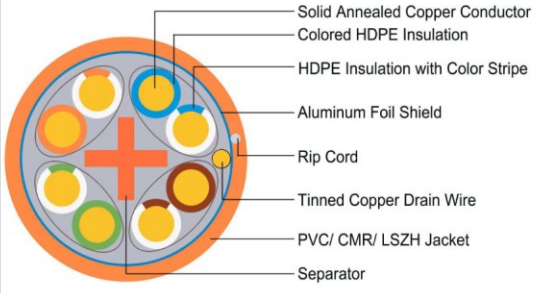



FTP Category 6 LSZH Cable

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 ≥55								
		Coupling Attenuation at 100~250 MHz	dB ≥55-20*lg(f/100)								
Cable Construction		Physical Performance (Before Ageing)									
Conductor	Solid Oxygen-free Copper	Unit									
Number of Pairs	4P	Elongation at Break of the Sheath	LSZH % ≥125								
Conductor OD	23AWG 0.54 (+/-0.005)mm		PVC % ≥150								
Insulation material	HDPE	Tensile Strength of the Sheath									
Insulation OD	1.1 (+/-0.03)mm	LSZH	MPa ≥10.0								
Screening	Aluminum Foil Overall Screening	PVC	MPa ≥13.5								
Drain Wire	0.4mm Tinned Copper	Environmental Characteristics (After Ageing)									
Sheath material	LSZH	Unit									
Sheath thickness	0.55 (+/-0.05)mm	Elongation at Break of the Sheath after Ageing (Ageing Condition: 7 days at (100 ± 2) °C)									
Sheath OD	7.5 (+/-0.2)mm	After Ageing (Average)	LSZH								
Operating temperature	-20°C to 60°C	Elogation at Break	% ≥100								
Lay Length (mm)	≤20	Elogation at Break Change Rate	% -30~+30								
Cable pitch (mm)	≤100	After Ageing (Average)	PVC								
Weight	15~16kg/305m	Elogation at Break	% ≥125								
		Elogation at Break Change Rate	% -30~+30								
Pair Colors		Tensile Strength of the Sheath after Ageing (Ageing Condition: 7 days at (100 ± 2) °C)									
P1	Blue, White/Blue	After Ageing (Average)	LSZH								
P2	Orange, White/Orange	Sheath Tensile Strength	% ≥8.0								
P3	Green, White/Green	Sheath Tensile Strength Change Rate	% -30~+30								
P4	Brown, White/Brown	After Ageing (Average)	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	Attenuation (Max) at 20°C	TCL (Min)	EL TCL (Min)	Coupling Attenuation	NEXT (Min)	PS NEXT (Min)	EL FEXT (Min)	PS EL FEXT (Min)	RL (Min)	
MHz	m/s	dB	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	/	55	52.9	49.9	38.1	35.1	23.6	
62.5	≥0.618C	15.4	32	/	55	48.4	45.4	32.1	29.1	21.5	
100	≥0.619C	19.8	30	/	55	45.3	42.3	28	25	20.1	
200	≥0.620C	29	27	/	49	40.8	37.8	22	19	18	
250	≥0.622C	32.8	26	/	47	39.3	36.3	20	17	17.3	