

超六类数字网络线缆车

●支持10BASE-T/100BASE-TX/1000BASE-T/1000BASE-TX/10GBASE-T。

ADGDT6-10G-SB CAT6A



高带宽低延时

带编织的双重屏蔽层

对应PoE/PoE+/4P PoE

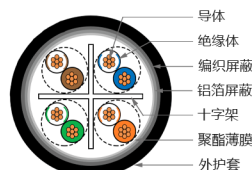
- 传输速率: 10Gbps/s, 传输带宽: 500MHz, 传输数字、语音、数据和视频信号, 满足高端需求尤其流动场景 CAT6A 的应用。
 - 屏蔽层采用优质铝箔+高密度镀锡铜丝编织网, 编织密度达85%以上, 能在1000V高压电环境下不受电磁干扰。
 - 缆车采用PC材料, 具有耐用、全天候、和重量轻的特点。同时, 缆车带有锁定制动器。
 - 外被采用雾面超耐磨软质PVC材料, 适用于户外应用的苛刻条件。具有优异的耐用性, 是重复铺设和拆卸的移动应用的理想选择。
- * 可根据客户的需求指定, 安装配套的金属外壳。



Dante

CobraNet

AVB



产品规格

导体材质: 无氧铜(99.9%)
网线类型: SF/UTP
导体线径: $\Phi 0.55\text{mm}$ (24AWG)
绝缘体线径: $\Phi 1.1\text{mm}$
网线线径: $\Phi 8.5\text{mm}$
RJ45头: 日线水晶头(镀金50U)

物理特性

导体电阻: $\leq 9.38\Omega/100\text{m}$
工作电容: $\leq 5.6\text{nF}/100\text{m}$
特性阻抗: $100\Omega \pm 15$
插拔次数: ≥ 750 , 卡位弹片: ≥ 1000
工作温度: $-20^\circ\text{C} \sim 60^\circ\text{C}$
阻燃性符合GB/T18380.12, JIS C 3005标准。

生产标准及规范

国际ISO/IEC 11801: 2002
欧洲EN50173: 2002
美国ANSI/TIA-568.2-D
中国JB/T8593标准

传输性能

频率 MHz	近端串音衰减 NEXT[dB]	功率和近端串音 PS-NEXT[dB]	衰减远端串音比 ACRF[dB]	衰减远端串音比功率和 PS-ACRF[dB]	衰减 IL[dB/100m]	回波损耗 RL[dB]	相时延 [ns/100m]	时延差 [ns/100m]
MHz	Min	Min	Min	Min	Max	Min	Max	Max
1	74.3	72.3	67.8	64.8	2.5	20.0	570	45
10	59.3	57.3	47.8	44.8	7.1	25.0	545	45
20	54.8	52.8	41.8	38.8	10.0	25.0	542	45
31.25	51.9	49.9	37.9	34.9	12.6	23.3	540	45
62.5	47.4	45.4	31.9	28.9	18.0	20.7	540	45
100	44.3	42.3	27.8	24.8	22.9	19.0	538	45
250	38.3	36.3	19.8	16.8	37.3	15.6	536	45
300	37.1	35.1	18.3	15.3	41.2	14.9	536	45
400	35.3	33.3	15.8	12.8	48.1	13.8	536	45
500	33.8	31.8	13.8	10.8	54.4	13.0	536	45

订购信息

型号	长度 (m)
ADGDT6-10G-SB-MP4D-50 AMP/LC	50
ADGDT6-10G-SB-MP4D-75 AMP/LC	75
ADGDT6-10G-SB-MP4D-100 AMP/LC	100

Amphenol RJX8M



Amphenol RJX8MB





电缆识别名: 20220422B0003[ADGDT6-10G-SB]

测试限: TIA Cat 6A Channel

测试限版本: V7.6

日期 / 时间: 04/22/2022 03:59:24 PM

操作人员: 4310

余量 6.8 dB (RL 7,8)

电缆类型: Cat 6A F/UTP

NVP: 68.5%

主测试仪: Versiv

序列号: 1806197

软件版本: V6.7 Build 1

校准日期: 06/22/2021

适配器: DSX-8000 (DSX-CHA804)

序列号: 1804844

远端测试仪: Versiv

序列号: 1806205

软件版本: V6.7 Build 1

校准日期: 06/22/2021

适配器: DSX-8000R (DSX-CHA804)

序列号: 1804840

测试总结果: 通过

长度 (m), 极限值 100.0	[线对 7,8]	101.4
传输时延 (ns), 极限值 555	[线对 4,5]	531
时延偏离 (ns), 极限值 50	[线对 4,5]	37
电阻值 (欧姆)	[线对 4,5]	16.57
插入损耗 余量 (dB)	[线对 4,5]	4.4
频率 (MHz)	[线对 4,5]	500.0
极限值 (dB)	[线对 4,5]	49.3

