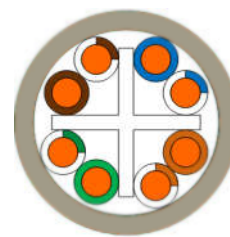


CAT6A U/UTP LSLTx

Ref. Std. ISO/IEC 11801 2nd ed., IEC 61156-5 EN 50173-1,
EN 50288-5-1 ANSI /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 (0,98 ±0,05 mm)
Stranding	Cores are twisted in pairs, and all the pairs are twisted together
Outer sheath	LSLTx compound
Outer sheath color	RAL 7032 Grey (other colors on request)
Outer sheath diameter	6,00±0,30 mm

Conductor resistance	Resistance imbalance	Capacitance	Capacity imbalance	Velocity of propagation	Signal delay	Characteristic impedance	Test voltage
max.85 Ω/km	max %1	nom. 50 pF/m	max. 1500 pF/km	67%	max.45 ns/100m	100 ± 5 Ω @100MHz	1000V

TCL	Segregation class	Bending radius	Temperature range	Insulation resistance	Operating voltage
min. level 2	b	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
50 dB ≥					
55 dB					

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