

# 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

## PART NUMBER/PACKAGING

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

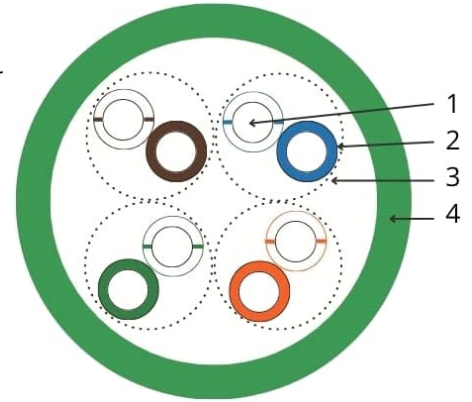
## OTHER CHARACTERISTICS

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...

## 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

## 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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