



Summary Report

Cable Certification

Cable ID	Result	Limit	Length(ft)	Margin	Date / Time
A-002	Pass	TIA - Cat 6 Channel	109.7	1.8 dB (NEXT)	1/21/2019 2:54:10 AM
A35-A-02	Pass	TIA - Cat 6 Channel	96.3	1.7 dB (NEXT)	1/21/2019 3:02:39 AM
A-001	Pass	TIA - Cat 6 Channel	110.2	0.8 dB (NEXT)	1/21/2019 2:12:53 AM
A-003	Pass	TIA - Cat 6 Channel	96.3	1.7 dB (NEXT)	1/21/2019 2:55:56 AM
A35-A-03	Pass	TIA - Cat 6 Channel	95.2	1.2 dB (NEXT)	1/21/2019 3:05:05 AM
A35-A-04	Pass	TIA - Cat 6 Channel	113.4	1.2 dB (NEXT)	1/21/2019 3:05:47 AM
A35-A-05	Pass	TIA - Cat 6 Channel	96.6	1.8 dB (NEXT)	1/21/2019 3:42:57 AM
A35-A-01	Pass	TIA - Cat 6 Channel	96.6	1.7 dB (NEXT)	1/21/2019 2:57:55 AM

Total
Records : 8
Total : 814.3ft
Length

Fiber Certification

Cable ID	Result	Limit	Length(ft)	Margin	Date / Time
MM-46-A-03	Pass	Loss Budget	39.4	2.5 dB	1/22/2019 5:10:39 AM
MM-46-A-01	Pass	Loss Budget	39.4	2.6 dB	1/22/2019 4:58:22 AM
A-001	Pass	Loss Budget	39.4	2.6 dB	1/22/2019 4:56:19 AM
MM-46-A-04	Pass	Loss Budget	39.4	2.5 dB	1/22/2019 5:10:56 AM
MM-46-A-02	Pass	Loss Budget	39.4	2.6 dB	1/22/2019 4:58:33 AM
MM-46-A-07	Pass	Loss Budget	39.4	2.7 dB	1/22/2019 5:12:50 AM
MM-46-A-05	Pass	Loss Budget	0	3.0 dB	1/22/2019 5:12:09 AM
MM-46-A-06	Pass	Loss Budget	39.4	2.7 dB	1/22/2019 5:12:38 AM
SM 1	Pass	Certification	34.4	∞ dB	1/31/2019 3:29:54 AM
SM 2	Pass	Certification	41	0.0 dB	1/31/2019 3:34:06 AM
SM 3	Pass	Certification	41	0.0 dB	1/31/2019 3:36:14 AM
A-002	Pass	Loss Budget	39.4	2.6 dB	1/22/2019 4:56:45 AM

Total
Records : 12
Total : 431.4ft
Length

Validation

Cable ID	Result	Limit	Length(ft)	Margin	Date / Time
A-001	Pass	IEEE 802.3	91.9	3.1dB	1/21/2019 2:16:19 AM
A-002	Pass	IEEE 802.3	173.9	1.7dB	1/21/2019 2:52:44 AM
Multi-Gig	Pass	IEEE 802.3	173.9	0.3dB	1/21/2019 2:49:02 AM

Total
Records : 3
Total : 439.6ft
Length



A-001



Pass

Test Time
Project

: 1/21/2019 2:16:19 AM
: Default

Limit
Model

: IEEE 802.3
: TestPro CV100 (Main: 5200-0077, Remote: 5200-0078)

Profile
Operator

: Validation
: Default

Device Software
Calibration Date

: 2.1.A11.5
: Sunday, June 11, 2017



Cable Length : 91.86 ft

SNR

Network Speed	Result	Limit	Pair 12 (dB)	Pair 36 (dB)	Pair 45 (dB)	Pair 78 (dB)
10G	Pass	0.0	4.2	3.1	3.6	4.6
5G	Pass	0.0	11.2	7.3	4.7	10.1
2.5G	Pass	0.0	12.7	12.7	12.7	12.7
1G	Pass		> 26	> 26	> 26	> 26
100M	Pass		> 26	> 26	> 26	> 26



Pass

Test Time : 1/21/2019 2:52:44 AM
Project : Default

Limit : IEEE 802.3
Model : TestPro CV100 (Main: 5200-0077, Remote: 5200-0078)
Device Software : 2.1.A11.5
Calibration Date : Sunday, June 11, 2017

Profile : Validation
Operator : Jack



Cable Length : 173.88 ft

SNR

Network Speed	Result	Limit	Pair 12 (dB)	Pair 36 (dB)	Pair 45 (dB)	Pair 78 (dB)
10G	Pass	0.0	3.6	1.7	1.9	3.5
5G	Pass	0.0	6.1	5.5	4.7	7.4
2.5G	Pass	0.0	12.2	11.9	11.6	12.3
1G	Pass		> 26	> 26	> 26	> 26
100M	Pass		> 26	> 26	> 26	> 26

POE

PSE Type	4
PD Class	8
Cable Pairing	12-36 & 45-78
Allocated Power	71.00 W
Voltage	52.36 V
Current	1.402 A
Real Power	73.41 W

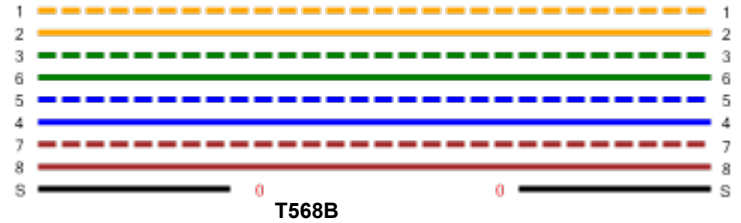


Pass

Test Time : 1/21/2019 2:54:10 AM
Project : Default
Profile : Certification
Operator : Default
Cable Type / NVP : vOL6FFLx , 80%
Connector : Generic Cat 6A

Limit : TIA - Cat 6 Channel
Model : TestPro CV100
Serial Number : (Main: 5200-0077, Remote: 5200-0078)
Device Software : 2.1.A11.5
Calibration Date : Sunday, June 11, 2017
Main Adapter : PROBE VALIDATOR AQ NBASE-T
Remote Adapter : PROBE VALIDATOR AQ NBASE-T

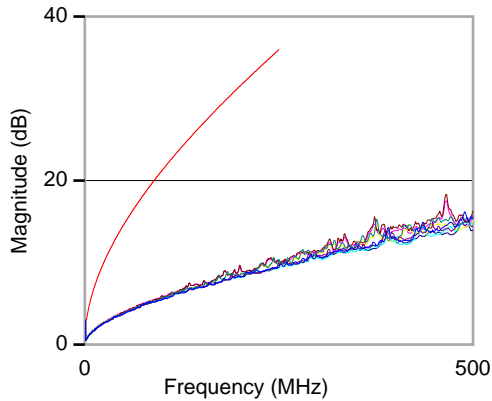
Parameter	Result	Pair	Value	Limit
Length(ft)	Pass	12	109.7	328.1
Prop Delay(ns)	Pass	36	144.0	555.0
Delay Skew(ns)	Pass	36	5.0	50.0
Loop Resistance(Ω)	Pass	36	4.748	25.000
Res. Unbal, pair-pair(Ω)	Info	36-78	0.067	0.324
Res. Unbal, wire-wire(Ω)	Info	78	0.064	0.200



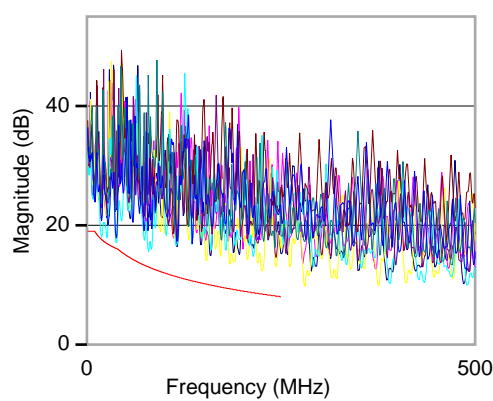
RF Parameters

Parameter	Result	Main							Remote						
		Worst Margin				Worst Value			Worst Margin				Worst Value		
		Pair	Margin (dB)	Limit (dB)	Freq (MHz)	Pair	Value (dB)	Freq (MHz)	Pair	Margin (dB)	Limit (dB)	Freq (MHz)	Pair	Value (dB)	Freq (MHz)
Return Loss	Pass	78	1.0	16.1	37.75	45	9.8	280.00	78	1.8	16.1	37.75	12	12.2	492.00
Insertion Loss	Pass	36	2.2	3.0	2.20	36	17.5	465.00	-	-	-	-	-	-	-
NEXT	Pass	36-45	1.8	34.0	222.00	36-45	35.8	222.00	36-45	4.8	33.8	227.50	36-45	38.6	227.50
PSNEXT	Pass	45	3.9	31.0	225.00	36	23.6	493.00	45	7.0	30.9	227.50	36	24.3	493.00
ACRF	Pass	12-45	12.2	37.6	19.00	12-36	23.1	464.00	45-12	12.3	37.6	19.15	36-12	26.9	464.00
PSACRF	Pass	45	13.1	34.6	19.00	36	22.5	464.00	45	13.4	35.3	17.65	45	25.0	451.00
TCL	Info	36	9.5	26.6	36.50	36	23.0	412.00	45	9.3	18.0	136.00	36	20.5	426.00
ELTCTL	Info	78	24.9	30.0	1.00	36	10.2	373.00	36	27.8	30.0	1.00	36	13.3	305.00

