

Subject 1651

March 9, 2018

SUMMARY OF TOPICS

The following changes in requirements to the Standard for Optical Fiber Cable, UL 1651, are being proposed:

1. New Suffixes HF and LSHF

STP BALLOTS AND ALL COMMENTS DUE: April 9, 2018

If you are interested in applying for STP 13 membership or are aware of potential candidates for this STP, please contact the STP Project Manager, Joshua.Johnson@ul.com.

For your convenience in review, proposed additions to existing requirements are shown underlined and proposed deletions are shown ~~lined-out~~.

1. New Suffixes HF and LSHF

RATIONALE

Proposal submitted by: Anthony Tassone, Underwriters Laboratory, Inc

The revisions introduce optional suffixes for Halogen Free "HF" and Low Smoke Halogen Free "LSHF" for wire and cable constructions that comply with the requirements. Currently, there are two different references designated by the -LS. One is for Limited Smoke and the other is for Low Smoke so there may be confusion between the different "LS" suffixes. In other wire and cable standards especially those Standards that are tri-national, there has been agreement to use the ST-1 suffix since the -ST-1 has already been recognized as being associated with Limited Smoke. Therefore it is being proposed that the cable's ability to comply with the limited smoke requirements be designated by the suffix "-ST1". The reference to limited combustible is also being deleted since it no longer a viable rating.

PROPOSAL

~~12 Limited Combustible~~

~~12.1 Type OFNP or OFCP plenum cable that is marked as in 15.1(c) to indicate limited combustible, shall comply with the requirements in NFPA 90A when tested in accordance with the Standard Test Method for Potential Heat of Building Materials, NFPA 259, and the Standard for Test for Surface Burning Characteristics of Building Materials, UL 723 (NFPA 255).~~

15 Information on or in the Cable

15.1 The following information shall appear at the intervals indicated in 13.1 throughout the entire length of the finished cable. Except for (a), the sequence of items is not specified. Other information, where added, shall not confuse or mislead and shall not conflict with these requirements. See 18.1 for date marking.

**UL COPYRIGHTED MATERIAL –
NOT AUTHORIZED FOR FURTHER REPRODUCTION OR
DISTRIBUTION WITHOUT PERMISSION FROM**

Documents
Document Sharing Hub

a) CABLE TYPE-LETTER DESIGNATION – Use of the word “Type” is not required:

“Type OFNP” and “Type OFCP” for cables that comply with the requirements in this Standard as well as complying with 7.1 and 1.2(a) as to flame propagation and smoke density in the National Fire Protection Association Standard Method of Test for Flame Travel and Smoke of Wires and Cables for Use in Air-Handling Spaces, ANSI/NFPA 262 (plenum flame test). These cables may be marked “FT6”; where used, this marking is to be spaced from the other cable markings required in this paragraph.

“Type OFNR” and “Type OFCR” for cables that comply with the requirements in this Standard as well as complying with 8.1, 8.2, and 1.2(b) as to flame-propagation characteristics in the Test for Flame Propagation Height of Electrical and Optical-Fiber Cables Installed Vertically in Shafts, UL 1666 (near flame test).

“Type OFNG” and “Type OFCG” for cables that comply with the requirements in this Standard as well as complying with 1.2(c) and 9.3.1 as to cable damage in the FT4/IEEE 1202 Type of Flame Exposure (smoke measurements are not applicable) in the Standard for Vertical-Tray Fire-Propagation and Smoke-Release Test for Electrical and Optical-Fiber Cables, UL 1685. These cables may be marked “FT4/IEEE 1202” or “FT4”; where used, this marking is to be spaced from the other cable markings required in this paragraph.

“Type OFN” and “Type OFC” for cables that comply with the requirements in this Standard as well as complying with 1.2(c) and 9.2.1 or 9.3.1 with regard to cable damage in the UL Flame Exposure or FT4/IEEE 1202 Type of Flame Exposure (smoke measurements are not applicable) in the Standard for Vertical-Tray Fire-Propagation and Smoke-Release Test for Electrical and Optical-Fiber Cables, UL 1685. Where the vertical-tray flame test with which the cable complies consists of the FT4/IEEE 1202 Type of Flame Exposure, the cable may be marked “FT4/IEEE 1202” or “FT4”; where used, this marking is to be spaced from the other cable markings required in this paragraph.

b) RESPONSIBLE ORGANIZATION – The name of the cable manufacturer, that manufacturer’s trade name for the cable, or both, or any other appropriate distinctive marking by means of which the organization responsible for the cable is readily identifiable. Where the organization responsible for the cable is different from the actual manufacturer, both the responsible organization and the actual manufacturer shall be identified by name or by appropriate coding such as trade name, trademark, or the assigned electrical reference number. It is appropriate to identify the actual manufacturer by the assigned colored marker thread or combination of colored marker threads; however, unless it or they supplement ink printing as stated in 15.3 and 15.4, colored marker thread(s) shall not be used to identify the responsible organization. The meaning of any coded identification shall be made available by the organization responsible for the cable. It is appropriate also to identify a private labeler; the means is not specified. See 15.2 and 15.4.

~~e) The designation “Limited Combustible” for Type OFNP or OFCP plenum cable that complies with the requirements in 12.1. This marking is not required.~~

~~d) c) The designation “sun res” or “sunlight resistant” for cable that complies with the sunlight resistance test referenced in 10.1.~~

e) d) For cables rated over 60°C, the temperature rating shall be stated as °C or C.

UL COPYRIGHTED MATERIAL –
NOT AUTHORIZED FOR FURTHER REPRODUCTION OR
DISTRIBUTION WITHOUT PERMISSION FROM  Documents
Document Sharing Hub