最差余量

最差值

通过	主机	SR	主机	SR
最差线对	1,2-3,6	3,6-4,5	1,2-3,6	3,6-7,8
NEXT (dB)	4.6	7.1	4.6	11.3
频率 (MHz)	286.0	3.8	286.0	367.0
极限值 (dB)	32.1	63.5	32.1	29.7
最差线对	3,6	3,6	3,6	3,6
PS NEXT (dB)	7.1	8.9	7.1	14.0
频率 (MHz)	286.0	3.6	286.0	367.0
极限值 (dB)	29.1	61.2	29.1	26.8

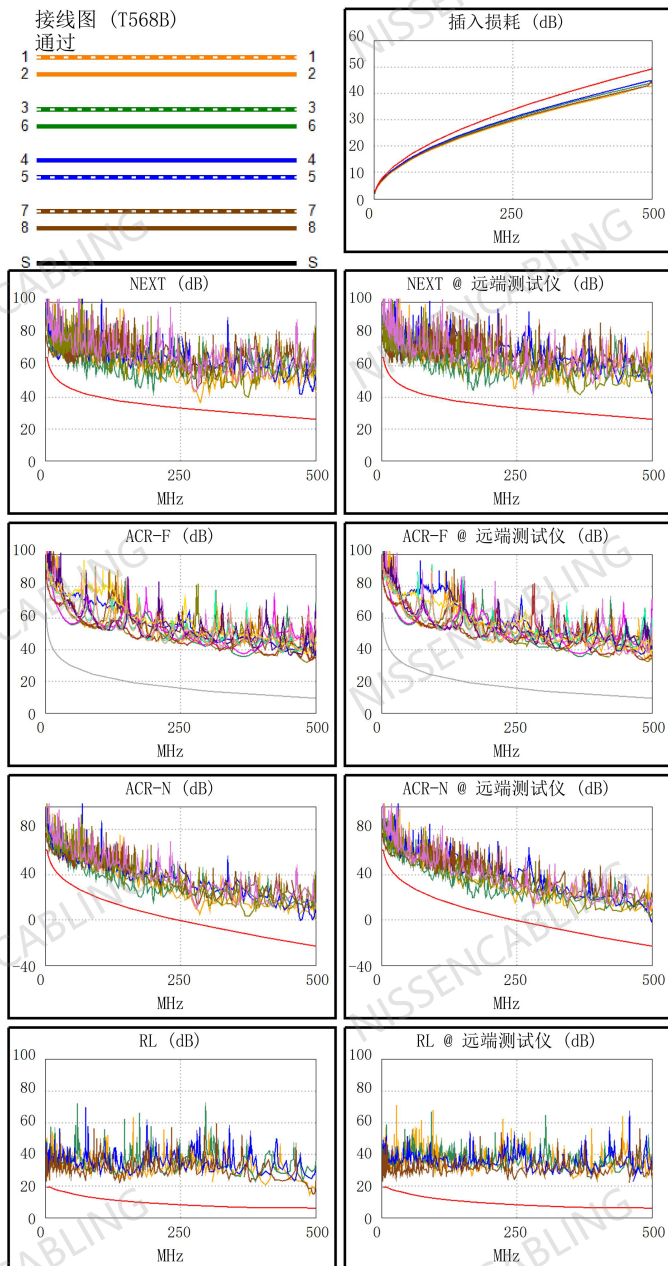
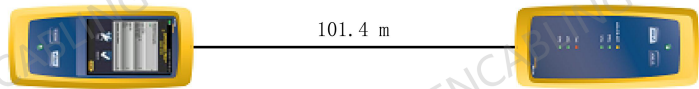
通过	主机	SR	主机	SR
最差线对	1,2-4,5	1,2-4,5	3,6-4,5	3,6-4,5
ACR-F (dB)	25.7	25.6	22.2	22.2
频率 (MHz)	43.0	46.3	483.0	489.0
极限值 (dB)	30.6	30.0	9.6	9.5
最差线对	4,5	3,6	4,5	3,6
PS ACR-F (dB)	24.4	23.9	24.4	23.9
频率 (MHz)	483.0	489.0	483.0	489.0
极限值 (dB)	6.6	6.5	6.6	6.5

