U/UTP CAT6 HD 4PR LSZH

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
10G BASE-T (Length<50m)

REACTION TO FIRE

Class: C_{ca}-s1,d1,a1
(according to EN 13501-6)

COLOUR CODES

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

Outer sheath colour: Green [VD]

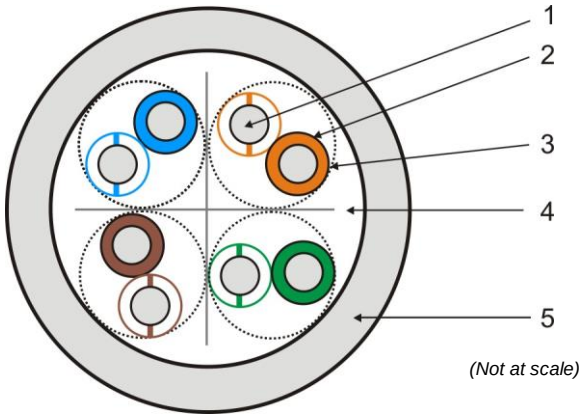
PART NUMBER / PACKAGING

60094814 / Boxes 305m
60093574 / Reels 500m
60094316 / Reels 1000m

OTHER CHARACTERISTICS

Storage Temperature -20ºC to 70ºC
Operating Temperature -20ºC to 70ºC

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



(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: LSZH material.

ELECTRICAL AND DIMENSIONAL CHARACTERISTICS

Max. dc resistance (Ω/km) @20ºC:	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 C_{ca}	5.7	40.5	23.0

TRANSMISSION CHARACTERISTICS

Freq	ATTN	NEXT	PS-NEXT	ELFEXT (ACR-F)	PS-ELFEXT (PSACR-F)	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.)
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.

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

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