

## Category 6A Data Cables

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

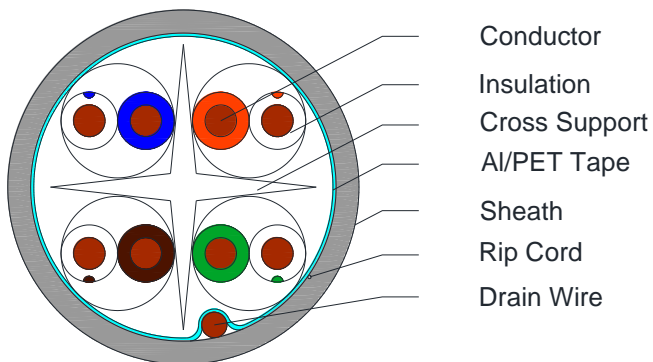


C1055, C1056, C1057, C1200, C1052, C1053, C1455, C1456, C1457,  
C1555, C1556, C1557

### 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
FTP	overall screen of Aluminium/Polyester Foil with tinned copper drain wire
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) 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	C1055	C1455	C1555	C1200	C1056	C1456	C1556	C1052	C1057	C1457	C1557	C1053
Sheath Material	PVC	PVC CM	PVC CMR	HFFR	PVC	PVC CM	PVC CMR	HFFR	PVC	PVC CM	PVC CMR	HFFR
Screen type	UTP				FTP				U-FTP			
No. of Pairs	4											
Conductor Size (AMG)	23											
Drain Wire Size (AMG)	-				26				26			
Screen Coverage (%)	-				115				115			
Nom. Radial Thickness Sheath (mm)	0.5											
Nom. Overall Diameter (mm)	7.0				7.2				7.8			
Operating Temperature (°C)	-20°C to +60°C											
Min. Bend Radius (install) (mm)	70				72				78			
Maximum Pulling Tension (Newton)	160				200				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

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### Reference Standards

EN 50290-2	UL 1685 for CM
ISO 11801	UL1666 for CMR
ANSI/TIA/EIA-568-C2	IEC 60332-1
IEC 61034 (HFFR only)	RoHS directives
IEC 60754-1 & 2 (HFFR only)	