不适用	主机	SR	主机	SR
最差线对	3,6-4,5	3,6-4,5	1,2-7,8	1,2-7,8
ACR-N (dB)	7.2	7.3	20.6	21.4
频率 (MHz)	3.5	3.8	477.0	500.0
极限值 (dB)	60.1	59.5	-21.4	-23.2
最差线对	3,6	3,6	3,6	7,8
PS ACR-N (dB)	9.1	9.1	25.0	23.1
频率 (MHz)	3.5	3.6	500.0	500.0
极限值 (dB)	57.6	57.3	-26.1	-26.1

通过	主机	SR	主机	SR
最差线对	7,8	7,8	1,2	1,2
RL (dB)	6.8	8.4	8.3	17.8
频率 (MHz)	4.5	7.5	489.0	400.0
极限值 (dB)	19.0	19.0	6.0	6.0

满足的标准:

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



LinkWare™ PC 版本 11.0

项目: DEFAULT

地点: 未设置

楼层: 未设置

机架: 未设置

20220422 国内CAT6 CAT6A.flw

建筑物: 未设置

房间: 未设置

跳线: 未设置

FLUKE
networks

DCM Test Report

Cable Type : 4x2x24 x PVC	Factory Number : D.N.C	Data File Name : DA066805.D3S
Cable I.D. : 4P ADGDT6-10G-SB(BK)	Order Number : K.6.05.G.B# FE	Specification File : Cat6a-4th.S3S
Temperature : 22.00 °C	Relative Humidity : 50 %	Test Date/Time : 06/07/2021 11:35:58 AM
Length : 101.00 m	Number of Pairs to Test : 4	Operator : D.W.B
Starting Position : 17		Analyzer Type : ENA

Pass - Fail Test Certificate - 4 Pairs

High Frequency

Test Type	Test Result
Input Impedance (Zin)(Ohms)(Open/Short)	OK
Characteristic Impedance (Z0)(3rd Order)(Ohms)(Open/Short)	OK
Return Loss (RL)(dB)	OK
Structural Return Loss (SRL)(3rd Order)(dB)(Open/Short)	OK
Insertion Loss (IL)(Curve Fit)(dB/100.0 m)@20C	OK
Near End Crosstalk Loss (NEXT)(dB)	OK
ACR to FEXT Ratio (ACRF)(dB)	OK
Power Sum NEXT(PSNEXT)(dB)	OK
Power Sum ACRF (PSACRF)(dB)	OK
ATT to NEXT Ratio (ACR)(dB/100.0 m)	OK
Power Sum ACR (PS ACR)(dB/100.0 m)	OK
Propagation Delay (DELAY)(ns/100m)	OK
Propagation Delay Skew (SKEW)(ns/100m)	OK

Low Frequency

Test Type	Test Result
Conductor Resistance(Ohms/100.0 m)@20C	OK
Loop Resistance(Ohms/100.0 m)@20C	OK
Resistance Unbalance(%)	OK
Mutual Capacitance(nF/100.0 m)@1000Hz	OK
Cap. Unbalance to Ground(pF/100.0 m)@1000Hz	OK

