

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 +75°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 | : Grey |

Cable Standards

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

Construction

Conductor

Class 1 solid copper conductor

Insulation

HDPE (High Density Polyethylene)

Rip Cord

Nylon

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 | 0.87 | 4.9 | 10 |

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 |
| 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, PVC, 4 Pair, 24AWG, Grey | 305m or per metre | PP002135 |

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