

Feature

The whole new screened Quick-Cat™ modular keystone jack features a die-cast housing. Innovative mechanism optimizes the PSANEXT & PSAACR-F. Patented PCB route & unique contact alignment provides excellent works in easing the internal magnetic coupling up to bandwidth 500MHz. Press-Fit tech. is applied, no solder, no Pb, purely RoHS compliant.



Application

Cat 6A Component Performance

Die-Cast Housing, effective protection from EMI and Alien crosstalk

Press-Fit Module, Without Solder, RoHS Compliant

Pair to Pair Separation

Accepts 110 punch down tool.

Physical Specification

Die-Cast housing: Zinc Alloys

Bracket: Stainless steel

Spring wire: Phosphor Bronze temper wire, $\phi=0.45\text{mm}$, 50u" Gold over 100u" Nickel undercoat

IDC housing: Polycarbonate resin high-impact UL94V-0 thermoplastic

IDC contact: Phosphor Bronze, $t=0.4\text{mm}$, 200u" Tin over 50u" Nickel undercoat

Mating: 750 mating cycles with FCC compliant RJ-45 plug

Wire accommodation: accommodates 22~24 solid cable for 200 times termination

Operating temperature: $-10\sim 60^{\circ}\text{C}$

Operating humidity: 10%~90%RH

Storage Temperature : -40°C to 68°C

Electrical Specification

Insulation resistance: 500M Ω

Current rating: 1.5Amps

Contact resistance: 20m Ω

Dielectric withstanding voltage: 1000V AC

DC resistance: 0.1 Ω

Standard Verification

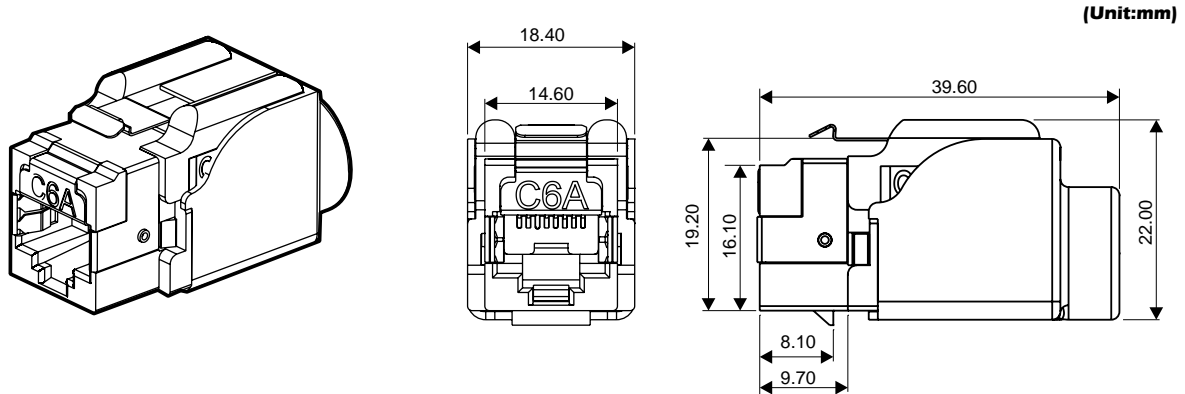
TIA/EIA-568-B.2-10

FCC part 68, Subpart F

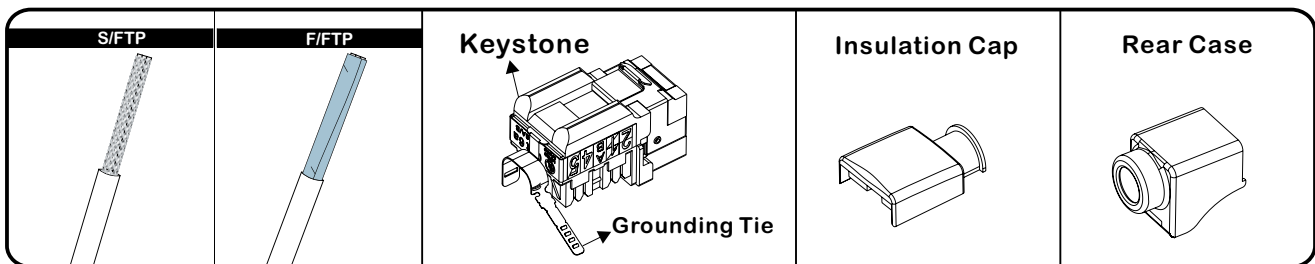
Amendment 1 to ISO/IEC 11801, 2nd Ed.

UL 1863

Mechanical Drawing



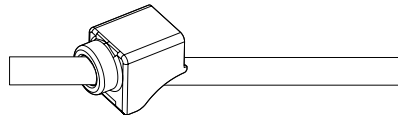
Installation Manual



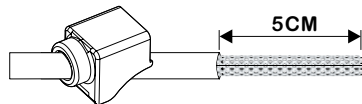
1

S/FTP

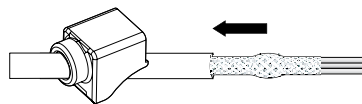
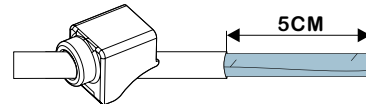
F/FTP



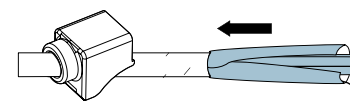
Push the rear case on the cable end to be terminated



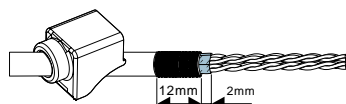
Remove approx. 5cm of the cable sheath.



