

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

CAB-07305-BLSFHQ
CAB-07500-BLSFHQ

Content of the Data Sheet

Sheath Printing	TBD								
Customer No.		Customer Reference							
Category	S/FTP-CAT7-4P-LSZH-AM30(Cca)								
Reference Standard	ISO/IEC 61156-5;EN 50288-4, ISO/IEC11801								
Conductor	Material	SOLID-Bare Copper							
	Nom.O.D.(mm)	0.570	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	No						
Outer Screening Material	Aluminum-magnesium alloy 0.12mm	Coverage	≥30%						
Sheath	Thickness	0.55±0.1 mm							
	External O.D.	7.5±0.5 mm							
	Surface	Clean							
	Material	FR-LSZH(complies RoHS)							
	Color	TBD							
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								
Wooden Tray dimension	According to the requires								
Packing length	305±1.5m								
Rip-cord	Yes								
Sheath Physical Properties	Before Aging	Tensile Strength (Mpa)	≥9.0						
		Elongation (%)	≥100						
	Aging Period (°C × hrs)	100°C × 24h × 7d							
	After Aging	Tensile Strength (Mpa)	≥8.0						
		Elongation (%)	≥70						
	Cold bend (-20±2°C × 4h) 15times 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 Skew (ns/100m)		≤25						
	Velocity of Propagation (%)		74						
	unbalanced-to-ground capacitance (pf/100m) max		330						
DC Resistance (Ω/100m) max		9.38							
DC Conductor Resistance Unbalanc (%) max		2.0							
Reaction to fire Classification: Cca,s1,d1,a1									
Version	A/01	Date	2017-08-25	Revised By	Caihanglie	Audited By	Nidonghua	Approved By	Nidonghua

Technical Performance (100m):

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

Frequency (MHz)	PSNEXT (dB)	ELFEXT (dB)	PSELFEXT (dB)
1	75.0	78.0	75.0
4	75.0	78.0	75.0
8	75.0	75.9	72.9
10	75.0	74.0	71.0
16	75.0	69.9	66.9
20	75.0	68.0	65.0
25	75.0	66.0	63.0
31.25	75.0	64.1	61.1
62.5	72.5	58.1	55.1
100	69.4	54.0	51.0
150	66.8	50.2	47.2
200	64.9	48.0	45.0
250	63.4	46.0	43.0
300	62.2	44.5	41.5
600	57.7	38.4	35.4





Cable ID: SFTPCAT7-27AWG

Test Summary: PASS

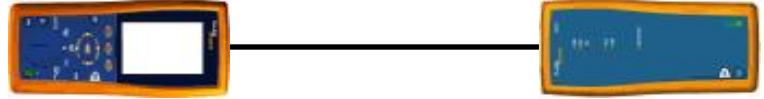
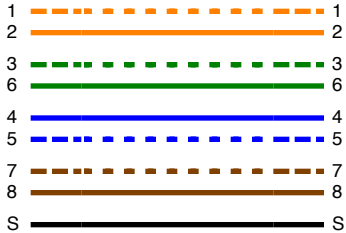
Date / Time: 05/06/2020 12:43:42pm
Headroom: 13.9 dB (NEXT 12-36)
Test Limit: TIA Cat 6A Channel
 Cable Type: Cat 7 S/FTP

Operator: POTEL
 Software Version: 2.7800
 Limits Version: 1.9500
 NVP: 76.0%

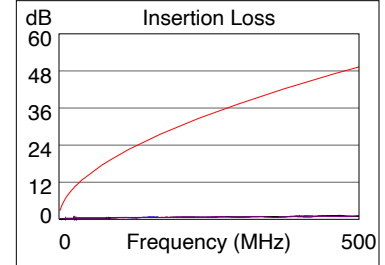
Model: DTX-1800
 Main S/N: 9303019
 Remote S/N: 9303020
 Main Adapter: DTX-CHA002
 Remote Adapter: DTX-CHA002

Wire Map (T568B)

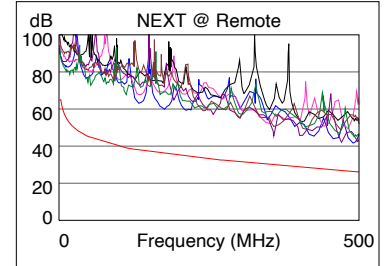
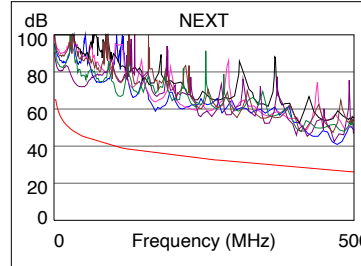
PASS



