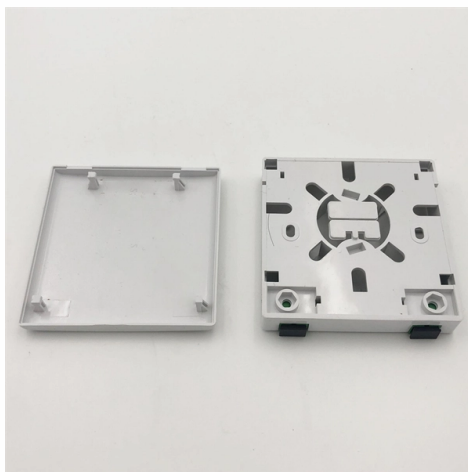


New Zealand Double-Armored Flame-Retardant Optical Cable Models



Overview

Optical fibres are housed in loose tubes that are made of high-modulus plastic and filled with tube filling compound.

Key Takeaways

Double-armored, flame-retardant optical cables in New Zealand include Prysmian Draka FireTuf, YOFC stranded loose tube armored cables, and AFL RIO Wrapping Tube cables, all featuring LSZH sheaths and compliance with fire safety standards.

1. Prysmian Draka FireTuf

- Available in OM1, OM3, OM4 multimode and OS2 singlemode configurations with 4, 8, 12, or 24 fiber cores .
- Features corrugated steel tape armor for rodent protection and a central loose tube construction.
- Internal and external LSZH sheaths provide low smoke and halogen-free protection.
- Incorporates MaxCap BendBright™ technology for bend-insensitive performance.
- Compliant with IEC 60331-25 fire resistance and IEC 60332-2-3-24C flame retardant standards, suitable for fire alarm, voice alarm, tunnels, and public buildings .

2. YOFC Flame-Retardant Double Armored Stranded Loose Tube Cable

- Fibers housed in high-modulus plastic loose tubes with filling compound, stranded around a metallic central strength member .
- Core armored with laminated aluminum tape and corrugated steel tape, with LSZH inner and outer sheaths.
- Designed for transport/storage temperatures from -40°C to +70°C and standard lengths of 2,000m.
- Suitable for indoor/outdoor deployment where mechanical protection and fire safety are critical . 3. AFL RIO Wrapping Tube Cable (WTC) with SpiderWeb Ribbon®
- High-density fiber optic ribbon cable for indoor/outdoor applications .
- Flame-retardant, LSZH-compliant, and riser-rated for building installations.
- Features water-blocking core and bonded fiber ribbon design for efficient splicing.
- Supports high fiber counts (144F to 6912F) and flexible installation in ducts, trays, or covered pathways.
- Engineered for space-constrained, fire-regulated environments .

Considerations for Selection

- Fire safety compliance: Ensure cables meet IEC or local fire standards for flame retardancy and circuit integrity.
- Armor type: Double-armored cables with steel tape and aluminum layers provide superior mechanical protection.
- Fiber type and count: Choose based on network bandwidth requirements and future scalability.
- Environmental suitability: Check for temperature range, UV stability, and indoor/outdoor rating.
- Bend-insensitive technology: Important for tight bends or high-density installations. These models are widely available in New Zealand through distributors of Prysmian, YOFC, and AFL, providing robust, fire-safe solutions for critical infrastructure, public buildings, and industrial networks.

Article Content

Flame-retardant Double Armored Stranded Loose Tube Optical Cable

Optical fibres are housed in loose tubes that are made of high-modulus plastic and filled with tube filling compound. The tubes (and

Fiber Optic Cables

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

Fire-Resistant Optic Cable

Engineered for critical safety, this fire-resistant optic cable provides reliable data transmission in high-risk environments.

Armored Fiber Optic Cable Structure and Types

The armored fiber optic cable is to wrap a layer of protective “armor” on the outside of the optical fiber, which is mainly

Flame Retardant fiber Optic cable Enhanced SWA Armoured Material

Offshore/Oil Gas/ heavy industrial Fiber Optic Flame Retardant Cable Direct Buried Single Mode/Multimode UniTube Fire Resistant

Indoor Fiber Optic Cables | Flame Retardant Indoor Cable Products

These indoor fiber optic cables are used exclusively within buildings and must have a flame-retardant cable jacket to fit this purpose.

Fiber Optic Cables Armoured A

Indoor and outdoor, flame retardant, LSZH or PVC, loose tube, Armored SWA (Steel wires Armor), SWB (Steel wires Braid) or CST

Types and characteristics of flame-retardant optical cables

The fire-resistant optical cable can also ensure the smoothness of the circuit under the condition of flame burning, and the flame

DS Updation

Norden Double Jacket Multi-loose Tube Steel Tape Armoured Flame Retardant Fibre Optic Cable features an FRP central strength

FLAME RETARDANT ARMORED CABLE

This cable is constructed of a steel wire strength member with water blocking tape and armored tape, which provides extraordinary

Flame-retardant Double Armored Stranded Loose Tube Optical Cable

Products Flame-retardant Double Armored Stranded Loose Tube Optical Cable (GYTZA53) Optical fibres are housed in loose tubes

Fire-resistant optical cable, Flameproof optical cable

Find your fire-resistant optical cable easily amongst the 12 products from the leading brands (LAPP, ZTT, CABLESCOM, ...) on

Fire resistant/survival cables

LSZH Fire Resistant Cable Solutions for Public Buildings Tunnels and Metro Lines Our fire resistant/fire survival cables feature a

Fiber Optic Cable Jackets & Fire Ratings Guide

Fiber Optic Cable Fire Rating In the National Electrical Code (NEC), fiber optic cables are categorized into various fire

CPR Optical Cables | Fire-Resistant | OPTRAL

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

Lifeline QFCI Fire Resistant Fiber Optic Cable L

- Transit Stations - Roadway Tunnels Lifeline® QFCI is the first UL flame listed optical cable designed for indoor/outdoor use in vital

Armoured Cables

Nexans New Zealand are the leading cable manufacturer for sustainable electrification. With our range including low, medium & high

Armored Fiber Optic Cables

The MC cable is tough and durable to ensure that rodents can't chew through to the fiber. Featuring Corning® glass, the fiber optic

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