

## Data Sheet

Part Number	CPE-5E-SD-1K-XX, XX = BL, GY, WH						
Category	U/UTP CAT5E-4P- PVC						
Test Standard	ISO/IEC11801 , TIA-568-C.2						
Conductor	Material	Solid-Bare Copper					
	Nom.O.D.(mm)	0.490	up +0.005 down -0.005				
Insulation	Material	HDPE					
	Diameter	0.87±0.03mm					
Sheath	Thickness	0.50±0.05 mm					
	External O.D.	5.0±0.4 mm					
	Surface	Clean,Frap,Satiation					
	Material	PVC					
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	Wooden Tray & Carton						
Carton Dimensions	---						
Packing length	(305±1.5)m						
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					
Electrical Characteristics (20°C)	1.0-100.0MHz Impedance(Ω)	100±15					
	100-350 MHz Impedance(Ω)	reference values					
Characteristics (20°C)	1.0-350.0MHz Delay Shew (ns/100m)	≤45					
	DC ResistanceΩ/100m) max	9.5					
	DC Conductor Resistance Unbalance(%) max	5.0					

Technical Performance :							
Fre. MHz	RL ≥dB	ATT ≤dB	NEXT ≥dB	Phase DELAY ≤ns	PSNEXT ≥dB	ELFEXT ≥dB	PSELFEXT ≥dB
1	20.0	2.0	65.3	570.00	62.3	63.8	60.8
4	23.0	4.1	56.3	552.00	53.3	51.8	48.8
8	24.5	5.8	51.8	546.73	48.8	45.7	42.7
10	25.0	6.5	50.3	545.38	47.3	43.8	40.8
16	25.0	8.2	47.2	543.00	44.4	39.7	36.7
20	25.0	9.3	45.8	542.05	42.8	37.8	34.8
25	24.3	10.4	44.3	541.20	41.3	35.8	32.8
31.25	23.6	11.7	42.9	540.44	39.9	33.9	30.9
62.5	21.5	17.0	38.4	538.55	35.4	27.9	24.9
100	20.1	22.0	35.3	537.60	32.3	23.8	20.8
*155	18.0	28.1	32.4	536.90	29.4	20	17
*200	17.4	32.4	30.8	536.50	27.8	17.8	14.8
*300	16.5	41.8	29.3	536.10	26.3	14.3	11.3
*350	16.0	44.9	27.1	535.90	24.1	12.9	9.9

Remarks: \* are the reference values



**Cable ID: 12/03 HSO1-181100020-3-2**

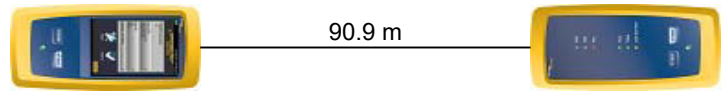
Date / Time: 12/03/2018 03:09:46 PM  
**Headroom 4.6 dB (NEXT 12-36)**  
**Test Limit: TIA Cat 5e Perm. Link**  
 Cable Type: Cat 5e U/UTP  
 NVP: 70.0%

Operator: QC  
 Software Version: V5.6 Build 5  
 Limits Version: V6.4  
 Calibration Date:  
 Main (Module): 12/12/2017  
 Remote (Module): 12/12/2017

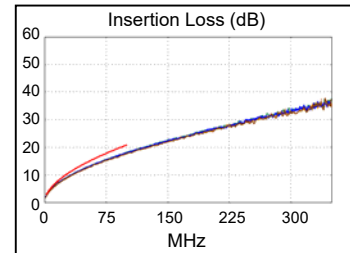
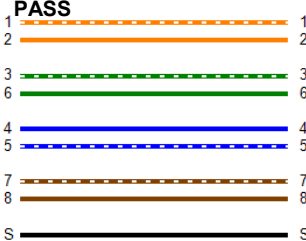
**Test Summary: PASS**

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 78]	90.9
Prop. Delay (ns), Limit 498	[Pair 45]	446
Delay Skew (ns), Limit 44	[Pair 45]	13
Resistance (ohms)	[Pair 45]	17.50
Insertion Loss Margin (dB)	[Pair 36]	2.7
Frequency (MHz)	[Pair 36]	100.0
Limit (dB)	[Pair 36]	21.0

