CommScope, Inc. of North Carolina

LETTER REPORT

SCOPE OF WORK
ETL Verification final qualification testing of a 100Ω, 4-pair telecommunication cable electrical transmission performance to the requirements of ISO/IEC 11801-1 for Category 6_A horizontal cable.

REPORT NUMBER
104196819CRT-001f

ISSUE DATE
05-February-2020

REVISED DATE
None

TESTS START DATE
22-January-2020

TESTS END DATE
05-February-2020

PAGES
4

DOCUMENT CONTROL NUMBER
GFT-OP-10a (6-March-2017)

3933 US Route 11
Cortland, NY 13045

Telephone: 1-607-753-6711
Facsimile: 1-607-758-3659
www.intertek.com

LETTER REPORT

05-February-2020

Intertek Report No. 104196819CRT-001f
Intertek Project No. G104196819

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

Subject: Final qualification 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 G104196819 and quotation Qu-01039511 issued 19-December-2019. Compliant results were obtained for the relevant tests contained in IEC 61156-5 sections 6.2 and 6.3 for horizontal cable transmission performance.

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	Not tested
Return loss (RL)	6.3.11	Not tested

Test equipment used	Model number	Control number	Calibration due date
Keysight Network Analyzer	E8357A	E382	07-January-2021
Keysight LCR Meter	4263B	R171	12-February-2020
Environmental chamber	Bally	3069	07-May-2020
Omega Humidity Temperature Meter	HH314A	T1392	11-February-2020
Temperature/humidity meter	OM-EL-USB-2-LCD	H243	28-March-2020

SECTION 4
SAMPLE DESCRIPTION

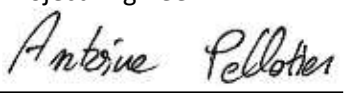
An Intertek representative randomly selected a Category 6_A, 4-Pair, 24 AWG, U/UTP, LSZH, horizontal (solid) cable identified as part number CS41ZC.

The sample was received on 20-January-2020 and was a production sample in undamaged condition.

SECTION 5
PROJECT STATUS & ACTION

Issuance of this letter report completes the final qualification testing of this cable electrical transmission performance per ISO/IEC 11801-1 covered by Intertek Project No. G104196819 and quotation Qu-01039511. The test results are compliant with the requirements of the standard(s) 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-February-2020	Date:	05-February-2020

Please note: this Letter Report does not represent authorization for the use of any Intertek certification marks.