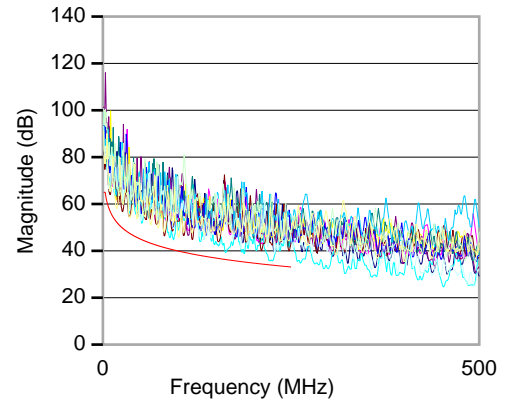
Insertion Loss



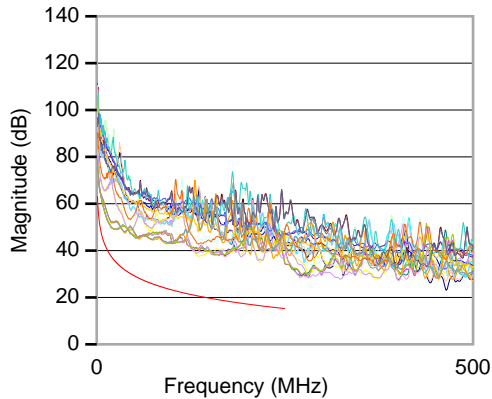
Return Loss



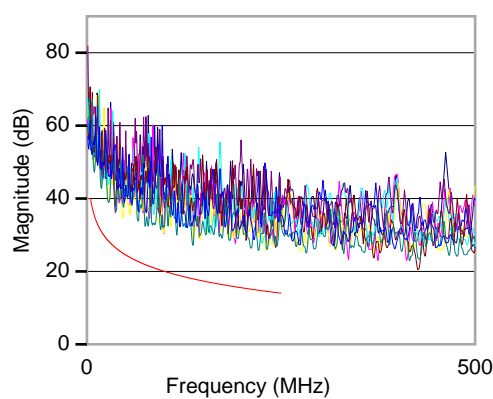
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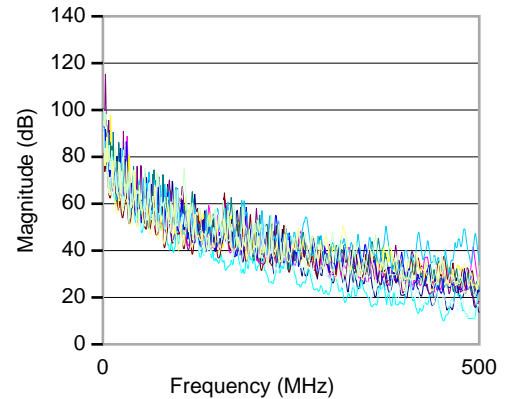
ACRF



TCL



ACRN



10BASE-T, 100BASE-T, 1000BASE-T, 2.5GBASE-T, 5GBASE-T (manufacturer should state AXT compliance)



A35-A-02

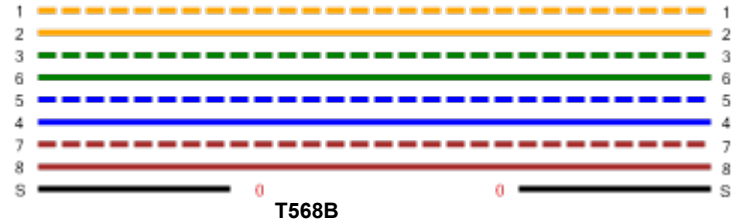


Pass

Test Time : 1/21/2019 3:02:39 AM
Project : Default
Profile : Certification
Operator : Jack
Cable Type / NVP : 4813 , 70%
Connector : Generic Cat 6A

Limit : TIA - Cat 6 Channel
Model : TestPro CV100
Serial Number : (Main: 5200-0077, Remote: 5200-0078)
Device Software : 2.1.A11.5
Calibration Date : Sunday, June 11, 2017
Main Adapter : PROBE VALIDATOR AQ NBASE-T
Remote Adapter : PROBE VALIDATOR AQ NBASE-T

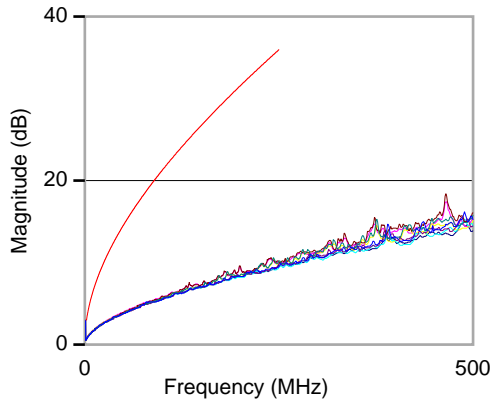
Parameter	Result	Pair	Value	Limit
Length(ft)	Pass	12	96.3	328.1
Prop Delay(ns)	Pass	36	145.0	555.0
Delay Skew(ns)	Pass	36	6.0	50.0
Loop Resistance(Ω)	Pass	36	4.600	25.000
Res. Unbal, pair-pair(Ω)	Info	36-78	0.065	0.314
Res. Unbal, wire-wire(Ω)	Info	78	0.061	0.200



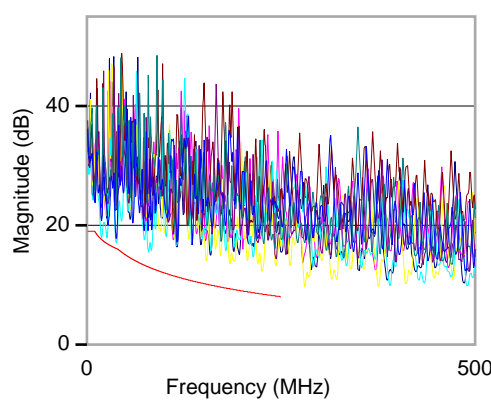
RF Parameters

Parameter	Result	Main							Remote						
		Worst Margin				Worst Value			Worst Margin				Worst Value		
		Pair	Margin (dB)	Limit (dB)	Freq (MHz)	Pair	Value (dB)	Freq (MHz)	Pair	Margin (dB)	Limit (dB)	Freq (MHz)	Pair	Value (dB)	Freq (MHz)
Return Loss	Pass	78	1.0	16.1	38.00	45	9.7	280.00	78	1.7	16.1	37.50	78	12.4	487.00
Insertion Loss	Pass	36	2.2	3.0	2.05	36	17.4	465.00	-	-	-	-	-	-	-
NEXT	Pass	36-45	1.7	34.0	221.50	36-45	35.7	221.50	36-45	5.0	33.8	227.50	36-45	38.8	227.50
PSNEXT	Pass	45	3.9	30.9	225.50	36	23.7	494.00	45	7.1	30.9	227.50	36	24.4	493.00
ACRF	Pass	12-45	12.1	37.6	19.15	12-36	23.0	464.00	45-12	12.2	37.6	19.00	36-12	27.1	464.00
PSACRF	Pass	45	13.0	34.6	19.00	36	22.4	464.00	45	12.8	60.2	1.00	45	24.9	451.00
TCL	Info	36	9.4	26.6	36.50	36	23.0	375.00	45	9.4	18.0	136.00	36	20.6	427.00
ELTCTL	Info	78	24.2	30.0	1.00	36	10.2	374.00	78	25.8	30.0	1.00	36	13.4	305.00

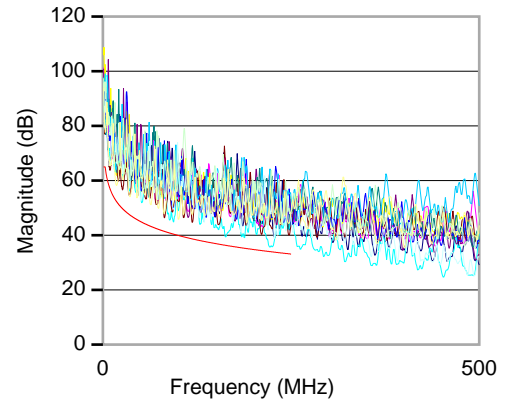
Insertion Loss



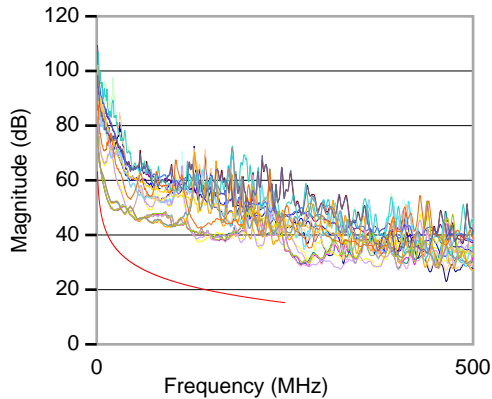
Return Loss



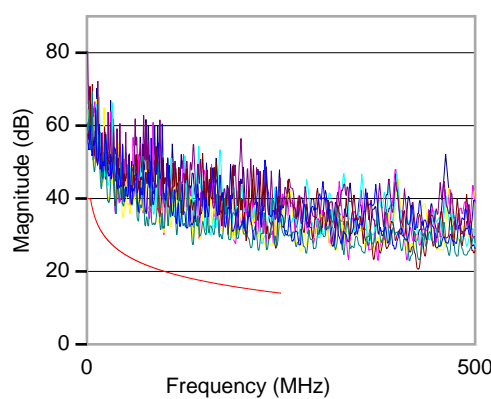
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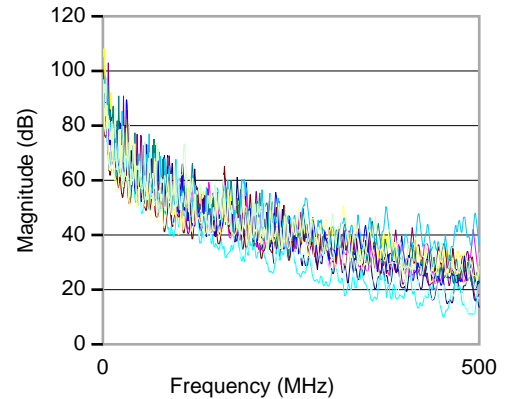
ACRF



TCL



ACRN



10BASE-T, 100BASE-T, 1000BASE-T, 2.5GBASE-T, 5GBASE-T (manufacturer should state AXT compliance)

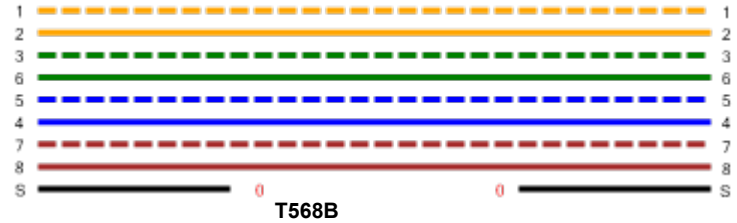


Pass

Test Time : 1/21/2019 2:12:53 AM
Project : Default
Profile : Certification
Operator : Default
Cable Type / NVP : vOL6FFLx , 80%
Connector : Generic Cat 6A

Limit : TIA - Cat 6 Channel
Model : TestPro CV100
Serial Number : (Main: 5200-0077, Remote: 5200-0078)
Device Software : 2.1.A11.5
Calibration Date : Sunday, June 11, 2017
Main Adapter : PROBE CAT 6A CHANNEL
Remote Adapter : PROBE CAT 6A CHANNEL

