

CAT 5E UTP LSZH Cable

Coming Soon



Application

A four 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).

Standards

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

Flame Retardant according to BS EN/IEC 60332-1-2

Characteristics

Temperature Rating

Fixed: -20°C to +60°C

Minimum Bending Radius

Fixed: 4 x overall diameter

Flexed: 8 x overall diameter



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)

Sheath Colour

Black



Dimensions

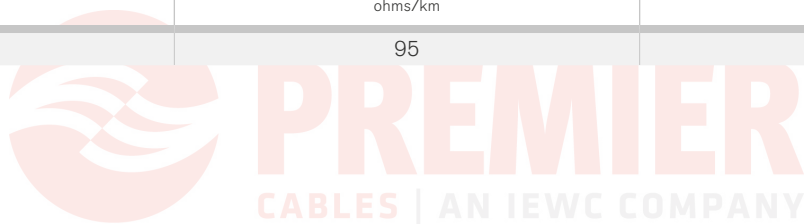
| NO. OF PAIRS (24 AWG) | NOMINAL DIAMETER OVER INSULATION mm | NOMINAL OVERALL DIAMETER mm | NOMINAL WEIGHT kg/305m box |
|--------------------------|--|--------------------------------|-------------------------------|
| 4 | 1 | 5.8 | 14 |

Performance Characteristics

| FREQUENCY MHz | ATTENUATION dB/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) ohms | MAXIMUM RESISTANCE OF CONDUCTOR AT 20°C ohms/km | MAXIMUM RESISTANCE UNBALANCE % |
|------------------------------|--|-----------------------------------|
| 100±15 | 95 | 5 |



The information contained within this datasheet is for guidance only and is subject to change without notice or liability. All the information is provided in good faith and is believed to be correct at the time of publication. When selecting cable accessories, please note that actual cable dimensions may vary due to manufacturing tolerances.