

# F/UTP CAT6A 4PR LSZH



## STANDARDS

IEC 61156-5  
EN 50288-10-1  
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)  
1.2 / 2.4 Gbps ATM  
10G BASE-T

## REACTION TO FIRE

Class: Dca-s2,d2,a1  
Eca  
(according to EN 13501-6)

## COLOUR CODES

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

Outer sheath colour:

- White [WH] - Dca
- Grey [GY] - Eca

## PART NUMBER/PACKAGING

Dca: 60080935 / Drum 500m [WH]  
Dca: 60095243 / Drum 1000m [WH]  
Eca: 60089646 / Drum 500m [GY]  
Eca: 60080934 / Drum 1000m [GY]

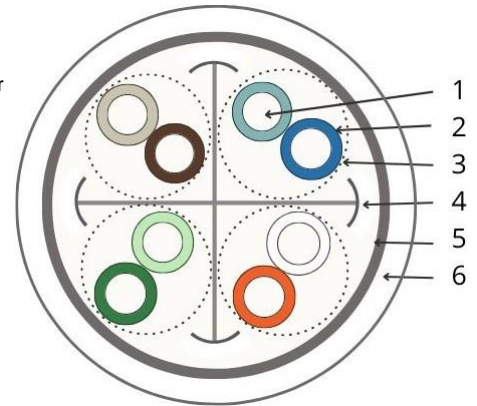
## OTHER CHARACTERISTICS

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: 23 AWG, Solid Bare Annealed Copper
- 2 – Insulation: Polyolefin Foam-Skin
- 3 – Formation: Varying short pair lay-length (4 pairs)
- 4 – Cross Filler
- 5 – Foil: Overall Aluminium/polyester shielding
- 6 – Sheath: LSZH material



(Not at scale)

## ELECTRICAL AND DIMENSIONAL CHARACTERISTICS

Max. dc resistance ( $\Omega$ /km) @20°C: 95,0  
Nom. mutual capacity (nF/km) @1kHz: 56  
NVP (% of light speed): 70  
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 55  
@100-1000MHz 55-20log(f/100)  
Max. pulling tension (N): 80  
Min. bending radius: 4x outer diameter

Euroclass	Approx. outer diameter (mm)	Approx. weight (kg/km)
Dca	7,5	55,5
Eca	7,2	49,5

## 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	75,3	72,3	68,0	65,0	73,2	70,2	20,0
4	3,8	66,3	63,3	56,0	53,0	62,5	59,5	23,0
10	5,9	60,3	57,3	48,0	45,0	54,4	51,4	25,0
16	7,5	57,2	54,2	43,9	40,9	49,8	46,8	25,0
20	8,4	55,8	52,8	42,0	39,0	47,4	44,4	25,0
31,25	10,5	52,9	49,9	38,1	35,1	42,4	39,4	23,6
62,5	15,0	48,4	45,4	32,1	29,1	33,4	30,4	21,5
100	19,1	45,3	42,3	28,0	25,0	26,2	23,2	20,1
125	21,5	43,8	40,8	26,1	23,1	22,3	19,3	19,4
200	27,6	40,8	37,8	22,0	19,0	13,2	10,2	18,0
250	31,1	39,3	36,3	20,0	17,0	8,3	5,3	17,3
300	34,3	38,1	35,1	18,5	15,5	3,9	0,9	17,3
500	45,3	34,8	31,8	14,0	11,0	---	---	17,3
600*	50,1	33,6	30,6	12,4	9,4	---	---	17,3

\* For information only.

Note: Insertion loss values for 20°C.

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