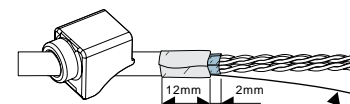
Roll the exposed braid back along the cable sheath.



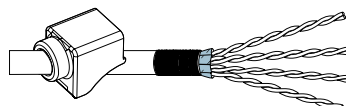
Roll the exposed foil over along the cable sheath.



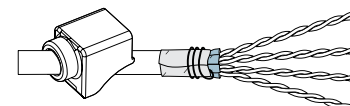
Where a foil screen of each pair is present remove approx. 2mm of the exposed length.



Drain Wire



Separate the conductors.

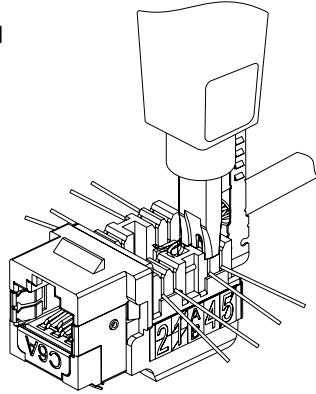


Wrap the drain wire at least twice around the foil. Separate the conductors.

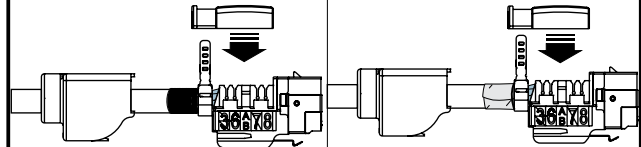
2

Use a 110 impact tool to punch down each colour coded wire into the matching colour coded IDC position.

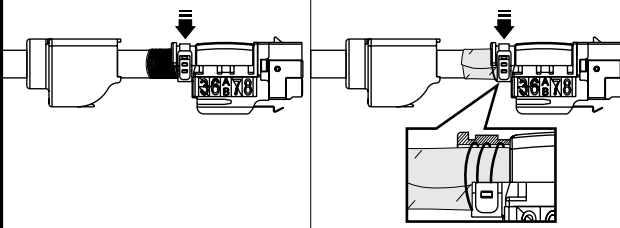
note: set the tool to "low impact".

**3**

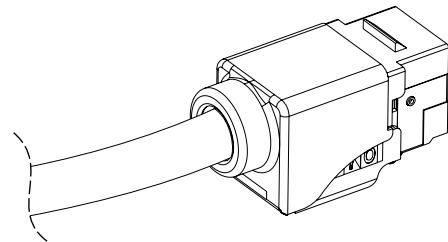
Place the insulation cap over the terminated conductors.

S/FTP**F/FTP****4**

Tighten the grounding tie around the braid(S/FTP) or foil w/drain wire(F/FTP).

S/FTP**F/FTP****5**

Push the rear case forward until it clicks into position over the terminated keystone.



Transmission Performance Test Report



Test Report No.: 3154740CRT-004b

Date: December 30, 2008

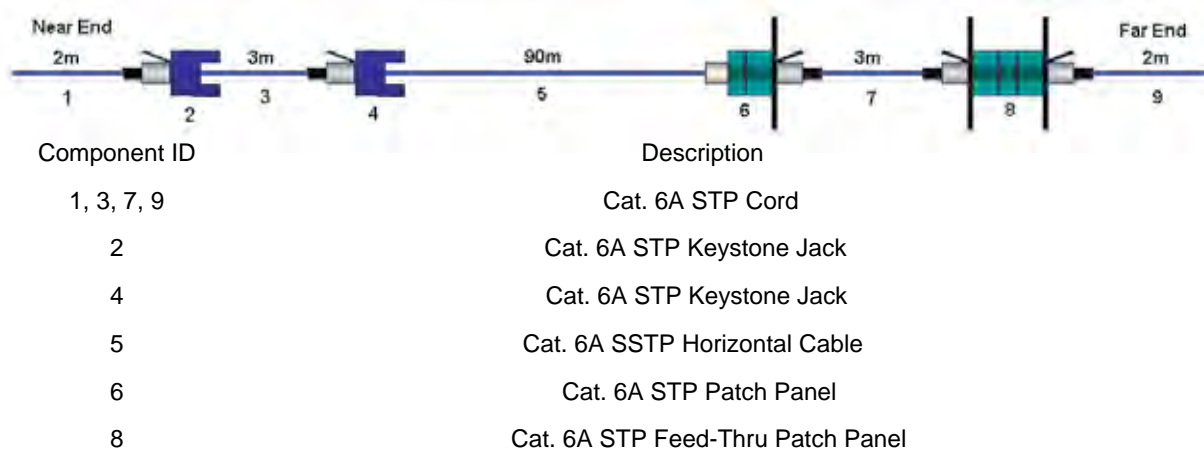
EQUIPMENT LIST:

The following equipment was employed in conducting the tests.

