

Flame-retardant warranty for optical cable winding tubes



Overview

4, 8, 12 & 24 Fibre Optic Cable OM3 multimode and OS2 singlemode, Loose Tube, Internal/External LSZH.

Key Takeaways

Flame-retardant optical cable winding tubes are typically certified to meet UL, NFPA, and NEC standards, providing performance assurance rather than a traditional warranty.

Certification and Compliance

Flame-retardant optical cables, including winding tubes, are tested and certified by Nationally Recognized Testing Laboratories (NRTLs) such as Intertek (ETL) or UL to ensure compliance with industry safety standards. These certifications confirm that the cables meet UL 1651 requirements for optical fiber cables, covering flame performance, marking durability, and other safety criteria. Common flame-retardant ratings include OFNR (riser) and OFNP (plenum), which define the cable's suitability for vertical shafts and air-handling spaces, respectively.

Testing Standards

The flame-retardant performance of optical cable tubes is verified through standardized tests such as:

- UL 1666: Measures flame propagation height of vertically installed cables.

- NFPA 262: Evaluates flame travel and smoke generation in air-handling spaces .

These tests ensure that the winding tubes maintain structural integrity and resist flame spread under fire conditions, providing a reliable performance guarantee for indoor and riser applications.

Manufacturer Assurances

Manufacturers like Corning, AFL, and ZTT provide optical cables with flame-retardant winding tubes that are halogen-free, LSZH, and water-blocked, ensuring long-term safety and durability . While explicit monetary warranties may not be standard, the certifications and compliance with recognized standards act as a de facto warranty, guaranteeing that the tubes will perform according to the specified flame-retardant criteria during their service life. Some products also offer extended fire resistance under extreme conditions, including high temperatures and mechanical stress .

Practical Considerations

- Ensure the cable type matches the installation environment (e.g., OFNR for riser, OFNP for plenum).
- Verify that the manufacturer provides NRTL certification for flame-retardant performance.
- Check for additional features like LSZH sheaths, water-blocking, and mechanical reinforcement, which enhance safety and longevity .

In summary, while flame-retardant optical cable winding tubes may not come with a traditional warranty, NRTL certifications and compliance with UL, NFPA, and NEC standards provide a reliable assurance of flame-retardant performance for both indoor and riser applications.

Article Content

Corning Optical Cable standard warranty

No warranty extended by Seller shall apply to: any goods which have been modified or altered by persons other than Seller; or any

Flame Retardant Optical Cable

Maldives Fiber Optic Cable Winding Tube Flame Retardant Each tube contains no more than 12 fibres and it is fire protected by

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Corning Optical Communications manufactures quality flame retardant optical fiber cables for indoor applications, which comply with

WARRANTIES & ASSURANCES

By installing OCC cable and/or connectivity components under the stringent guidelines set forth by OCC, and by following the

LSZH™ Loose Tube, Gel-Free, Single-Jacket Cable | Corning

The flexible, flame-retardant outer jacket is UV-resistant and enables direct exposure to sunlight. Interlocking armor is available for

Draka FireTuf Fire Resistant Fibre Optic Cable

This FireTuf fibre range is fully compliant with fire resistant standards IEC 60331-25 and flame retardant standards IEC 60332-2-3

QFCI Fiber Cable | Lifeline® MC Cable | Fire Rated Cables

Lifeline® QFCI is the first UL flame listed optical cable designed for indoor/outdoor use in vital communication and emergency

Fiber Optic Cables

Prysmian has a built-in multi-step quality assurance program, covering the production process from cable design and raw material

Indoor Fiber Optic Cables | Flame Retardant Indoor Cable Products

Corning indoor fiber optic cables are used in spaces that require a flame retardant jacket. These cables may be deployed in duct

Draka FT Fire Resistant Fibre Optic Armoured

4, 8, 12 & 24 Fibre Optic Cable OM3 multimode and OS2 singlemode, Loose Tube, Internal/External LSZH. Manufactured by Draka

Production process of high-performance fire-resistant optical cable

The main application of flame retardant and fire-resistant optical cable, generally by selecting excellent flame retardant

Flame-Retardant RI Indoor Wrapping Tube Cable (WTC) with

Flame-retardant (FR) RI Wrapping Tube Cable (WTC) with SpiderWeb Ribbon (SWR) is a high-density fiber optic ribbon cable

fiber optiC Cable low smoke / zero halogen

Applications • Indoor/outdoor tight-buffered cable design for use in installations requiring a flame retardant, low smoke and zero

CPR Optical Cables | Fire-Resistant | OPTRAL

CPR fire-resistant optical cables with Euroclass Dca, Cca, and B2ca classifications. Safety and performance for critical applications.

Single Mode Multi-Tube Armoured Fiber Optic Cables

Single Mode Multi-Tube Armoured Fiber Optic Cables Techlogiks armoured loose tube cables are the product of choice as the

Lifeline™ Fire Resistant Fiber Optic Cable | Prysmian

Discover Lifeline™ QFCI fire resistant fiber optic cable for reliable communication in emergency systems. Learn more about its

Fiber Optic Cables

APPLICATION Optical cable for indoor and outdoor use in vital communication and emergency systems that need to be operational

MDIS 25 Year System Warranty

Optical Cable Corporation, in conjunction with Certified Multimedia Design & Integration Specialist ("MDIS") Installers around the

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