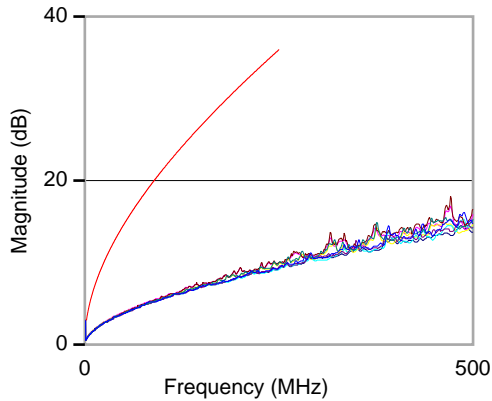
Parameter	Result	Pair	Value	Limit
Length(ft)	Pass	78	110.2	328.1
Prop Delay(ns)	Pass	36	147.0	555.0
Delay Skew(ns)	Pass	36	7.0	50.0
Loop Resistance(Ω)	Pass	36	4.281	25.000
Res. Unbal, pair-pair(Ω)	Info	36-78	0.053	0.293
Res. Unbal, wire-wire(Ω)	Info	36	0.025	0.200



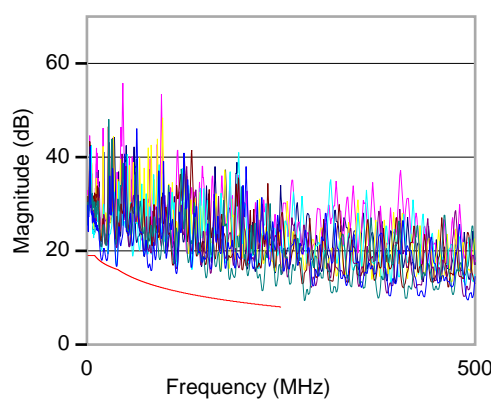
RF Parameters

Parameter	Result	Main							Remote						
		Worst Margin				Worst Value			Worst Margin				Worst Value		
		Pair	Margin (dB)	Limit (dB)	Freq (MHz)	Pair	Value (dB)	Freq (MHz)	Pair	Margin (dB)	Limit (dB)	Freq (MHz)	Pair	Value (dB)	Freq (MHz)
Return Loss	Pass	78	0.9	16.1	38.00	78	12.7	487.00	78	0.6	16.1	38.25	45	9.4	280.00
Insertion Loss	Pass	36	2.2	3.0	2.05	36	16.9	471.00	-	-	-	-	-	-	-
NEXT	Pass	45-78	5.9	52.2	18.55	12-36	42.8	245.50	36-45	0.8	33.9	225.00	36-45	34.7	225.00
PSNEXT	Pass	45	6.4	43.0	45.00	45	24.5	495.00	45	3.0	31.0	225.00	36	23.8	458.00
ACRF	Pass	12-45	12.7	38.3	17.50	45-78	25.1	472.00	12-45	12.6	37.6	19.15	12-36	24.7	472.00
PSACRF	Pass	45	13.5	35.3	17.65	78	24.7	472.00	45	13.4	34.6	19.15	36	23.7	471.00
TCL	Info	45	8.9	18.0	136.50	45	24.5	232.00	36	9.1	26.6	36.25	36	24.7	374.00
ELTCTL	Info	78	29.2	30.0	1.00	36	14.5	444.00	36	31.0	30.0	1.00	78	14.4	492.00

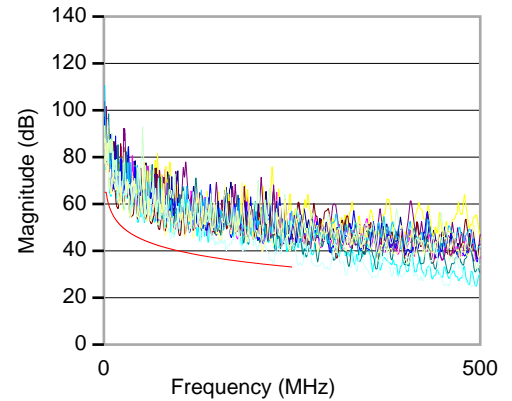
Insertion Loss



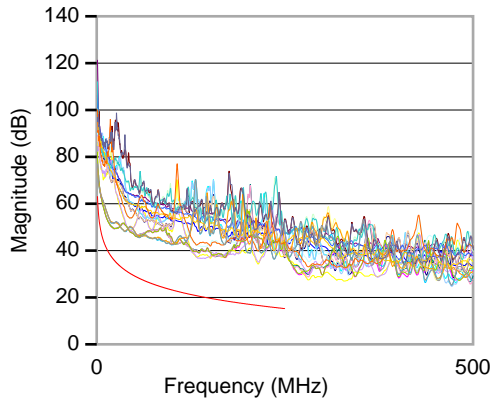
Return Loss



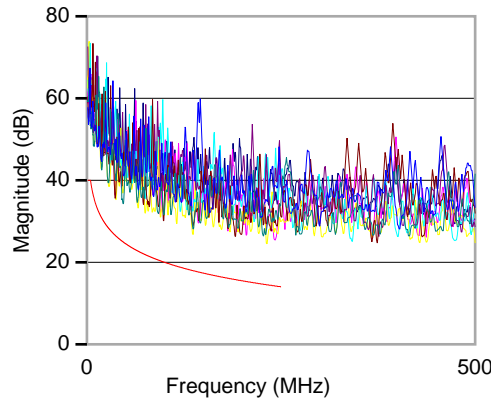
NEXT



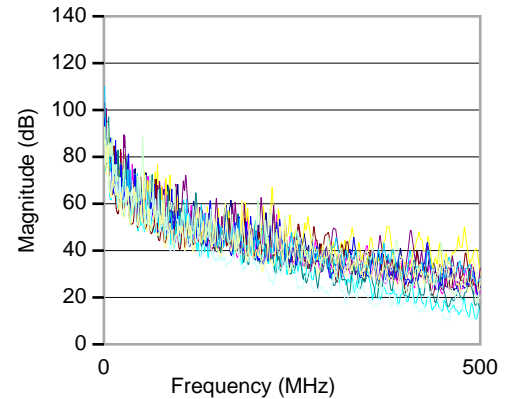
ACRF



TCL



ACRN



10BASE-T, 100BASE-T, 1000BASE-T, 2.5GBASE-T, 5GBASE-T (manufacturer should state AXT compliance)

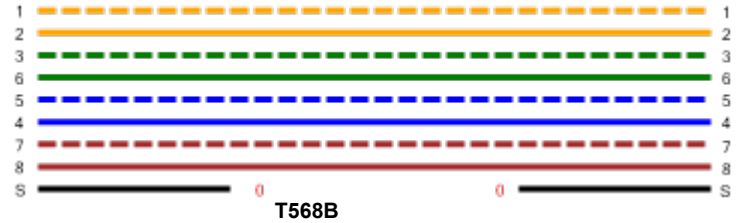


Pass

Test Time : 1/21/2019 2:55:56 AM
 Project : Default
 Profile : Certification
 Operator : Default
 Cable Type / NVP : 4813 , 70%
 Connector : Generic Cat 6A

Limit : TIA - Cat 6 Channel
 Model : TestPro CV100
 Serial Number : (Main: 5200-0077, Remote: 5200-0078)
 Device Software : 2.1.A11.5
 Calibration Date : Sunday, June 11, 2017
 Main Adapter : PROBE VALIDATOR AQ NBASE-T
 Remote Adapter : PROBE VALIDATOR AQ NBASE-T

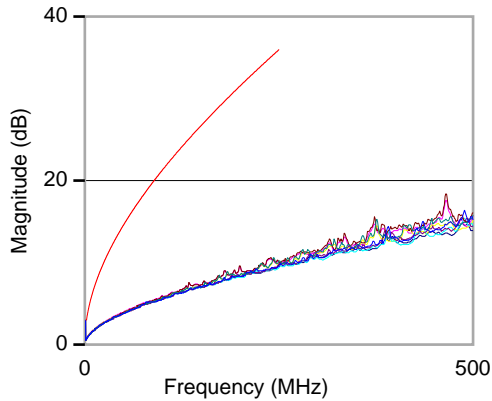
Parameter	Result	Pair	Value	Limit
Length(ft)	Pass	12	96.3	328.1
Prop Delay(ns)	Pass	36	147.0	555.0
Delay Skew(ns)	Pass	36	8.0	50.0
Loop Resistance(Ω)	Pass	36	4.741	25.000
Res. Unbal, pair-pair(Ω)	Info	36-78	0.066	0.324
Res. Unbal, wire-wire(Ω)	Info	78	0.063	0.200



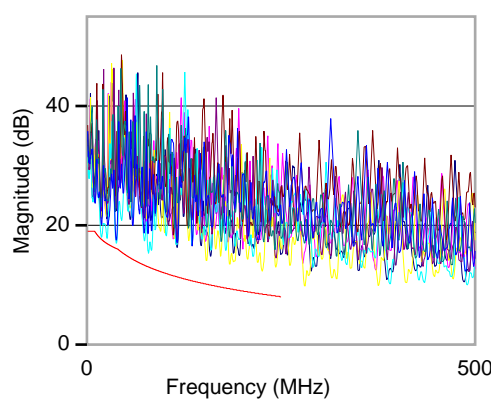
RF Parameters

Parameter	Result	Main							Remote						
		Worst Margin				Worst Value			Worst Margin				Worst Value		
		Pair	Margin (dB)	Limit (dB)	Freq (MHz)	Pair	Value (dB)	Freq (MHz)	Pair	Margin (dB)	Limit (dB)	Freq (MHz)	Pair	Value (dB)	Freq (MHz)
Return Loss	Pass	78	0.9	16.1	37.75	45	9.8	281.00	78	1.4	16.1	37.75	12	12.3	492.00
Insertion Loss	Pass	36	2.2	3.0	2.05	36	17.6	465.00	-	-	-	-	-	-	-
NEXT	Pass	36-45	1.7	34.0	221.50	36-45	35.7	221.50	36-45	4.6	33.8	227.50	36-45	38.4	227.50
PSNEXT	Pass	45	3.8	31.0	225.00	36	23.7	494.00	45	6.8	30.9	227.50	36	24.5	493.00
ACRF	Pass	12-45	12.2	37.6	19.00	12-36	23.1	464.00	45-12	12.3	37.8	18.55	36-12	26.8	464.00
PSACRF	Pass	45	13.1	60.2	1.00	36	22.5	464.00	45	13.5	34.9	18.40	45	25.1	452.00
TCL	Info	36	9.5	26.6	36.50	36	23.2	412.00	45	9.3	18.0	136.00	36	20.7	427.00
ELTCTL	Info	78	25.2	30.0	1.00	36	10.2	373.00	78	26.9	30.0	1.00	36	13.3	305.00

