

CommScope, Inc. of North Carolina

LETTER REPORT

SCOPE OF WORK

Performance testing of a cabling configuration electrical transmission performance to the requirements of ANSI/TIA-568.2-D for Category 6A channel.

REPORT NUMBER

104575000CRT-001a

ISSUE DATE

29-January-2021

REVISED DATE

None

TESTS START DATE

29-January-2021

TESTS END DATE

29-January-2021

PAGES

4

DOCUMENT CONTROL NUMBER

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LETTER REPORT

29-January-2021

Intertek Report No. 104575000CRT-001a
Intertek Project No. G104575000

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

Subject: Performance testing of category 6A shielded channel per ANSI/TIA-568.2-D

Dear Mr. Hopkinson:

This letter report represents the results of our evaluation of the above referenced product(s) 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 channel configuration. This testing was performed under project G104575000 and quotation Qu-01142478 issued 21-January-2021. Compliant results were obtained for the relevant tests contained in section 6.3 of ANSI/TIA-568.2-D for channel transmission performance.

SECTION 2

NON-CONFORMANCES

None

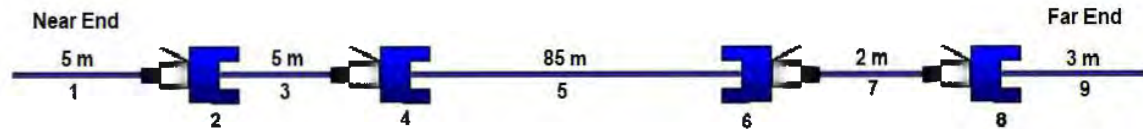
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SECTION 3

SAMPLE DESCRIPTION

The client supplied a 4-connector shielded channel as illustrated below.

The samples were received on 25-January-2021 and were production samples in undamaged condition.



Component Id	Manufacturer	Description	Part number
1, 3	CommScope	S/FTP LSZH modular cord	NPC6ASZDB-BL017
2, 4, 6, 8	CommScope	Modular jack	SLX 6AS
5	CommScope	U/FTP LSZH Horizontal cable	CS44Z3
7	CommScope	S/FTP LSZH modular cord	NPC6ASZDB-BL007
9	CommScope	S/FTP LSZH modular cord	NPC6ASZDB-BL010

SECTION 4

TEST EQUIPMENT USED

The following test equipment was used to conduct the testing.

Test equipment used	Model number	Control number	Calibration due date
Keysight Network Analyzer	E5080A	J387	15-February-2021
Keysight LCR Meter	4263B	N967	16-December-2021
Hioki Humidity/Temperature Logger	LR8514	I081	23-October-2021

SECTION 5 TESTING

The table 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 loop resistance	6.3.1	Compliant
DC resistance unbalance within a pair	6.3.3	Compliant
DC resistance unbalance between pairs	6.3.4	Compliant
Return Loss	6.3.8	Compliant
Insertion Loss	6.3.9	Compliant
NEXT and PSNEXT	6.3.10 - 6.3.11	Compliant
ACR-N, PSACR-N	Not applicable	Compliant
FEXT, ACR-F and PSACR-F	6.3.12 - 6.3.15	Compliant
TCL	6.3.16	Compliant
TCTL, ELTCTL	6.3.17 - 6.3.18	Compliant
Propagation delay	6.3.21	Compliant
Propagation delay skew	6.3.22	Compliant
Coupling attenuation	6.3.19	Not applicable
PSANEXT	6.3.24	Not tested
Average PSANEXT	6.3.25	Not tested
PSAACRF	6.3.28	Not tested
Average PSAACRF	6.3.29	Not tested

SECTION 6 PROJECT STATUS & ACTION


Issuance of this letter report completes the performance testing of this channel cabling configuration electrical transmission performance per ANSI/TIA-568.2-D covered by Intertek Project No. G104575000 and quotation Qu-01142478. The test results are compliant with the requirements of the standard and sections referred to on pages 2 and 4. 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
Title: Technician

Reviewed by: Antoine Pelletier
Title: Project Engineer

Signature:
Date:


29-January-2021

Signature
Date:


29-January-2021

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