

Category 6A Enhanced Data Cables

23AWG, S/FTP, PVC or HFFR/LSZH Sheath

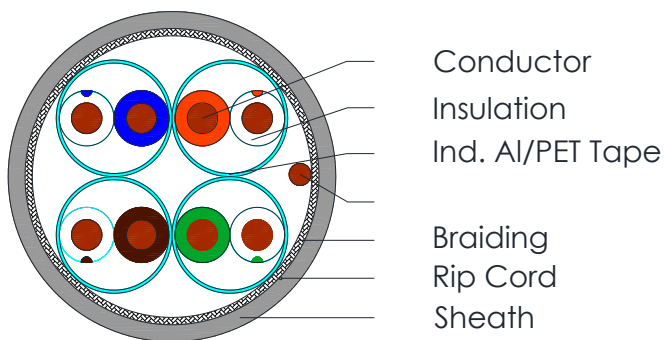


C I 508. C I 509

Application

Twisted pair cable suitable for High Speed Local Area Networks and Analogue & Digital video applications

Cross Section Drawing



Design

Unit	Properties
Conductor	Solid Plain Copper Wire
Insulation	Foam 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
Screen	Each pair shielded with Aluminium / Polyester foil
Braiding	Tinned copper wire
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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C1508, C1509

Physical Characteristics

Part Number	C1508	C1509
Sheath Material	PVC	LSZH
Screen type	S-FTP	
No. of Pairs	4	
Conductor Size (AMG)	23	
Drain Wire Size (AMG)	26	
Screen Coverage (%)	115	
Braiding Coverage (%)	25	
Nom. Radial Thickness Sheath (mm)	0.5	
Nom. Overall Diameter (mm)	8.2	
Operating Temperature (°C)	-20°C to +60°C	
Min. Bend Radius (install) (mm)	82	
Maximum Pulling Tension (Newton)	210	

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				
93.8	76.9	100	65	45	300

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
550	14.9	47.7	33.2	31.2	13.0	10.0	536
600	14.7	50.1	32.6	30.6	12.2	9.2	536
650	14.4	52.3	32.1	30.1	11.5	8.5	536

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Reference Standards

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