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CommScope, Inc. of North Carolina

LETTER REPORT

SCOPE OF WORK
Testing of a cabling configuration Bit Error Rate (BER) and Frame Check Sequence (FCS) performance to the requirements of IEEE 802.3™ for 2.5GBASE-T and 5GBASE-T operation

REPORT NUMBER
105853508CRT-001b

ISSUE DATE
24-June-2024

REVISED DATE
None

TESTS START DATE
24-June-2024

TESTS END DATE
24-June-2024

PAGES
4

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

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LETTER REPORT

24-June -2024

Intertek Report No. 105853508CRT-001b
Intertek Project No. G105853508

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

Subject: Bit Error Rate (BER) and Frame Check Sequence (FCS) errors testing of category 6 unshielded channel for support of 2.5GBASE-T and 5GBASE-T operation

Dear Mr. Hopkinson:

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

IEEE Std 802.3™-2022 Standard for Ethernet, Approved 13-May-2022

SECTION 1
SUMMARY

Intertek wishes to inform you that the bit error rate (BER) and frame check sequence (FCS) tests have been performed on your channel configuration. This testing was performed under project G105853508 and quotation Qu-01450453 issued 06-May-2024. Compliant results were obtained for the relevant tests contained in IEEE 802.3 for BER and FCS performance.

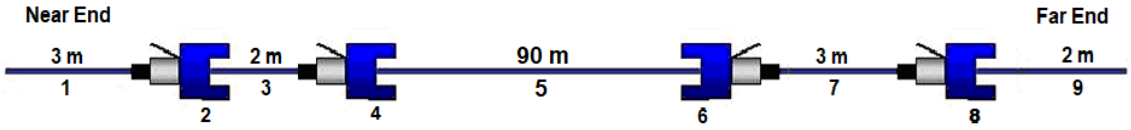
SECTION 2
NON-CONFORMANCES

None

SECTION 3
TEST CONFIGURATION

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

The samples were received on 24-June-2024 and were production samples in undamaged condition. The cabling configuration was bundled in a 6-around-1 configuration. The same 2.5GBASE-T or 5GBASE-T traffic was introduced on the 6 disturbers to evaluate the performance of the center channel disturbed with alien crosstalk.



Component Id	Manufacturer	Description	Part number
1, 7	CommScope	Modular cord	CPC3312-03M003
3, 9	CommScope	Modular cord	CPC3312-03M002
2, 4, 6, 8	CommScope	Modular jack	MGS400
5	CommScope	U/UTP CMP horizontal cable	XL5 2081B

SECTION 4
TEST EQUIPMENT USED

The following test equipment was used to conduct the testing.

Test equipment used	Model number	Serial number	Calibration due date
Spirent Chassis	SPT-3U	E13110519 (Chassis) E13110298 (Controller)	Verify before use
Spirent 10Gbps 8-port cards	hyperMETRICS FX 8PORT 10GBASE-T	E13501369 E14200195	
Temperature/humidity meter	OM-EL-USB-2-LCD	010038132	23-May-2025

SECTION 5
TESTING

The following Ethernet events were monitored using the Spirent SPT-3U Ethernet monitoring platform during at least 10 minutes.

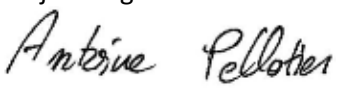
Test description	2.5GBASE-T Results	5GBASE-T Results
Bit Error Rate (BER)	No errors	No errors
Frame Check Sequence (FCS) errors	No errors	No errors

The ambient conditions during the testing were 20°C and 62% relative humidity.

SECTION 6
PROJECT STATUS & ACTION

Issuance of this letter report completes the performance testing of this channel cabling configuration BER and FCS performance per IEEE 802.3 covered by Intertek Project No. G105853508 and quotation Qu-01450453. 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 the client's facility located in Claremont, NC and witnessed by an Intertek engineer.

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	24-June-2024	Date:	24-June-2024

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