Category 7 Data Cable

23AWG, S/FTP, HFFR sheath

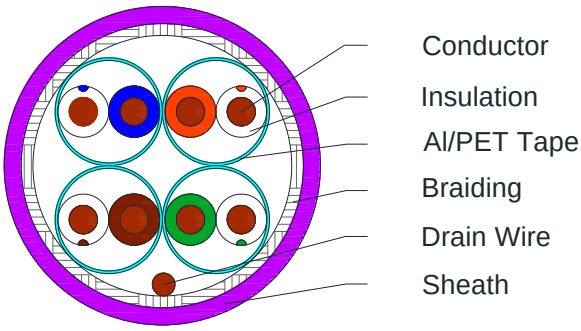
C1039

Applications

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 + BLUE Pair 2: WHITE/Orange + ORANGE Pair 3: WHITE/Green + GREEN Pair 4: WHITE/Brown + BROWN
Pair	Two wires twisted together
Individually Screened pairs	Aluminium/Polyester foil tape
Drain Wire	Solid Tinned Copper Wire
Collective Braiding	Tinned Copper wire
Rip Cord	Nylon Yarn
Sheath Material	Halogen-Free, Fire Retardant (HFFR) Standard Colour: Purple
Standard Put Up Length	305 or 500 or 1000 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	C1039
Screen type	SFTP
No. of Pairs	4
Conductor Size (AMG)	23
Screen Coverage (%)	115
Drain Wire Size (AMG)	26
Braiding Coverage (%)	60
Nom. Radial Thickness Sheath (mm)	0.55
Nom. Overall Diameter (mm)	8.2
Operating Temperature (°C)	-20°C to +75°C
Min. Bend Radius (install) (mm)	82
Nominal Cable Weight (kg/km)	74
Maximum Pulling Tension (Newton)	160

Electrical Characteristics at 20°C

Max. Conductor Resistance (Ohm/100m)	Max. DCR Conductor unbalance (%)	Mutual Capacitance (pF/km)	Velocity of Propagation (%)	Maximum Delay Skew (ns/100m)	Max. Operating Voltage
7.7	2	48	72	45	300

Frequency (MHz)	Impedance (Ohm)	Min. Return Loss (dB/100m)	Max. Attenuation (dB/100m)	Min. NEXT (dB)	Min. PSNEXT (dB)	Min. ELFEXT (dB)	Min. PSELFEXT (dB)
1	100 ± 15	20.0	2.0	80	75	78	75
4	100 ± 15	23.0	3.7	80	75	78	75
10	100 ± 15	25.0	5.9	80	75	74	71
16	100 ± 15	25.0	7.4	80	75	70	67
20	100 ± 15	25.0	8.3	80	75	68	65
31.25	100 ± 15	23.6	10.4	80	75	64	61
62.5	100 ± 15	21.5	14.9	75.5	72.5	58	55
100	100 ± 15	20.1	19.0	72.4	69.4	54	51
200	100 ± 25	17.3	27.5	67.9	64.9	48	45
250	100 ± 25	17.3	31.0	66.5	63.5	46	43
300	100 ± 25	17.3	34.2	61.9	62.2	40	37
600	100 ± 25	17.3	50.1	60.8	57.7	38	35

Reference Standards

ISO 11801, IEC 61156	IEC 61034
ANSI/TIA/EIA-568-C2	IEC 60754-1 & 2
IEC 60332-1	RoHS directives