

F/UTP CAT5E 4PR LSZH D_{ca}

F/UTP CAT5E 4PR PVC E_{ca}

STANDARDS

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]

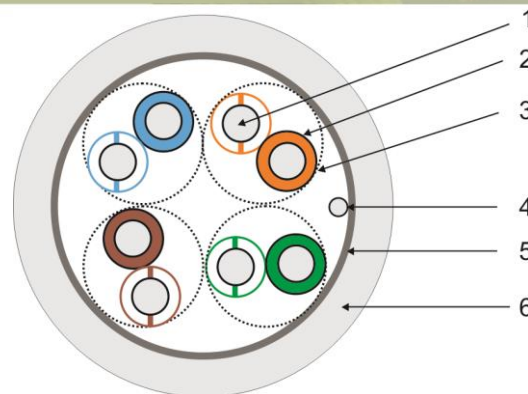
PART NUMBER / PACKAGING

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 (Ω /km) @20°C:	95.0
Nom. Mutual Capacity (nF/km)@1kHz:	56
NVP (% of light speed):	65
Mean input Impedance (Ω):	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 dB/100m (min.)	PS-ELFEXT dB/100m (min.)	ACR dB/100m (min.)	PS-ACR dB/100m (min.)	RL 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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