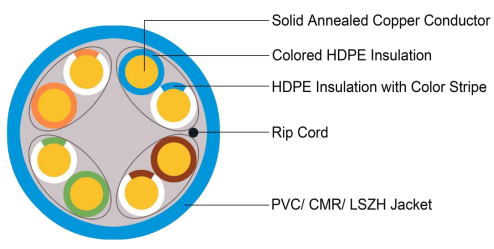



UTP Category 5e Indoor Cable

Cross-sectional view		Packing Choices							
 <p>Solid Annealed Copper Conductor Colored HDPE Insulation HDPE Insulation with Color Stripe Rip Cord PVC/ CMR/ LSZH Jacket</p>									
Sheath Printing		Maximum Referenced Frequency							
As per Request		100 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 % / Coupling Attenuation at 30~100 MHz dB /							
Cable Construction		Physical Performance (Before Ageing)							
Conductor	Solid Oxygen-free Copper	Elongation at Break of the Sheath	LSZH % ≥125 PVC % ≥150						
Number of Pairs	4P	Tensile Strength of the Sheath	LSZH MPa ≥10.0 PVC MPa ≥13.5						
Conductor OD	24AWG 0.48 (+/-0.005)mm								
Insulation Material	HDPE	Environmental Characteristics (After Ageing)							
Insulation OD	0.88(+/-0.03)mm	Elongation at Break of the Sheath after Ageing (Ageing Condition: 7 days at (100 ± 2) °C)							
Sheath Material	PVC	After Ageing (Average) LSZH	Elogation at Break % ≥100 Elogation at Break Change Rate % -30~+30						
Sheath Thickness	0.55 (+/-0.05)mm	After Ageing (Average) PVC	Elogation at Break % ≥125 Elogation at Break Change Rate % -30~+30						
Sheath OD	5.1 (+/-0.05)mm	Tensile Strength of the Sheath after Ageing (Ageing Condition: 7 days at (100 ± 2) °C)							
Operating Temperature	-20°C to 60°C	After Ageing (Average) LSZH	Sheath Tensile Strength % ≥8.0 Sheath Tensile Strength Change Rate % -30~+30						
Lay Length (mm)	≤30	After Ageing (Average) PVC	Sheath Tensile Strength % ≥12.5 Sheath Tensile Strength Change Rate % -30~+30						
Cable Make up Length (mm)	≤140	Cold Bend Test							
Net Weight	8.8kg/305m	No Cracking at -20 °C, 8 times of the Sheath OD for 4 hours.							
Pair Colors		Heat Shock Test							
P1	Blue, White/Blue	No Cracking at 150 °C 1 hour.							
P2	Orange, White/Orange								
P3	Green, White/Green								
P4	Brown, White/Brown								
Performance Parameters									
Frequency Point	Propagation Velocity	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	4.1	44	23	56.3	53.3	52	49	23
8	≥0.610C	5.8	41	16.9	51.8	48.8	45.9	42.9	24.5
10	≥0.612C	6.5	40	15	50.3	47.3	44	41	25
16	≥0.614C	8.2	38	10.9	47.2	44.2	39.9	36.9	25
20	≥0.615C	9.3	37	9	45.8	42.8	38	35	25
25	≥0.616C	10.4	36	7	44.3	41.3	36	33	24.3
31.25	≥0.617C	11.7	35.1	/	42.9	39.9	34.1	31.1	23.6
62.5	≥0.618C	17	32	/	38.4	35.4	28.1	25.1	21.5
100	≥0.619C	22	30	/	35.3	32.3	24	21	20.1