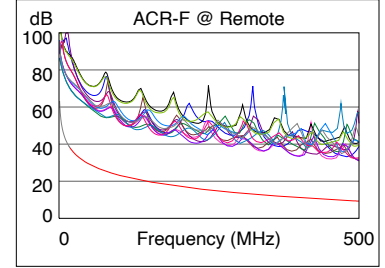
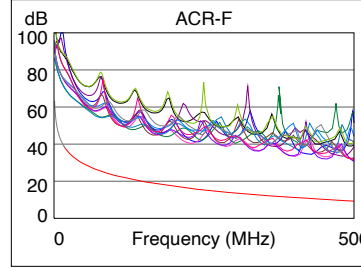
Length (ft), Limit 328	[Pair 45]	6
Prop. Delay (ns), Limit 555		9
Delay Skew (ns), Limit 50		1
Resistance (ohms)	[Pair 12]	1.0
Insertion Loss Margin (dB)	[Pair 45]	46.3
Frequency (MHz)	[Pair 45]	469.0
Limit (dB)	[Pair 45]	47.6



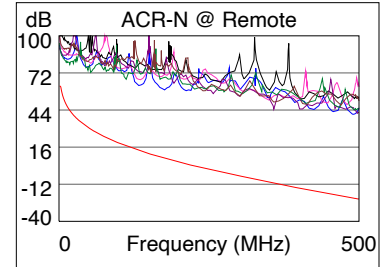
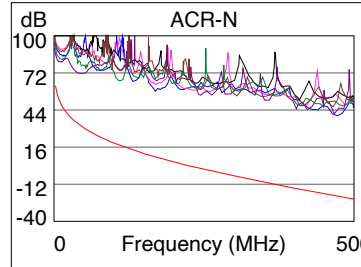
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	12-36	36-45	12-36	12-36
NEXT (dB)	13.9	15.3	13.9	15.4
Freq. (MHz)	469.0	471.0	469.0	490.0
Limit (dB)	26.9	26.8	26.9	26.3
Worst Pair	36	36	36	36
PS NEXT (dB)	14.1	15.6	14.1	15.6
Freq. (MHz)	469.0	492.0	469.0	492.0
Limit (dB)	24.0	23.4	24.0	23.4



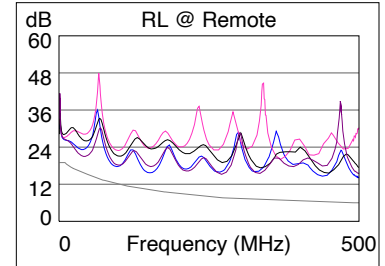
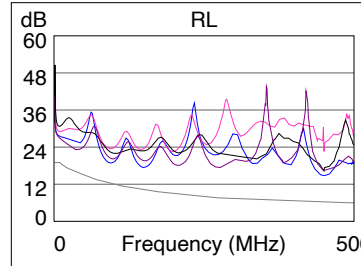
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	45-12	12-45	45-12	12-45
ACR-F (dB)	21.5	21.7	21.5	21.7
Freq. (MHz)	500.0	452.0	500.0	500.0
Limit (dB)	9.3	10.2	9.3	9.3
Worst Pair	36	45	12	36
PS ACR-F (dB)	22.8	23.3	23.4	23.7
Freq. (MHz)	1.0	457.0	499.0	487.0
Limit (dB)	60.3	7.1	6.3	6.5



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
N/A				
Worst Pair	36-45	36-78	12-36	12-36
ACR-N (dB)	23.9	26.0	60.4	63.0
Freq. (MHz)	3.0	3.0	469.0	490.0
Limit (dB)	61.4	61.4	-20.8	-22.4
Worst Pair	36	36	36	36
PS ACR-N (dB)	24.6	24.5	60.5	63.5
Freq. (MHz)	3.1	3.3	469.0	492.0
Limit (dB)	58.3	58.2	-23.6	-25.5



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
N/A				
Worst Pair	12	78	12	12
RL (dB)	6.6	5.0	8.3	8.1
Freq. (MHz)	91.3	38.8	449.0	499.0
Limit (dB)	12.4	16.1	6.0	6.0



Compliant Network Standards:
 10BASE-T 100BASE-TX 100BASE-T4
 1000BASE-T 10GBASE-T ATM-25
 ATM-51 ATM-155 100VG-AnyLan
 TR-4 TR-16 Active TR-16 Passive