

CAT6A F/UTP LSLTx

ISO/IEC 11801-1 2nd ed.,IEC 61156-5

EN 50173-1,EN 50288-10-1 ANSI EIA/TIA 568.2-D/P 54429

72V



Application

They are used in cabling in offices, management, R&D buildings with high terminal density, signal communication in information communication systems.

10 Base-T (IEEE 802.3)
100 Base-T (IEEE 802.3u)
1000Base-T (IEEE 802.3u)
10G Base-T Gigabit Ethernet
IEEE 802.3af (Type 1 PoE)
IEEE 802.3at (Type 2 PoE)
IEEE 802.3bt (Type 3 PoE)
IEEE 802.3bt (Type 4 PoE)
ATM 155
Token ring (IEEE 805.5)
TP-PMD (ANSI X3T9.5)
Power over HDBaseT (PoH)

Construction

Conductor	Electrolytic solid copper conductor (Awg 23)
Insulation	Solid polyethylene (1,10±0,05mm)
Stranding	Cores are twisted in pairs, and all the pairs are twisted together
Screen	Tinned copper drain wire;Aluminium/pet tape
Outer sheath	LSLTx compound
Outer sheath color	RAL 7032 (other color on request)
Outer sheath diameter	7,20 ±0,30mm

Conductor resistance	Resistance imbalance	Capacitance	Capacity imbalance	Velocity of propagation	Signal delay	Characteristic impedance	Test voltage
max. 75 Ω/km	max %1	nom. 43 pF/m	max. 1600 pF/km	66%	max.45 ns/100m	100 ± 5 Ω @100MHz	1000V

Transfer Impedance	TCL	Coupling attenuation	Segregation class	Bending radius	Temperature range	Insulation resistance	Operating voltage
Grade 1	min. level 2	Type 1b	C	fixed min. 4 x D flexing min. 8 x D	fixed -30°C ...+60°C flexing 0°C ...+50°C	min 5000 MΩ x m	72V
at 1/10/30/100 Mhz	50 dB ≥	30 to 100 Mhz					
10<10<30<100 mΩ/m	55 dB	≥ 70					

Flame propagation	Smoke density	Corrosive gases	Halogen free
IEC 60332-1-2; IEC 60332-3-24; VDE 0482-332-1-2; EN 60332-1-1	IEC 61034-2 VDE 0482-1034-2 EN 61034-2	IEC 60754-2 VDE 0482-267-2-3 EN 60754-2	IEC 60754-1 VDE 0482-267-2-1 EN 60754-1

Frequency	Attenuation	Near end crosstalk	Ps-Next	Return Loss	ACR-N	ACR-F (ELFEXT)	PS-ACR-F (PS-ELFEXT)
MHz	dB/100	dB	dB	dB/100	dB/100	dB/100	dB/100
4	3,6	90	80	23	70	90	90
10	5,6	95	90	26	60	85	90
16	7,1	95	90	28	55	95	90
31,25	10,5	90	85	25	46	85	85
62,5	14,6	90	90	25	37	80	80
100	18,3	90	90	23	29	75	70
250	29,5	90	75	20	10	70	65
400	36	75	75	23	-20	55	65
500	42	75	75	23	-23	55	55
600	46	85	75	23	-25	55	50