Signature:	Approved:	Date:
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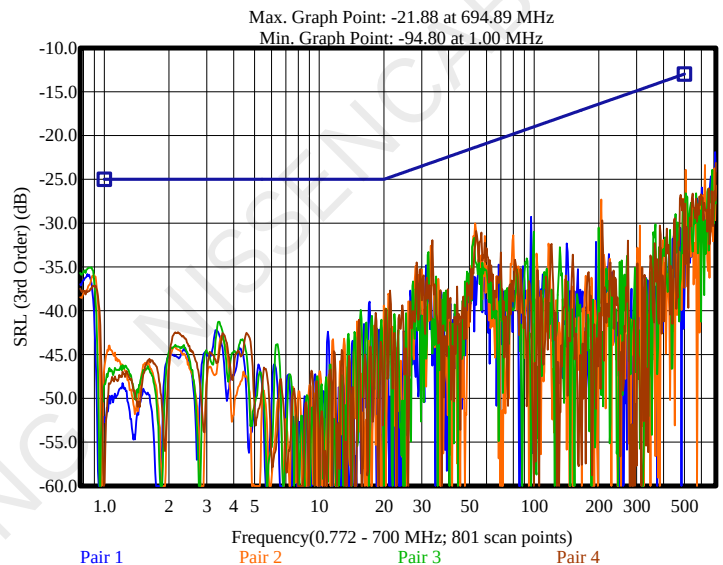
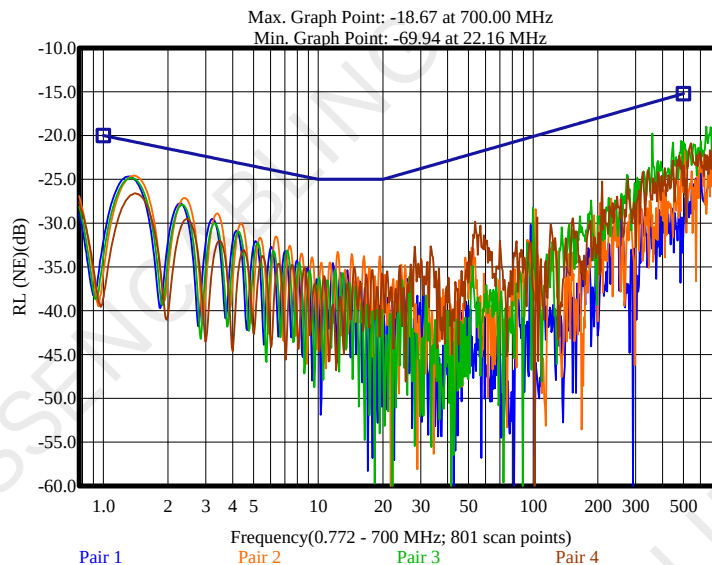
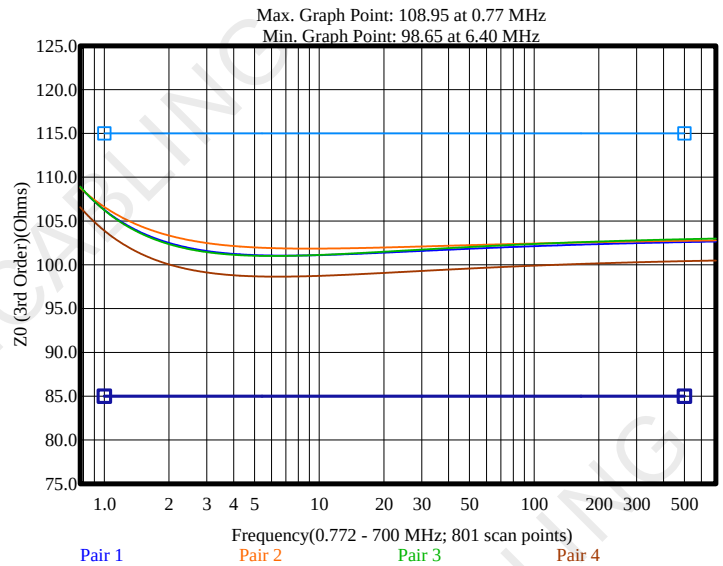
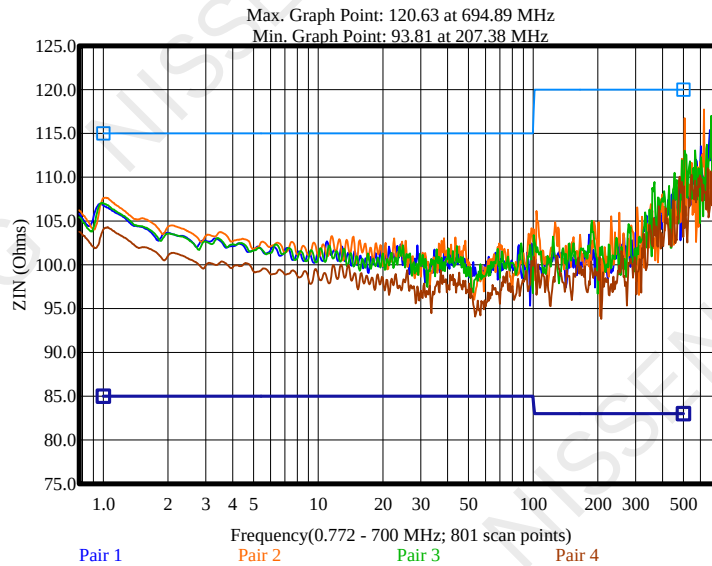
DCM Test Report

Cable Type	: 4x2x24 x PVC	Factory Number	: D.N.C	Data File Name	: DA066805.D3S
Cable I.D.	: 4P ADGDT6-10G-SB(BK)	Order Number	: K.6.05.G.B# FE	Specification File	: Cat6a-4th.S3S
Temperature	: 22.00 °C	Relative Humidity	: 50 %	Test Date/Time	: 06/07/2021 11:35:58 AM
Length	: 101.00 m	Number of Pairs to Test	: 4	Operator	: D.W.B
Starting Position	: 17			Analyzer Type	: ENA

