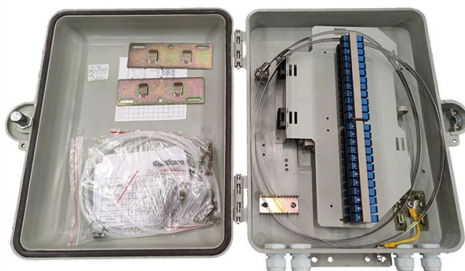


Outer diameter of 48-core indoor optical cable



Overview

Opti-Core Fibre Optic Indoor-Outdoor Armoured Cable 48 to 144 Opti-Core™ Fibre Optic Indoor-Outdoor Armoured Cable 48 to 144-Fibres, EuroClass Cca and B2c.

Key Takeaways

The outer diameter of a 48-core indoor OM3 multimode loose tube optical cable is 12.2 mm.

The 48-core indoor/outdoor fiber optic cable from Legrand, featuring OM3 multimode 50/125 μm fibers in a loose tube design, has an outer diameter of 12.2 mm and a maximum tensile strength of 5 kN, making it suitable for LAN and WAN backbone installations, as well as indoor routing in ducts or trays (Legrand specifications) .

Cable Construction and Features

- Fiber Type: OM3 multimode, 50/125 μm core/cladding
- Core Arrangement: 48 fibers, typically 12 fibers per loose tube
- Sheath Material: Low Smoke Zero Halogen (LSZH) for fire safety
- Temperature Range: -40°C to 70°C
- Water Blocking: Longitudinal and radial protection
- Geometry: Round, metal-free for flexible routing

- Color Coding: Turquoise outer sheath (RAL 6027) for easy identification
- Considerations for Installation

The outer diameter is critical for determining conduit fill, bend radius, and tray compatibility. For a 12.2 mm cable, ensure that the installation path accommodates the cable's flexibility and tensile strength. Loose tube construction allows for some fiber movement within the tube, reducing stress during bending or pulling.

Variations

Other 48-core cables may have slightly different diameters depending on fiber type (single-mode vs multimode), sheath thickness, or armored protection. For example, tight-buffered indoor cables may have smaller diameters, while armored or outdoor-rated cables may be larger. In summary, for a standard 48-core OM3 indoor/outdoor loose tube cable, expect an outer diameter of approximately 12.2 mm, with variations possible depending on manufacturer and specific design features.

Article Content

Opti-Core Fibre Optic Indoor-Outdoor Armoured Cable 48 to 144

Opti-Core™ Fibre Optic Indoor-Outdoor Armoured Cable 48 to 144-Fibres, EuroClass Cca and B2ca for EMEA A T A S H E E T

48 Core Indoor Armored Fiber Optic Cables Suppliers

As a leading variant of armored fiber optic cable, our 48-core indoor model features an ultra-slim 6.0mm

Micro Armor Fiber™ The Original Stainless Steel Armor Single

Outer Jacket 250mm Color Coded Fiber, Steel Tube, Material: Plenum Rated Kevlar, Metal Braiding, Inner Jacket, Color: Yellow

Product Specifications Armored Indoor/Outdoor Plenum Fiber

Cable Core: Sub-units and fillers are stranded around the CSM, using reverse oscillation. A water blocking tape is applied over the

48 Fiber Optic Strand Indoor/Outdoor Singlemode Dry Loose Tube Cable

These cables combine flexible dry buffer tubes and swellable water blocking materials with Prysmian's extensive portfolio of single

Fibre Optic Cable Catalogue

Fibre Types & Wavelengths Briticom® cables are available in many specifications, for both indoor and outdoor use. We have a wide

Opti-Core Fiber Optic Indoor Cable – Asia Pacific

Panduit™ Opti-Core™ Fiber Optic Indoor Cable is an integral part of the Panduit end-to-end fiber optic solution, designed to

760154633 | D-048-LA-CM-F12NS/8W024/5K024 | CommScope

Fiber OSP cable, TeraSPEED® Single Jacket/Single Armor, Gel-Free, 48 fibers, Stranded Loose Tube, Composite OM4 and

48 Core Fiber Optic Cable GYTY53 Outdoor Armored Double Jacket

48 Core GYTY53 Fiber Optic Cable Features of 48 Core GYTY53 fiber optic cable Low dispersion and attenuation Proper design,

Plenum 48-Strand Corning Outdoor Fiber Optic Cable 1000ft

This is a black 1000 foot drum of indoor/outdoor plenum rated fiber optic distribution cable intended for long distance runs at high

Multi-Loose Tube Fiber Cable

Outdoor dry core optical fiber Multi Loose Tube cable with glass yarns as strength member, Corrugated Steel Tape (Full Rodent

48 Core Fiber Optic Cable

The 48 Core Fiber Optic Cable is engineered to meet the demands of high-performance data transmission

Fiber Optic Indoor/Outdoor Cables

Our indoor/outdoor cables meet rigorous outdoor environments and can be routed indoors where flame rating applies, eliminating

PRODUCT SPECIFICATIONS

PRODUCT DESCRIPTION Fiber Optic Cable - OM4 Multimode Fiber, Plenum or Riser Rated cable that is offered in 48, 60, 72, or 96

Fiber Optic Cable

Belden's extensive line of indoor and outdoor cable products is offered in tight buffer and loose tube designs. Learn more about each

Fiber Optic Cable Sizes: A Comprehensive Analysis

Core Sizes and Performance The core is the main component of fiber cable because it's the transparent area where

48 Core LSZH jacket, Dca level AVNTAES

B1.3 (OS2,G652D) B6.a G657A Maximum attenuation coefficient at 1310nm
Maximum attenuation coefficient from 1310nm to

24 Core and 48 Core Fiber Optic Cable

24 Core and 48 Core Fiber Optic Cable Fiber optic cable is a cable containing one or multiple optical fibers

Related Video Reference

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