<u>Equipment Used</u>	<u>Model Number</u>	<u>Serial Number</u>	<u>Calibration Date</u>
Hewlett Packard Automatic Cable Test System	HP46152A	3903U01003	03/06/2008

SAMPLE DESCRIPTION:

(4 Connectors channel, bundled in a 6 around 1 configuration)



The samples were received on December 3, 2008 and were in good condition. All samples were selected by an Intertek representative.

CONCLUSION:

The channel configuration, as previously described and selected by an Intertek field representative, was tested in accordance with the standard listed herein, and did comply with the indicated applicable transmission requirements. The testing was performed at Intertek located in Cortland, New York.

These procedures and requirements were taken from the standards referred to on page 1.

Reviewed and Approved By:

Antoine Pelletier
Engineer
Global Cabling Products Testing

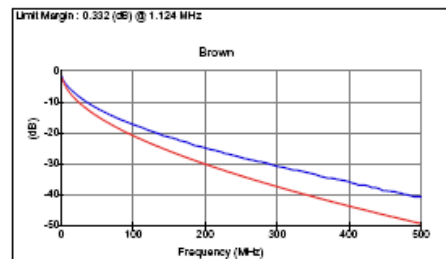
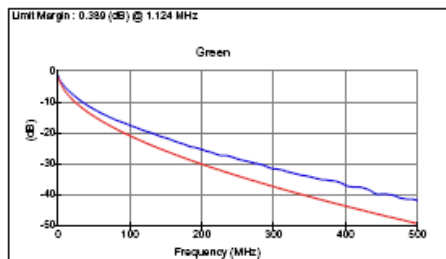
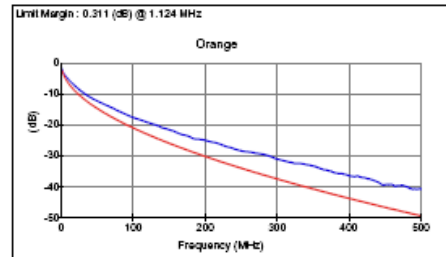
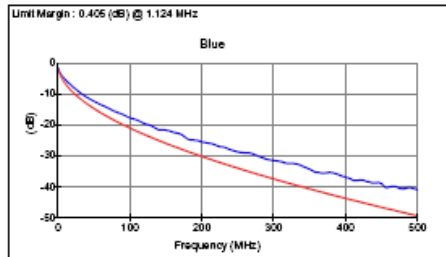
John Cash
Technician
Global Cabling Products Testing

Kathy Heath
Project Coordinator
Global Cabling Products Testing

Internal Test Results

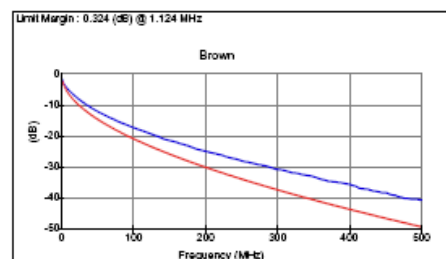
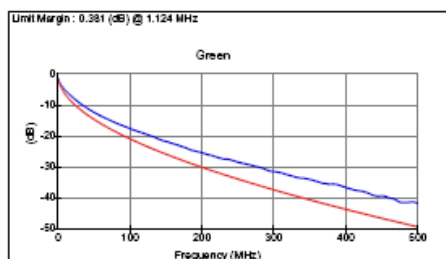
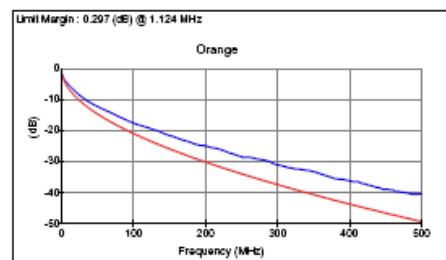
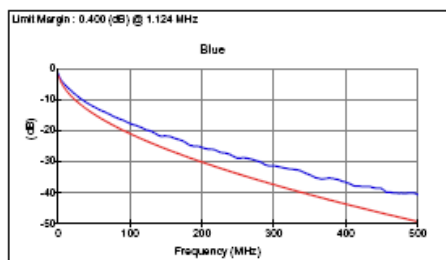
Attenuation (Near End)

Client	LANShack.com	Project No	3154740CRT-004B
Specification	TIA 568B2-10 - Augmented Cat 6 (Channel)		
Part No	SSTP-4231-C6A	Length(m)	100.
Test Started	12/16/2008 12:24:57 PM	Temperature	20 °C
Description	4 connectors channel with feed-through	Appendix	A
Operator Name	John Cash	Test Status	Complies



Attenuation (Far End)

