



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).

Characteristics

Temperature Rating	: Fixed: -30°C to +50°C
Minimum Bending Radius	: Fixed: 4 x overall diameter Flexed: 8 x 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	: Grey

Cable Standards

ISO/IEC 11801, TIA 568C.2

Construction

Conductor

Class 1 solid copper conductor

Insulation

HDPE (High Density Polyethylene)

Drain Wire

Tinned copper

Screen

Aluminium foil

Sheath

PVC (Polyvinyl Chloride)

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	1	6.2	14

Performance Characteristics

Frequency MHz	Attenuation 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
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 Resistance of Conductor at 20°C Ω/km	Maximum Resistance Unbalance % max
100±15	95	5

Part Number Table

Description	Cable Length	Part Number
Screened Network Cable, Cat 5e, F/UTP, PVC, 4 Pair, 24AWG, Grey	305m or per metre	PP002138

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