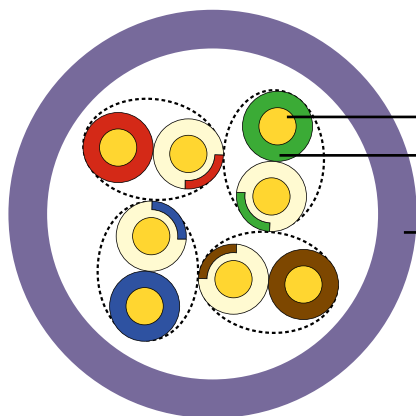


# Cat.5e U/UTP LSZH 4x2x24 AWG



## Application

This data cable range is designed for analogue and digital signal transmission in audio, video and data applications in data communication systems supporting 100 MHz, 1.0 Gbit/s 1 Gigabit Ethernet.



## Cable structure

- **Conductor:** Copper wire 24 AWG
- **Insulation:** HDPE in compliance with TIA 568 insulation colour coding
- **Sheath:** LSZH/LSOH RAL 4005 Violet

## Standards

ISO/IEC 11801-1, IEC 61156-5  
EN 50288-3-1  
ANSI EIA/TIA 568.2-D



**DATAWAY**

## Specifications

|                              |              |                   |
|------------------------------|--------------|-------------------|
| Temperature range:           | fixed.....   | -20°C...+60°C     |
|                              | flexing..... | 0°C...+50°C       |
| Bending radius:              | fixed.....   | min. 4 x D        |
|                              | flexing..... | min. 8 x D        |
| Tensile strength.....        |              | max. 85 N         |
| Crushing strength.....       |              | min. 1000 N/10 cm |
| Impact strength.....         |              | min. 10 impacts   |
| Conductor resistance.....    |              | max. 95 Ω/km      |
| Resistance imbalance.....    |              | max. 2%           |
| Insulation resistance.....   |              | min. 5000 MΩ x m  |
| Capacitance.....             |              | max. 56 pF/m      |
| Capacity imbalance.....      |              | max. 1600 pF/km   |
| Velocity of propagation..... |              | 67-69%            |
| Propagation delay.....       |              | max. 537 ns/100 m |
| Signal delay.....            |              | max. 45 ns/100 m  |
| Test voltage.....            |              | 1000 V            |
| Operating voltage.....       |              | max. 72 V         |

| Frequency [MHz] | Attenuation [dB/100 m] | NEXT [dB] | PS-NEXT [dB] | ACR [dB/100 m] | PS-ACR [dB/100 m] | ACR-F [dB/100 m] | PS-ACR-F [dB/100 m] | RL [dB] |
|-----------------|------------------------|-----------|--------------|----------------|-------------------|------------------|---------------------|---------|
|                 | max.                   | min.      | min.         | min.           | min.              | min.             | min.                | min.    |
| 1               | 2,1                    | 65,3      | 62,3         | 63,2           | 60,2              | 64,0             | 61,0                | 20,0    |
| 4               | 4,1                    | 56,3      | 53,3         | 52,2           | 49,2              | 52,0             | 49,0                | 23,0    |
| 10              | 6,5                    | 50,3      | 47,3         | 43,8           | 40,8              | 44,0             | 41,0                | 25,0    |
| 16              | 8,3                    | 47,2      | 44,2         | 39,0           | 36,0              | 39,9             | 36,9                | 25,0    |
| 20              | 9,3                    | 45,8      | 42,8         | 36,5           | 33,5              | 38,0             | 35,0                | 25,0    |
| 31.25           | 11,7                   | 42,9      | 39,9         | 31,1           | 28,1              | 34,1             | 31,1                | 23,6    |
| 62.50           | 17,0                   | 38,4      | 35,4         | 21,4           | 18,4              | 28,1             | 25,1                | 21,5    |
| 100             | 22,0                   | 35,3      | 32,3         | 13,3           | 10,3              | 24,0             | 21,0                | 20,1    |

| Cable structure              | Diameter, mm nom | Cable weigh, kg/km, approx. | Sheath color | Packaging, m | CPR |
|------------------------------|------------------|-----------------------------|--------------|--------------|-----|
| Cat.5e U/UTP 4x2x24 AWG LSZH | 5,1              | 33                          | Violet       | 100/305/500  | DCA |

