

# CABLE ETHERNET 4PAIRES F/UTP LSZH CAT6 350MHZ

## F/UTP CAT6 4PR LSZH

### STANDARDS

IEC 61156-5  
EN 50288-5-1  
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 Gbps ATM

### REACTION TO FIRE

Class: D<sub>ca</sub>-s2,d2,a1  
E<sub>ca</sub>  
(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 (D<sub>ca</sub>): White [BL]  
(E<sub>ca</sub>): Grey [GR]

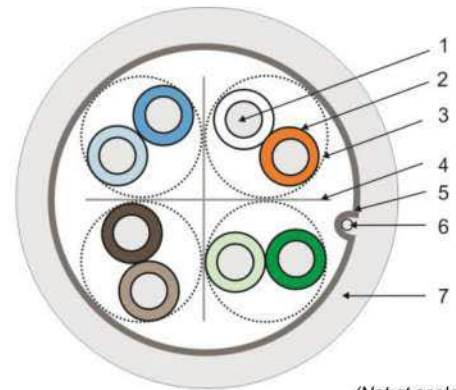
### PART NUMBER / PACKAGING

D<sub>ca</sub>: 60080918 / Reels 500m  
D<sub>ca</sub>: 60080920 / Reels 1000m  
E<sub>ca</sub>: 60080915 / Reels 500m  
E<sub>ca</sub>: 60080916 / Reels 1000m

### 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 (for Euroclass D<sub>ca</sub> cable).
- 7 – Sheath: PVC material (for Euroclass E<sub>ca</sub> cable).

### ELECTRICAL AND MECHANICAL CHARACTERISTICS

Max. dc Resistance (Ω/km) @20°C:	95.0
Nom. Mutual Capacity (nF/km)@1kHz:	56
NVP (% of light speed):	72
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 <sub>ca</sub>	7.2	47.4	29
Euroclass E <sub>ca</sub>	7.1	47.0	28

### TRANSMISSION CHARACTERISTICS

Freq (MHz)	ATTN (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 (min.))	RL (dB/100m (min.))
				ELFEXT (dB/100m (min.))	PS-ELFEXT (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	58.0	55.0	62.5	59.5	23.0	
8	5.2	61.8	58.8	51.9	48.9	56.5	53.5	24.5	
10	5.9	60.3	57.3	50.0	47.0	54.4	51.4	25.0	
16	7.4	57.2	54.2	45.9	42.9	49.9	46.9	25.0	
25	9.2	54.3	51.3	42.0	39.0	45.0	42.0	24.3	
31.25	10.3	52.9	49.9	40.1	37.1	42.6	39.6	23.6	
62.5	14.5	48.4	45.4	34.1	31.1	33.8	30.8	21.5	
100	18.4	45.3	42.3	30.0	27.0	26.9	23.9	20.1	
155	22.9	42.4	39.4	26.2	23.2	19.5	16.5	18.8	
200	26.1	40.8	37.8	24.0	21.0	14.7	11.7	18.0	
250	29.2	39.3	36.3	22.0	19.0	10.1	7.1	17.3	
300*	32.0	38.1	35.1	20.5	17.5	6.1	3.1	17.3	
350*	34.7	37.1	34.1	19.1	16.1	2.5	1.0	17.3	

\* For information only.