

Article Overview

Thorlabs, TYCLON, and MFOPTEx are key manufacturers of two-core bundled optical cables, offering customizable fiber types, core sizes, and connector options.

Thorlabs

Thorlabs produces bifurcated fiber bundles (two-core cables) constructed from high-grade optical fibers encased in stainless steel tubing for durability. They offer a variety of fiber types including solarization-resistant, high-OH, low-OH, and ZBLAN fibers, with core sizes ranging from 50 μm to 1000 μm . The cables are terminated with SMA905 or FC/PC connectors, and lengths vary depending on fiber type (2 m for standard fibers, 0.5 m for ZBLAN). These bundles are suitable for spectroscopy and other applications requiring broad wavelength transmission from UV to mid-IR (285 nm - 4.5 μm) (Thorlabs).

TYCLON

TYCLON manufactures bundled 2-core fiber optic cables for both single-mode (SM) and multi-mode (OM1-OM5) applications. They provide a wide selection of connectors including SC, LC, ST, FC, MU, and SMA905, and allow custom cable lengths and quantities. TYCLON's two-core cables are ideal for bidirectional communication, and they also offer cord-bundle and flat-type configurations. Non-standard configurations can be requested to match specific application requirements (TYCLON).

MFOPTEx

MFOPTEx offers fiber bundles composed of 2 or more optical fibers, with options for precise fiber arrangements, anti-reflective coatings, and customized layouts. Their bundles can be used to split or combine light paths, adjust beam shapes, and transmit light over a wide wavelength range from deep UV to near IR. MFOPTEx supports customized designs to meet specific equipment or experimental requirements, making them suitable for high-precision optical applications (MFOPTEx).

Considerations for Selection

When choosing a two-core bundled optical cable, consider the following:

- o Fiber type: Single-mode for long-distance, high-speed communication; multi-mode for short-distance, high-bandwidth applications.
- o Connector type: Ensure compatibility with your equipment (SC, LC, ST, FC, MU, SMA905).
- o Core size and numerical aperture: Affects light transmission efficiency and coupling.



Manufacturer of Two-Core Bundled Optical Cables

- o Cable length and flexibility: Customizable to fit installation requirements.
- o Spectral range: Choose fibers suitable for your wavelength requirements (UV, visible, NIR, or mid-IR). These manufacturers provide both standard and customizable two-core bundled optical cables, making them suitable for a wide range of scientific, industrial, and communication applications.

Fiber Optical Cable Manufacturer Manufacturer of a wide range of products which include 2,4,6,12 core

View Eland Cables" range of singlemode and multimode fibre optic cables - loose tube and tight buffered. Technical support, fast

2-D fiber optic bundle, or fiber bundle optics, such as the linear fiber bundle, uses flat-bottom groove and lid to stack multiple fibers

Fiber Optic Bundles Fiber optic bundles are assemblies of optical fibers bundled together in a specified

Explore the top 10 fiber optic cable manufacturers in India known for premium quality, cutting-edge technology, and

Fiber Cable Belden's extensive line of indoor and outdoor cable products is offered in tight buffer and loose tube designs. Armored,

We develop and manufacture fiber-optic solutions across the entire value chain. From preforms to

Industrial Fiber Optics is a world leader in manufacturing polymer and large-core silica optical fiber cable assemblies. We specialize

With 2 billion kilometers of fiber optic cables installed around the globe, Corning continues to lead the industry in product quality and

An authoritative 2026 guide to the top 15 fiber optic manufacturers -- from Corning and Prysmian to Fujikura and LS Cable -- with

Learn about the different types, features, and selection criteria for fiber optic cables. Tyclon provides a comprehensive guide to help

ETK Kablo is a leading Turkish manufacturer of fiber optic cables and low-voltage communication cables, supplying high-quality



Manufacturer of Two-Core Bundled Optical Cables

Manufacturer of specialized optical fiber, subassemblies, and hybrid photonic solutions. Products include multimode silica optical

Discover the best fiber optic manufacturers globally, offering cutting-edge multimode and single mode fiber solutions.

FiberTech Optica manufactures custom fiber optic bundles for distributing and shaping light in

Fiber bundles with two different core materials are offered. A high grade fused silica core transmits nearly

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