

LAN CABLE

DUPLEX S/FTP 4Pairs cable-category 7-PVC Sheath

Product Description: Rated temperature: 60°C, 75°C, 90°C Reference Standard: UL444, UL1581, UL1666 Bare solid copper conductor Rohs/REACH complied PVC Jacket Flame Test: CMX, CM, CMR Installation temperature: -30°C ~ +50°C	Application: Volp , ISDN Token , 100M TP-PDM Analog and Data Video TR-16 Active And Passive 155M/662m/1.2GATM IEEE802.3: 100Base; 100Base-T 1000Base-T 10GBase-T
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Content of the Data Sheet

Category	DUPLEX S/FTP-CAT7-4P-PVC-TC40					
Test Standard	ISO/IEC 61156-5; EN 50288-4 , YD/T1019					
Conductor	Material	SOLID-Bare Copper				
	Nom.O.D.(mm)	0.580	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">up</td> <td style="width: 50%;">+0.005</td> </tr> <tr> <td>down</td> <td>-0.005</td> </tr> </table>		up	+0.005
up	+0.005					
down	-0.005					
Insulation	Material	Skin-foam-skin PE				
	Diameter	1.350±0.05 mm				
Inner Screening Material	Aluminum Foil	Drain wire	No	Sheath Physical Properties		
Outer Screening Material	Tinned copper 0.10mm	Coverage	≥40%			
Sheath	Thickness	0.55±0.05 mm				
	External O.D.	(7.9-16.8)±0.5 mm				
	Surface	Clean				
	Material	PVC				
	Color	According to the requires				
Surface Printing	Letter height	3.0±0.3mm		Electrical Characteristics (20°C)		
	Color	Black				
	Print error & Space	≤±0.5%, 1m				
Core Color	1 White/Blue	2 White/Orange				
	3 White/Green	4 White/Brown				
Packing	Wooden Tray & Carton					
Wooden Tray dimension	According to the requires					
Packing length	305±1.0m					
Rip-cord	Yes					
					Before Aging Tensile Strength (Mpa) ≥13.5 Elongation (%) ≥150	
				Aging Period (°C×hrs) 100°C×24h×7d		
				After Aging Tensile Strength (Mpa) ≥12.5 Elongation (%) ≥125		
				Cold bend (-20±2°C×4h) 8×Cable O.D., No visible cracks		
				Impedance(Ω) : (1-100MHz) 100±15Ω (100-250MHz) 100±18Ω (250-600MHz) 100±25Ω		
				Delay Shew (ns/100m) ≤25		
				Velocity of Propagation (%) 74		
				Capacitance(nF/100m) max: 5.6		
				unbalanced-to-ground capacitance (pf/100m)max 330		
				DC Resistance (Ω/100m) max 9.5		
				DC Conductor Resistance Unbalanc (%) max 2.0		

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Technical Performance (100m):

Frequency (MHz)	RL \geq dB	ATT \leq dB	NEXT \geq dB	PHASE DELAY \leq ns	Frequency (MHz)	PSNEXT \geq dB	ELFEXT \geq dB	PSELFEXT \geq dB
1.0	20.0	2.0	78.0	570.0	1	75.0	78.0	75.0
4.0	23.0	3.74	78.0	552.0	4	75.0	78.0	75.0
8.0	24.5	5.24	78.0	546.7	8	75.0	75.9	72.9
10.0	25.0	5.86	78.0	545.4	10	75.0	74.0	71.0
16.0	25.0	7.41	78.0	543.0	16	75.0	69.9	66.9
20.0	25.0	8.29	78.0	542.0	20	75.0	68.0	65.0
25.0	24.3	9.29	78.0	541.2	25	75.0	66.0	63.0
31.25	23.6	10.41	78.0	540.4	31.25	75.0	64.1	61.1
62.5	21.5	14.88	75.5	538.6	62.5	72.5	58.1	55.1
100	20.1	19.02	72.4	537.6	100	69.4	54.0	51.0
150	18.9	23.56	69.8	536.9	150	66.8	50.2	47.2
200	18.0	27.47	67.9	536.5	200	64.9	48.0	45.0
250	17.3	30.97	66.4	536.3	250	63.4	46.0	43.0
300	17.3	34.19	65.2	536.1	300	62.2	44.5	41.5
600	17.3	50.10	60.7	535.5	600	57.7	38.4	35.4

