

U/UTP CAT6 4PR LSZH

D_{ca}

U/UTP CAT6 4PR PVC

E_{ca}

STANDARDS

IEC 61156-5
EN 50288-6-1
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_{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]
(D_{ca}): Violet [VL]
(E_{ca}): Grey [GR]

PART NUMBER / PACKAGING

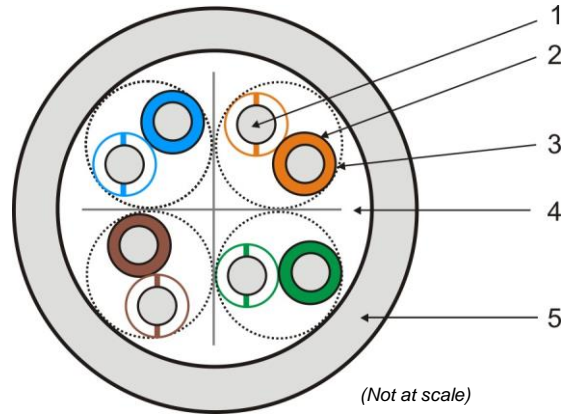
D_{ca}: 60087917 / Reels 500m [BL]
D_{ca}: 60087918 / Reels 1000m [BL]
D_{ca}: 60087919 / Box 305m [BL]
D_{ca}: 60097858 / Reels 1000m [VT]
D_{ca}: 60097857 / Box 305m [VT]
E_{ca}: 60087914 / Reels 500m
E_{ca}: 60087915 / Reels 1000m
E_{ca}: 60087916 / Box 305m

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)

Edition: December 2021



(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 – Sheath: LSHF material (for Euroclass D_{ca} cable).
- 5 – Sheath: PVC material (for Euroclass E_{ca} cable).

ELECTRICAL AND MECHANICAL CHARACTERISTICS

Max. dc Resistance (Ω/km) @20°C:	93.8
Nom. Mutual Capacity (nF/km)@1kHz:	56
NVP (% of light speed):	65
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 40 @100-1000MHz 40-20log(f/100)
Max. Pulling tension (N):	80

	Approx. outer diameter (mm)	Approx. weight (kg/km)	Min. bending radius (mm)
Euroclass D _{ca}	5.4	35.7	22
Euroclass E _{ca}	5.5	36.2	23

TRANSMISSION CHARACTERISTICS

Freq	ATTN	NEXT	PS-NEXT	ELFEXT	PS-ELFEXT	ACR	PS-ACR	RL
MHz	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	5,4	61,8	58,8	49,9	46,9	56.5	53.5	24,5
10	6,0	60,3	57,3	48,0	45,0	54.4	51.4	25,0
16	7,6	57,2	54,2	43,9	40,9	49.9	46.9	25,0
25	9,6	54,3	51,3	40,0	37,0	45.0	42.0	24,3
31.25	10,7	52,9	49,9	38,1	35,1	42.6	39.6	23,6
62.5	15,5	48,4	45,4	32,1	29,1	33.8	30.8	21,5
100	19,9	45,3	42,3	28,0	25,0	26.9	23.9	20,1
155	25,3	42,4	39,4	24,2	21,2	19.5	16.5	18,8
200	29,1	40,8	37,8	22,0	19,0	14.7	11.7	18,0
250	33,0	39,3	36,3	20,0	17,0	10.1	7.1	17,3
300*	36,6	38,1	35,1	18,5	15,5	6.1	3.1	17,3
350*	40,0	37,1	34,1	17,1	14,1	2.5	1.0	17,3

* For information only.

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

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