

Article Overview

OFS optical cables are high-performance fiber optic solutions designed for diverse applications, offering durability, flexibility, and specialized configurations for industrial, aerospace, and telecommunications use.

Overview

OFS, headquartered in the United States and part of Furukawa Electric Company, is a leading designer and manufacturer of optical fibers, cables, and specialty photonics solutions . Their optical cables are engineered for high reliability, environmental resistance, and performance across a wide range of operating conditions, including extreme temperatures, chemical exposure, and mechanical stress .

Types and Features

- o Standard Fiber Optic Cables: Composed of one or more transparent fibers enclosed in protective jackets and strength members, suitable for indoor and outdoor data communication . They include plenum, riser, and low smoke zero halogen (LSZH) options for safe installation in enclosed spaces .
- o Specialty Optical Fibers: Customizable for unique applications such as LIDAR, avionics, sensing, and distributed temperature or acoustic sensing (DTS/DAS). These fibers can feature non-traditional sizes, coatings, and operating wavelengths .
- o Industrial and Aerospace Cables: Examples include OFS 2.2 mm and 2.5 mm HCS fiber cables for industrial data communication, and FlightGuide aerospace cables designed for high-temperature and high-strength applications in aircraft .
- o Rollable Ribbon Cables: The R-Pack(TM) Rollable Ribbon (RR) Backbone Fiber Optic Cable allows mass fusion ribbon splicing while enabling easier individual fiber breakout, ideal for high-density, high-bandwidth premises applications .

Technical Specifications

A typical OFS fiber optic cable, such as the C10027, has the following characteristics :

- o Core Diameter: 50 +- 3 um
- o Coating Diameter: 450 +- 25 um
- o Cable Diameter: 1.8 +- 0.1 mm
- o Operating Wavelengths: 850 nm, 1300 nm
- o Attenuation: 4-6 dB/km These specifications ensure efficient light transmission, low signal loss, and compatibility with standard optical equipment.

Applications

OFS optical cables are widely used in:

- o Telecommunications and broadband networks for high-speed data transmission
- o Industrial automation and control systems
- o Aerospace and defense for aircraft and military vehicles
- o Sensing technologies including LIDAR, DTS, and DAS
- o Harsh environments requiring water-blocked, all-dielectric, or high-strength cable constructions

Advantages

- o Customizable designs for specific environmental and operational requirements
- o High durability and flexibility for installation in challenging conditions
- o Advanced materials for resistance to abrasion, chemicals, radiation, and temperature extremes
- o Support for high-density and high-bandwidth applications with rollable ribbon technology OFS continues to innovate in fiber optic technology, providing solutions that meet both standard and highly specialized requirements across multiple industries .

OFS is a world-leading designer, manufacturer and provider of optical fiber, optical fiber cable, connectivity, FTTX and specialty

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OPTION1(TM) DT O/I Cables - Fiber Optic Cable from OFS Global. Get product specifications, Download the Datasheet, Request a

About OFS OFS is a world-leading designer, manufacturer and provider of optical fiber, fiber optic cable, connectivity,

OFS is a designer/manufacturer/provider of optical fiber, fiber optic cable, connectivity, fiber-to-the-subscriber (FTTx) and specialty

Medical Grade Cables and Assemblies Lightera (formerly OFS) is a recognised leader in design and manufacturing of optical fibres,

Headquartered in the United States outside of Atlanta Georgia, OFS is a world-leading designer, manufacturer and provider of optical



OFS optical cable OFS optical cable

Lightera.com continues to present optical fiber, fiber optic cable, and connectivity solutions for customers who knew the brand as OFS.

OFS, a leading innovator in optical fiber, has expanded its global manufacturing capabilities

For years, Furukawa Electric Fiber and Cable, OFS Optics, and Furukawa Electric LatAm have led the way

Optical fiber manufacturer OFS has released this short video offering a tour of its United States manufacturing facility in Norcross,

Headquartered in the United States outside of Atlanta Georgia, OFS is a world-leading designer,

OFS designs and manufactures HCS® and other ruggedized communications-grade fiber optic cables and connectivity solutions for

From fiber optic ribbons in the 1970s and gel-free cables in the 2000s to today's AllWave® Full Spectrum and EZ

This legacy includes application specific fiber, optical connectors, ribbon cables, attenuators, hard clad

OFS provides high-strength fiber cables for use in various industrial, indoor, and outdoor applications. Offering unique properties and

Web: <https://www.morwarreconst.co.za>