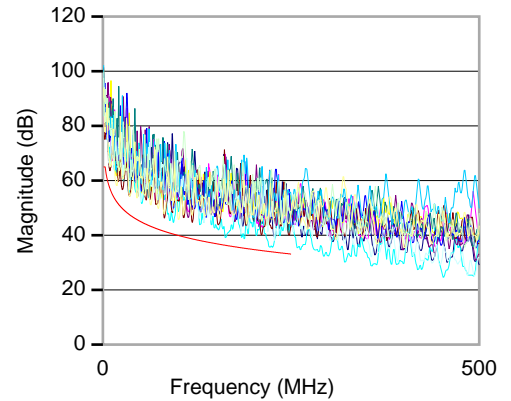
Insertion Loss



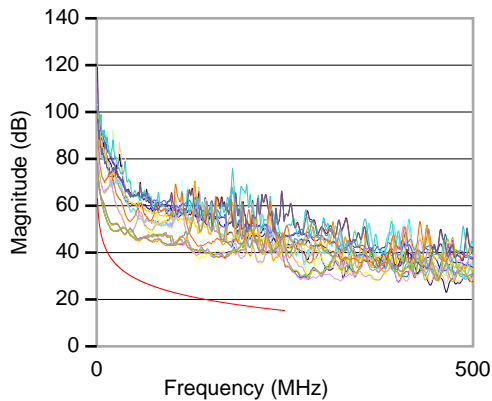
Return Loss



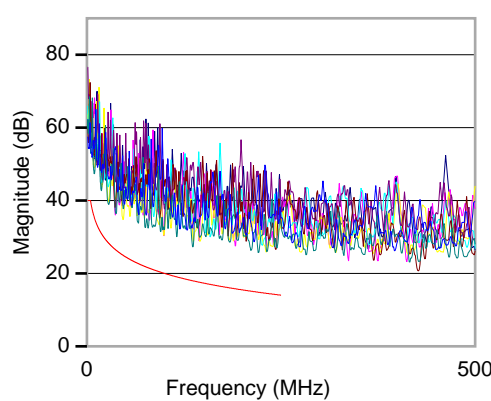
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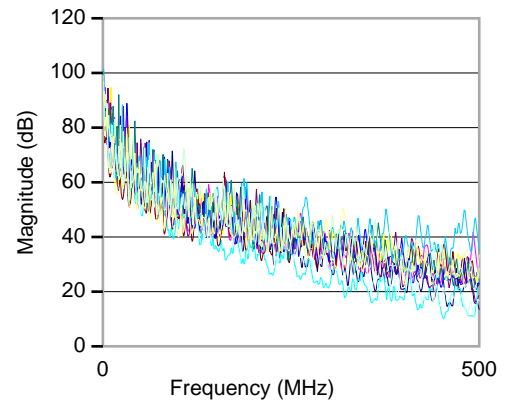
ACRF



TCL



ACRN



10BASE-T, 100BASE-T, 1000BASE-T, 2.5GBASE-T, 5GBASE-T (manufacturer should state AXT compliance)



A35-A-03

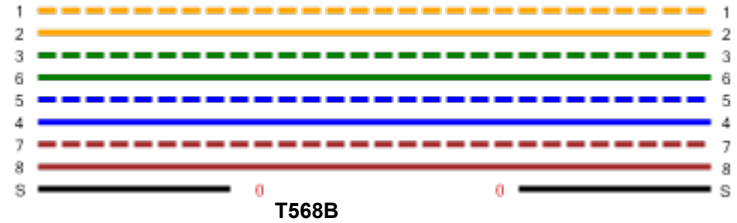


Pass

Test Time : 1/21/2019 3:05:05 AM
Project : Default
Profile : Certification
Operator : Jack
Cable Type / NVP : 4813 , 70%
Connector : Generic Cat 6A

Limit : TIA - Cat 6 Channel
Model : TestPro CV100
Serial Number : (Main: 5200-0077, Remote: 5200-0078)
Device Software : 2.1.A11.5
Calibration Date : Sunday, June 11, 2017
Main Adapter : PROBE CAT 6A CHANNEL
Remote Adapter : PROBE CAT 6A CHANNEL

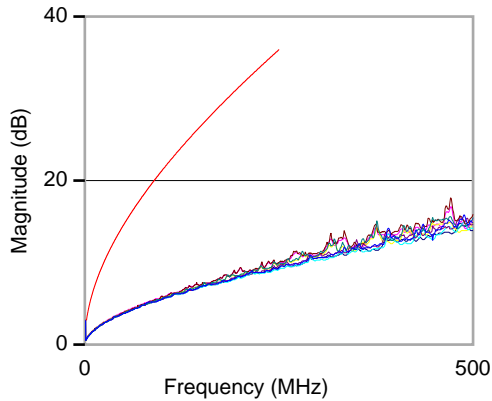
Parameter	Result	Pair	Value	Limit
Length(ft)	Pass	12	95.2	328.1
Prop Delay(ns)	Pass	36	145.0	555.0
Delay Skew(ns)	Pass	36	7.0	50.0
Loop Resistance(Ω)	Pass	36	4.548	25.000
Res. Unbal, pair-pair(Ω)	Info	36-78	0.050	0.312
Res. Unbal, wire-wire(Ω)	Info	36	0.032	0.200



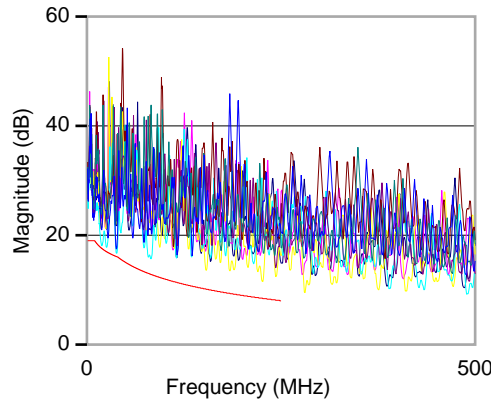
RF Parameters

Parameter	Result	Main							Remote						
		Worst Margin				Worst Value			Worst Margin				Worst Value		
		Pair	Margin (dB)	Limit (dB)	Freq (MHz)	Pair	Value (dB)	Freq (MHz)	Pair	Margin (dB)	Limit (dB)	Freq (MHz)	Pair	Value (dB)	Freq (MHz)
Return Loss	Pass	78	0.6	16.1	38.25	78	9.2	489.00	78	1.4	16.1	37.75	12	11.6	492.00
Insertion Loss	Pass	36	2.2	3.0	2.20	36	16.8	471.00		-	-	-		-	-
NEXT	Pass	36-45	1.2	33.9	224.50	36-45	35.1	224.50	36-45	4.9	33.3	242.50	36-45	38.2	242.50
PSNEXT	Pass	45	3.3	31.0	225.00	36	23.5	458.00	36	6.8	32.5	182.50	36	24.2	494.00
ACRF	Pass	12-45	12.8	38.6	17.05	12-36	24.0	472.00	45-12	12.7	37.6	19.00	36-12	26.4	476.00
PSACRF	Pass	45	13.6	34.6	19.15	36	23.0	472.00	45	13.7	35.1	17.95	45	24.9	450.00
TCL	Info	36	9.2	26.6	36.25	36	24.2	374.00	45	9.4	18.0	136.00	45	25.2	428.00
ELTCTL	Info	78	30.2	30.0	1.00	36	14.1	435.00	78	30.7	30.0	1.00	36	14.8	443.00

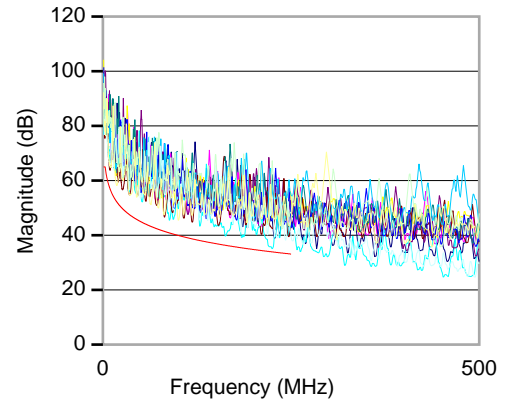
Insertion Loss



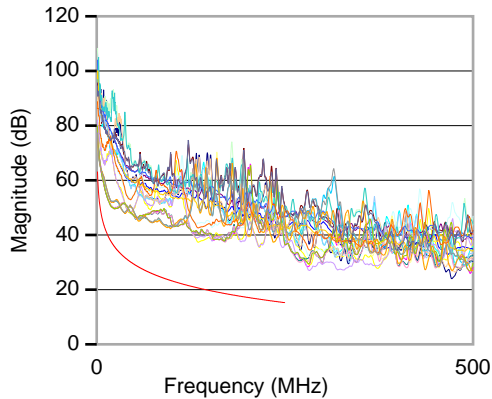
Return Loss



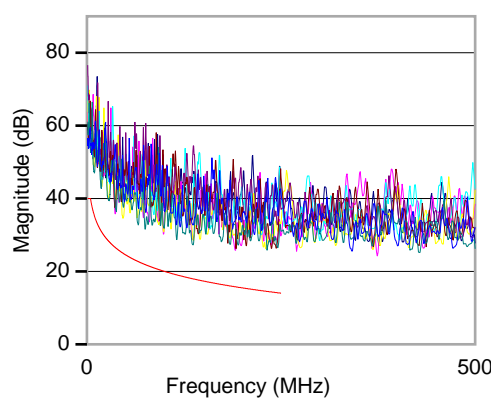
NEXT



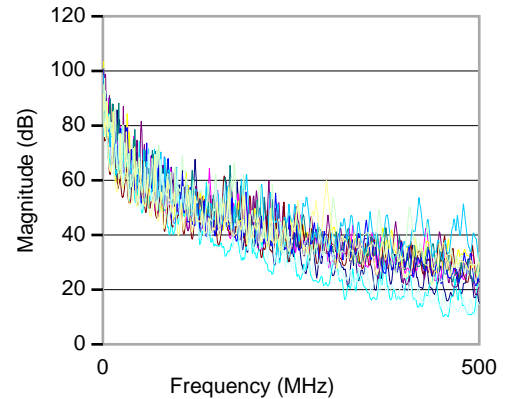
ACRF



TCL



ACRN



10BASE-T, 100BASE-T, 1000BASE-T, 2.5GBASE-T, 5GBASE-T (manufacturer should state AXT compliance)



Multi-Gig



Pass

Test Time : 1/21/2019 2:49:02 AM
Project : Default

Limit : IEEE 802.3
Model : TestPro CV100 (Main: 5200-0077, Remote: 5200-0078)
Device Software : 2.1.A11.5
Calibration Date : Sunday, June 11, 2017

