

# 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 10BASE-T, 100BASE-T and 1000BASE-T operation at extended distances

## REPORT NUMBER

105853508CRT-001g

## 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-001g

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 10BASE-T, 100BASE-T and 1000BASE-T operation at extended distances

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.

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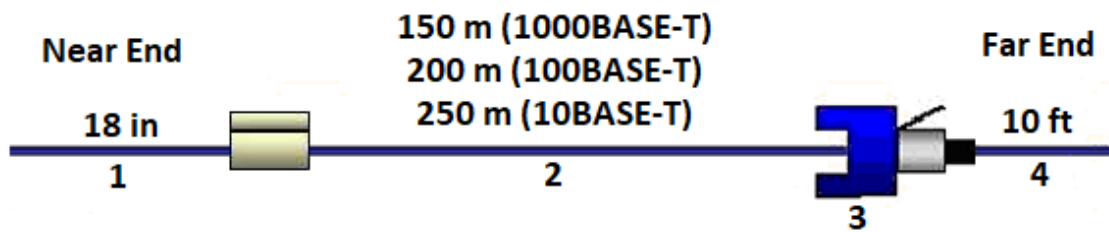
## SECTION 2 NON-CONFORMANCES

None

## SECTION 3 TEST CONFIGURATION

The client supplied a 2-connector unshielded channel as illustrated below.

The samples were received on 24-June-2024 and were production samples in undamaged condition.



Component Id	Manufacturer	Description	Part number
1	CommScope	Ceiling Connector Assembly (CCA)	CO1SJO2-88N018
2	CommScope	U/UTP OSP horizontal cable	GigaREACH 1573A
3	CommScope	Modular jack	MGS400
4	CommScope	Modular cord	CPC3312-03F010

## 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	10BASE-T Results	100BASE-T Results	1000BASE-T Results
Bit Error Rate (BER)	No errors	No errors	No errors
Frame Check Sequence (FCS) errors	No 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  
Title: Technician  
Signature:   
Date: 24-June-2024

Reviewed by: Antoine Pelletier  
Title: Project Engineer  
Signature:   
Date: 24-June-2024

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