

## Data Sheet

Part Number	CPE-C6-SD-1K-XX, XX = BL, GY, WH						
Category	U/UTP Cat6-4P-PVC UL Certified						
Test Standard	ISO/IEC11801 , TIA-568-C.2						
Conductor	Material	Solid Bare Copper					
	Nom.O.D.(mm)	0.550	up +0.005 down -0.005				
Insulation	Material	HDPE					
	Diameter	0.98±0.03mm					
Sheath	Thickness	0.55±0.05mm					
	External O.D.	6.0±0.4mm					
	Surface	Clean,Frap,Satiation					
	Material	FRPVC					
Surface Printing	Letter height	3.0±0.3mm					
	Color	Black					
	Print error & Space	≤±0.5%, 1m					
Core Color	1 White- Blue /Blue	2 White-Orange /Orange					
	3 White-Green /Green	4 White- Brown /Brown					
Packing	Easy Pull Box						
Carton Dimensions	--						
Packing length	305±1.5m						
Rip-cord	Yes	Drain wire	No				
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)	1.0-250.0MHz Impedance(Ω)	100±15					
	250-550 MHz Impedance(Ω)	reference values					
	1.0-550.0MHz Delay Shew (ns/100m)	≤45					
	DC Resistance (Ω/100m) max	9.38					
	DC Conductor Resistance Unbalance (%)max 5.0						

Technical Performance :							
Fre. MHz	RL ≥dB	ATT ≤dB	NEXT ≥dB	DELAY ≤ns	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	20.0	2.03	74.3	570.00	72.3	68.0	65.0
4	23.0	3.78	65.3	552.00	63.3	56.0	53.0
8	24.5	5.32	60.8	546.73	58.7	49.9	46.9
10	25.0	5.95	59.3	545.38	57.3	48.0	45.0
16	25.0	7.55	56.2	543.00	54.2	43.9	40.9
20	25.0	8.47	54.8	542.05	52.8	42.0	39.0
25	24.3	9.51	53.3	541.20	51.3	40.0	37.0
31.25	23.6	10.67	52.0	540.44	49.9	38.1	35.1
62.5	21.5	15.38	47.4	538.55	45.4	32.1	29.1
100	20.1	19.80	44.3	537.60	42.3	28.0	25.0
200	18.0	28.98	39.8	536.50	37.8	22.0	19.0
250	17.3	32.85	38.3	536.10	36.3	20.0	17.0
*350	16.3	39.79	36.1	535.90	34.1	16.9	13.9
*550	14.9	51.76	33.2	535.50	31.2	13.0	10.0

Note: Remarks: \* are the reference values



**Cable ID: 12/04 HSO1-181100011-7-3 OP**

Date / Time: 12/05/2018 01:10:37 AM

Headroom 4.1 dB (NEXT 36-78)

Test Limit: TIA Cat 6 Perm. Link

Cable Type: Cat 6 U/UTP

NVP: 69.0%

Operator: QC

Software Version: V5.6 Build 5

Limits Version: V6.4

Calibration Date:

Main (Module): 12/12/2017

Remote (Module): 12/12/2017

**Test Summary: PASS**

Model: DSX-5000

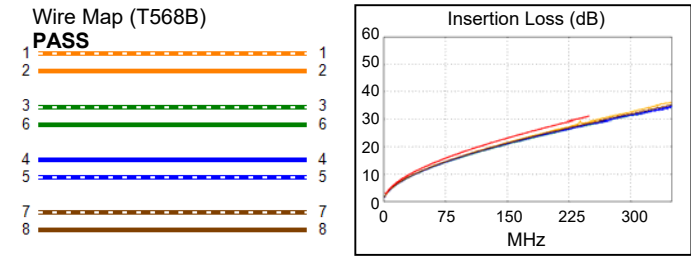
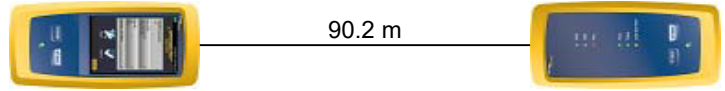
Main S/N: 3049247

Remote S/N: 3049245

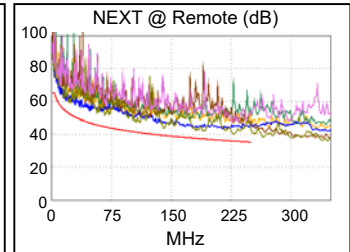
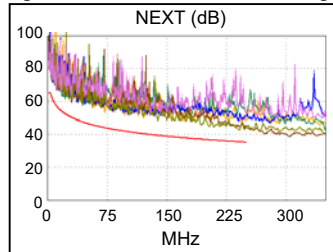
Main Adapter: DSX-PLA004

