

# U/UTP CAT5E 4PR LSZH



## STANDARDS

IEC 61156-5  
EN 50288-3-1  
EN 50173  
ISO/IEC 11801  
EN 50575  
EN 50399  
EN 13501-6

## APPLICATIONS

10BASE-T (IEEE 802.3)  
4/16 Mbps TOKEN RING (IEEE 802.5)  
100BASE-VG-AnyLAN  
100 Mbps TP-PMD (ANSI X3T9.5)  
100BASE-T (IEEE 802.3)  
55/155 Mbps ATM  
1000BASE-T (Gigabit Ethernet)

## REACTION TO FIRE

Class: Cca-s1,d2,a1  
(according to EN 13501-6)

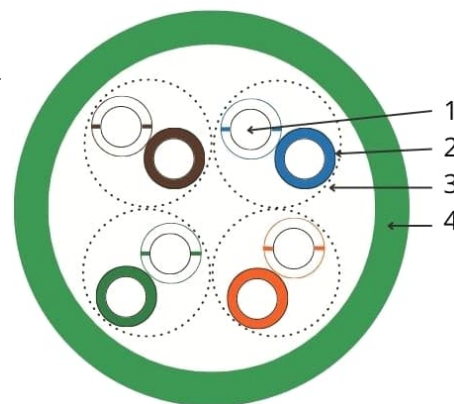
## COLOUR CODES

| Pairs | Colours               |
|-------|-----------------------|
| 1     | White-Blue / Blue     |
| 2     | White-Orange / Orange |
| 3     | White-Green / Green   |
| 4     | White-Brown / Brown   |

Outer sheath colour:  
• Green [GN] - Cca

## CONSTRUCTION

- 1 – Conductor: 24 AWG, Solid Bare Annealed Copper
- 2 – Insulation: Polyolefin
- 3 – Formation: Varying short pair lay-length (4 pairs)
- 4 – Sheath: LSZH material



(Not at scale)

## ELECTRICAL AND DIMENSIONAL CHARACTERISTICS

Max. dc resistance ( $\Omega$ /km) @20°C: 93,8  
Nom. mutual capacity (nF/km) @1kHz: 56  
NVP (% of light speed): 65  
Mean input impedance ( $\Omega$ ):  $100 \pm 5$  @ 100MHz  
Propagation delay (ns@10MHz): max. 518  
Delay skew (ns/100m): max. 40  
Coupling Att dB (min.): @30-100MHz 40  
@100-1000MHz 40-20log(f/100)

Max. pulling tension (N): 80  
Min. bending radius: 4x outer diameter

| Euroclass | Approx. outer diameter (mm) | Approx. weight (kg/km) |
|-----------|-----------------------------|------------------------|
| Cca       | 5,6                         | 39,5                   |

## PART NUMBER/PACKAGING

Cca: 60094718 / Box 305m [GN]  
Cca: 60094717 / Reels 500m [GN]  
Cca: 60094716 / Reels 1000m [GN]

## OTHER CHARACTERISTICS

Storage Temperature -20°C to 70°C  
Operating Temperature -20°C to 70°C  
Laying Temperature -5°C to +5°C  
(recommendation: between -5°C and +5°C, prior storage 24h at 20°C)

Note: DATA cables are not suitable for low impedance applications as: heating, lighting, etc...

## TRANSMISSION CHARACTERISTICS

| Freq MHz | IL dB/100m (max.) | NEXT dB (min.) | PS-NEXT dB (min.) | ELFEXT (ACR-F) dB/100m (min.) | PS-ELFEXT (PSACR-F) dB/100m (min.) | ACR dB/100m (min.) | PS-ACR dB/100m (mn.) | RL dB/100m (min.) |
|----------|-------------------|----------------|-------------------|-------------------------------|------------------------------------|--------------------|----------------------|-------------------|
| 1*       | 2,1               | 65,3           | 62,3              | 64,0                          | 61,0                               | 63,2               | 60,2                 | 20,0              |
| 4        | 4,1               | 56,3           | 53,3              | 52,0                          | 49,0                               | 52,2               | 49,2                 | 23,0              |
| 10       | 6,5               | 50,3           | 47,3              | 44,0                          | 41,0                               | 43,8               | 40,8                 | 25,0              |
| 16       | 8,3               | 47,2           | 44,2              | 39,9                          | 36,9                               | 39,0               | 36,0                 | 25,0              |
| 20       | 9,3               | 45,8           | 42,8              | 38,0                          | 35,0                               | 36,5               | 33,5                 | 25,0              |
| 31,25    | 11,7              | 42,9           | 39,9              | 34,1                          | 31,1                               | 31,1               | 28,1                 | 23,6              |
| 62,5     | 17,0              | 38,4           | 35,4              | 28,1                          | 25,1                               | 21,4               | 18,4                 | 21,5              |
| 100      | 22,0              | 35,3           | 32,3              | 24,0                          | 21,0                               | 13,3               | 10,3                 | 20,1              |
| 125      | 24,9              | 33,8           | 30,8              | 22,1                          | 19,1                               | 9,0                | 6,0                  | 19,4              |
| 200*     | 32,4              | 30,8           | 27,8              | 18,0                          | 15,0                               | ---                | ---                  | 18,0              |
| 250*     | 36,9              | 29,3           | 26,3              | 16,0                          | 13,0                               | ---                | ---                  | 17,3              |
| 300*     | 41,0              | 28,1           | 25,1              | 14,5                          | 11,5                               | ---                | ---                  | 16,8              |
| 500*     | 55,5              | 24,8           | 21,8              | 10,0                          | 7,0                                | ---                | ---                  | 15,2              |
| 600*     | 62,0              | 23,6           | 20,6              | 8,4                           | 5,4                                | ---                | ---                  | 14,7              |

\* For information only.

Note: Insertion loss values for 20°C.

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