.5	5.3	60.8	58.8	49.7	46.7	547
10.0	25.0	5.9	59.3	57.3	47.8	44.8	545
16.0	25.0	7.5	56.2	54.2	43.7	40.7	543
20.0	25.0	8.4	54.8	52.8	41.8	38.8	542
25.0	24.3	9.4	53.3	51.3	39.8	36.8	541
31.25	23.6	10.5	51.9	49.9	37.9	34.9	540
62.5	21.5	15.0	47.4	45.4	31.9	28.9	539
100	20.1	19.1	44.3	42.3	27.8	24.8	538
200	18.0	27.6	39.8	37.8	21.8	18.8	537
250	17.3	31.1	38.3	36.3	19.8	16.8	536
300	16.8	34.3	37.1	35.1	18.3	15.3	536
400	15.9	40.1	35.3	33.3	15.8	12.8	536
500	15.2	45.3	33.8	31.8	13.8	10.8	536

Reference Standards

EN 50290-2	UL 1685 for CM PVC
ISO 11801	UL1666 for CMR PVC
ANSI/TIA/EIA-568-C2	IEC 60332-1 for PVC
RoHS directives	