Profile : Validation
Operator : Default



Cable Length : 173.88 ft

SNR

Network Speed	Result	Limit	Pair 12 (dB)	Pair 36 (dB)	Pair 45 (dB)	Pair 78 (dB)
10G	Pass	0.0	3.5	0.3	0.8	3.2
5G	Pass	0.0	7.4	5.3	4.9	8.3
2.5G	Pass	0.0	10.5	11.6	12.5	12.5
1G	Pass		> 26	> 26	> 26	> 26
100M	Pass		> 26	> 26	> 26	> 26

POE

PSE Type	4
PD Class	8
Cable Pairing	12-36 & 45-78
Allocated Power	71.00 W
Voltage	52.36 V
Current	1.402 A
Real Power	73.41 W



A35-A-04

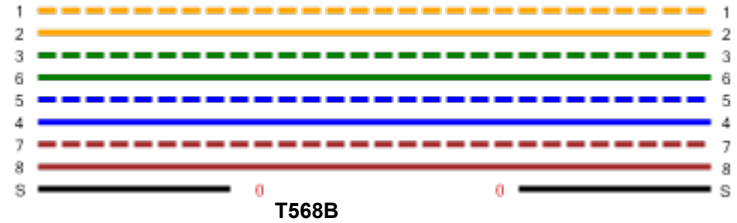


Pass

Test Time : 1/21/2019 3:05:47 AM
Project : Default
Profile : Certification
Operator : Jack
Cable Type / NVP : 4813 , 70%
Connector : Generic Cat 6A

Limit : TIA - Cat 6 Channel
Model : TestPro CV100
Serial Number : (Main: 5200-0077, Remote: 5200-0078)
Device Software : 2.1.A11.5
Calibration Date : Sunday, June 11, 2017
Main Adapter : PROBE CAT 6A CHANNEL
Remote Adapter : PROBE CAT 6A CHANNEL

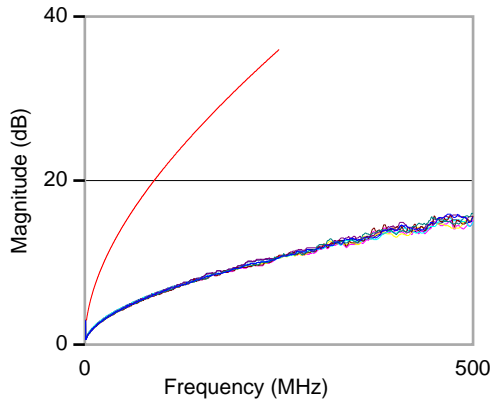
Parameter	Result	Pair	Value	Limit
Length(ft)	Pass	36	113.4	328.1
Prop Delay(ns)	Pass	12	166.0	555.0
Delay Skew(ns)	Pass	12	2.0	50.0
Loop Resistance(Ω)	Pass	78	6.182	25.000
Res. Unbal, pair-pair(Ω)	Info	45-78	0.036	0.429
Res. Unbal, wire-wire(Ω)	Info	36	0.040	0.200



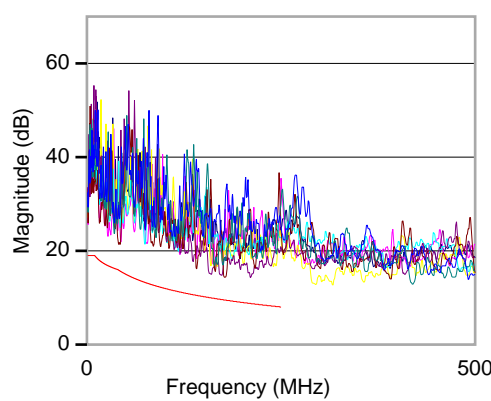
RF Parameters

Parameter	Result	Main							Remote						
		Worst Margin				Worst Value			Worst Margin				Worst Value		
		Pair	Margin (dB)	Limit (dB)	Freq (MHz)	Pair	Value (dB)	Freq (MHz)	Pair	Margin (dB)	Limit (dB)	Freq (MHz)	Pair	Value (dB)	Freq (MHz)
Return Loss	Pass	36	6.3	15.6	43.50	45	12.7	317.00	36	4.9	9.5	177.50	45	12.9	419.00
Insertion Loss	Pass	12	2.0	3.0	2.20	78	15.4	467.00	-	-	-	-	-	-	-
NEXT	Pass	36-78	1.2	44.2	56.00	36-45	35.8	239.00	36-78	2.5	47.4	36.00	45-78	43.5	120.50
PSNEXT	Pass	78	2.9	39.3	74.50	36	28.7	341.00	36	3.4	44.8	35.50	36	28.7	497.00
ACRF	Pass	12-78	9.6	49.1	5.05	12-78	20.7	488.00	12-78	9.5	48.7	5.35	12-78	19.3	487.00
PSACRF	Pass	78	12.2	60.2	1.00	78	19.5	489.00	78	12.4	45.7	5.35	78	18.4	487.00
TCL	Info	36	8.6	15.6	195.00	36	24.2	195.00	36	9.7	18.0	136.50	12	25.5	489.00
ELTCTL	Info	36	30.4	30.0	1.00	12	14.1	487.00	36	29.4	30.0	1.00	12	13.4	485.00

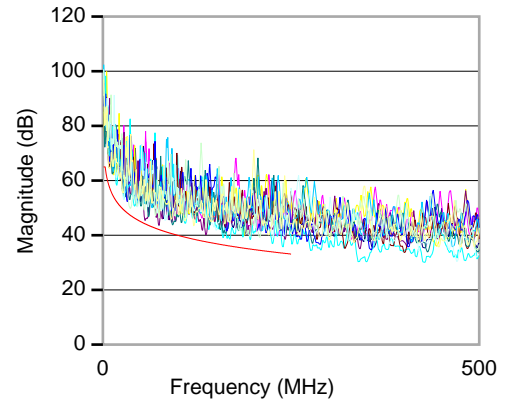
Insertion Loss



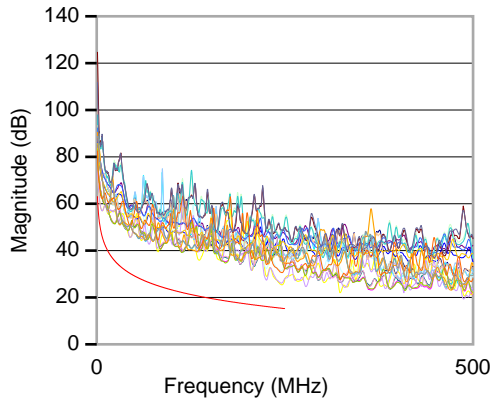
Return Loss



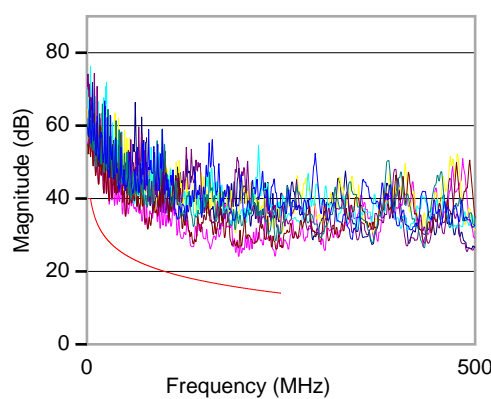
NEXT



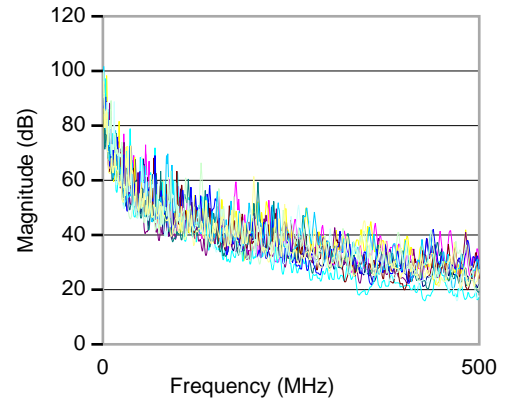
ACRF



TCL



ACRN



10BASE-T, 100BASE-T, 1000BASE-T, 2.5GBASE-T, 5GBASE-T (manufacturer should state AXT compliance)



Pass

Test Time : 1/22/2019 5:10:39 AM
Project : Default
Profile : Fiber Certification
Operator : Default
Jumper Method : One Jumper
Cable Type : Generic MMF
Connector : Generic MMF

Performance Grade : OM1
Configuration : Dual Ended Single Direction

Limit : Loss Budget
Model : TestPro CV100
Serial Number : (Main: 5200-1003, Remote:)
Device Software : 2.1.A11.5
Calibration Date : Thursday, October 18, 2018
Main Adapter : PROBE FIBER MM
Remote Adapter : PROBE FIBER MM

Length(ft) : 39.37
Delay(ns) : 60.2

850 nm

Pair	Result	Data	Limit	Margin
Fiber 1 Main to Remote	Pass	0.16	3.00	2.84
Fiber 2 Remote to Main	Pass	0.38	3.00	2.62

1300 nm

Pair	Result	Data	Limit	Margin
Fiber 1 Main to Remote	Pass	0.27	3.00	2.73
Fiber 2 Remote to Main	Pass	0.48	3.00	2.52

Compliant Network

10BASE-FLand FB
FDDI PMD
1000BASE-LX
10GBASE-LX4
Fibre Channel (FC-PH) at 1062Mbit/s
4 and 16 Mbit/s Token Ring
ATM at 155 Mbit/s

100BASE-FX
1000BASE-SX
10GBASE-SR/SW
10Gbps
2 Gbit/s FC
ATM at 52 Mbit/s
ATM at 622 Mbit/s



MM-46-A-01



Pass

Test Time
Project
Profile
Operator
Jumper Method
Cable Type
Connector

: 1/22/2019 4:58:22 AM
: Default
: Fiber Certification
: Default
: One Jumper
: Generic MMF
: Generic MMF

Limit
Model
Serial Number
Device Software
Calibration Date
Main Adapter
Remote Adapter

: Loss Budget
: TestPro CV100
: (Main: 5200-1003, Remote:)
: 2.1.A11.5
: Thursday, October 18, 2018
: PROBE FIBER MM
: PROBE FIBER MM

Performance Grade
Configuration

: OM1
: Dual Ended Single Direction

Length(ft)
Delay(ns)

: 39.37
: 60.1

850 nm

Pair	Result	Data	Limit	Margin
Fiber 1 Main to Remote	Pass	0.17	3.00	2.83
Fiber 2 Remote to Main	Pass	0.41	3.00	2.59

1300 nm

Pair	Result	Data	Limit	Margin
Fiber 1 Main to Remote	Pass	0.23	3.00	2.77
Fiber 2 Remote to Main	Pass	0.42	3.00	2.58

