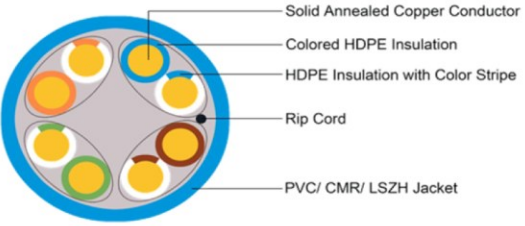



UTP Category 5e Indoor Cable

Cross-sectional view		Packing Choices							
									
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)			Unit				
Conductor	Solid Oxygen-free Copper	Elongation at Break of the Sheath	LSZH	%	≥125				
Number of Pairs	4P		PVC	%	≥150				
Conductor OD	24AWG 0.48 (+/-0.005)mm	Tensile Strength of the Sheath	LSZH	MPa	≥10.0				
Insulation Material	HDPE		PVC	MPa	≥13.5				
Insulation OD	0.88(+/-0.03)mm	Environmental Characteristics (After Ageing) Unit							
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	5.0(+/-0.2)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)	≤30			Elongation at Break Change Rate	% -30~+30				
Cable Make up Length (mm)	≤140	Tensile Strength of the Sheath after Ageing (Ageing Condition: 7 days at (100 ± 2) °C)							
Net Weight	8.8kg/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 Bend Test No Cracking at -20 °C, 8 times of the Sheath OD for 4 hours.							
P4	Brown, White/Brown	Heat Shock Test No Cracking at 150 °C 1 hour.							
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