



**RoHS
Compliant**

Application

A 4 pair high performance cable that consists of twisted pair conductors, used mainly for data transmission. Category 5E supports a frequency range of up to 100MHz and is designed for transmission speeds of up to 1 gigabit per second (Gigabit Ethernet). For installations where fire, smoke emissions and toxic fumes create a potential risk to life and equipment.

Characteristics

Temperature Rating	: Fixed: -20°C to +50°C
Minimum Bending Radius	: Fixed: 5 × overall diameter Flexed: 9 × overall diameter
Core Identification	: Pair 1: Blue, White/Blue Pair 2: Orange, White/Orange Pair 3: Green, White/Green Pair 4: Brown, White/Brown
Sheath Colour	: Violet

Cable Standards

ISO/IEC 11801, TIA/EIA 568-C.2, YD/T1019

Construction

Conductor

Class 1 solid copper conductor

Insulation

HDPE (High Density Polyethylene)

Sheath

LSZH (Low Smoke Zero Halogen)

This product range is available on reels of 305m or per metre

Dimensions

No. of Pairs (24 AWG)	Nominal Diameter Over Insulation mm	Nominal Overall Diameter mm	Nominal Weight kg/305m box
4	0.88	5	11

Performance Characteristics

Frequency MHz	Attenuation 20°C dB/100m	NEXT dB	PS-NEXT dB	RL dB	ELFEXT dB	PS-ELFEXT dB/100m	Phase Delay ns
1	2	65.3	62.3	20	63.8	60.8	570
4	4.1	56.3	53.3	23	51.8	48.8	552

Frequency MHz	Attenuation 20°C dB/100m	NEXT dB	PS-NEXT dB	RL dB	ELFEXT dB	PS-ELFEXT dB/100m	Phase Delay ns
8	5.8	51.8	48.8	24.5	45.7	42.7	546.73
10	6.5	50.3	47.3	25	43.8	40.8	545.38
16	8.2	47.2	44.4	25	39.7	36.7	543
20	9.3	45.8	42.8	25	37.8	34.8	542.05
25	10.4	44.3	41.3	24.3	35.8	32.8	541.2
31.25	11.7	42.9	39.9	23.6	33.9	30.9	540.44
62.5	17	38.4	35.4	21.5	27.9	24.9	538.55
100	22	35.3	32.3	20.1	23.8	20.8	537.6

Electrical Characteristics

Impedance (1-100MHz) Ω	Maximum DC Resistance of Conductor at 20°C Ω/km	Maximum Resistance Unbalance % max
100±15	110	5

Part Number Table

Description	Cable Length	Part Number
Unscreened Network Cable, Cat 5e, U/UTP, LSZH, 4 Pair, 24AWG, Violet	305m or per metre	PP002137

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