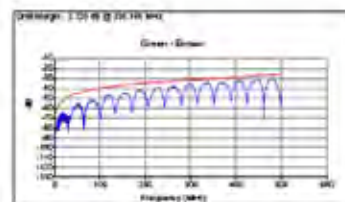
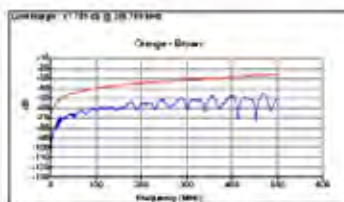
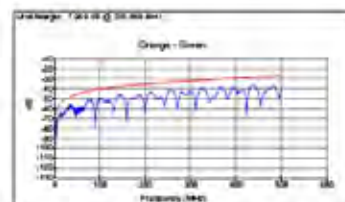
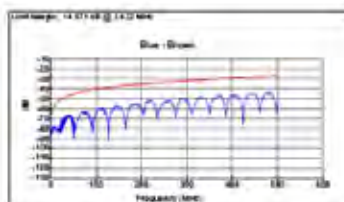
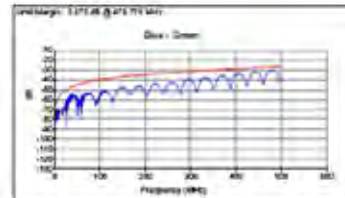
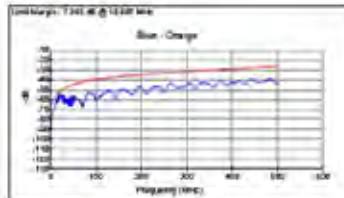
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Specification	TIA 568B2-10 - Augmented Cat 6 (Channel)		
Part No	SSTP-4231-C6A	Length(m)	100.
Test Started	12/16/2008 12:24:57 PM	Temperature	20 °C
Description	4 connectors channel with feed-through	Appendix	A
Operator Name	John Cash	Test Status	Complies



Internal Test Results

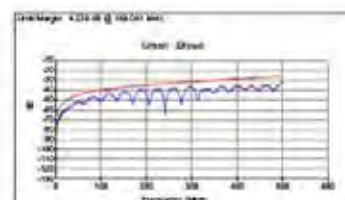
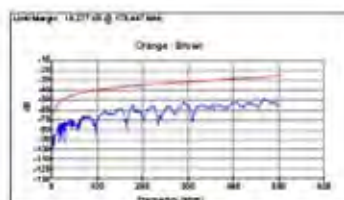
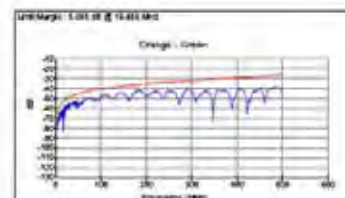
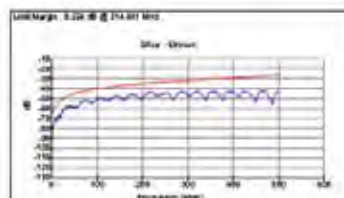
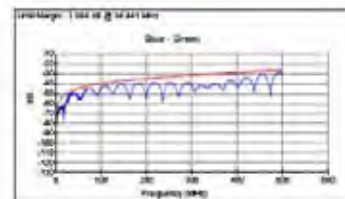
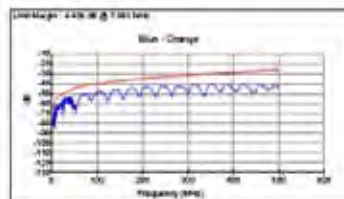
Near End Cross Talk (Near End)

Client	LANShack.com	Project No	3154740CRT-0040
Specification	TIA 5682-10 - Augmented Cat 6 (Channel)	Length(m)	100
Part No	5STP4231-C6A	Temperature	20 °C
Test Started	12/16/2008 12:24:57 PM	Appendix	A
Description	4 connector channel with feed-through	Test Status	Pass
Operator Name	John Cash		



Near End Cross Talk (Far End)

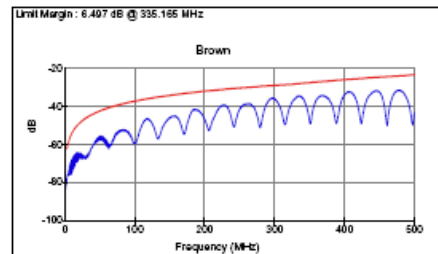
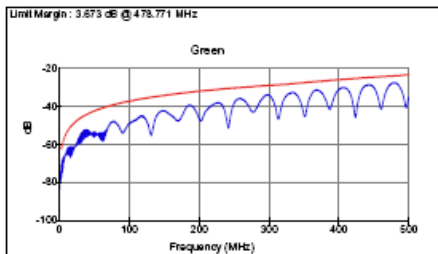
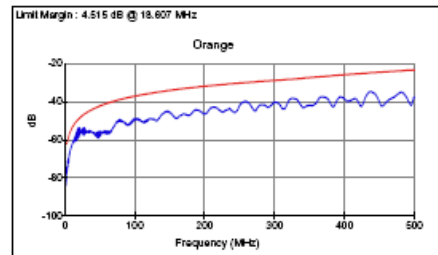
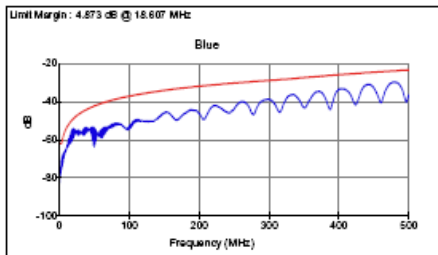
Client	LANShack.com	Project No	3154740CRT-0040
Specification	TIA 5682-10 - Augmented Cat 6 (Channel)	Length(m)	100
Part No	5STP4231-C6A	Temperature	20 °C
Test Started	12/16/2008 12:24:57 PM	Appendix	A
Description	4 connector channel with feed-through	Test Status	Pass
Operator Name	John Cash		



