

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 × overall diameter Flexed: 8 × 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 568C.2, YD/T1019

## Construction

### Conductor

Class 1 solid copper conductor

### Insulation

HDPE (High Density Polyethylene)

### Drain Wire

Tinned copper

### Screen

Aluminium foil

### 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	1	5.8	14

## Performance Characteristics

Frequency MHz	Attenuation dB	NEXT dB	PS-NEXT dB	RL dB	ELFEXT dB	PSELFEXT dB	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 at 20°C

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, LSZH, 4 Pair, 24AWG, Violet	305m or per metre	PP002140

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