Worst Case Summary

High Frequency

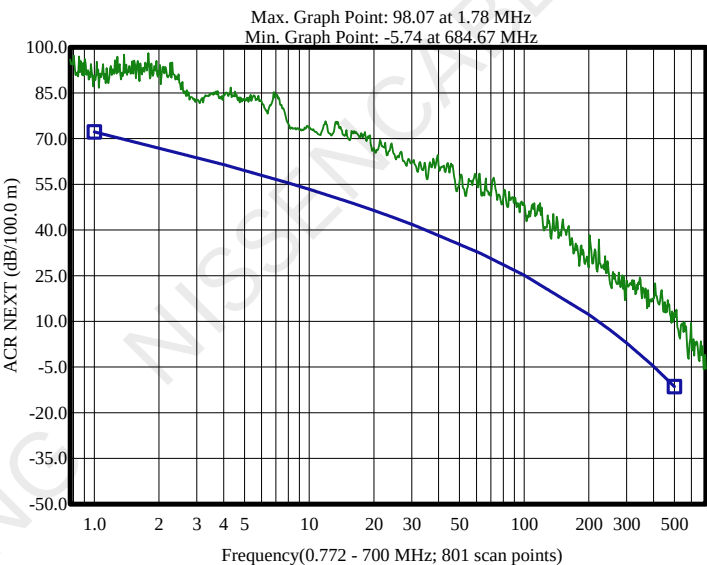
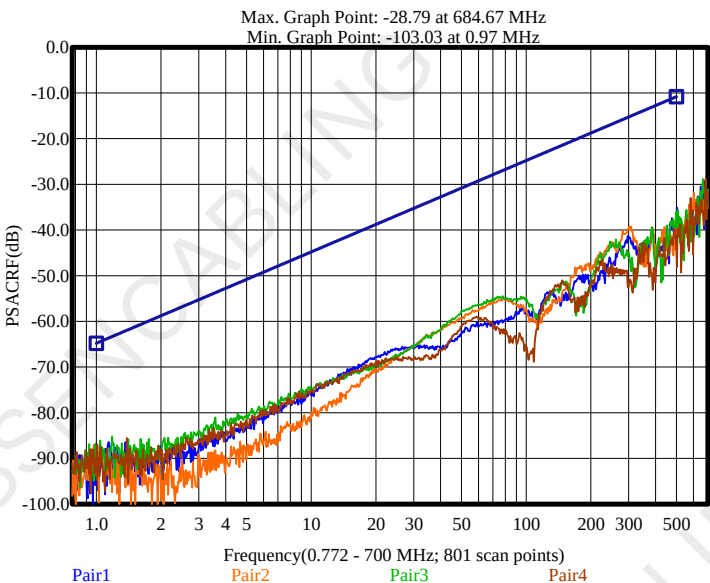
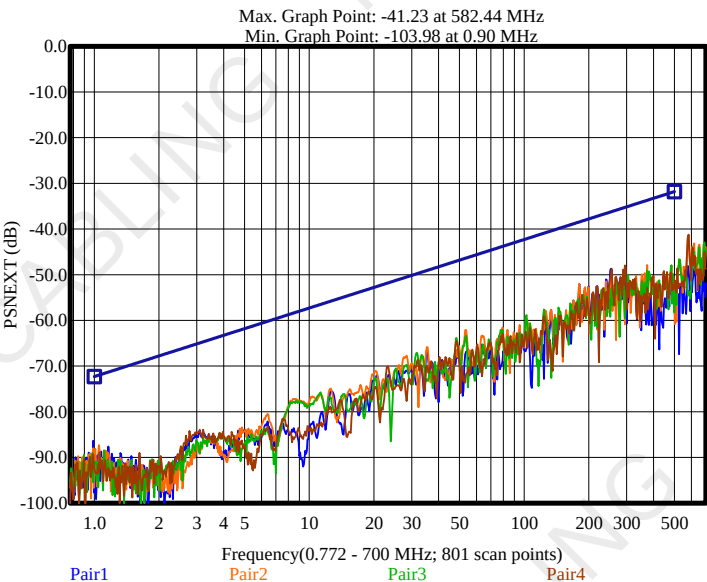
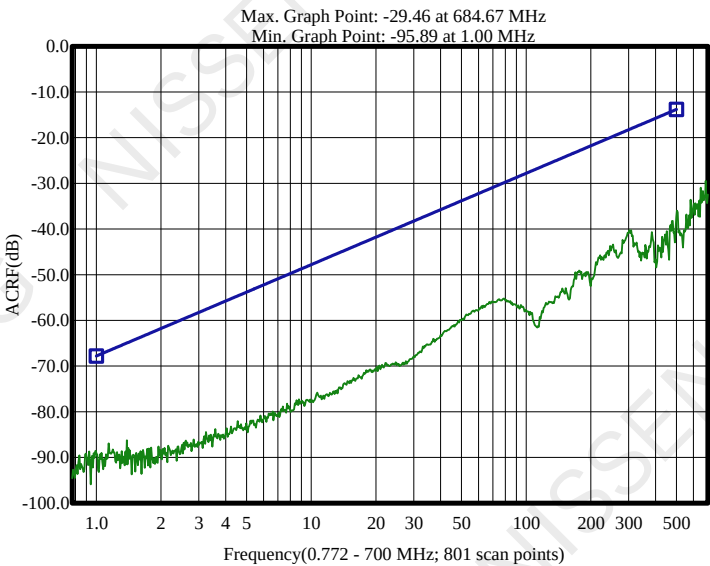
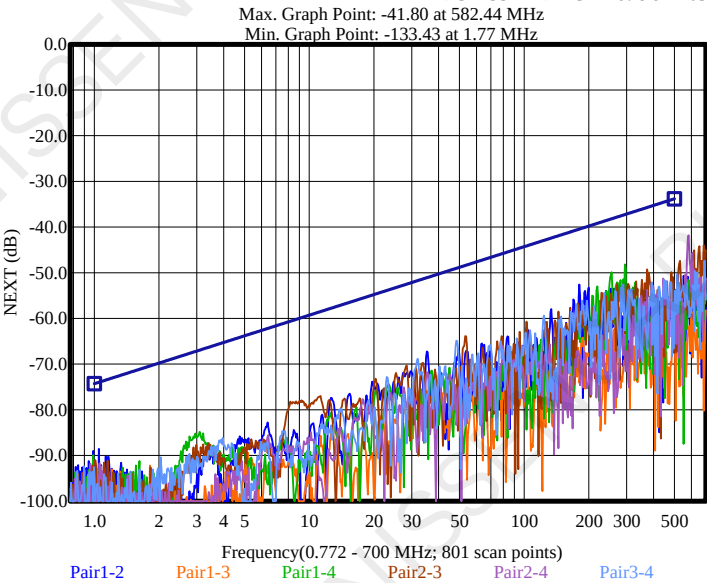
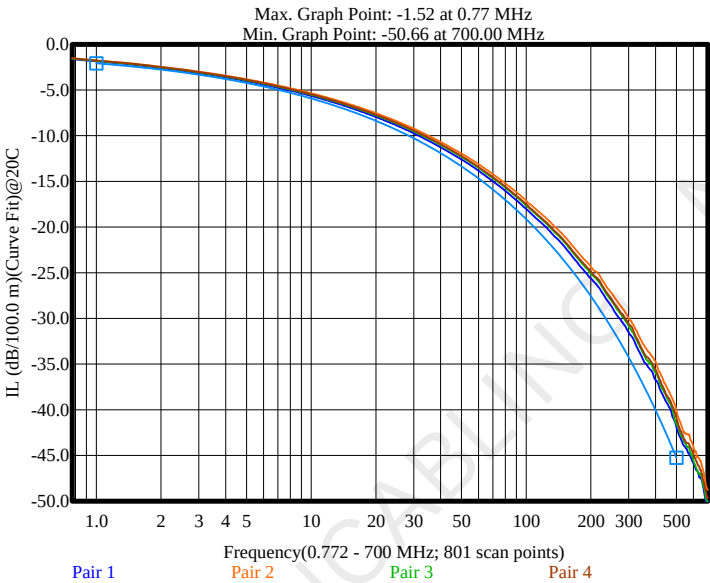
Test Type	Specification	Measured (Pair)	Margin	@ Frequency (MHz)	Test Result
Input Impedance (Zin)(Open/Short)	85.00 (Min)	94.08 (Pair 4)	9.08	53.69	Passed
Input Impedance (Zin)(Open/Short)	115.00 (Max)	107.66 (Pair 2)	7.34	1.02	Passed
Characteristic Impedance (Z0)(3)(O/S)	85.00 (Min)	98.65 (Pair 4)	13.65	5.69	Passed
Characteristic Impedance (Z0)(3)(O/S)	115.00 (Max)	106.58 (Pair 2)	8.42	1.00	Passed
Return Loss (RL)	16.23 (Min)	19.76 (Pair 3)	3.53	358.52	Passed
