



# L&W ELECTRONICAL INDUSTRIAL LIMITED

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

<b>Product Description:</b> 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	<b>Application:</b> 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"> <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 rowspan="2">Sheath Physical Properties</td> <td>Before Aging</td> <td>Tensile Strength (Mpa)</td> <td>≥13.5</td> </tr> <tr> <td></td> <td>Elongation (%)</td> <td>≥150</td> </tr> <tr> <td></td> <td>Aging Period (°C×hrs)</td> <td colspan="2">100°C×24h×7d</td> </tr> <tr> <td rowspan="2"></td> <td>After Aging</td> <td>Tensile Strength (Mpa)</td> <td>≥12.5</td> </tr> <tr> <td></td> <td>Elongation (%)</td> <td>≥125</td> </tr> <tr> <td></td> <td colspan="3">Cold bend (-20±2°C×4h) 8×Cable O.D., No visible cracks</td> </tr> <tr> <td rowspan="3">Electrical Characteristics (20°C)</td> <td colspan="2">Impedance(Ω) :</td> <td>(1-100MHz) 100±15Ω</td> </tr> <tr> <td colspan="2"></td> <td>(100-250MHz) 100±18Ω</td> </tr> <tr> <td colspan="2"></td> <td>(250-600MHz) 100±25Ω</td> </tr> <tr> <td></td> <td colspan="2">Delay Shew (ns/100m)</td> <td>≤25</td> </tr> <tr> <td></td> <td colspan="2">Velocity of Propagation (%)</td> <td>74</td> </tr> <tr> <td></td> <td colspan="2">Capacitance(nF/100m) max:</td> <td>5.6</td> </tr> <tr> <td></td> <td colspan="2">unbalanced-to-ground capacitance (pf/100m)max</td> <td>330</td> </tr> <tr> <td></td> <td colspan="2">DC Resistance (Ω/100m) max</td> <td>9.5</td> </tr> <tr> <td></td> <td colspan="2">DC Conductor Resistance Unbalanc (%) max</td> <td>2.0</td> </tr> </table>	Sheath Physical Properties	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			Electrical Characteristics (20°C)	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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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																																																										
	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																																																											

# LAN CABLE

## 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