Internal Test Results

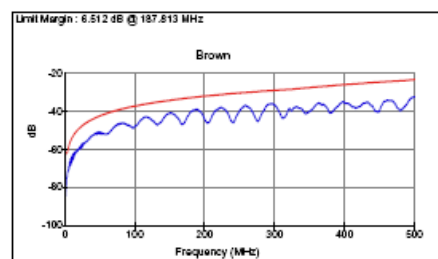
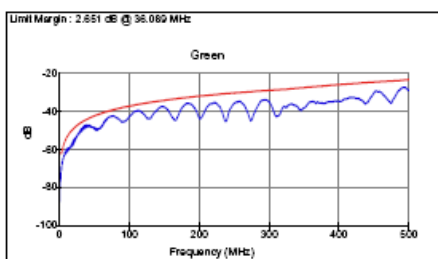
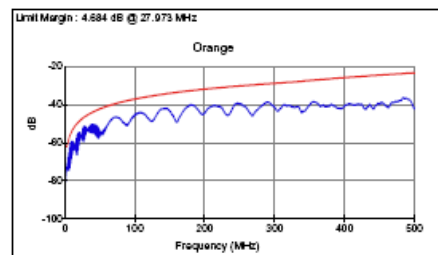
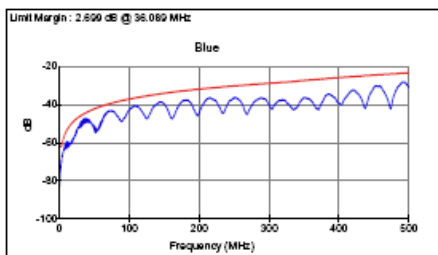
Power Sum NEXT (Near End)

Client	LANShack.com	Project No	3154740CRT-004B
Specification	TIA 568B2-10 - Augmented Cat 6 (Channel)		
Part No	SSTP-4231-C6A	Length(m)	100.
Test Started	12/16/2008 12:24:57 PM	Temperature	20 °C
Description	4 connectors channel with feed-through	Appendix	A
Operator Name	John Cash	Test Status	Complies



Power Sum NEXT (Far End)

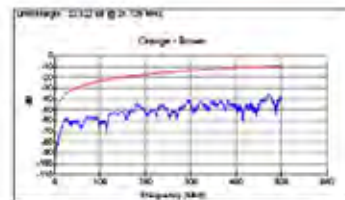
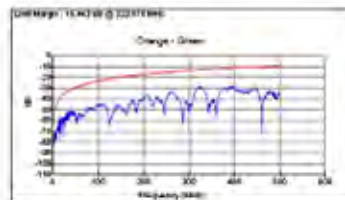
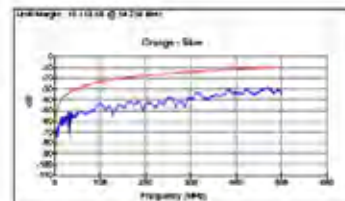
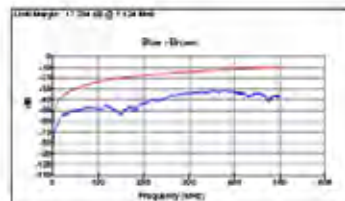
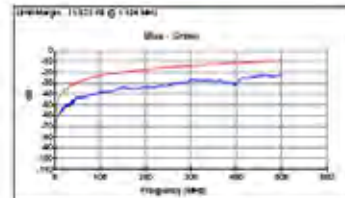
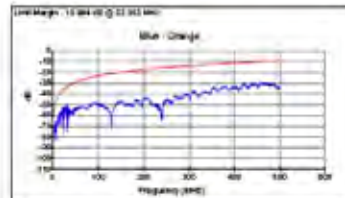
Client	LANShack.com	Project No	3154740CRT-004B
Specification	TIA 568B2-10 - Augmented Cat 6 (Channel)		
Part No	SSTP-4231-C6A	Length(m)	100.
Test Started	12/16/2008 12:24:57 PM	Temperature	20 °C
Description	4 connectors channel with feed-through	Appendix	A
Operator Name	John Cash	Test Status	Complies