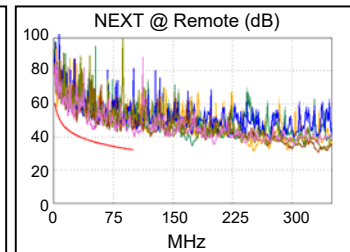
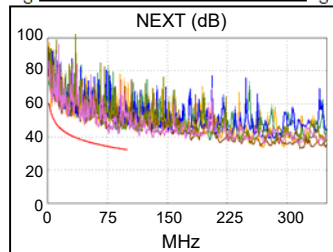


Wire Map (T568B)

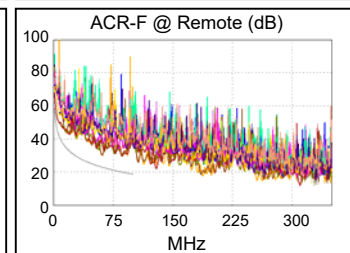
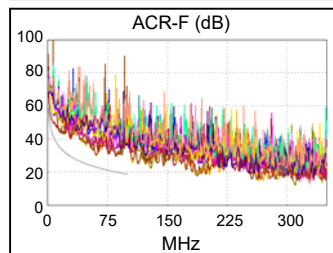


Worst Case Margin Worst Case Value

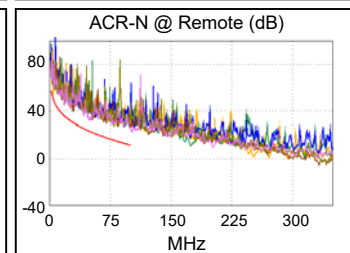
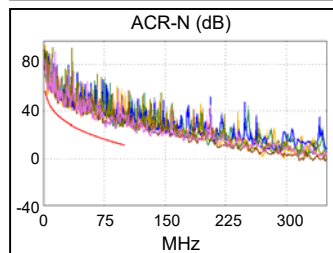
PASS	MAIN	SR	MAIN	SR
Worst Pair	12-36	12-36	45-78	36-78
<b>NEXT (dB)</b>	4.6	4.7	8.8	9.4
Freq. (MHz)	4.6	4.5	88.5	79.8
Limit (dB)	53.8	54.0	33.2	33.9
Worst Pair	12	12	78	45
<b>PS NEXT (dB)</b>	6.8	6.8	9.9	10.6
Freq. (MHz)	4.6	4.5	89.3	100.0
Limit (dB)	50.8	51.0	30.1	29.3



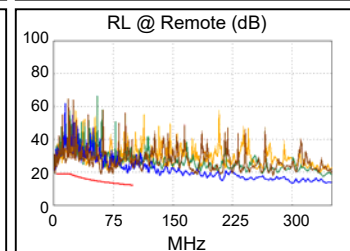
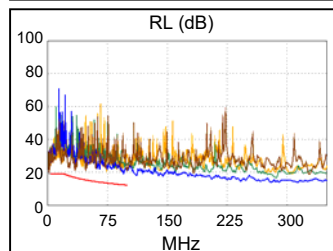
PASS	MAIN	SR	MAIN	SR
Worst Pair	36-45	45-36	45-36	45-36
<b>ACR-F (dB)</b>	7.0	6.9	9.7	9.8
Freq. (MHz)	5.5	4.9	85.5	86.3
Limit (dB)	43.8	44.9	20.0	19.9
Worst Pair	36	36	45	36
<b>PS ACR-F (dB)</b>	9.3	9.2	12.3	10.6
Freq. (MHz)	15.0	61.3	86.8	92.5
Limit (dB)	32.1	19.9	16.8	16.3



N/A	MAIN	SR	MAIN	SR
Worst Pair	12-36	12-36	45-78	45-78
<b>ACR-N (dB)</b>	5.0	5.2	11.9	14.2
Freq. (MHz)	4.6	4.6	88.5	100.0
Limit (dB)	49.6	49.6	13.6	11.3
Worst Pair	12	12	78	45
<b>PS ACR-N (dB)</b>	7.3	7.3	13.1	13.5
Freq. (MHz)	4.6	4.5	89.3	100.0
Limit (dB)	46.6	46.8	10.4	8.3



PASS	MAIN	SR	MAIN	SR
Worst Pair	78	78	45	78
<b>RL (dB)</b>	4.5	4.6	6.9	4.8
Freq. (MHz)	34.3	3.8	95.3	59.8
Limit (dB)	16.7	19.0	12.2	14.2



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