

UTP Category 6 Indoor Cable

Cross-sectional view		Packing Choices							
Sheath Printing		Maximum Referenced Frequency							
As per Request		250 MHz							
Reference Standards		Electrical Characteristics							
YD/T1019-2013		20°C Conductor Resistance	Ω/km ≤93.5						
ANSI/TIA-568B-C.2		Pair to Pair Capacitance Unbalance	% ≤2						
ISO/IEC11801 IEC61156.5		Pair to Ground Capacitance Unbalance	% ≤4						
UL444, UL1666, CE, RoHS		Coupling Attenuation at 30~100 MHz	dB /						
		Coupling Attenuation at 100~250 MHz	dB /						
Cable Construction		Physical Performance (Before Ageing)							
Conductor	Solid Oxygen-free Copper	Elongation at Break of the Sheath	Unit						
Number of Pairs	4P	LSZH	% ≥125						
Conductor OD	23AWG 0.565 (+/-0.005)mm	PVC	% ≥150						
Insulation material	HDPE	Tensile Strength of the Sheath	Unit						
Insulation OD	1.02 (+/-0.03)mm	LSZH	MPa ≥10.0						
Sheath material	PVC	PVC	MPa ≥13.5						
Sheath thickness	0.55 (+/-0.05)mm	Environmental Characteristics (After Ageing)							
Sheath OD	6.2 (+/-0.05)mm	Elongation at Break of the Sheath after Ageing (Ageing Condition: 7 days at (100 ± 2) °C)							
Operating temperature	-20°C to 60°C	After Ageing (Average)	Unit						
Lay Length (mm)	≤20	LSZH	Elongation at Break % ≥100						
Cable pitch (mm)	≤100		Elongation at Break Change Rate % -30~+30						
Weight	12.6kg/305m	After Ageing (Average)	Unit						
		PVC	Elongation at Break % ≥125						
			Elongation at Break Change Rate % -30~+30						
		Tensile Strength of the Sheath after Ageing (Ageing Condition: 7 days at (100 ± 2) °C)							
		After Ageing (Average)	Unit						
		LSZH	Sheath Tensile Strength % ≥8.0						
			Sheath Tensile Strength Change Rate % -30~+30						
		After Ageing (Average)	Unit						
		PVC	Sheath Tensile Strength % ≥12.5						
			Sheath Tensile Strength Change Rate % -30~+30						
		Cold Bending No Cracking at -20 °C, 8 times of the Sheath OD for 4 hours.							
		High Temperature Impact No Cracking at 150 °C 1 hour.							
Performance Parameters									
Frequency Point	Propagation Velocity (m/s)	Attenuation (Max) at 20°C	TCL (Min)	EL TCL (Min)	NEXT (Min)	PS NEXT (Min)	EL FEXT (Min)	PS EL FEXT (Min)	RL (Min)
MHz	m/s	dB	dB	dB	dB	dB	dB/100m	dB/100m	dB
4	≥0.604C	3.8	44	23	66.3	63.3	56	53	23
8	≥0.610C	5.3	41	16.9	61.8	58.8	49.9	46.9	24.5
10	≥0.612C	6	40	15	60.3	57.3	48	45	25
16	≥0.614C	7.6	38	10.9	57.2	54.2	43.9	40.9	25
20	≥0.615C	8.5	37	9	55.8	52.8	42	39	25
25	≥0.616C	9.5	36	7	54.3	51.3	40	37	24.3
31.25	≥0.617C	10.7	35.1	/	52.9	49.9	38.1	35.1	23.6
62.5	≥0.618C	15.4	32	/	48.4	45.4	32.1	29.1	21.5
100	≥0.619C	19.8	30	/	45.3	42.3	28	25	20.1
200	≥0.620C	29	27	/	40.8	37.8	22	19	18
250	≥0.622C	32.8	26	/	39.3	36.3	20	17	17.3