

CommScope, Inc. of North Carolina

LETTER REPORT

SCOPE OF WORK

Performance testing of RJ-45 modular jack electrical transmission performance to the requirements of ISO/IEC 11801-1 for Category 6_A connecting hardware.

REPORT NUMBER

103863485CRT-001b

ISSUE DATE

11-March-2019

REVISED DATE

None

TESTS START DATE

07-March-2019

TESTS END DATE

08-March-2019

PAGES

4

DOCUMENT CONTROL NUMBER

GFT-OP-10a (6-March-2017)

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11-March-2019

Intertek Report No. 103863485CRT-001b

Intertek Project No. G103863485

Mr. Darrell Craig
CommScope, Inc. of North Carolina
8420 Triad Drive
Greensboro, NC 27409
USA

Subject: Performance testing of Category 6_A connecting hardware per IEC 60603-7-41 as referenced in ISO/IEC 11801-1

Dear Mr. Craig:

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

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

IEC 60603-7-41 Edition 1.0, Connectors for electronic equipment – Part 7-41: Detail specification for 8-way, unshielded, free and fixed connectors, for data transmission with frequencies up to 500 MHz, dated April 2010

SECTION 1 SUMMARY

Intertek wishes to inform you that the electrical transmission tests have been performed on the connecting hardware referenced above. This testing was performed under project G103863485 and quotation Qu-00960376-1 issued 28-February-2019. Compliant results were obtained for the relevant tests contained in IEC 60603-7-41 sections 6.4 and 6.5 for connecting hardware 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 60603-7-41 section	Result
Input to output resistance	6.4.5	Compliant
Input to output resistance unbalance	6.4.6	Compliant
Insertion loss for connector	6.5.2	Compliant
Return loss for connector	6.5.3	Compliant
Near end crosstalk (NEXT) for connector	6.5.6	Compliant
Far end crosstalk (FEXT) for connector	6.5.8	Compliant
Transverse conversion loss (TCL)	6.5.10	Compliant
Transverse conversion transfer loss (TCTL)	6.5.11	Compliant
Power sum alien near-end crosstalk (PS ANEXT)	6.5.12	Compliant
Power sum alien far-end crosstalk (PS AFEXT)	6.5.13	Compliant

Test equipment used	Model number	Control number	Calibration due date
Keysight Network Analyzer	E8357A	E382	13-October-2019
Temperature/humidity meter	OM-EL-USB-2-LCD	H243	19-March-2019
Keysight Network Analyzer	E5071C	R172	10-May-2019
Keysight LCR Meter	4263B	R171	12-February-2020

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SECTION 4

SAMPLE DESCRIPTION

The client submitted test specimens of Category 6_A, RJ-45, modular jack identified as part number USL10G and UNJ10G and UKJ10G. The component level alien crosstalk was tested with a 12-port 2-gang faceplate part number 1-2111015-3.

The samples were received on 04-March-2019 and were production samples in undamaged condition.

SECTION 5

PROJECT STATUS & ACTION

Issuance of this letter report completes the performance testing of this connecting hardware electrical transmission performance per ISO/IEC 11801-1 covered by Intertek Project No. G103863485 and quotation Qu-00960376-1. 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:	11-March-2019	Date:	11-March-2019

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