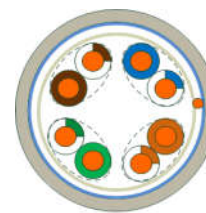


CAT5e F/UTP LSLTx

Ref. Std. ISO/IEC 11801 2nd ed., IEC 61156-5
EN 50173-1, EN 50288-3-1 ANSI EIA/TIA 568.2-D

72V



Application

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

IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T

IEEE 802.5 16 MB; ISDN; TPDDI; ATM

IEEE 802.3af (Type 1 PoE)

IEEE 802.3at (Type 2 PoE)

Construction

Conductor	Electrolytic solid copper conductor (Awg 24)
Insulation	Solid polyethylene (1,03±0,05mm)
Stranding	Cores are twisted in pairs, and all the pairs are twisted together
Wrapping	Pet tape
Screen	Tinned copper drain wire;Aluminium/pet tape
Outer sheath	LSLTx compound
Outer sheath color	RAL 7032 (other color on request)
Outer sheath diameter	6,05 ±0,30mm

Conductor resistance	Resistance imbalance	Capacitance	Capacity imbalance	Velocity of propagation	Signal delay	Characteristic impedance	Test voltage
max.95 Ω/km	max %1	nom. 45 pF/m	max. 1600 pF/km	67%	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 2	min. level 2	Type II	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	72 V
at 1/10/30/100 Mhz	50 dB ≥	30 to 100 Mhz					
55<100<200<1000mΩ/m	50 dB	≥ 55					

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	3,8	75	72	23	70	68	65
10	6	75	72	23	70	55	52
16	7,8	65	62	23	59	53	50
31,25	10,5	55	52	22	50	45	42
62,5	15,5	45	42	21	40	35	32
100	19	40	37	21	37	30	27
200	19	40	37	21	37	30	27