Structural Return Loss (SRL)(3)(O/S)	21.34 (Min)	30.03 (Pair 2)	8.69	53.16	Passed
Insertion Loss (IL)(Curve Fit)@20C	2.80 (Max)	2.64 (Pair 1)	0.16	2.06	Passed
Near End Crosstalk Loss (NEXT)	37.27 (Min)	48.18 (Pairs 1-4)	10.91	294.28	Passed
ACR to FEXT Ratio (ACRF)	66.65 (Min)	86.92 (Pairs 1-2)	20.27	1.14	Passed
Power Sum NEXT(PSNEXT)	36.24 (Min)	48.68 (Pair 1)	12.44	253.68	Passed
Power Sum ACRF (PSACRF)	64.44 (Min)	86.07 (Pair 3)	21.63	1.04	Passed
ATT to NEXT Ratio (ACR)	3.34 (Min)	16.95 (Pairs 1-4)	13.61	294.28	Passed
Power Sum ACR (PS ACR)	-26.77 (Min)	19.71 (Pair 1)	46.48	253.68	Passed
Propagation Delay (DELAY)	535.64 (Max)	520.58 (Pair 1)	15.06	479.16	Passed
Propagation Delay Skew (SKEW)	45.00 (Max)	35.50 (Pairs 1-4)	9.50	1.17	Passed



