

Sterlite Technologies Limited

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

105713122CRT-001a

ISSUE DATE

27-January-2024

REVISED DATE

None

TESTS START DATE

17-October-2023

TESTS END DATE

19-October-2023

PAGES

4

DOCUMENT CONTROL NUMBER

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

© 2017 INTERTEK



LETTER REPORT

27-January-2024

Intertek Report No. 105713122CRT-001a

Intertek Project No. G105713122

Mr. S.S. Harikanth
Sterlite Technologies Limited
33/1/1, Wagdhara Road
UT of Dadra and Nagerhaveli
Silvassa 396191
India

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

Dear Mr. Harikanth:

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

ANSI/TIA-568.2-D-2-2020, Balanced Twisted-Pair Telecommunications Cabling and Components Standard Addendum 2: Power Delivery Over Balanced Twisted-Pair Cabling, dated August 2020

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 G105713122 and quotation CE-QUO-BAN-23-002927 issued 29-November-2023. 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

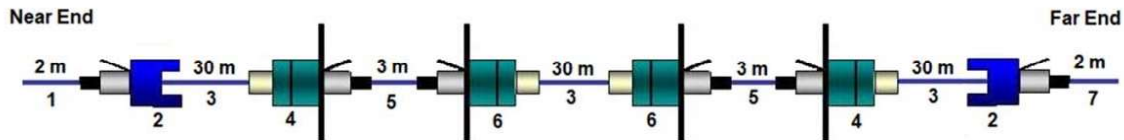
This report is for the exclusive use of Intertek's Client and is provided pursuant to the agreement between Intertek and its Client. Intertek's responsibility and liability are limited to the terms and conditions of the agreement. Intertek assumes no liability to any party, other than to the Client in accordance with the agreement, for any loss, expense or damage occasioned by the use of this report. Only the Client is authorized to permit copying or distribution of this report and then only in its entirety. Any use of the Intertek name or one of its marks for the sale or advertisement of the tested material, product or service must first be approved in writing by Intertek. The observations and test results in this report are relevant only to the sample tested. This report by itself does not imply that the material, product, or service is or has ever been under an Intertek certification program.

SECTION 3

SAMPLE DESCRIPTION

The client supplied a 6-connector unshielded channel as illustrated below.

The samples were received on 29-September-2023 and were production samples in undamaged condition.



Component Id	Manufacturer	Description	Part number
1, 7	Sterlite	U/UTP 24 AWG Patch Cord, 2 m	NXPCC6AUXZ24XX02
2	Sterlite	Keystone Jack, UTP, 90°	NXIOC6AUX090XX
2	Sterlite	Faceplate 1 Port	NXFP01BSXX
3	Sterlite	U/UTP, LSZH Horizontal (solid) cable	3212X Series
4	Sterlite	Keystone Jack, UTP, 180°	NXIOC6AUX180XX
4	Sterlite	Patch Panel UTP 24 Port Unloaded	NXPPUXSTRE1U24
5	Sterlite	U/UTP 24 AWG Patch Cord, 3 m	NXPCC6AUXZ24XX03

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	21-November-2023
Keysight LCR Meter	4263B	N967	16-January-2024
Temperature/humidity meter	OM-EL-USB-2-LCD	H243	11-May-2024

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. G105713122 and quotation CE-QUO-BAN-23-002927. 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	Reviewed by:	Antoine Pelletier
Title:	Technician	Title:	Project Engineer
Signature:		Signature:	
Date:	27-January-2024	Date:	27-January-2024

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