## Screened Cat 5e, F/UTP Cable

# pro-**Power**

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: -20°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	: Black

## **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 PE (Polyethylene)

This product range is available on reels of 100m or per metre

## Dimensions

No. of Pairs (24 AWG)	Nominal Diameter Over Insulation mm	Nominal Overall Diameter mm
4	1	6.3

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#### **Performance Characteristics**

Frequency MHz	Attenuation dB/100m	NEXT dB	PS-NEXT dB	RL dB	ELFEXT dB	PSELFEXT 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 at 20°C**

Impedance	Maximum Resistance of	DC Resistance of
(1-100MHz)	Conductor at 20°C	Conductor Unbalance
Ω	Ω/km	% max
100±15	9.5	

#### **Part Number Table**

Description	Cable Length	Part Number
Screened Network Cable, Cat 5e, F/UTP, PE, 4 Pair, 24AWG, Black	100m or per metre	PP002139

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