N/A = Not Applicable.
--- = Disable/Bypassed Pair.

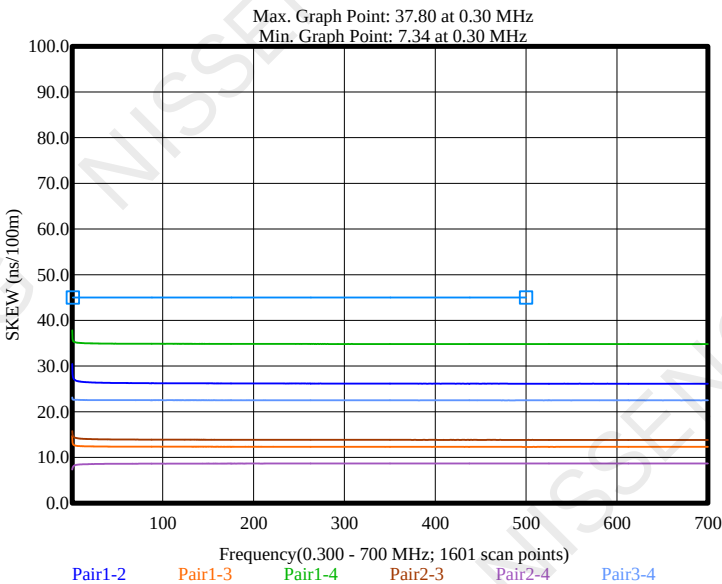
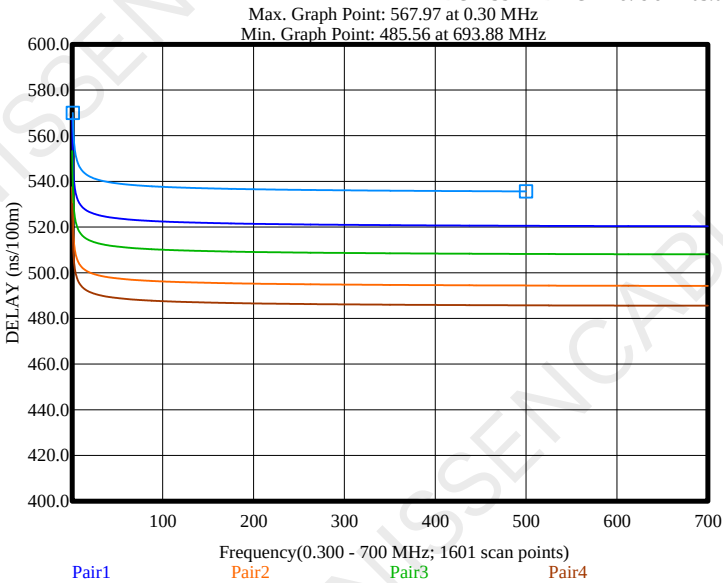
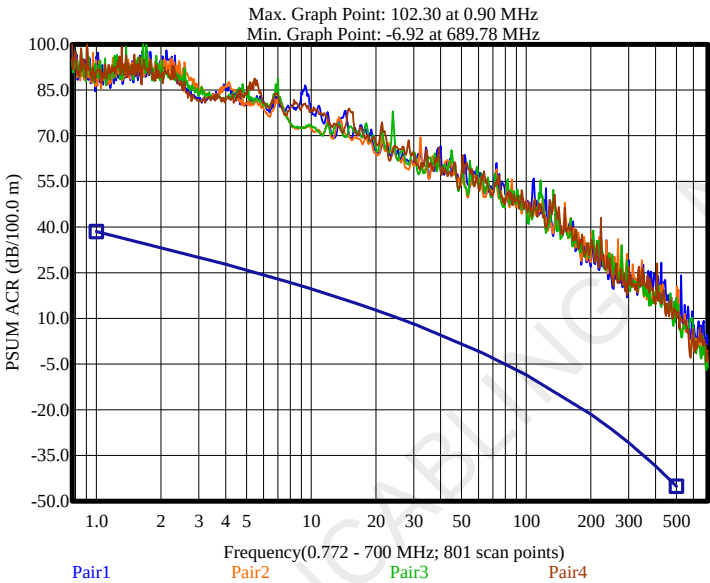
* = Measured value out of spec.
xxx = No entry.

