

Category 6A Data Cables

23AWG, UTP or U/FTP, PVC or
HFFR/LSZH Sheath

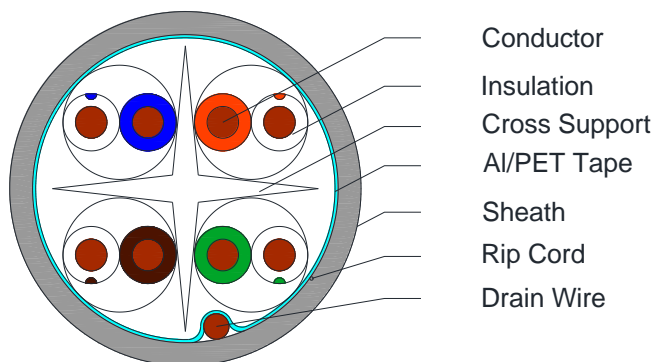


C4580, C4581, C5519, C5520

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	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
UTP	No screen
U-FTP	Each pair shielded with Aluminium / Polyester foil, with tinned copper drain wire, no overall screen
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	C4580	C5519	C4581	C5520
Sheath Material	PVC	HFFR/LSZH	PVC	HFFR/LSZH
Screen type	UTP		U-FTP	
No. of Pairs	4			
Conductor Size (AWG)	23			
Drain Wire Size (AWG)	-		26	
Screen Coverage (%)	-		115	
Nom. Radial Thickness Sheath (mm)	0.5			
Nom. Overall Diameter (mm)	7.0		7.3	
Operating Temperature (°C)	-20°C to +60°C			
Min. Bend Radius (install) (mm)	70		73	
Maximum Pulling Tension (Newton)	160		210	

Electrical Characteristics at 20°C

Max. DC resistance conductor (Ω/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

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