

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 ANSI/TIA-568.2-D for Category 6 horizontal cable.

REPORT NUMBER

103981399CRT-001a

ISSUE DATE

14-July-2019

REVISED DATE

None

TESTS START DATE

06-July-2019

TESTS END DATE

12-July-2019

PAGES

4

DOCUMENT CONTROL NUMBER

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

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LETTER REPORT

14-July-2019

Intertek Report No. 103981399CRT-001a

Intertek Project No. G103981399

Mr. Wayne Hopkinson
CommScope, Inc. of North Carolina
3642 US Hwy 70 East
Claremont NC 28610
USA

Subject: Performance testing of Category 6 cable per ANSI/TIA-568.2-D

Dear Mr. Hopkinson:

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

ANSI/TIA-568.2-D-2018, Balanced Twisted-Pair Telecommunications Cabling and Components Standard, dated September 2018

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 G103981399 and quotation Qu-00988596 issued 13-June-2019. Compliant results were obtained for the relevant tests contained in ANSI/TIA-568.2-D section 6.6 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	ANSI/TIA-568.2-D section	Result
DC Resistance	6.6.1	Compliant
DC Resistance unbalance	6.6.2	Compliant
DC Resistance unbalance pair-to-pair	NA	Not specified
Mutual capacitance	6.6.4	Compliant
Capacitance unbalance: pair-to-ground	6.6.5	Compliant
Characteristic impedance and SRL	6.6.6	Not specified
Return loss	6.6.7	Compliant
Insertion loss	6.6.8	Compliant
NEXT loss	6.6.9	Compliant
PSNEXT loss	6.6.10	Compliant
ACRF (ELFEXT)	6.6.12	Compliant
PSACRF (PSELFEXT)	6.6.14	Compliant
TCL	6.6.15	Compliant
ELTCTL	6.6.17	Compliant
Coupling Attenuation	6.6.18	Not applicable
Propagation Delay	6.6.19	Compliant
Propagation Delay skew	6.6.21	Compliant
Surface transfer impedance	6.6.23	Not applicable
PSANEXT	6.6.25	Not applicable
PSAACRF	6.6.29	Not applicable

Test equipment used	Model number	Control number	Calibration due date
Keysight Network Analyzer	E5080A	J387	06-December-2019
Keysight LCR Meter	4263B	N967	09-November-2019
Environmental chamber	Bally	3069	07-May-2020
Omega Humidity Temperature Meter	HH314A	T1392	11-February-2020
Keysight Network Analyzer	E5071C	R172	13-May-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, 4-Pair, 24 AWG, U/UTP, horizontal (solid) cable identified as part number CS34Z3.


The sample was received on 05-July-2019 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 ANSI/TIA-568.2-D covered by Intertek Project No. G103981399 and quotation Qu-00988596. 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:	14-July-2019	Date:	14-July-2019

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