Compliant Network

10BASE-FLand FB
FDDI PMD
1000BASE-LX
10GBASE-LX4
Fibre Channel (FC-PH) at 1062Mbit/s
4 and 16 Mbit/s Token Ring
ATM at 155 Mbit/s

100BASE-FX
1000BASE-SX
10GBASE-SR/SW
10Gbps
2 Gbit/s FC
ATM at 52 Mbit/s
ATM at 622 Mbit/s



Pass

Test Time : 1/22/2019 4:56:19 AM
Project : Default
Profile : Fiber Certification
Operator : Default
Jumper Method : One Jumper
Cable Type : Generic MMF
Connector : Generic MMF

Performance Grade : OM1
Configuration : Dual Ended Single Direction

Limit : Loss Budget
Model : TestPro CV100
Serial Number : (Main: 5200-1003, Remote:)
Device Software : 2.1.A11.5
Calibration Date : Thursday, October 18, 2018
Main Adapter : PROBE FIBER MM
Remote Adapter : PROBE FIBER MM

Length(ft) : 39.37
Delay(ns) : 60

850 nm

Pair	Result	Data	Limit	Margin
Fiber 1 Main to Remote	Pass	0.18	3.00	2.82
Fiber 2 Remote to Main	Pass	0.40	3.00	2.60

1300 nm

Pair	Result	Data	Limit	Margin
Fiber 1 Main to Remote	Pass	0.22	3.00	2.78
Fiber 2 Remote to Main	Pass	0.40	3.00	2.60

Compliant Network

- 10BASE-FLand FB
FDDI PMD
1000BASE-LX
10GBASE-LX4
Fibre Channel (FC-PH) at 1062Mbit/s
4 and 16 Mbit/s Token Ring
ATM at 155 Mbit/s
- 100BASE-FX
1000BASE-SX
10GBASE-SR/SW
10Gbps
2 Gbit/s FC
ATM at 52 Mbit/s
ATM at 622 Mbit/s



Pass

Test Time

Project

Profile

Operator

Jumper Method

Cable Type

Connector

Performance Grade

Configuration

: 1/22/2019 5:10:56 AM

: Default

: Fiber Certification

: Default

: One Jumper

: Generic MMF

: Generic MMF

: OM1

: Dual Ended Single Direction

Limit

Model

Serial Number

Device Software

Calibration Date

Main Adapter

Remote Adapter

Length(ft)

Delay(ns)

: Loss Budget

: TestPro CV100

: (Main: 5200-1003, Remote:)

: 2.1.A11.5

: Thursday, October 18, 2018

: PROBE FIBER MM

: PROBE FIBER MM

: 39.37

: 60.2

850 nm

Pair	Result	Data	Limit	Margin
Fiber 1 Main to Remote	Pass	0.15	3.00	2.85
Fiber 2 Remote to Main	Pass	0.37	3.00	2.63

1300 nm

Pair	Result	Data	Limit	Margin
Fiber 1 Main to Remote	Pass	0.27	3.00	2.73
Fiber 2 Remote to Main	Pass	0.47	3.00	2.53

Compliant Network

10BASE-FLand FB

FDDI PMD

1000BASE-LX

10GBASE-LX4

Fibre Channel (FC-PH) at 1062Mbit/s

4 and 16 Mbit/s Token Ring

ATM at 155 Mbit/s

100BASE-FX

1000BASE-SX

10GBASE-SR/SW

10Gbps

2 Gbit/s FC

ATM at 52 Mbit/s

ATM at 622 Mbit/s



Pass

Test Time

Project

Profile

Operator

Jumper Method

Cable Type

Connector

Performance Grade

Configuration

: 1/22/2019 4:58:33 AM

: Default

: Fiber Certification

: Default

: One Jumper

: Generic MMF

: Generic MMF

: OM1

: Dual Ended Single Direction

Limit

Model

Serial Number

Device Software

Calibration Date

Main Adapter

Remote Adapter

Length(ft)

Delay(ns)

: Loss Budget

: TestPro CV100

: (Main: 5200-1003, Remote:)

: 2.1.A11.5

: Thursday, October 18, 2018

: PROBE FIBER MM

: PROBE FIBER MM

: 39.37

: 60.1

850 nm

Pair	Result	Data	Limit	Margin
Fiber 1 Main to Remote	Pass	0.16	3.00	2.84
Fiber 2 Remote to Main	Pass	0.38	3.00	2.62

1300 nm

Pair	Result	Data	Limit	Margin
Fiber 1 Main to Remote	Pass	0.23	3.00	2.77
Fiber 2 Remote to Main	Pass	0.42	3.00	2.58

Compliant Network

- 10BASE-FLand FB

FDDI PMD

1000BASE-LX

10GBASE-LX4

Fibre Channel (FC-PH) at 1062Mbit/s

4 and 16 Mbit/s Token Ring

ATM at 155 Mbit/s
- 100BASE-FX

1000BASE-SX

10GBASE-SR/SW

10Gbps

2 Gbit/s FC

ATM at 52 Mbit/s

ATM at 622 Mbit/s



Pass

Test Time
Project
Profile
Operator
Jumper Method
Cable Type
Connector

: 1/22/2019 5:12:50 AM
: Default
: Fiber Certification
: Default
: One Jumper
: Generic MMF
: Generic MMF

Limit
Model
Serial Number
Device Software
Calibration Date
Main Adapter
Remote Adapter

: Loss Budget
: TestPro CV100
: (Main: 5200-1003, Remote:)
: 2.1.A11.5
: Thursday, October 18, 2018
: PROBE FIBER MM
: PROBE FIBER MM

Performance Grade
Configuration

: OM1
: Dual Ended Single Direction

Length(ft)
Delay(ns)

: 39.37
: 60

850 nm

Pair	Result	Data	Limit	Margin
Fiber 1 Main to Remote	Pass	0.12	3.00	2.88
Fiber 2 Remote to Main	Pass	0.32	3.00	2.68

1300 nm

Pair	Result	Data	Limit	Margin
Fiber 1 Main to Remote	Pass	0.16	3.00	2.84
Fiber 2 Remote to Main	Pass	0.30	3.00	2.70

Compliant Network

10BASE-FLand FB
FDDI PMD
1000BASE-LX
10GBASE-LX4
Fibre Channel (FC-PH) at 1062Mbit/s
4 and 16 Mbit/s Token Ring
ATM at 155 Mbit/s

100BASE-FX
1000BASE-SX
10GBASE-SR/SW
10Gbps
2 Gbit/s FC
ATM at 52 Mbit/s
ATM at 622 Mbit/s



Pass

Test Time

Project

Profile

Operator

Jumper Method

Cable Type

Connector

Performance Grade

Configuration

: 1/22/2019 5:12:09 AM

: Default

: Fiber Certification

: Default

: One Jumper

: Generic MMF

: Generic MMF

: OM1

: Dual Ended Single Direction

Limit

Model

Serial Number

Device Software

Calibration Date

Main Adapter

Remote Adapter

Length(ft)

Delay(ns)

: Loss Budget

: TestPro CV100

: (Main: 5200-1003, Remote:)

: 2.1.A11.5

: Thursday, October 18, 2018

: PROBE FIBER MM

: PROBE FIBER MM

: 0.00

: 0

850 nm

Pair	Result	Data	Limit	Margin
Fiber 1 Main to Remote	Pass	0.00	3.00	3.00
Fiber 2 Remote to Main	Pass	0.00	3.00	3.00

1300 nm

Pair	Result	Data	Limit	Margin
Fiber 1 Main to Remote	Pass	0.00	3.00	3.00
Fiber 2 Remote to Main	Pass	0.00	3.00	3.00

Compliant Network

10BASE-FLand FB

FDDI PMD

1000BASE-LX

10GBASE-LX4

Fibre Channel (FC-PH) at 1062Mbit/s

4 and 16 Mbit/s Token Ring

ATM at 155 Mbit/s

100BASE-FX

1000BASE-SX

10GBASE-SR/SW

10Gbps

2 Gbit/s FC

ATM at 52 Mbit/s

ATM at 622 Mbit/s



Pass

Test Time : 1/22/2019 5:12:38 AM
Project : Default
Profile : Fiber Certification
Operator : Default
Jumper Method : One Jumper
Cable Type : Generic MMF
Connector : Generic MMF

Performance Grade : OM1
Configuration : Dual Ended Single Direction

Limit : Loss Budget
Model : TestPro CV100
Serial Number : (Main: 5200-1003, Remote:)
Device Software : 2.1.A11.5
Calibration Date : Thursday, October 18, 2018
Main Adapter : PROBE FIBER MM
Remote Adapter : PROBE FIBER MM

Length(ft) : 39.37
Delay(ns) : 60

850 nm

Pair	Result	Data	Limit	Margin
Fiber 1 Main to Remote	Pass	0.14	3.00	2.86
Fiber 2 Remote to Main	Pass	0.33	3.00	2.67

1300 nm

Pair	Result	Data	Limit	Margin
Fiber 1 Main to Remote	Pass	0.16	3.00	2.84
Fiber 2 Remote to Main	Pass	0.31	3.00	2.69

Compliant Network

10BASE-FLand FB	100BASE-FX
FDDI PMD	1000BASE-SX
1000BASE-LX	10GBASE-SR/SW
10GBASE-LX4	10Gbps
Fibre Channel (FC-PH) at 1062Mbit/s	2 Gbit/s FC
4 and 16 Mbit/s Token Ring	ATM at 52 Mbit/s
ATM at 155 Mbit/s	ATM at 622 Mbit/s



SM 1



Pass

Test Time

Project

Profile

Operator

Jumper Method

Cable Type

Connector

: 1/31/2019 3:29:54 AM

: Default

: Fiber Certification

: Default

: One Jumper

: OS1

: LC

Limit

Model

Serial Number

Device Software

Calibration Date

Main Adapter

Remote Adapter

: Certification

: TestPro CV100

: (Main: 5200-0077, Remote:)

: 2.1.A12

: Sunday, June 11, 2017

: PROBE FIBER SM

: PROBE FIBER SM

Performance Grade

Configuration

No. End Connectors

No. Connectors

No. Splices

: OS1

: Dual Ended Bi-Direction

: 0

: 0

: 0

Length(ft)

Delay(ns)

End Connector Loss

Connector Loss

Splice Loss

: 34.45

: 52.3

: 0

: 0.75

: 0.1

1310 nm

Pair	Result	Data	Limit	Margin
Fiber 1 Main to Remote	Pass	-∞	NaN	∞
Fiber 2 Remote to Main	Pass	-∞	NaN	∞
Fiber 1 Remote to Main	Pass	-∞	NaN	∞
Fiber 2 Main to Remote	Pass	-∞	NaN	∞

