

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	<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
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	Color	Customer requirements								
	Letter height	3.0±0.3mm								
	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

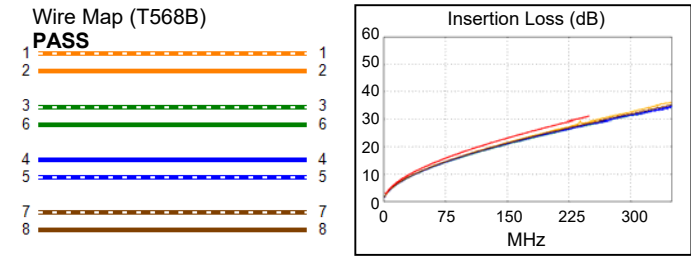
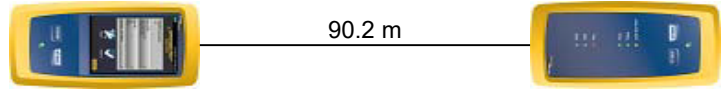
Main S/N: 3049247

Remote S/N: 3049245

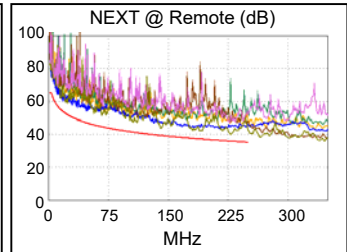
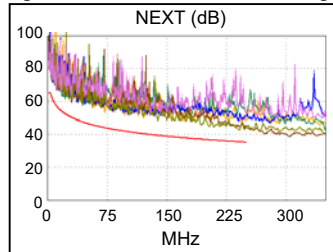
Main Adapter: DSX-PLA004

Remote Adapter: DSX-PLA004

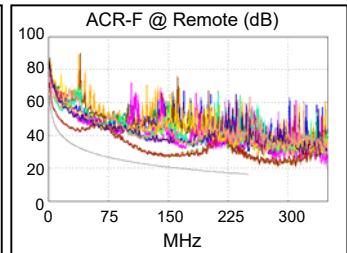
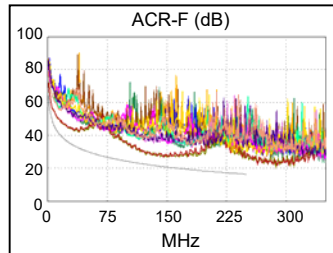
Length (m), Limit 90.0	[Pair 45]	90.2
Prop. Delay (ns), Limit 498	[Pair 12]	462
Delay Skew (ns), Limit 44	[Pair 12]	26
Resistance (ohms)	[Pair 78]	13.93
Insertion Loss Margin (dB)	[Pair 12]	1.0
Frequency (MHz)	[Pair 12]	238.5
Limit (dB)	[Pair 12]	30.3



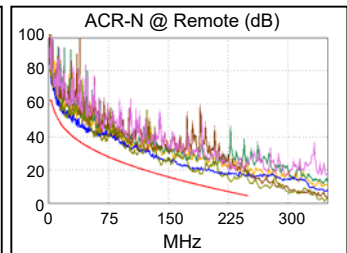
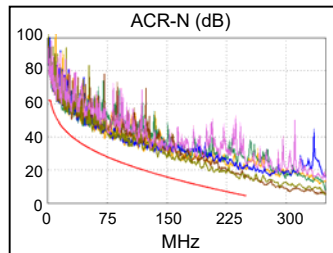
	Worst Case Margin		Worst Case Value	
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	36-78	36-78	36-78	36-78
NEXT (dB)	7.1	4.1	7.1	4.1
Freq. (MHz)	241.0	228.5	241.0	228.5
Limit (dB)	35.6	36.0	35.6	36.0
Worst Pair	36	78	36	78
PS NEXT (dB)	7.0	5.1	7.0	5.1
Freq. (MHz)	241.0	228.0	241.0	228.0
Limit (dB)	33.0	33.4	33.0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



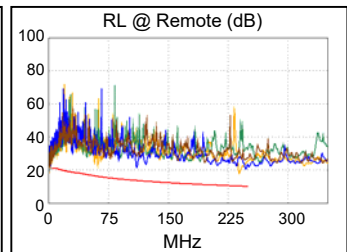
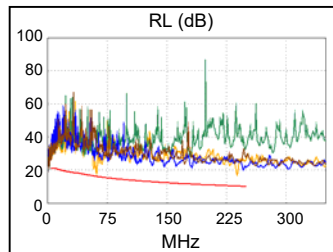
	MAIN	SR	MAIN	SR
PASS				
Worst Pair	36-45	36-45	36-45	36-45
ACR-F (dB)	5.9	5.7	9.8	9.8
Freq. (MHz)	142.0	145.5	248.0	249.5
Limit (dB)	21.1	20.9	16.3	16.2
Worst Pair	45	45	45	45
PS ACR-F (dB)	8.5	8.4	12.1	12.7
Freq. (MHz)	124.0	145.5	248.5	249.5
Limit (dB)	19.3	17.9	13.3	13.2



	MAIN	SR	MAIN	SR
N/A				
Worst Pair	36-78	36-78	36-78	36-78
ACR-N (dB)	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
PS ACR-N (dB)	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



	MAIN	SR	MAIN	SR
PASS				
Worst Pair	12	12	12	12
RL (dB)	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