

FTP Category 5e LSZH Cable

Cross-sectional view	Packing Choices
	

Sheath Printing	Maximum Referenced Frequency
As per Request	100 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

Cable Construction		Physical Performance (Before Ageing)		Unit
Conductor	Solid Oxygen-free Copper	Elongation at Break (Average)	LSZH	%
Number of Pairs	4P		PVC	%
Conductor OD (±0.005mm)	24AWG 0.5(+/-0.006)mm	Sheath Tensile Strength (Average)	LSZH	MPa
Insulation material	HDPE		PVC	MPa
Insulation OD	1.02(+/-0.03)mm	Environmental Characteristics (After Ageing)		
Screening	Aluminium Foil Overall	Elongation at Break of the Sheath after Ageing (Ageing Condition: 7 days at (100 ± 2) °C)		
Drain Wire	0.4mm Tinned Copper	After Ageing (Average)	LSZH	%
Sheath material	LSZH			%
Sheath thickness	0.55 (+/-0.05)mm	Elongation at Break		%
Sheath OD	6.0 (+/-0.2)mm	Elongation at Break Change Rate		%
Operating temperature	-20°C to 60°C	After Ageing (Average)	PVC	%
Lay Length (mm)	≤30			%
Cable pitch (mm)	≤140	Tensile Strength of the Sheath after Ageing (Ageing Condition: 7 days at (100 ± 2) °C)		
Weight	11.2kg/305m	After Ageing (Average)	LSZH	%
Pair Colors				%
P1	Blue, White/Blue	After Ageing (Average)	PVC	%
P2	Orange, White/Orange			%
P3	Green, White/Green	Cold Bending		
P4	Brown, White/Brown	High Temperature Impact		
		No Cracking at -20 °C, 8 times of the Sheath OD for 4 hours.		
		No Cracking at 150 °C 1 hour.		

Performance Parameters										
Frequency Point	Propagation Velocity	Attenuation	TCL (Min)	EL TCL (Min)	Coupling Attenuation	NEXT (Min)	PS NEXT	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	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	/	55	42.9	39.9	34.1	31.1	23.6
62.5	≥0.618C	17	32	/	55	38.4	35.4	28.1	25.1	21.5
100	≥0.619C	22	30	/	55	35.3	32.3	24	21	20.1