

CAT6 U/UTP 4P LSOH 450MHz Installation Cable.


- Cat.6, U/UTP Solid Bare copper cable
- Data transmission frequencies of up to **450Mhz**, AWG23, LSZH
- Support POE/POE+/POE++ (IEEE 802.3af/at/bt) 4POE up to 100W
- 500m reel or 305m Box.

Applications	Primary (Campus), Secondary (Riser), Tertiary (Horizontal) IEEE 802.3: 10Base-T; 100Base-T; 1000Base-T; IEEE 802.5 16 MB; ISDN; TPDDI; ATM
Standards	ISO/IEC 11801 2nd ed.; IEC 61156-5 2nd ed. EN 50173-1; EN 50288-6-1 EIA/TIA 568B.2.1
Fire Rating	LSZH IEC 60332-1; IEC 60754-2; IEC 61034;

Constructions	
Conductor	bare copper wire Ø 0.56 mm (AWG23)
Insulation	Polyethylene, Ø 0.98 mm
Twisting	2 cores to the pair
Cable lay up	4 pairs to the core
Screen	NO
Sheath	LSZH, grey RAL 7035
Outer diameter (mm)	5.9
Tensile force (N)	100
Mechanical Data	
Bending radius	≥ 35 mm without load ≥ 55 mm with load
Temperature range	during operation :-20°C...+ 60°C during installation: 0°C...+ 50°C
Electrical Data at 20°C ± 5°C	
DC loop resistance	≤ 19 Ω/100m
Resistance unbalance	≤ 2 %
Insulation resistance (500 V)	≥ 5000 MΩ.km
Capacitance	45 pF/m max.
Capacitance unbalance (pair to ground)	≤ 1600 pF/km max.
Mean characteristic impedance	(100 ± 5) Ω
Nominal velocity of propagation	approx. 66%
Propagation delay	≤ 538 ns/100m
Delay skew	≤ 40 ns/100m
Test voltage (DC, 1 min)	Core/Core 1000 V

Typical transmission characteristics (at 20 °C)

f (MHz)	Attenuation (dB/100m)		NEXT (dB)		PS-NEXT (dB)		ELFEXT (dB/100m)		PS-ELFEXT (dB/100m)		Return loss (dB)	
	Max	Typ	Min	Typ	Min	Typ	Min	Typ	Min	Typ	Min	Typ
1	2.1	1.9	66.0	80	64.0	77	66.0	80	64.0	77	20	22
10	6.0	5.7	59.3	65	57.3	62	50.0	65	47.0	62	25	27
16	7.6	7.3	56.2	62	54.2	59	45.9	61	43.0	58	25	27
20	8.5	8.3	54.8	61	52.8	58	44.0	59	41.0	56	25	27
31.25	10.8	10.3	51.9	58	49.9	55	40.1	55	37.1	52	23.6	27
62.5	15.5	14.8	47.4	53	45.4	50	34.1	49	31.1	46	21.5	25
100	19.9	19.0	44.3	50	42.3	47	30.0	45	27.0	42	20.1	25
250	33.0	31.0	38.3	44	36.3	41	22.0	37	19.0	34	17.3	22
450	-	36.0	-	37	-	34	-	29	-	26		20