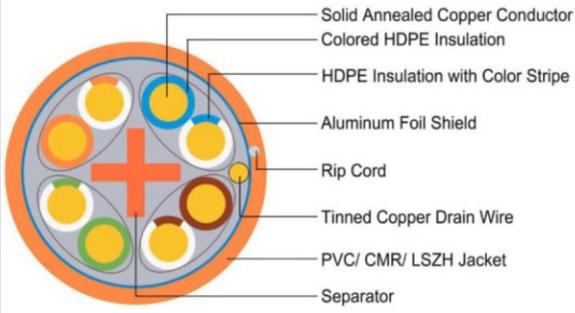


# FTP Category 6 PVC Cable

Cross-sectional view		Packing Choices																							
																									
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		<table border="1"> <tr> <td>20°C Conductor Resistance</td> <td>Ω/km</td> <td colspan="2">≤93.5</td> </tr> <tr> <td>Pair to Pair Capacitance Unbalance</td> <td>%</td> <td colspan="2">≤2</td> </tr> <tr> <td>Pair to Ground Capacitance Unbalance</td> <td>%</td> <td colspan="2">≤4</td> </tr> <tr> <td>Coupling Attenuation at 30~100 MHz</td> <td>dB</td> <td colspan="2">≥55</td> </tr> <tr> <td>Coupling Attenuation at 100~250 MHz</td> <td>dB</td> <td colspan="2">≥55-20*lg(f/100)</td> </tr> </table>				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	≥55		Coupling Attenuation at 100~250 MHz	dB	≥55-20*lg(f/100)	
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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	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	1.1 (+/-0.03)mm																								
Screening	Aluminum Foil Overall Screening																								
Drain Wire	0.4mm Tinned Copper																								
Sheath material	PVC																								
Sheath thickness	0.55 (+/-0.05)mm																								
Sheath OD	7.5 (+/-0.2)mm																								
Operating temperature	-20°C to 60°C																								
Lay Length (mm)	≤20																								
Cable pitch (mm)	≤100																								
Weight	15~16kg/305m																								
Pair Colors		Environmental Characteristics (After Ageing)																							
P1	Blue, White/Blue	Elongation at Break of the Sheath after Ageing (Ageing Condition: 7 days at (100 ± 2) °C)																							
P2	Orange, White/Orange	After Ageing (Average)	LSZH	Elongation at Break	%	≥100																			
P3	Green, White/Green			Elongation at Break Change Rate	%	-30~+30																			
P4	Brown, White/Brown	After Ageing (Average)	PVC	Elongation at Break	%	≥125																			
				Elongation at Break Change Rate	%	-30~+30																			
		Tensile Strength of the Sheath after Ageing (Ageing Condition: 7 days at (100 ± 2) °C)																							
		After Ageing (Average)	LSZH	Sheath Tensile Strength	%	≥8.0																			
				Sheath Tensile Strength Change Rate	%	-30~+30																			
		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