

TECHNICAL DATA SHEET

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

Date	Author	Review	Approve	Version	Revision Declaration																																																																																										
2014-01-04	Caixiaoping	Nidonghua	Wangfuzhu	A0	C7OS-114BK																																																																																										
Content of the Data Sheet																																																																																															
Sheath Printing	It will be printed as customer's requirement with batch produce.																																																																																														
Category	S/FTP-CAT7-4P-LSZH-TC30																																																																																														
Test Standard	ISO/IEC 61156-5;EN 50288-4 ,YD/T1019																																																																																														
Conductor	Material	SOLID-Bare Copper																																																																																													
	Nom.O.D.(mm)	0.560	up	+0.005	down	-0.005																																																																																									
Insulation	Material	Skin-foam-skin PE																																																																																													
	Diameter	1.330±0.05 mm																																																																																													
Inner Screening Material	Al/Mylar	Drain wire	TC 0.45																																																																																												
Outer Screening Material	TC 0.10mm	Coverage	≥30%																																																																																												
Sheath	Thickness	0.55±0.05 mm																																																																																													
	External O.D.	7.5±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																																																																																														
Sheath Physical Properties	Before Aging Tensile Strength (Mpa)	≥10.0																																																																																													
	Elongation (%)	≥125																																																																																													
	Aging Period (°C×hrs)	100°C×24h×7d																																																																																													
	After Aging Tensile Strength (Mpa)	≥8.0																																																																																													
	Elongation (%)	≥100																																																																																													
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																																																																																													
	unbalanced-to-ground capacitance (pf/100m) max	330																																																																																													
	DC Resistance (Ω/100m) max	9.5																																																																																													
	DC Conductor Resistance Unbalanc (%) max	2.0																																																																																													
Technical Performance (100m):																																																																																															
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Frequency (MHz)</th> <th>RL ≥dB</th> <th>ATT ≤dB</th> <th>NEXT ≥dB</th> <th>PHASE DELAY ≤ns</th> </tr> </thead> <tbody> <tr><td>1.0</td><td>20.0</td><td>—</td><td>78.0</td><td>570.0</td></tr> <tr><td>4.0</td><td>23.0</td><td>3.74</td><td>78.0</td><td>552.0</td></tr> <tr><td>8.0</td><td>24.5</td><td>5.24</td><td>78.0</td><td>546.7</td></tr> <tr><td>10.0</td><td>25.0</td><td>5.86</td><td>78.0</td><td>545.4</td></tr> <tr><td>16.0</td><td>25.0</td><td>7.41</td><td>78.0</td><td>543.0</td></tr> <tr><td>20.0</td><td>25.0</td><td>8.29</td><td>78.0</td><td>542.0</td></tr> <tr><td>25.0</td><td>24.3</td><td>9.29</td><td>78.0</td><td>541.2</td></tr> <tr><td>31.25</td><td>23.6</td><td>10.41</td><td>78.0</td><td>540.4</td></tr> <tr><td>62.5</td><td>21.5</td><td>14.88</td><td>75.5</td><td>538.6</td></tr> <tr><td>100</td><td>20.1</td><td>19.02</td><td>72.4</td><td>537.6</td></tr> <tr><td>150</td><td>18.9</td><td>23.56</td><td>69.8</td><td>536.9</td></tr> <tr><td>200</td><td>18.0</td><td>27.47</td><td>67.9</td><td>536.5</td></tr> <tr><td>250</td><td>17.3</td><td>30.97</td><td>66.4</td><td>536.3</td></tr> <tr><td>300</td><td>17.3</td><td>34.19</td><td>65.2</td><td>536.1</td></tr> <tr><td>600</td><td>17.3</td><td>50.10</td><td>60.7</td><td>535.5</td></tr> <tr><td>*700</td><td>14.2</td><td>54.63</td><td>59.7</td><td>535.4</td></tr> <tr><td>*1000</td><td>13.1</td><td>66.93</td><td>57.3</td><td>535.1</td></tr> </tbody> </table>						Frequency (MHz)	RL ≥dB	ATT ≤dB	NEXT ≥dB	PHASE DELAY ≤ns	1.0	20.0	—	78.0	570.0	4.0	23.0	3.74	78.0	552.0	8.0	24.5	5.24	78.0	546.7	10.0	25.0	5.86	78.0	545.4	16.0	25.0	7.41	78.0	543.0	20.0	25.0	8.29	78.0	542.0	25.0	24.3	9.29	78.0	541.2	31.25	23.6	10.41	78.0	540.4	62.5	21.5	14.88	75.5	538.6	100	20.1	19.02	72.4	537.6	150	18.9	23.56	69.8	536.9	200	18.0	27.47	67.9	536.5	250	17.3	30.97	66.4	536.3	300	17.3	34.19	65.2	536.1	600	17.3	50.10	60.7	535.5	*700	14.2	54.63	59.7	535.4	*1000	13.1	66.93	57.3	535.1
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