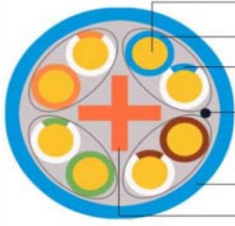



# UTP Category 6 Indoor Cable

Cross-sectional view				Packing Choices					
 <ul style="list-style-type: none"> <li>— Solid Annealed Copper Conductor</li> <li>— Colored HDPE Insulation</li> <li>— HDPE Insulation with Color Stripe</li> <li>— Rip Cord</li> <li>— PVC/ CMR/ LSZH Jacket</li> <li>— Separator</li> </ul>									
Sheath Printing				Maximum Referenced Frequency					
As per Request				250 MHz					
Reference Standards				Electrical Characteristics					
YD/T1019-2013 ANSI/TIA-568B-C.2 ISO/IEC11801 IEC61156.5 UL444, UL1666, CE, RoHS				20°C Conductor Resistance                      Ω/km                      ≤93.5 Pair to Pair Capacitance Unbalance                      %                      ≤2 Pair to Ground Capacitance Unbalance                      %                      ≤4 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	LSZH	%	≥125		
Number of Pairs	4P				PVC	%	≥150		
Conductor OD	23AWG 0.54 (+/-0.005)mm			Tensile Strength of the Sheath	LSZH	MPa	≥10.0		
Insulation material	HDPE				PVC	MPa	≥13.5		
Insulation OD	0.98 (+/-0.03)mm			Environmental Characteristics (After Ageing)					
Sheath material	PVC			Elongation at Break of the Sheath after Ageing (Ageing Condition: 7 days at (100 ± 2) °C)					
Sheath thickness	0.55 (+/-0.05)mm			After Ageing (Average)	LSZH	Elongation at Break	%	≥100	
Sheath OD	6.2 (+/-0.05)mm					Elongation at Break Change Rate	%	-30~+30	
Operating temperature	-20°C to 60°C			After Ageing (Average)	PVC	Elongation at Break	%	≥125	
Lay Length ( mm)	≤20					Elongation at Break Change Rate	%	-30~+30	
Cable pitch (mm)	≤100			Tensile Strength of the Sheath after Ageing (Ageing Condition: 7 days at (100 ± 2) °C)					
Weight	11.8kg/305m			After Ageing (Average)	LSZH	Sheath Tensile Strength	%	≥8.0	
Pair Colors						Sheath Tensile Strength Change Rate	%	-30~+30	
P1	Blue, White/Blue			After Ageing (Average)	PVC	Sheath Tensile Strength	%	≥12.5	
P2	Orange, White/Orange					Sheath Tensile Strength Change Rate	%	-30~+30	
P3	Green, White/Green			Cold Bending				No Cracking at -20 °C, 8 times of the Sheath OD for 4 hours.	
P4	Brown, White/Brown			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