Internal Test Results

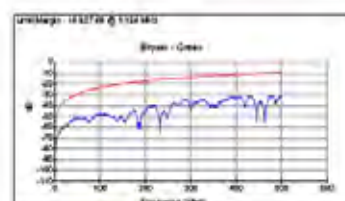
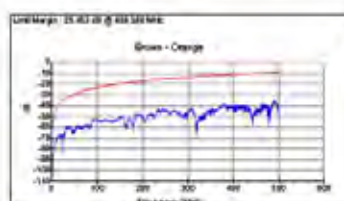
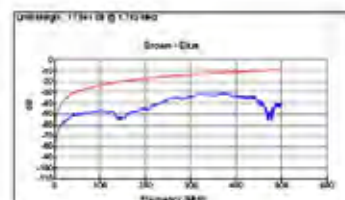
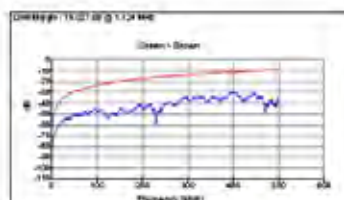
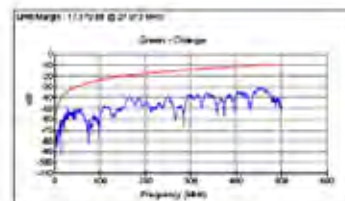
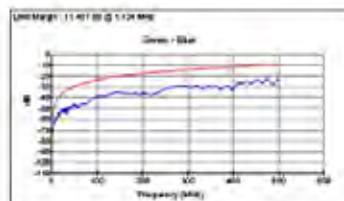
ELFEXT/ACRF (Near End)

Client	LANShack.com	Project No	315474OCRT-0040
Specification	TIA 568B2-10 - Augmented Cat 6 (Channel)	Length(m)	100
Part No	56TP423 1-C6A	Temperature	20 °C
Test Started	12/16/2008 12:24:57 PM	Appendix	A
Description	4 connectors channel with feed-through	Test Status	Pass
Operator Name	John Cash		



ELFEXT/ACRF (Near End)

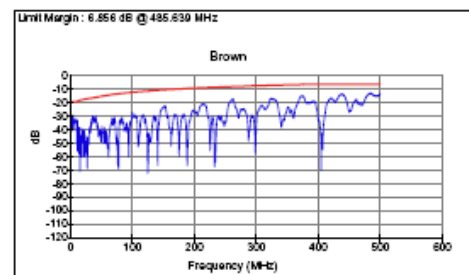
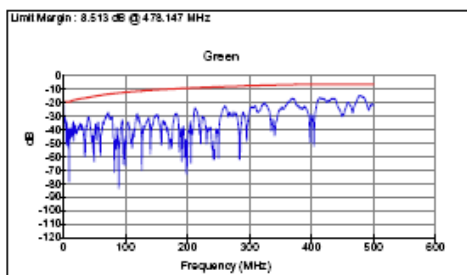
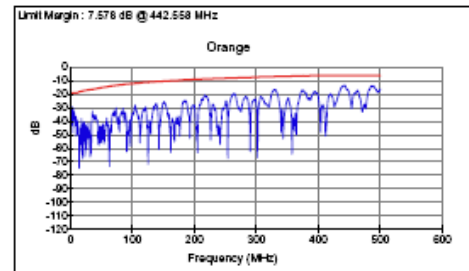
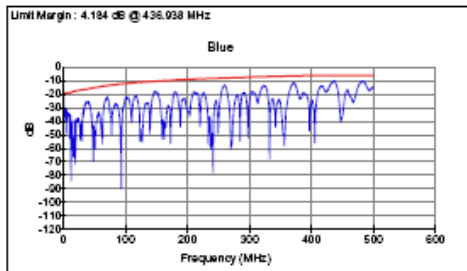
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Specification	TIA 568B2-10 - Augmented Cat 6 (Channel)	Length(m)	100
Part No	56TP423 1-C6A	Temperature	20 °C
Test Started	12/16/2008 12:24:57 PM	Appendix	A
Description	4 connectors channel with feed-through	Test Status	Pass
Operator Name	John Cash		



Internal Test Results

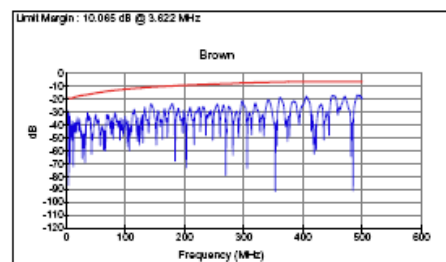
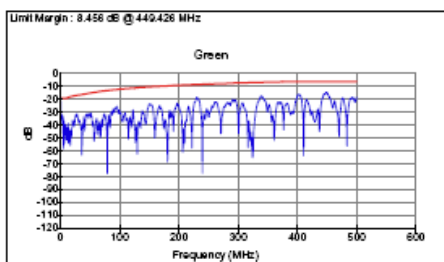
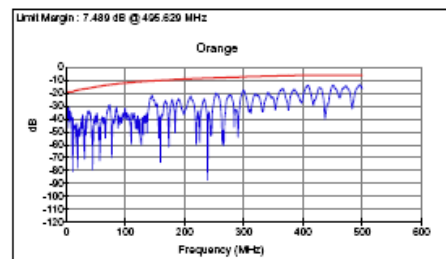
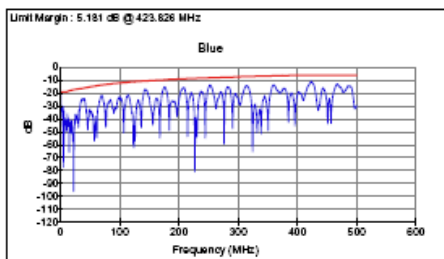
Return Loss (Near End)

