

# Cat 5E Shielded Twisted Paired LSZH Cable

pro-POWER

RoHS  
Compliant



## Application:

This cable is used for horizontal wiring in a local area network (LAN) in areas requiring mechanical protection.

## Cable Standards:

Made in accordance with the following:

ISO/IEC 11801, TIA/EIA 568B

## Construction:

|            |                                      |
|------------|--------------------------------------|
| Conductor  | : Class 1 solid copper conductor     |
| Insulation | : Solid PE (Polyethylene)            |
| Drain Wire | : Tinned copper                      |
| Screen     | : AL-Foil (Aluminium Foil)           |
| Bedding    | : LSZH (Low Smoke Zero Halogen)      |
| Braiding   | : GSWB (Galvanised Steel Wire Braid) |
| Sheath     | : LSZH (Low Smoke Zero Halogen)      |

## Characteristics:

|                     |  |
|---------------------|--|
| Temperature Rating  | : 0°C to +70°C   |
| Min. Bending Radius | : 6 × overall diameter   |
| Core Identification | : Pair 1: Blue and White/Blue<br>Pair 2: Orange and White/Orange<br>Pair 3: Green and White/Green<br>Pair 4: Brown and White/Brown |
| Sheath Colour       | : Black  |

## Electrical Characteristics:

|                                      |             |
|--------------------------------------|-------------|
| Impedance (1 - 100MHz)               | : 100Ω ±15  |
| Max. Resistance of Conductor at 20°C | : 101.2Ω/km |

| Frequency MHz | Attenuation dB/100m | Next dB | RL dB | ELFEXT dB | PS-ELFEXT dB/100m | ACR dB |
|---------------|---------------------|---------|-------|-----------|-------------------|--------|
| 1             | 2                   | 65.3    | 23.1  | 63.8      | 60.8              | 63     |
| 4             | 4.1                 | 56.3    | 23    | 51.7      | 48.7              | 51     |
| 8             | 5.8                 | 51.8    | 24.5  | 45.7      | 42.7              | 45     |
| 10            | 6.5                 | 50.3    | 25    | 43.8      | 40.8              | 43     |
| 16            | 8.2                 | 47.3    | 25    | 39.7      | 36.7              | 37     |
| 20            | 9.3                 | 45.8    | 25    | 37.7      | 34.7              | 35     |
| 25            | 10.23               | 44.3    | 24.2  | 35.8      | 32.8              | 32     |

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| Frequency<br>MHz | Attenuation<br>dB/100m | Next<br>dB | RL<br>dB | ELFEXT<br>dB | PS-ELFEXT<br>dB/100m | ACR<br>dB |
|------------------|------------------------|------------|----------|--------------|----------------------|-----------|
| 31.25            | 11.71                  | 42.9       | 23.3     | 33.9         | 30.9                 | 29        |
| 62.5             | 17.25                  | 38.4       | 20.7     | 27.8         | 24.8                 | 19        |
| 100              | 22                     | 35.3       | 19.24    | 23.8         | 20.8                 | 9         |

## Dimensions:

| No. of Pairs<br>(24 AWG) | Nominal Thickness<br>of Insulation | Nominal Overall<br>Diameter | Nominal Weight<br>kg/km |
|--------------------------|------------------------------------|-----------------------------|-------------------------|
| 4                        | 1.04mm                             | 9.4mm                       | 124                     |

## Part Number Table

| Description                                  | Reel Length<br>(m) | Part Number |
|--|--------------------|-------------|
| Cat 5E shielded<br>Twisted Paired LSZH Cable | 50                 | PP000860    |

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