

December 23, 2015

**Test Report Number: 102046639CRT-007**  
Project Number: 102046639



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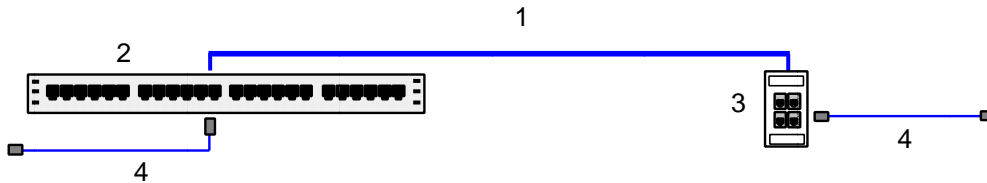
**Superior Essex**  
6120 Powers Ferry Road  
Suite 150  
Atlanta, GA 30339

**TEST:**

Electrical transmission performance testing of a cabling configuration to the requirements of ANSI/TIA-568-C.2 for Category 6 and the ISO/IEC 11801 Edition 2.2 for Class E Channels.

**SAMPLE DESCRIPTION:**

The client supplied and tested a 2-Connector channel as illustrated below and referenced to as "nCompass CAT 6 U/UTP Channel, 2-Connector, 96 meters (314.8 ft)".



<u>Component ID</u>	<u>Manufacturer</u>	<u>Part Number</u>	<u>Length/Qty</u>	<u>Description</u>
1	Superior Essex	77-272-xB	90 m (295 ft)	Series 77 Cable, C6 U/UTP CMP
2	Ortronics, Inc.	OR-SP6U24	1	TechChoice C6 24 Port Patch Panel
3	Ortronics, Inc.	OR-KS6A	1	TechChoice C6 Keystone Jack
4	Ortronics, Inc.	OR-RDC609-06	3m (9.8 ft) 2	28 AWG C6 U/UTP RD Patch Cords

RD: Reduced Diameter

**STANDARD USED:**

ANSI/TIA-568-C-2009: Balanced Twisted-Pair Telecommunications Cabling and Components Standard, dated August 2009

ISO/IEC 11801 Information Technology - Generic cabling for customer premises, Second edition dated September 2002 including amendments up to Amendment 2, dated April 2010

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**SECTIONS:**

Section 6.2 of ANSI/TIA-568-C: Channel transmission performance (6.2.1 to 6.2.16)

Section 6.4 of ISO/IEC 11801: Channel transmission performance (sections 6.4)

**AUTHORIZATION:**

The project was authorized by Mr. Rob Aekins RCDD, representing Legrand Data Communications Incorporated.

**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>	<u>Calibration due date</u>
Agilent Technologies Network Analyzer	E5071B	MY42403324	07/09/2014	07/09/2015
Hewlett Packard Multimeter	34401A	US36035667	07/09/2014	07/09/2015

**DATE OF TEST:**

May 8, 2015

**TEST REPORT REVISION HISTORY:**

First Issue:	September 28, 2015	Original Document
Second Issue:	December 23, 2015	Corrected test and calibration dates and TCL/ELTCTL tabular value at 1 MHz

**RESULTS:** See appendixes A and B for the test results.

**CONCLUSION:**

The channel cabling configuration, as previously described and supplied by the client, was tested in accordance with the standard referred to herein, and did comply with the indicated applicable transmission requirements.

The procedures and requirements from the standard were followed, and the testing was performed at the client's facility as part of their qualifications under Intertek's SAT program.

Reviewed and Approved By:

Antoine Pelletier  
Project Engineer  
Global Cabling Products Testing

John Cash  
Associate Engineer  
Global Cabling Products Testing



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## **Appendix A**

Test results

Internal (core) transmission characteristics of the “disturbed” channel

This appendix contains 7 pages.



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**Appendix B**

Test results

ACR transmission performance provided for reference ONLY

This appendix contains 2 pages.