

CABLE ETHERNET 4PAIRES F/UTP CAT6A LSZH 500MHZ

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

REACTION TO FIRE

Class: D_{ca}-s2,d2,a1
(according to EN 13501-6)

CERTIFICATION



COLOUR CODES

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

Outer sheath colour: White [BL]

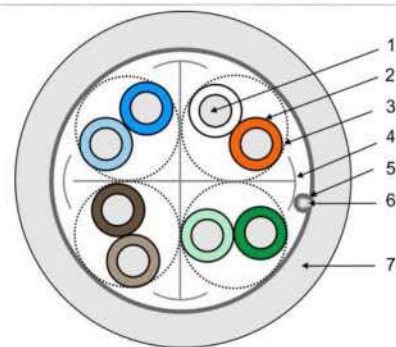
PART NUMBER / PACKAGING

60080935 / Reels 500m

OTHER CHARACTERISTICS

Storage Temperature -20°C to 70°C
Operating Temperature -20°C to 70°C

Laying Temperature -5°C to +50°C
(recommendation: between -5°C and +5°C,
prior storage 24h at 20°C)



(Not at scale)

CONSTRUCTION

- 1 – Conductor: 23 AWG, Solid Bare Annealed Copper.
- 2 – Insulation: Polyolefin.
- 3 – Varying short pair lay-length (4 pairs).
- 4 – Cross Filler.
- 5 – Aluminium/Polyester foil.
- 6 – Tinned copper drain wire.
- 7 – Sheath: LSZH material.

ELECTRICAL AND DIMENSIONAL CHARACTERISTICS

Max. dc Resistance (Ω/km) @20°C:	95.0
Nom. Mutual Capacity (nF/km)@1kHz:	56
NVP (% of light speed):	70
Mean input Impedance (Ω):	100 ± 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

	Approx. outer diameter (mm)	Approx. weight (kg/km)	Min. bending radius (mm)
Euroclass D _{ca}	7.6	55.2	31

TRANSMISSION CHARACTERISTICS

Freq MHz	ATTN	NEXT	PS-NEXT	ELFEXT (ACR-F)	PS-ELFEXT (PSACR-F)	ACR	PS-ACR	RL
	dB/100m (max.)	dB (min.)	dB (min.)	dB/100m (min.)	dB/100m (min.)	dB/100m (min.)	dB/100m (min.)	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
8	5.3	61.8	58.8	49.9	46.9	56.4	53.4	24.5
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
25	9.4	54.3	51.3	40.0	37.0	45.0	42.0	24.3
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	19.0	45.3	42.3	28.0	25.0	26.2	23.2	20.1
155	24.1	42.4	39.4	24.2	21.2	18.4	15.4	18.8
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
350	37.2	37.1	34.1	17.1	14.1	---	---	17.3
400	40.1	36.3	33.3	16.0	---	---	---	17.3
500	45.3	34.8	31.8	14.0	---	---	---	17.3