

Category 6 Data Cables

23AWG. SFTP with Moisture Barrier

HFFR/LSZH Sheath

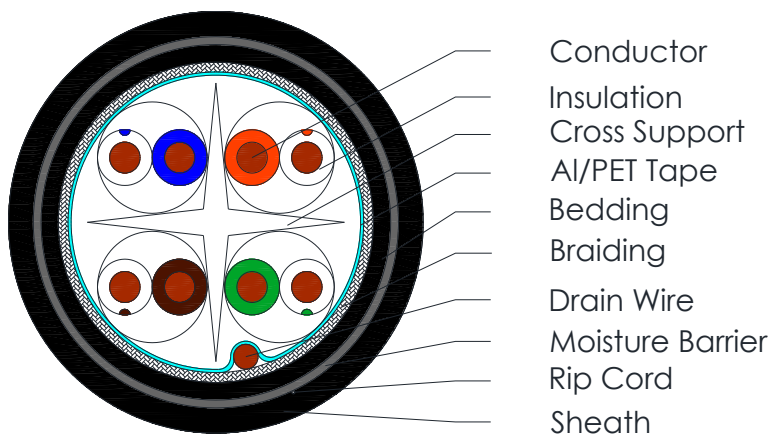


C5807, C5808, C5809

Applications

Twisted pair cable suitable for Local Area Networks and Video Applications delivering 1000base-T Gigabit Ethernet, 100BASE-TX Fast Ethernet, 622 Mbps ATM, 155 Mbps ATM and Composite Video.

Cross Section Drawing



Design

Unit	Properties
Conductor	Solid Plain Copper Wire
Insulation	Solid 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
Filler	Cross support
Screen	Aluminium/Polyester tape
Drain Wire	Tinned Copper wire
Braiding	Tinned Copper wire
Bedding	Halogen Free, Flame Retardant (HFFR)
Moisture Barrier	Swellable Tape
Rip Cord	Nylon Yarn
Sheath Material	Halogen Free, Flame Retardant (HFFR) 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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Physical Characteristics

Part Number	C5807	C5808	C5809
Screen type	SFTP		
No. of Pairs	4		
Conductor Size (AMG)	23		
Drain Wire Size (AMG)	26		
Screen Coverage (%)	115		
Braiding Coverage (%)	45		
Nom. Radial Thickness Bedding (mm)	0.5		
Nom. Thickness of Swellable Tape (mm)	0.3		
Nom. Radial Thickness Sheath (mm)	0.6		
Nom. Overall Diameter (mm)	9.5		
Operating Temperature (°C)	-20 to +60		
Min. Bend Radius (install) (mm)	95		
Nominal Cable Weight (kg/km)	98		
Maximum Pulling Tension (Newton)	300		
Sheath Material Performance			
Chemical Resistant	Yes	Yes	Yes
UV Resistant	-	Yes	Yes
IEC 60332-1	Yes	Yes	Yes
IEC 60332-3-24	-	-	Yes

Electrical Characteristics at 20°C

Conductor Resistance (Ohm/100m)	Mutual Capacitance (pF/m)	Input Impedance (Ohm)	Velocity of Propagation (%)	Maximum Delay Skew (ns/100m)	Max. Operating Voltage (Volts RMS)
9.38	56	100 ± 15	67	45	300

Frequency (MHz)	Return Loss (dB/100m)	Maximum Attenuation (dB/100m)	Minimum NEXT (dB)	Maximum Time Delay (ns/100m)	Minimum PSNEXT (dB)	Minimum ELFEXT (dB)	Minimum PSELFEXT (dB)
1	20.0	2.0	74.3	570.00	72.3	67.8	64.8
4	23.0	3.8	65.3	552.00	63.3	55.8	52.8
8	24.5	5.3	60.8	546.73	58.8	49.7	46.7
10	25.0	6.0	59.3	545.38	57.3	47.8	44.8
16	25.0	7.6	56.2	543.00	54.2	43.7	40.7
20	25.0	8.5	54.8	542.05	52.8	41.8	38.8
25	24.3	9.5	53.3	541.20	51.3	39.8	36.8
31.25	23.6	10.7	51.9	540.44	49.9	37.9	34.9
62.5	21.5	15.4	47.4	538.55	45.4	31.9	28.9
100	20.1	19.8	44.3	537.80	42.3	27.8	24.8
200	18.0	29.0	39.8	536.54	37.8	21.8	18.8
250	17.3	32.8	38.3	536.27	36.3	19.8	16.8

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Reference Standards

EN 50290-2	IEC 61034
ISO 11801	IEC 60754-1 & 2
ANSI/TIA/EIA-568-C2	IEC 60332-1
IEC 60332-3-24	BS 7655
RoHS directives	IEC 60811-1-3
IEC 60811-404	