

CommScope, Inc. of North Carolina **LETTER REPORT**

SCOPE OF WORK

Performance testing of a 100 Ω , 4-pair telecommunication cable electrical transmission performance to the requirements of ISO/IEC 11801-1 for Category 6_A horizontal cable.

REPORT NUMBER

103096174CRT-001x

ISSUE DATE

05-July-2019

REVISED DATE

None

TESTS START DATE

26-June-2017

TESTS END DATE

29-June-2017

PAGES

4

DOCUMENT CONTROL NUMBER

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LETTER REPORT

05-July-2019

Intertek Report No. 103096174CRT-001x

Intertek Project No. G103096174

Mr. Thomas M. Faison
CommScope, Inc. of North Carolina
3642 US Hwy 70 East
Claremont NC 28610
USA

Subject: Performance testing of Category 6_A cable per IEC 61156-5 as referenced in ISO/IEC 11801-1

Dear Mr. Faison:

This letter report represents the results of our evaluation of the above referenced product to the requirements contained in the following document(s):

ISO/IEC 11801-1 Edition 1.0, Information technology – Generic cabling for customer premises - Part 1: General requirements, dated November 2017

IEC 61156-5 Edition 2.1, Multicore and symmetrical pair/quad cables for digital communications - Part 5: Symmetrical pair/quad cables with transmission characteristics up to 1000MHz - Horizontal floor wiring - Sectional specification, dated December 2012

SECTION 1 SUMMARY

Intertek wishes to inform you that the electrical transmission tests have been performed on your cable. This testing was performed under project G103096174 and quotation Qu-00793268 issued 02-June-2017. Compliant results were obtained for the relevant tests contained in IEC 61156-5 sections 6.2 and 6.3 for horizontal cable transmission performance.

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SECTION 2
NON-CONFORMANCES

None

SECTION 3
TESTING

The tables below represent a summary of the tests and results. The detailed test data is enclosed to this letter report.

Test description	IEC 61156-5 section	Result
Conductor resistance	6.2.1	Compliant
DC resistance unbalance	6.2.2	Compliant
Dielectric strength	6.2.3	Not tested
Insulation resistance	6.2.4	Not tested
Mutual Capacitance	6.2.5	Compliant
Capacitance Unbalance	6.2.6	Compliant
Transfer Impedance	6.2.7	Not applicable
Coupling attenuation	6.2.8	Not applicable
Current-carrying capacity	6.2.9	Not specified
Velocity of propagation (phase velocity)	6.3.1	Compliant
Phase delay and differential delay (delay skew)	6.3.2	Compliant
Attenuation	6.3.3	Compliant
Unbalance attenuation (TCL)	6.3.4	Compliant
Near-end crosstalk (NEXT)	6.3.5	Compliant
Far-end crosstalk (ACR-F)	6.3.6	Compliant
Alien (exogenous) near-end crosstalk (ANEXT)	6.3.7	Compliant
Alien (exogenous) far-end crosstalk (AACR-F)	6.3.8	Compliant
Alien (exogenous) crosstalk of bundled cables	6.3.9	Not applicable
Impedance	6.3.10	Compliant
Return loss (RL)	6.3.11	Compliant

Test equipment used	Model number	Control number	Calibration due date
Keysight Network Analyzer	8753E	E307	09-March-2018
Keysight LCR Meter	4263B	R171	19-December-2017
Temperature humidity meter	OM-EL-USB-2-LCD	H243	21-February-2018
Environmental Chamber	Bally	3069	02-May-2018

SECTION 4

SAMPLE DESCRIPTION

The client submitted a Category 6_A, 4-Pair, 23 AWG, U/UTP, CMR, horizontal (solid) cable identified as part number CS44 CMR UTP.

The sample was received on 21-June-2017 and was a production sample in undamaged condition.

SECTION 5

PROJECT STATUS & ACTION

Issuance of this letter report completes the performance testing of this cable electrical transmission performance per ISO/IEC 11801-1 covered by Intertek Project No. G103096174 and quotation Qu-00793268. The test results are compliant with the requirements of the standard and sections referred to on pages 2 and 3. The testing was performed at Intertek located in Cortland, NY.

If there are any questions regarding the results contained in this report, or any of the other services offered by Intertek, please do not hesitate to contact your dedicated Intertek Project Manager.

Completed by:	David Ayers	Reviewed by:	Antoine Pelletier
Title:	Technician	Title:	Project Engineer
Signature:		Signature:	
Date:	05-July-2019	Date:	05-July-2019

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