Client	LANShack.com	Project No	3154740CRT-004B
Specification	TIA 568B2-10 - Augmented Cat 6 (Channel)		
Part No	SSTP-4231-C6A	Length(m)	100.
Test Started	12/16/2008 12:24:57 PM	Temperature	20 °C
Description	4 connectors channel with feed-through	Appendix	A
Operator Name	John Cash	Test Status	Complies



Return Loss (Far End)

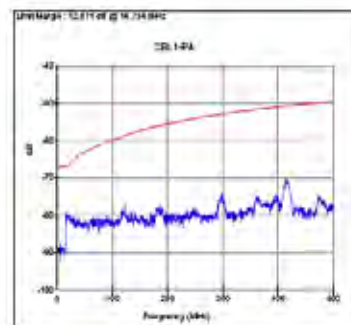
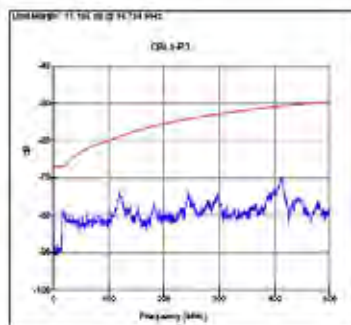
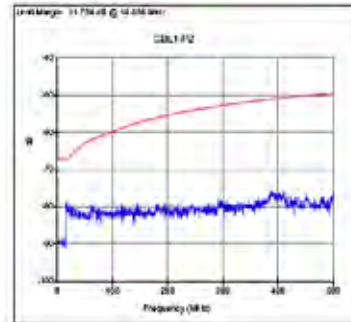
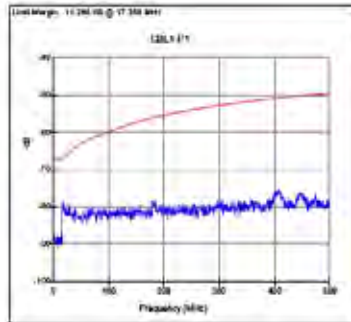
Client	LANShack.com	Project No	3154740CRT-004B
Specification	TIA 568B2-10 - Augmented Cat 6 (Channel)		
Part No	SSTP-4231-C6A	Length(m)	100.
Test Started	12/16/2008 12:24:57 PM	Temperature	20 °C
Description	4 connectors channel with feed-through	Appendix	A
Operator Name	John Cash	Test Status	Complies



External(Alien) Test Results

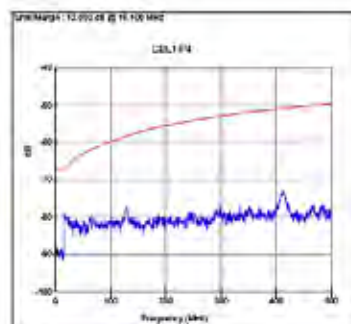
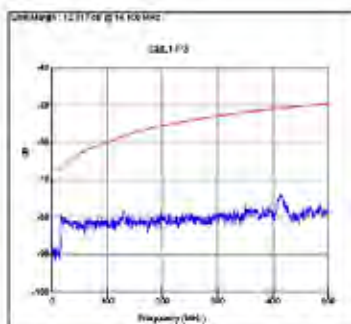
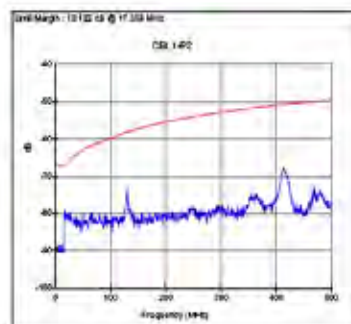
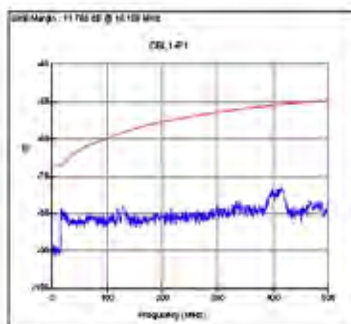
ANEXT (PowerSum) Near

Client	LANShack.com	Project No	3161740CRT-004B
Specification	TIA 568B2-10 - Augmented Cat 6 (Channel)		
Part No	SSTP-4231-C6A	Length(m)	100
Test Started	12/16/2008 3:48:00 PM	Temperature	20 °C
Description	4 connectors channel with feed-through	Appendix	B
Operator Name	Development	Test Status	Pass

