

Sterlite Technologies Limited

LETTER REPORT

SCOPE OF WORK

Performance testing of a cabling configuration electrical transmission performance to the requirements of ISO/IEC 11801-1 for Class E channel.

REPORT NUMBER

105764505CRT-001b

ISSUE DATE

18-March-2024

REVISED DATE

None

TESTS START DATE

15-March-2024

TESTS END DATE

15-March-2024

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LETTER REPORT

18-March-2024

Intertek Report No. 105764505CRT-001b

Intertek Project No. G105764505

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

Subject: Performance testing of Class E unshielded channel per ISO/IEC 11801-1

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):

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

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 G105764505 and quotation CE-QUO-BAN-24-000478 issued 29-November-2023. Compliant results were obtained for the relevant tests contained in section 6.3 of ISO/IEC 11801-1 for channel transmission performance.

SECTION 2 NON-CONFORMANCES

None

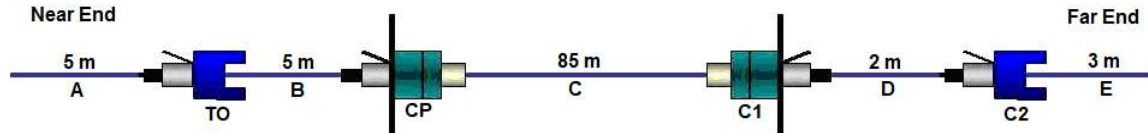
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SECTION 3

SAMPLE DESCRIPTION

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

The samples were received on 12-March-2024 and were production samples in undamaged condition.



Component Id	Manufacturer	Description	Part number
A	Sterlite	U/UTP 24 AWG Patch Cord, 5M	NXPCC06UXZ24XX05
TO	Sterlite	Keystone jack, UTP, 90°	NXIOC06UX090XX
TO	Sterlite	Faceplate 2-Port	NXFP02BSXX
B	Sterlite	U/UTP 24 AWG Patch Cord, 5M	NXPCC06UXZ24XX05
CP	Sterlite	Keystone jack, UTP, 180°	NXIOC06UX180XX
CP	Sterlite	Patch Panel UTP 24 Port Unloaded	NXPPUX Series
C	Sterlite	U/UTP, LSZH Horizontal (solid) cable	2212X Series
C1	Sterlite	Keystone jack, UTP, 180°	NXIOC06UX180XX
C1	Sterlite	Patch Panel UTP 24 Port Unloaded	NXPPUX Series
D	Sterlite	U/UTP 24 AWG Patch Cord, 2M	NXPCC06UXZ24XX02
C2	Sterlite	Keystone jack, UTP, 90°	NXIOC06UX090XX
C2	Sterlite	Faceplate 1-Port	NXFP01BSXX
E	Sterlite	U/UTP 24 AWG Patch Cord, 3M	NXPCC06UXZ24XX03

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-November-2024
Keysight LCR Meter	4263B	N967	02-February-2025
Hioki Humidity/Temperature Sensor	Z2010	I084	23-October-2024

SECTION 5 TESTING

The table below represents a summary of the tests and results. The detailed test data is enclosed with this letter report.

Test description	ISO/IEC 11801-1 section	Result
DC loop resistance	6.3.3.6	Compliant
DC resistance unbalance within a pair	6.3.3.7	Compliant
DC resistance unbalance between pairs	6.3.3.7	Compliant
Return Loss	6.3.3.1	Compliant
Insertion Loss	6.3.3.2	Compliant
NEXT and PSNEXT	6.3.3.3	Compliant
ACR-N, PSACR-N	6.3.3.4	Compliant
FEXT, ACR-F and PSACR-F	6.3.3.5	Compliant
TCL	6.3.3.12.2	Compliant
TCTL, ELTCTL	6.3.3.12.3	Compliant
Propagation delay	6.3.3.10	Compliant
Propagation delay skew	6.3.3.11	Compliant
Coupling attenuation	6.3.3.12.4	Not applicable
PSANEXT	6.3.3.13.2	Not applicable
Average PSANEXT	6.3.3.13.3	Not applicable
PSAACRF	6.3.3.13.4	Not applicable
Average PSAACRF	6.3.3.13.5	Not applicable

SECTION 6 PROJECT STATUS & ACTION

Issuance of this letter report completes the performance testing of this channel cabling configuration electrical transmission performance per ISO/IEC 11801-1 covered by Intertek Project No. G105764505 and quotation CE-QUO-BAN-24-000478. 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:	18-March-2024	Date:	18-March-2024

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