Remote Adapter: DSX-PLA004

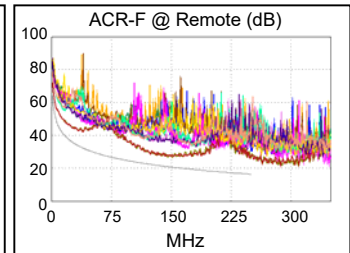
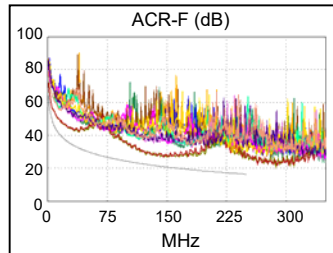
Length (m), Limit 90.0	[Pair 45]	90.2
Prop. Delay (ns), Limit 498	[Pair 12]	462
Delay Skew (ns), Limit 44	[Pair 12]	26
Resistance (ohms)	[Pair 78]	13.93
Insertion Loss Margin (dB)	[Pair 12]	1.0
Frequency (MHz)	[Pair 12]	238.5
Limit (dB)	[Pair 12]	30.3



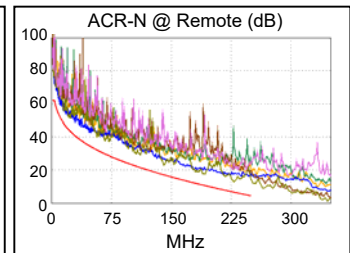
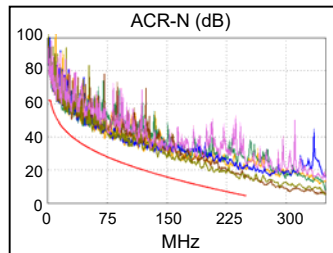
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	36-78	36-78	36-78	36-78
<b>NEXT (dB)</b>	7.1	4.1	7.1	4.1
Freq. (MHz)	241.0	228.5	241.0	228.5
Limit (dB)	35.6	36.0	35.6	36.0
Worst Pair	36	78	36	78
<b>PS NEXT (dB)</b>	7.0	5.1	7.0	5.1
Freq. (MHz)	241.0	228.0	241.0	228.0
Limit (dB)	33.0	33.4	33.0	33.4



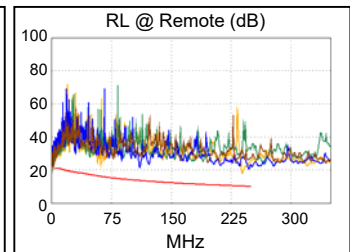
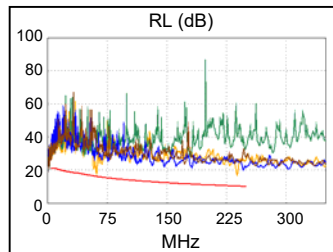
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	36-45	36-45	36-45	36-45
<b>ACR-F (dB)</b>	5.9	5.7	9.8	9.8
Freq. (MHz)	142.0	145.5	248.0	249.5
Limit (dB)	21.1	20.9	16.3	16.2
Worst Pair	45	45	45	45
<b>PS ACR-F (dB)</b>	8.5	8.4	12.1	12.7
Freq. (MHz)	124.0	145.5	248.5	249.5
Limit (dB)	19.3	17.9	13.3	13.2



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>N/A</b>				
Worst Pair	36-78	36-78	36-78	36-78
<b>ACR-N (dB)</b>	9.5	6.0	9.5	6.3
Freq. (MHz)	241.0	140.5	241.0	228.5
Limit (dB)	5.1	17.0	5.1	6.5
Worst Pair	36	78	36	78
<b>PS ACR-N (dB)</b>	10.0	6.9	10.4	7.3
Freq. (MHz)	241.0	140.5	247.5	228.0
Limit (dB)	2.5	14.5	1.9	3.9



	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
<b>PASS</b>				
Worst Pair	12	12	12	12
<b>RL (dB)</b>	1.4	4.7	6.8	7.7
Freq. (MHz)	61.5	3.6	238.5	239.0
Limit (dB)	16.1	21.0	10.2	10.2



Compliant Network Standards:

10BASE-T	100BASE-TX	100BASE-T4
1000BASE-T	2.5GBASE-T	5GBASE-T
ATM-25	ATM-51	ATM-155
100VG-AnyLan	TR-4	TR-16 Active
TR-16 Passive		