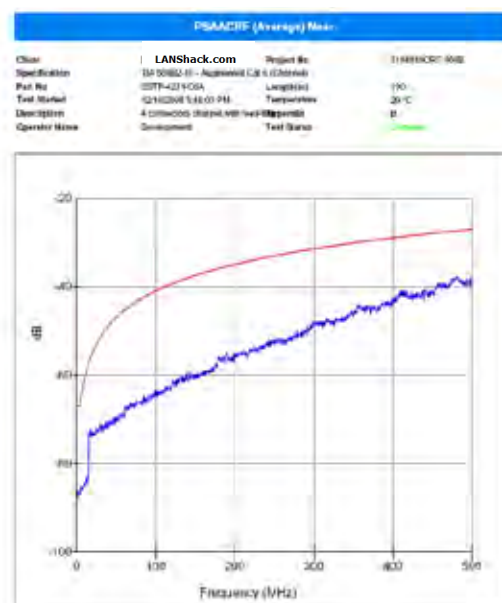
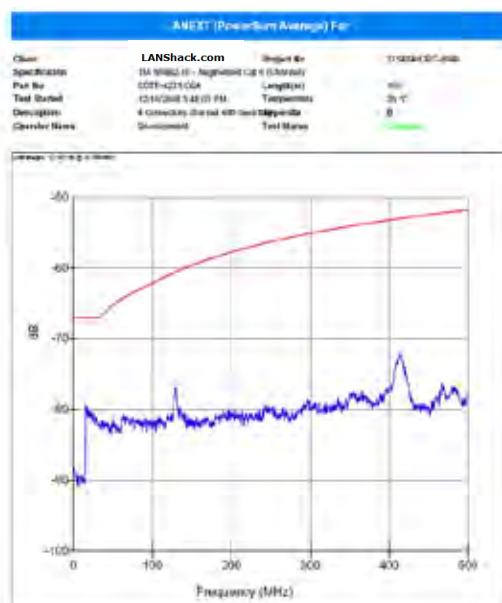
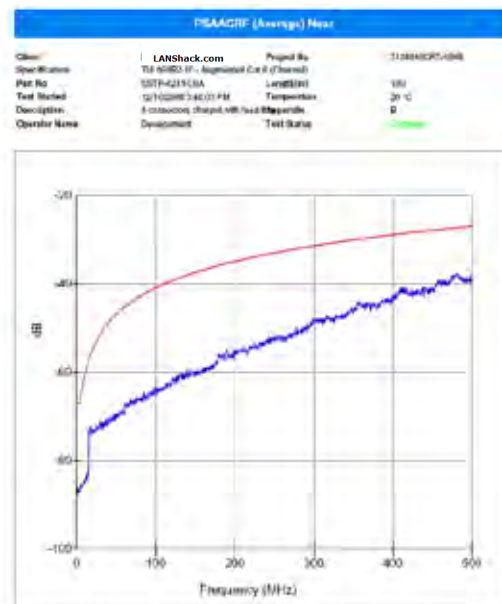
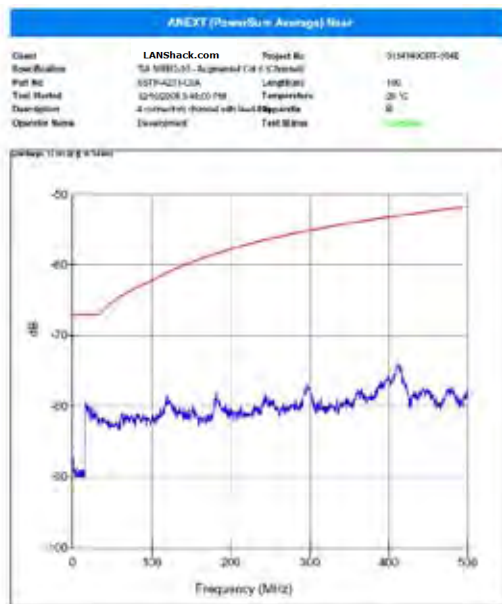


ANEXT (PowerSum) Far

Client	LANShack.com	Project No	3161740CRT-004B
Specification	TIA 568B2-10 - Augmented Cat 6 (Channel)		
Part No	SSTP-4231-C6A	Length(m)	100
Test Started	12/16/2008 3:48:00 PM	Temperature	20 °C
Description	4 connectors channel with feed-through	Appendix	B
Operator Name	Development	Test Status	Pass



External(Alien) Test Results



Typical Leading 10G Channel Performance

Frequency (MHz)	NEXT (dB)	IL (dB)	PSNEXT (dB)	ELFEXT (dB)	PSELFEXT (dB)	PSANEXT (dB)	PSAELFEXT (dB)	RL (dB)
1	81.9	2.2	78.5	83.9	78.4	No significant ANEXT	No significant AFEXT	25.8
4	84.9	4.0	82.7	70.6	68.4			34.6
8	78.0	5.4	75.3	65.2	64.0			30.5
10	81.1	5.9	79.1	63.9	61.9			28.9
16	77.5	7.4	79.6	60.3	58.9			30.0
20	73.8	8.3	76.4	58.7	57.6			34.3
25	77.0	9.1	73.7	56.8	56.5			36.9
31.25	66.6	10.4	67.5	56.2	55.2			31.0
62.5	61.7	14.9	60.7	65.6	51.5			29.7
100	47.6	18.9	53.3	50.1	47.0			28.7
200	43.4	26.7	42.8	37.8	37.5			26.8
250	41.4	30.3	42.4	33.7	36.1			22.7
300	38.7	33.1	37.5	34.0	31.0			24.1
400	33.9	38.7	32.2	34.5	28.9			21.1
500	30.3	44.7	29.0	22.7	19.8			24.4

Performance compliant with TIA-568B.2-10

