

## F/UTP CAT5E 4PR LSZH $D_{ca}$

## F/UTP CAT5E 4PR PVC $E_{ca}$

### STANDARDS

ANSI/TIA-568-C.2  
IEC 61156-5  
EN 50288-2-1  
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:  $D_{ca}$ -s2,d2,a1  
 $E_{ca}$   
(according to EN 13501-6)

### CERTIFICATION



### COLOUR CODES

Pairs Colours Combinations

1 White-Blue / Blue  
2 White-Orange / Orange  
3 White-Green / Green  
4 White-Brown / Brown

Outer sheath colour ( $D_{ca}$ ): White [BL]  
( $E_{ca}$ ): Grey [GR]

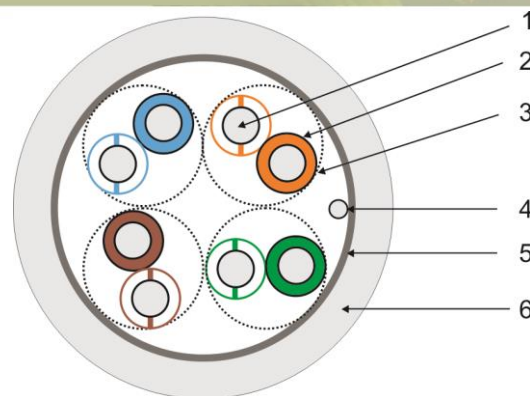
### PART NUMBER / PACKAGING

$D_{ca}$ : 60080880 / Reels 500m  
 $D_{ca}$ : 60080881 / Reels 1000m  
 $D_{ca}$ : 60080882 / Box 305m  
 $E_{ca}$ : 60080874 / Reels 500m  
 $E_{ca}$ : 60080875 / Reels 1000m  
 $E_{ca}$ : 60080876 / Box 305m

### 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: 24 AWG, Solid Bare Annealed Copper.
- 2 – Insulation: Polyolefin.
- 3 – Varying short pair lay-length (4 pairs).
- 4 – Tinned Copper drain wire.
- 5 – Aluminium/Polyester foil.
- 6 – Sheath: LSZH material (for Euroclass  $D_{ca}$  cable).
- 6 – Sheath: PVC material (for Euroclass  $E_{ca}$  cable).

### ELECTRICAL AND DIMENSIONAL CHARACTERISTICS

Max. dc Resistance ( $\Omega$ /km) @20°C:	95.0
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 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 $D_{ca}$	5.7	36.5	23
Euroclass $E_{ca}$	5.6	36.2	22

### TRANSMISSION CHARACTERISTICS

Freq MHz	ATTN dB/100m (max.)	NEXT dB (min.)	PS-NEXT dB (min.)	ELFEXT (ACR-F)		PS-ELFEXT (PSACR-F)		ACR dB/100m (min.)	PS-ACR dB/100m (min.)	RL dB/100m (min.)
				dB/100m (min.)	dB/100m (min.)	dB/100m (min.)	dB/100m (min.)			
1*	2,1	65,3	62,3	64,0	61,0	63,2	50,2	20,0		
4	4,0	56,3	53,3	52,0	49,0	52,3	49,3	23,0		
8	5,6	51,8	48,8	45,9	42,9	46,1	43,1	24,5		
10	6,3	50,3	47,3	44,0	41,0	44,0	41,0	25,0		
16	8,0	47,2	44,2	39,9	36,9	39,2	36,2	25,0		
25	10,1	44,3	41,3	36,0	33,0	34,2	31,2	24,3		
31.25	11,4	42,9	39,9	34,1	31,1	31,5	28,5	23,6		
62.5	16,5	38,4	35,4	28,1	25,1	21,9	18,9	21,5		
100	21,3	35,3	32,3	24,0	21,0	14,0	11,0	20,1		
125*	24,1	33,8	30,8	22,1	19,1	9,7	6,7	19,4		
155*	27,2	32,4	29,4	20,2	17,2	5,2	2,2	18,8		
200*	31,4	30,8	27,8	18,0	15,0	---	---	18,0		

\* For information only.

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

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