1550 nm

Pair	Result	Data	Limit	Margin
Fiber 1 Main to Remote	Pass	-∞	NaN	∞
Fiber 2 Remote to Main	Pass	-∞	NaN	∞
Fiber 1 Remote to Main	Pass	-∞	NaN	∞
Fiber 2 Main to Remote	Pass	-∞	NaN	∞

Compliant Network

FDDI SMF-PMD

10GBASE-LX4

10GBASE-LR

40GBASE-FR

100GBASE-ER4

1Gbit/s FC

4Gbit/s FC

16Gbit/s FC

ATM at 52 Mbit/s

ATM at 622 Mbit/s

1000BASE-LX

10GBASE-ER

40GBASE-LR4

100GBASE-LR4

Fibre Channel (FC-PH) at 1062Mbit/s

2Gbit/s FC

8Gbit/s FC

32Gbit/s FC

ATM at 155 Mbit/s



SM 2



Pass

Test Time : 1/31/2019 3:34:06 AM
Project : Default
Profile : Fiber Certification
Operator : Default
Jumper Method : One Jumper
Cable Type : OS1
Connector : LC

Limit : Certification
Model : TestPro CV100
Serial Number : (Main: 5200-0077, Remote:)
Device Software : 2.1.A12
Calibration Date : Sunday, June 11, 2017
Main Adapter : PROBE FIBER SM
Remote Adapter : PROBE FIBER SM

Performance Grade : OS1
Configuration : Dual Ended Bi-Direction
No. End Connectors : 0
No. Connectors : 0
No. Splices : 0

Length(ft) : 41.01
Delay(ns) : 62.5
End Connector Loss : 0
Connector Loss : 0.75
Splice Loss : 0.1

1310 nm

Pair	Result	Data	Limit	Margin
Fiber 1 Main to Remote	Pass	-∞	NaN	∞
Fiber 2 Remote to Main	Pass	-∞	NaN	∞
Fiber 1 Remote to Main	Pass	0.00	0.00	0.00
Fiber 2 Main to Remote	Pass	0.00	0.00	0.00

1550 nm

Pair	Result	Data	Limit	Margin
Fiber 1 Main to Remote	Pass	-∞	NaN	∞
Fiber 2 Remote to Main	Pass	-∞	NaN	∞
Fiber 1 Remote to Main	Pass	0.00	0.00	0.00
Fiber 2 Main to Remote	Pass	0.00	0.00	0.00

Compliant Network

FDDI SMF-PMD
10GBASE-LX4
10GBASE-LR
40GBASE-FR
100GBASE-ER4
1Gbit/s FC
4Gbit/s FC
16Gbit/s FC
ATM at 52 Mbit/s
ATM at 622 Mbit/s

1000BASE-LX
10GBASE-ER
40GBASE-LR4
100GBASE-LR4
Fibre Channel (FC-PH) at 1062Mbit/s
2Gbit/s FC
8Gbit/s FC
32Gbit/s FC
ATM at 155 Mbit/s



SM 3



Pass

Test Time : 1/31/2019 3:36:14 AM
Project : Default
Profile : Fiber Certification
Operator : Default
Jumper Method : One Jumper
Cable Type : OS1
Connector : LC

Limit : Certification
Model : TestPro CV100
Serial Number : (Main: 5200-0077, Remote:)
Device Software : 2.1.A12
Calibration Date : Sunday, June 11, 2017
Main Adapter : PROBE FIBER SM
Remote Adapter : PROBE FIBER SM

Performance Grade : OS1
Configuration : Dual Ended Bi-Direction
No. End Connectors : 0
No. Connectors : 0
No. Splices : 0

Length(ft) : 41.01
Delay(ns) : 62.5
End Connector Loss : 0
Connector Loss : 0.75
Splice Loss : 0.1

1310 nm

Pair	Result	Data	Limit	Margin
Fiber 1 Main to Remote	Pass	-∞	NaN	∞
Fiber 2 Remote to Main	Pass	-∞	NaN	∞
Fiber 1 Remote to Main	Pass	0.00	0.00	0.00
Fiber 2 Main to Remote	Pass	0.00	0.00	0.00

1550 nm

Pair	Result	Data	Limit	Margin
Fiber 1 Main to Remote	Pass	-∞	NaN	∞
Fiber 2 Remote to Main	Pass	-∞	NaN	∞
Fiber 1 Remote to Main	Pass	0.00	0.00	0.00
Fiber 2 Main to Remote	Pass	0.00	0.00	0.00

Compliant Network

FDDI SMF-PMD
10GBASE-LX4
10GBASE-LR
40GBASE-FR
100GBASE-ER4
1Gbit/s FC
4Gbit/s FC
16Gbit/s FC
ATM at 52 Mbit/s
ATM at 622 Mbit/s

1000BASE-LX
10GBASE-ER
40GBASE-LR4
100GBASE-LR4
Fibre Channel (FC-PH) at 1062Mbit/s
2Gbit/s FC
8Gbit/s FC
32Gbit/s FC
ATM at 155 Mbit/s



Pass

Test Time : 1/22/2019 4:56:45 AM
Project : Default
Profile : Fiber Certification
Operator : Default
Jumper Method : One Jumper
Cable Type : Generic MMF
Connector : Generic MMF

Performance Grade : OM1
Configuration : Dual Ended Single Direction

Limit : Loss Budget
Model : TestPro CV100
Serial Number : (Main: 5200-1003, Remote:)
Device Software : 2.1.A11.5
Calibration Date : Thursday, October 18, 2018
Main Adapter : PROBE FIBER MM
Remote Adapter : PROBE FIBER MM

Length(ft) : 39.37
Delay(ns) : 60

850 nm

Pair	Result	Data	Limit	Margin
Fiber 1 Main to Remote	Pass	0.18	3.00	2.82
Fiber 2 Remote to Main	Pass	0.40	3.00	2.60

1300 nm

Pair	Result	Data	Limit	Margin
Fiber 1 Main to Remote	Pass	0.22	3.00	2.78
Fiber 2 Remote to Main	Pass	0.41	3.00	2.59

Compliant Network

- 10BASE-FLand FB
FDDI PMD
1000BASE-LX
10GBASE-LX4
Fibre Channel (FC-PH) at 1062Mbit/s
4 and 16 Mbit/s Token Ring
ATM at 155 Mbit/s
- 100BASE-FX
1000BASE-SX
10GBASE-SR/SW
10Gbps
2 Gbit/s FC
ATM at 52 Mbit/s
ATM at 622 Mbit/s



A35-A-05

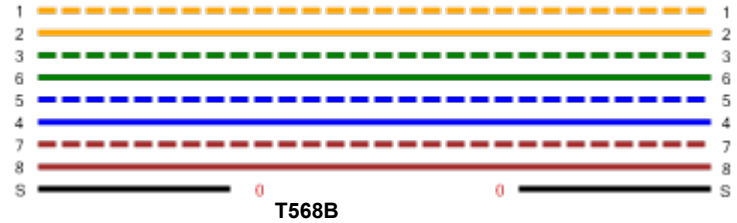


Pass

Test Time : 1/21/2019 3:42:57 AM
 Project : Default
 Profile : Certification
 Operator : Jack
 Cable Type / NVP : 4813 , 70%
 Connector : Generic Cat 6A

Limit : TIA - Cat 6 Channel
 Model : TestPro CV100
 Serial Number : (Main: 5200-0077, Remote: 5200-0078)
 Device Software : 2.1.A11.5
 Calibration Date : Sunday, June 11, 2017
 Main Adapter : PROBE VALIDATOR AQ NBASE-T
 Remote Adapter : PROBE VALIDATOR AQ NBASE-T

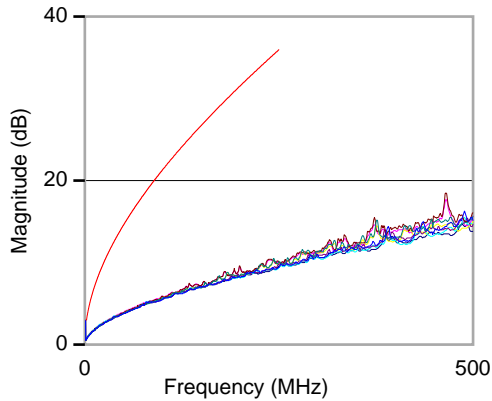
Parameter	Result	Pair	Value	Limit
Length(ft)	Pass	78	96.6	328.1
Prop Delay(ns)	Pass	36	146.0	555.0
Delay Skew(ns)	Pass	36	6.0	50.0
Loop Resistance(Ω)	Pass	36	4.368	25.000
Res. Unbal, pair-pair(Ω)	Info	36-78	0.068	0.298
Res. Unbal, wire-wire(Ω)	Info	78	0.058	0.200



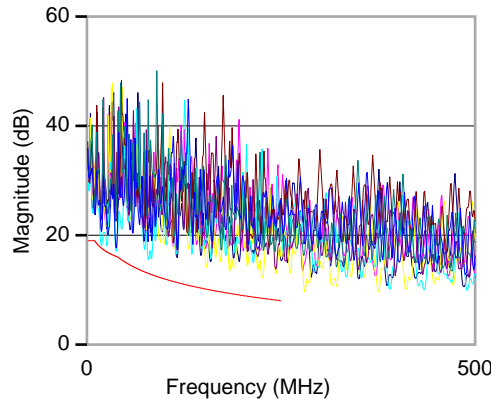
RF Parameters

Parameter	Result	Main							Remote						
		Worst Margin				Worst Value			Worst Margin				Worst Value		
		Pair	Margin (dB)	Limit (dB)	Freq (MHz)	Pair	Value (dB)	Freq (MHz)	Pair	Margin (dB)	Limit (dB)	Freq (MHz)	Pair	Value (dB)	Freq (MHz)
Return Loss	Pass	78	1.0	16.1	37.50	45	9.6	280.00	78	1.6	16.1	37.50	12	12.3	492.00
Insertion Loss	Pass	36	2.2	3.0	2.05	36	17.7	465.00	-	-	-	-	-	-	-
NEXT	Pass	36-45	1.8	34.0	222.00	36-45	35.8	222.00	36-45	4.6	33.8	227.50	36-45	38.4	227.50
PSNEXT	Pass	45	4.0	31.0	225.00	36	23.5	493.00	45	6.9	30.9	227.50	36	24.5	494.00
ACRF	Pass	12-45	11.8	37.6	19.00	12-36	22.6	464.00	45-12	11.8	37.8	18.70	36-12	26.4	464.00
PSACRF	Pass	45	12.7	34.6	19.00	36	22.2	465.00	45	12.8	60.2	1.00	45	24.7	452.00
TCL	Info	36	9.5	26.6	36.50	36	23.3	375.00	45	9.4	18.0	136.00	36	20.5	426.00
ELTCTL	Info	78	25.0	30.0	1.00	36	11.2	372.00	78	27.4	30.0	1.00	36	12.9	305.00

