

Plenum Grade Category 6A Data Cables

23AWG, U/UTP&U/FTP, CMP PVC Sheath

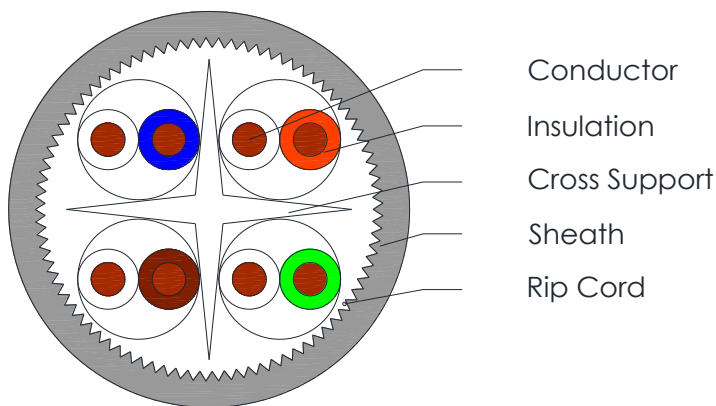


C8200, C8053

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	FEP Pair 1: WHITE - Blue Pair 2: WHITE - Orange Pair 3: WHITE - Green Pair 4: WHITE - Brown
Pair	Two wires twisted together
Individual screen (for U/FTP only)	Al/PET Tape over pairs
Filler (for U/UTP only)	Cross Support
Rip Cord	Nylon Yarn
Sheath Material	Plenum Grade Flame-Retardant Polyvinyl Chloride (CMP PVC) Standard colour: 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.

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Physical Characteristics

Part Number	C8200	C8053
Screen type	U/UTP	U/FTP
No. of Pairs	4	
Conductor Size (AMG)	23	
Nom. Radial Thickness Sheath (mm)	0.45	
Nom. Overall Diameter (mm)	6.1	6.4
Operating Temperature (°C)	0°C to +60°C	
Min. Bend Radius (install) (mm)	61	64
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				
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

Reference Standards

EN 50290-2	ANSI/TIA/EIA-568-C2
ISO 11801	NFC 725.154(A), ANSI/NFPA 262
RoHS directives	