

Category 6A Data Cables Outdoor

23AWG, F/FTP&U/FTP, PE Sheath

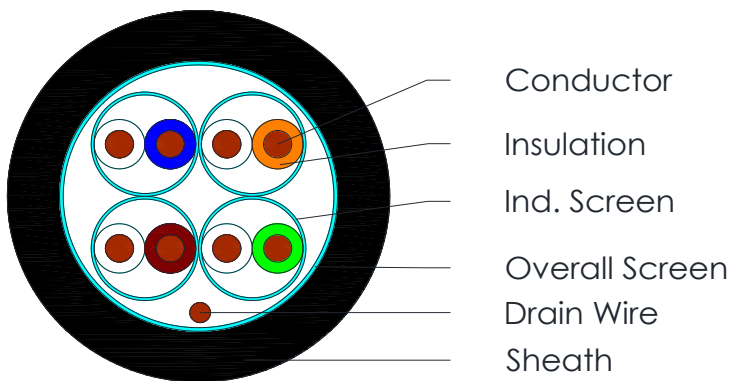


C I 609, C I 699

Application

Outdoor used 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	Foamed Polyethylene Pair 1: WHITE + Blue Pair 2: WHITE + Orange Pair 3: WHITE + Green Pair 4: WHITE + Brown
Pair	Two wires twisted together
Individual screen	Each pair shielded with Aluminium / Polyester foil with an overall finned copper drain wire.
Overall screen (For F/FTP Only)	Aluminium / Polyester foil
Sheath Material	Polyethylene Standard Color: Black
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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C1609, C1699

Physical Characteristics

Part Number	C1609	C1699
Screen Type	F/FTP	U/FTP
No. of Pairs	4	
Conductor Size (AMG)	23	
Individual Screen Coverage (%)	115	
Drain Wire Size (AMG)	26	
Overall Screen Coverage (%)	115	-
Nom. Radial Sheath Thickness (mm)	0.70	0.70
Nom. Overall Diameter (mm)	8.4	8.3
Operating Temperature (°C)	-20°C to +60°C	
Min. Bend Radius (install) (mm)	84	83
Maximum Pulling Tension (Newton)	200	180

Electrical Characteristics at 20°C

Max. DC resistance conductor (Ω/100m)	Max. DC Resistance Unbalance (%)	Mutual Capacitance at 1KHz (pF/m)	Velocity of Propagation (%)	Maximum Delay Skew (ns/100m)	Max. Operating Voltage (Volts RMS)
93.8	5	60	65	45	300

Freq. (MHz)	Input Impedance (Ohm)	Min. Return dB	Max. Attenuation dB	Min. NEXT dB	Min. PSNEXT dB	Min. ACRF dB	Min. PSACR dB	Max. DELAY ns
1	100 ± 15	20.0	2,1	74.3	72.3	67.8	64.8	570
4.0	100 ± 15	23.0	3,8	65.3	63.3	55.8	52.8	552
8.0	100 ± 15	24.5	5,3	60.8	58.8	49.7	46.7	547
10.0	100 ± 15	25.0	5,9	59.3	57.3	47.8	44.8	545
16.0	100 ± 15	25.0	7,5	56.2	54.2	43.7	40.7	543
20.0	100 ± 15	25.0	8,4	54.8	52.8	41.8	38.8	542
25.0	100 ± 15	24.3	9,4	53.3	51.3	39.8	36.8	541
31.25	100 ± 15	23.6	10,5	51.9	49.9	37.9	34.9	540
62.5	100 ± 15	21.5	15,0	47.4	45.4	31.9	28.9	539
100	100 ± 15	20.1	19,1	44.3	42.3	27.8	24.8	538
200	100 ± 15	18.0	27,6	39.8	37.8	21.8	18.8	537
250	100 ± 15	17.3	31,1	38.3	36.3	19.8	16.8	536
300	100 ± 15	16.8	34,3	37.1	35.1	18.3	15.3	536
400	100 ± 22	15.9	40,1	35.3	33.3	15.8	12.8	536
500	100 ± 22	15.2	45,3	33.8	31.8	13.8	10.8	536

Reference Standards

EN 50290-2	IEC 61156-5
ISO 11801	ANSI/TIA/EIA-568-C2
RoHS directives	