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29-October-2019

Letter Report No. 103677527CRT-001b  
Project No. G104135163

Mr. Jason Huffman  
CommScope, Inc. of North Carolina  
6519 CommScope Road  
Catawba, NC 28609

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Subject: Listing Report 100521242CRT-001, Sect. 3, Const. A, Vol. 1, Sect. 6 – CMR Communications Cables P/Ns: FSJ1RK, FSJ2RK, FSJ4RK, RSJ4RK, LDF1RK, LDF2RK, LDF4RK, LDF4.5RK, AVA5RK, AVA5RK-FX, AVA6RK, and AVA7RK.

Dear Mr. Huffman:

This letter confirms that listing report 100521242CRT-001, Sect. 3, Const. A, Vol. 1, Sect. 6 is an active safety listing with Intertek that covers CMR (Communications) Cables. Cable specifications for the following part numbers have been reviewed and determined to comply with the construction details outlined in this report and are therefore covered by this listing: **FSJ1RK, FSJ2RK, FSJ4RK, RSJ4RK, LDF1RK, LDF2RK, LDF4RK, LDF4.5RK, AVA5RK, AVA5RK-FX, AVA6RK, and AVA7RK.**

The standards used in this listing are:

***UL 444 - Communications Cables [UL 444:2017 Ed.5]***

***CSA C22.2 No. 214 - Communications Cables [CSA C22.2#214:2017 Ed.8]***

Results are documented in Intertek listing report 100521242CRT-001, issued 29-Sept-2011 and revised 26-Apr-2017. Please refer to the Authorization to Mark (ATM) for this product's ability to carry the ETL mark. Listed products can be located in the Intertek Directory at <http://www.intertek.com/directories/>.

CommScope, Inc. may utilize the ETL mark per an issuance of an ATM for product under the terms and conditions set forth by Intertek and the Follow-up Service Agreement. Please reference the ATM for the Type CMR Communication Cable that is described in listing report No. 100521242CRT-001. The evaluation and testing of the cable is in accordance with the following:

· ***UL 444 - Communications Cables [UL 444:2017 Ed.5]***

***CSA C22.2 No. 214 - Communications Cables [CSA C22.2#214:2017 Ed.8]7 +G1]***

· ***UL 1666 – Standard For Test For Flame Propagation Height Of Electrical And Optical Fiber Cables Installed Vertically In Shafts [UL 1666:2007 Ed.5+R:31Jan2017]***

· ***IEC 60332-1-2 - IEC 60332-1 Issue:1993/04/01 Ed:3 Tests on Electric Cables Under Fire Conditions Part 1: Test on a Single Vertical Insulated Wire or Cable-Third Edition;***  
· ***Corrigendum-05/1993;----- Replaced by IEC 60332-1-1:2004 and IEC 60332-1-2***

· ***IEC 60332-3-24 - Issue: 2009 Ed.1.1 Part 3-24: Test for Vertical Flame Spread of Vertically-Mounted Bunched Wires or Cables - Category C***

· ***IEC 61034-2 - 2005 Ed.3 Measurement of Smoke Density of Electric Cables Burning under Defined Conditions - Part 2: Test Procedure and Requirements***

***IEC 60754-2 - Issued: 2011/11/17 Ed. 2 Test on Gases Evolved During Combustion of Materials From Cables - Part 2: Determination of Acidity (By PH Measurement) and Conductivity***



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- **NFPA 130, Section 8.6.7.1.1 - Issued: 2013/08/21 (2014 Version) Fixed Guideway Transit and Passenger Rail Systems**
- **UL 1685 - Vertical-Tray Fire-Propagation And Smoke-Release Test For Electrical And Optical-Fiber Cables [UL 1685:2015 Ed.4]**

This letter was authorized by signed proposal number Qu-1024507, dated 28-Oct-2019. No samples were received for this evaluation, which was performed at the Intertek Cortland facility.

This letter report supersedes all previous reports and concludes project G104135163.

If there are any questions regarding this letter, or any of the other services offered by Intertek, please do not hesitate to contact the undersigned.

Completed by:	Holly L. Marvin	Reviewed by:	Chuck Barlow
Title:	Project Engineer	Title:	Engineering Reviewer
Signature:		Signature:	
Date	<u>10/29/2019</u>	Date:	<u>10/30/2019</u>

*Please note this letter expires one year from the date of issuance indicated above.*