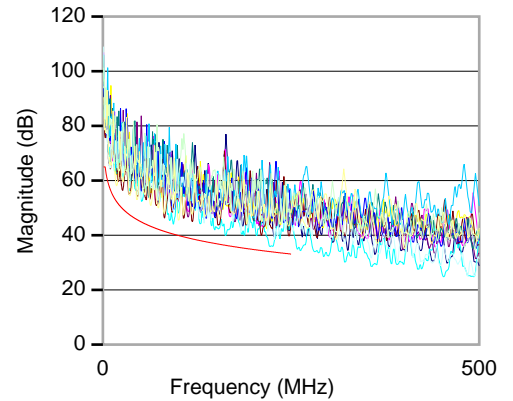
Insertion Loss



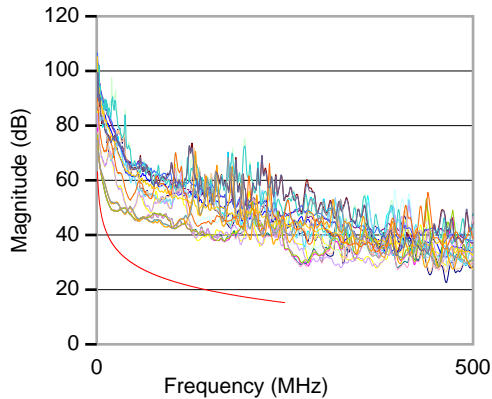
Return Loss



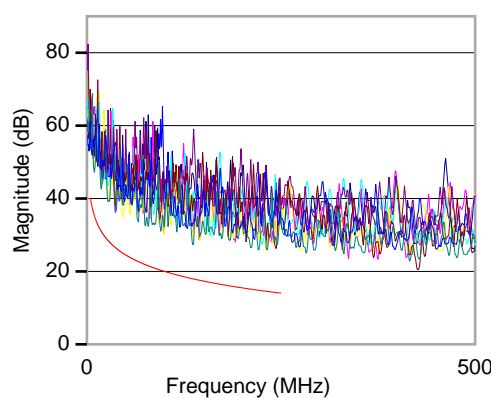
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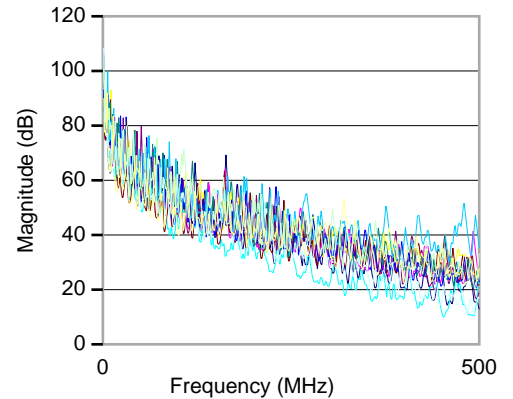
ACRF



TCL



ACRN



10BASE-T, 100BASE-T, 1000BASE-T, 2.5GBASE-T, 5GBASE-T (manufacturer should state AXT compliance)



A35-A-01

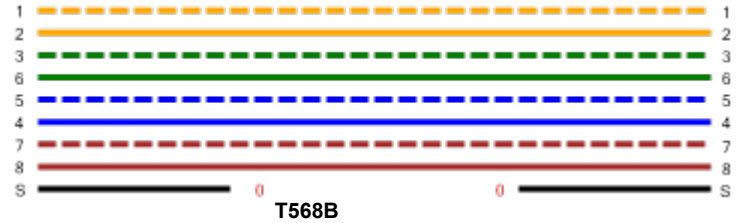


Pass

Test Time : 1/21/2019 2:57:55 AM
Project : Default
Profile : Certification
Operator : Jack
Cable Type / NVP : 4813 , 70%
Connector : Generic Cat 6A

Limit : TIA - Cat 6 Channel
Model : TestPro CV100
Serial Number : (Main: 5200-0077, Remote: 5200-0078)
Device Software : 2.1.A11.5
Calibration Date : Sunday, June 11, 2017
Main Adapter : PROBE VALIDATOR AQ NBASE-T
Remote Adapter : PROBE VALIDATOR AQ NBASE-T

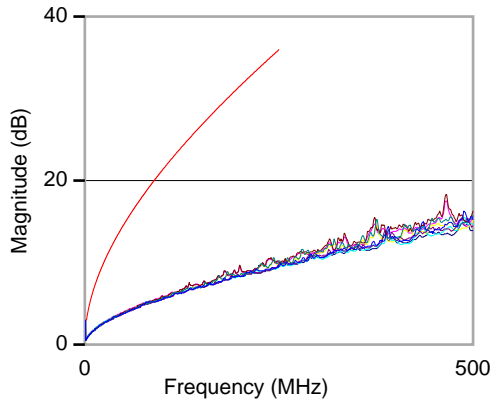
Parameter	Result	Pair	Value	Limit
Length(ft)	Pass	78	96.6	328.1
Prop Delay(ns)	Pass	36	144.0	555.0
Delay Skew(ns)	Pass	36	4.0	50.0
Loop Resistance(Ω)	Pass	36	4.702	25.000
Res. Unbal, pair-pair(Ω)	Info	36-78	0.066	0.321
Res. Unbal, wire-wire(Ω)	Info	78	0.063	0.200



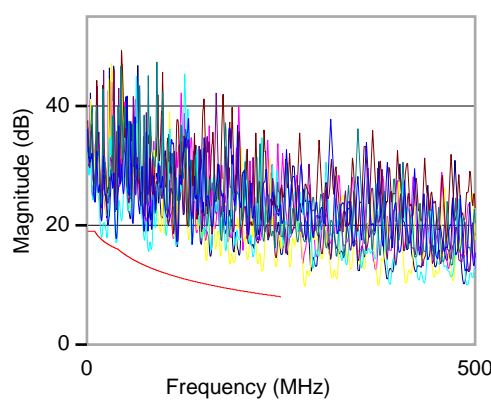
RF Parameters

Parameter	Result	Main							Remote						
		Worst Margin				Worst Value			Worst Margin				Worst Value		
		Pair	Margin (dB)	Limit (dB)	Freq (MHz)	Pair	Value (dB)	Freq (MHz)	Pair	Margin (dB)	Limit (dB)	Freq (MHz)	Pair	Value (dB)	Freq (MHz)
Return Loss	Pass	78	1.0	16.1	37.75	45	9.8	280.00	78	1.7	16.1	37.50	12	12.3	492.00
Insertion Loss	Pass	36	2.2	3.0	2.05	36	17.5	465.00	-	-	-	-	-	-	-
NEXT	Pass	36-45	1.7	34.0	221.50	36-45	35.7	221.50	36-45	4.8	33.8	227.50	36-45	38.6	227.50
PSNEXT	Pass	45	3.8	31.0	225.00	36	23.7	494.00	45	7.1	30.9	227.50	45	24.6	494.00
ACRF	Pass	12-45	12.3	37.6	19.00	12-36	23.2	464.00	45-12	12.3	37.5	19.30	36-12	26.9	464.00
PSACRF	Pass	45	13.1	34.6	19.00	36	22.6	464.00	45	13.4	35.0	18.25	45	25.2	452.00
TCL	Info	36	9.6	26.6	36.50	36	23.0	375.00	45	9.3	18.0	136.00	36	20.5	426.00
ELTCTL	Info	78	25.2	30.0	1.00	36	10.1	374.00	78	26.7	30.0	1.00	36	13.4	330.00

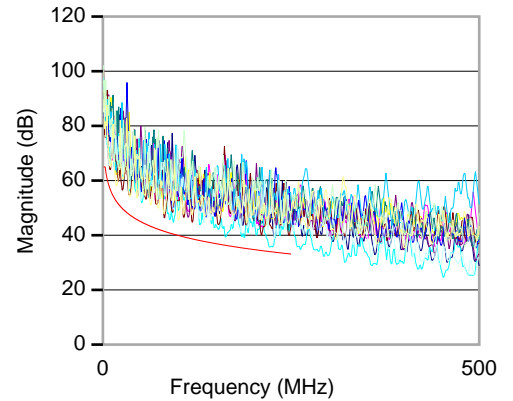
Insertion Loss



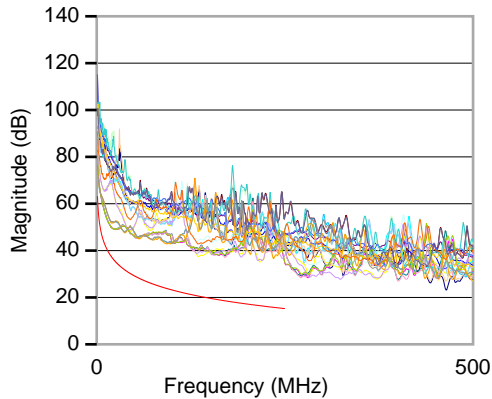
Return Loss



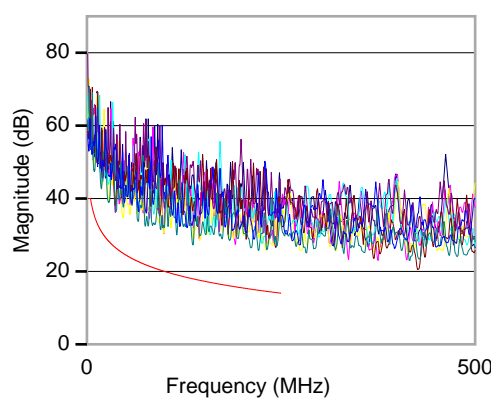
NEXT



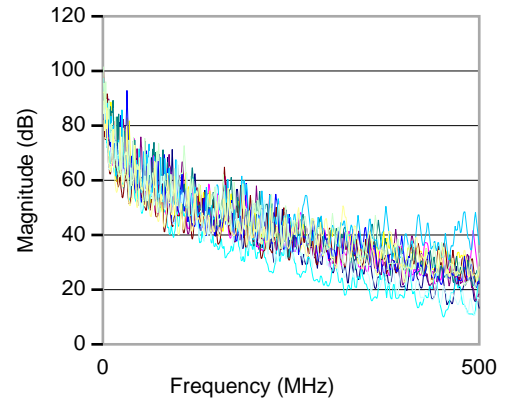
ACRF



TCL



ACRN



10BASE-T, 100BASE-T, 1000BASE-T, 2.5GBASE-T, 5GBASE-T (manufacturer should state AXT compliance)