

Category 7a Datasheet

22AWG, S-FTP Data Cable, HFFR Sheath



C1201

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	C1201
Screen type	SFTP
No. of Pairs	4
Conductor Size (AWG)	22
Screen Coverage (%)	115
Drain Wire Size (AWG)	26
Braiding Coverage (%)	60
Nom. Radial Thickness Sheath (mm)	0.55
Nom. Overall Diameter (mm)	8.5
Operating Temperature (°C)	-20°C to +75°C
Min. Bend Radius (install) (mm)	85
Nominal Cable Weight (kg/km)	80
Maximum Pulling Tension (Newton)	160

Electrical Characteristics

Conductor Resistance (Ohm/100m)	Nom. Impedance (Ohm)	Mutual Capacitance (pF/km)	Velocity of Propagation (%)	Maximum Delay Skew (ns/100m)	Max. Operating Voltage (Volts RMS)
5.79	100	48	72	45	300

Freq. (MHz)	Min. Return Loss (dB)	Max. Attenuation (dB/100m)	Min. NEXT (dB)	PSNEXT (dB)	ACRF
4	23.0	3.7	80.0	77.0	78.0
10	25.0	5.9	80.0	77.0	74.3
16	25.0	7.3	80.0	77.0	72.8
20	25.0	8.2	80.0	77.0	71.9
31.25	23.6	10.3	80.0	77.0	69.9
62.5	21.5	14.6	80.0	77.0	60.6
100	20.1	18.5	78.4	75.4	53.9
300	17.3	32.7	71.2	68.2	38.6
600	17.3	47.1	66.7	63.7	19.6
800	17.3	54.9	64.9	61.9	9.93
1000	16.0	61.9	63.4	60.4	1,47

Reference Standards

ISO/IEC 11801, EN 50173-1, EN 50288-4-1	IEC 61034
IEC 61156-5 Cat.7A Draft 46C and ISO/IEC 61156-7	IEC 60754-1&-2
IEC 60332-1	RoHS directives