LAN CABLE

DUPLEX S/FTP 4Pairs cable-category 7-LSZH Sheath

Product Description: Rated temperature: 90°C Reference Standard: UL444,UL1581 Bare solid copper conductor Rohs/REACH complied LSZH Jacket Flame Test: IEC60332-1,IEC60332-3C Installation temperature: -30°C~+50°C				Application: Volp , ISDN Token , 100M TP-PDM Analog and Data Video TR-16 Active And Passive 155M/662m/1.2GATM IEEE802.3: 100Base;100Base-T 1000Base-T 10GBase-T												
Content of the Data Sheet																
Category	DUPLEX S/FTP-CAT7-4P-LSZH-TC40															
Test Standard	ISO/IEC 61156-5; EN 50288-4 ,YD/T1019															
Conductor	Material	SOLID-Bare Copper														
	Nom.O.D.(mm)	0.580	up	+0.005												
			down	-0.005												
Insulation	Material	Skin-foam-skin PE														
	Diameter	1.350±0.05 mm														
Inner Screening Material	Aluminum Foil	Drain wire	No													
Outer Screening Material	Tinned copper 0.10mm	Coverage	≥40%													
Sheath	Thickness	0.55±0.05 mm														
	External O.D.	(7.9-16.8)±0.5 mm														
	Surface	Clean														
	Material	LSZH														
	Color	According to the requires														
Surface Printing	Letter height	3.0±0.3mm														
	Color	Black														
	Print error & Space	≤±0.5%, 1m														
Core Color	1 White/Blue	2 White/Orange														
	3 White/Green	4 White/Brown														
Packing	Wooden Tray & Carton															
Wooden Tray dimension	According to the requires															
Packing length	305±1.0m															
Rip-cord	Yes															
<p>The diagram shows a cross-section of a LAN cable. It features four pairs of twisted conductors (labeled 'Pairs') in the center, surrounded by a braided shield (labeled 'Braid'). This is further enclosed by an aluminum foil shield (labeled 'Aluminum Foil') and an outer jacket (labeled 'Jacket'). A rip-cord (labeled 'Rip-cord') is visible on the left side of the jacket.</p>				<table border="1"> <tr> <td>Before Aging</td> <td>Tensile Strength (Mpa)</td> <td>≥10.0</td> </tr> <tr> <td></td> <td>Elongation (%)</td> <td>≥125</td> </tr> <tr> <td>Aging Period (°C×hrs)</td> <td colspan="2">100°C×24h×7d</td> </tr> </table>				Before Aging	Tensile Strength (Mpa)	≥10.0		Elongation (%)	≥125	Aging Period (°C×hrs)	100°C×24h×7d	
								Before Aging	Tensile Strength (Mpa)	≥10.0						
									Elongation (%)	≥125						
				Aging Period (°C×hrs)	100°C×24h×7d											
				Sheath Physical Properties				After Aging	Tensile Strength (Mpa)	≥8						
									Elongation (%)	≥100						
				Electrical Characteristics (20°C)				Cold bend (-20±2°C×4h) 8×Cable O.D., No visible cracks								
								Impedance(Ω) : (1-100MHz)		100±15Ω						
						(100-250MHz)		100±18Ω								
						(250-600MHz)		100±25Ω								
				Delay Shew (ns/100m)	≤25											
				Velocity of Propagation (%)	74											
				Capacitance(nF/100m) max:	5.6											
				unbalanced-to-ground capacitance (pf/100m)max	330											
				DC Resistance (Ω/100m) max	9.5											
				DC Conductor Resistance Unbalanc (%) max	2.0											

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Frequency (MHz)	RL \geq dB	ATT \leq dB	NEXT \geq dB	PHASE DELAY \leq ns	Frequency (MHz)	PSNEXT \geq dB	ELFEXT \geq dB	PSELFEXT \geq dB
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