*** = Measured value is invalid.



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Worst Case Summary

Low Frequency

Statistical Parameter	Maximum		Minimum		Average Maximum		Standard Deviation		
Test Type	Spec Limit	Measured	Spec Limit	Measured	Spec Limit	Measured	Spec Limit	Measured	Result
Conductor Resistance(Ohms/100.0 m)@20C	9.38	8.01	xxx	7.52	xxx	7.74	xxx	0.187	Passed
Loop Resistance(Ohms/100.0 m)@20C	18.76	16.00	xxx	15.04	xxx	15.47	xxx	0.373	Passed
Resistance Unbalance(%)	4.00	0.25	xxx	0.03	xxx	0.12	xxx	0.082	Passed
Mutual Capacitance(nF/100.0 m)@1000Hz	5.50	5.28	xxx	5.00	xxx	5.12	xxx	0.108	Passed
Cap. Unbalance to Ground(pF/100.0 m)@1000Hz	330.00	8.68	xxx	4.35	xxx	6.15	xxx	1.596	Passed

Summary: Conductor Resistance@20C

	Spec Limit	Measured Values		Result
Unit	Ohms/100.0 m	ohms/L	Ohms/100.0 m	
Maximum	9.38	8.15	8.01	Passed
Minimum	xxx	7.65	7.52	N/A
Avg. Max.	xxx	7.87	7.74	N/A
Std. Deviation	xxx	0.190	0.187	N/A

Summary: Loop Resistance@20C

	Spec Limit	Measured Values		Result
Unit	Ohms/100.0 m	ohms/L	Ohms/100.0 m	
Maximum	18.76	16.29	16.00	Passed
Minimum	xxx	15.31	15.04	N/A
Avg. Max.	xxx	15.75	15.47	N/A
Std. Deviation	xxx	0.380	0.373	N/A

Summary: Resistance Unbalance

	Spec Limit	Measured Values		Result
Unit	%	%	%	
Maximum	4.00	0.25	0.25	Passed
Minimum	xxx	0.03	0.03	N/A
Avg. Max.	xxx	xxx	0.12	N/A
Std. Deviation	xxx	xxx	0.082	N/A

Summary: Mutual Capacitance@1000 Hz

	Spec Limit	Measured Values		Result
Unit	nF/100.0 m	nF/L	nF/100.0 m	
Maximum	5.50	5.33	5.28	Passed
Minimum	xxx	5.05	5.00	N/A
Avg. Max.	xxx	5.17	5.12	N/A
Std. Deviation	xxx	0.109	0.108	N/A

Summary: Cap. Unbalance to Ground@1000 Hz

	Spec Limit	Measured Values		Result
Unit	pF/100.0 m	pF/L	pF/100.0 m	
Maximum	330.00	8.77	8.68	Passed
Minimum	xxx	4.39	4.35	N/A
Avg. Max.	xxx	6.21	6.15	N/A
Std. Deviation	xxx	1.612	1.596	N/A

Detail: Resistance/Capacitance Measurement -Normalized

Test Types	Conductor Resistance Ra @20C	Conductor Resistance Rb @20C	Loop Resistance @20C	Resistance Unbalance	Mutual Capacitance @1000 Hz	Capacitance Unbalance to Ground @1000 Hz	Test Result
Unit	Ohms/100.0 m	Ohms/100.0 m	Ohms/100.0 m	%	nF/100.0 m	pF/100.0 m	
Max Spec	9.38	9.38	18.76	4.00	5.50	330.00	
Min Spec	xxx	xxx	xxx	xxx	xxx	xxx	
Pair 1 [17]	7.99	8.01	16.00	0.25	5.28	8.68	Passed
Pair 2 [18]	7.61	7.60	15.21	0.03	5.00	-6.12	Passed
Pair 3 [19]	7.82	7.81	15.63	0.07	5.16	-4.35	Passed
Pair 4 [20]	7.52	7.53	15.04	0.11	5.05	-5.43	Passed

N/A = Not Applicable.
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