



L&W ELECTRONICAL INDUSTRIAL LIMITED

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
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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	<table border="1"> <tr> <td>up</td> <td>+0.005</td> </tr> <tr> <td>down</td> <td>-0.005</td> </tr> </table>		up	+0.005	down	-0.005														
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Insulation	Material	Skin-foam-skin PE																				
	Diameter	1.350±0.05 mm																				
Inner Screening Material	Aluminum Foil	Drain wire	No	<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> <tr> <td>After Aging</td> <td>Tensile Strength (Mpa)</td> <td>≥8</td> </tr> <tr> <td></td> <td>Elongation (%)</td> <td>≥100</td> </tr> <tr> <td>Cold bend (-20±2°C×4h)</td> <td colspan="2">8×Cable O.D., No visible cracks</td> </tr> </table>	Before Aging	Tensile Strength (Mpa)	≥10.0		Elongation (%)	≥125	Aging Period (°C×hrs)	100°C×24h×7d		After Aging	Tensile Strength (Mpa)	≥8		Elongation (%)	≥100	Cold bend (-20±2°C×4h)	8×Cable O.D., No visible cracks	
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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			<table border="1"> <tr> <td>Impedance(Ω) :</td> <td>(1-100MHz) 100±15Ω</td> </tr> <tr> <td></td> <td>(100-250MHz) 100±18Ω</td> </tr> <tr> <td></td> <td>(250-600MHz) 100±25Ω</td> </tr> <tr> <td>Delay Shew (ns/100m)</td> <td>≤25</td> </tr> <tr> <td>Velocity of Propagation (%)</td> <td>74</td> </tr> <tr> <td>Capacitance(nF/100m) max:</td> <td>5.6</td> </tr> <tr> <td>unbalanced-to-ground capacitance (pf/100m)max</td> <td>330</td> </tr> <tr> <td>DC Resistance (Ω/100m) max</td> <td>9.5</td> </tr> <tr> <td>DC Conductor Resistance Unbalanc (%) max</td> <td>2.0</td> </tr> </table>	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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Wooden Tray dimension	According to the requires																					
Packing length	305±1.0m																					
Rip-cord	Yes																					

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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