

Ribbon optical cable model designation



Article Overview

Ribbon optical cables come in various models, including standard flat ribbons, Intermittently Bonded Ribbons (FlexRibbon®), and Freeform Ribbon® designs, supporting fiber counts from 12 up to 6,912 for indoor, outdoor, and high-density applications.

Standard Ribbon Cables

Standard ribbon cables consist of multiple optical fibers arranged in flat ribbons, typically with 12 fibers per ribbon, which can be stacked to achieve high fiber counts ranging from 12 to over 3,456 fibers . These cables are designed for mass-fusion splicing, allowing all fibers in a ribbon to be spliced simultaneously, significantly reducing installation time. They are used in campus, building, and data center backbones, as well as FTTH feeder and distribution networks . Standard ribbon cables can be gel-free for easier cleaning and maintenance, and are available with flame-retardant jackets for indoor use or durable HDPE jackets for outdoor deployment .

Intermittently Bonded Ribbon (FlexRibbon®)

Prysmian's FlexRibbon® Technology introduces intermittent bonding between fibers, creating a flexible ribbon that can be rolled, folded, or routed in tight spaces without compromising performance . This design supports fiber counts up to 6,912 and is suitable for microduct, flat, and flame-rated cable constructions. FlexRibbon® cables maintain the advantages of mass-fusion splicing while offering superior handling, higher fiber density, and faster network deployment

Article Content

Feb 27, 2026

Decoding the Fiber Optic Color Codes

Ribbon fiber cables and multi-fiber push on (MPO) cables also adhere to the TIA-598-C color sequence (Figure 4). In fiber splicing, fibers of similar colors and numbers are typically spliced together to

Feb 08, 2026

3 types of fiber optic cables: Choosing Between Single Mode, Simplex ...

It is essential to recognize that each type of fiber optic cable—single mode, simplex, and ribbon—boasts distinct characteristics tailored to cater to different scenarios. First, single mode

Nov 17, 2025

TIA-598-C

It defines identification schemes for fibers, buffered fibers, fiber units, and groups of fiber units within outside plant and premises optical fiber cables. This standard allows for fiber units to be identified by

Feb 05, 2026

CORNING OPTICAL COMMUNICATIONS GENERIC SPECIFICATION FOR OPTICAL

2.1 Detailed information on the optical fiber types available for this ribbon design can be found in the following documents: Dispersion Unshifted and Non-Zero Dispersion-Shifted Single-mode Optical

Oct 10, 2025

AEN029 Optical Fiber Cable Color Codes

Corning Optical Communications supports the adoption of TIA/EIA-598 because it promotes standardization throughout the optical fiber cable industry. Corning Optical Communications has

Aug 22, 2025

Ribbon Fiber Cable A comparison with Non-Ribbon Cable_october copy

What is a Ribbon Optical Cable? Optical fiber ribbons are made up of individual fibers aligned in a single row then impregnated with an acrylate UV curable resin. Multiple individual optical ribbons can be

Oct 05, 2025

CORNING OPTICAL COMMUNICATIONS GENERIC

1.2 All ribbons shall comply with the optical fiber ribbon requirements of ANSI/ICEA S-87-640-2006, "Standard for Optical Fiber Outside Plant Communications Cables," and IEC 60794-3, "Optical Fiber

Aug 14, 2025

Comparison and Selection of Different Types of Ribbon

Ribbon fiber optic cables, crucial to modern fiber optic communication, are widely utilized in various network infrastructures due to their

Jan 25, 2026

What Is Ribbon Fiber Optic Cable? Advantages & Applications?

Ribbon fiber optic cable are fiber optic cable that using optical ribbon fiber. Normally each ribbon can consist of 4, 8, 12 or 16 fibers with different colors.

May 31, 2026

CORNING OPTICAL COMMUNICATIONS GENERIC

2.0 Fiber Specifications 2.1 Detailed information on the fiber types available for this cable design can be found in the following documents: Dispersion Unshifted and Non-Zero Dispersion-Shifted Single

Aug 02, 2025

Fiber Optic Cable Types – Multimode and Single Mode

Fiber Optic Cable Types – Multimode and Single Mode Application Fiber Optic connectors and cables are present in nearly every communications

Nov 03, 2025

RPX® Gel-Free Ribbon Cable | Ribbon Cable | Corning

RPX® Gel-Free Ribbon Cable is an innovative solution that provides an ideal alternative for a variety of connectivity needs.

Jul 22, 2026

Ribbon Fiber Cable

Relative to cable size, Flexible Ribbon Cable provides the highest connectivity density to make every square foot count. Its small OD and superb flexibility make

Aug 06, 2025

Ribbon Optical Cable | High-Density Outdoor Fiber Cable for

Need high-density fiber cabling? Compare ribbon optical cable types like GYDTA, GYDXTW, and GYDGA. Learn how to select the right armored or dielectric cable for your application.

Jul 09, 2026

What is fiber optic ribbon cable? What are the

Optical fiber ribbon cable refers to the optical fiber cable in which the optical fiber in the cable adopts the optical fiber ribbon structure, and the optical

Jan 02, 2026

Ribbon cable

Left: 20-way grey ribbon cable with wire for pin 1 marked red, insulation partly stripped. Right: 16-way rainbow ribbon with IDC connector. IDC D-sub connectors DE-9 (male) and DA-15 (female) Twisted

Apr 30, 2026

The FOA Reference For Fiber Optics

The text on the cable starts with the Corning product name "Corning Rocket Ribbon (TM) Optical Cable," date of manufacture "01/2022" and a serial number. The phone handset graphic denotes this as a

Jan 06, 2026

Ribbon Fiber Cable

Ribbon Fiber Cable As trends like virtualization and convergence bring increased traffic to 40G/100G data centers, cable with high fiber counts is needed to

Aug 17, 2025

Fiber Optic Cable Types Explained

Our comprehensive guide to types of fiber optic cables. Learn all about the differences between single mode and multimode cables, as well as the various fiber wavelengths and standard core sizes used

Aug 30, 2025

Fiber Optic Cable Types – Multimode and Single Mode

Single Mode fibers are identified by the designation OS or Optical Single-mode Fiber. Single Mode cable has a much smaller core (8-9um) than multimode cable and uses a single path (mode) to carry the light.

Aug 04, 2025

Ribbon Fiber Optic Cable | Ribbon Cable | Corning

Fiber Optic Ribbon Cable Ribbon cables offer higher fiber counts and greater fiber density than any other cable construction designed for the outside plant (OSP), four times the highest-fiber-count

Mar 31, 2026

FlexRibbon® Technology | Prysmian

Ribbon Fiber Cables (RFC) are high-density fiber-optic cables where individual fibers are arranged in a matrix-bonded flat row. This design allows for space

Nov 28, 2025

CORNING OPTICAL COMMUNICATIONS GENERIC

The outer cable jacket shall be marked with the manufacturer's name or ETL file number, date of manufacture, shop order number, optional SOC code (SR#####), listing symbol, fiber count,

Apr 07, 2026

A Comprehensive Guide to Ribbon Cables

A ribbon cable is a type of optical fiber cable design consisting of multiple fibers that are fused together into a flat ribbon.

Oct 08, 2025

Characteristics of Ribbon Cables

What is Ribbon Cable? The exact name for ribbon cable is fiber optic ribbon, which consists of flat ribbons. This is achieved by making a series of individual fibers and laying them down and bonding

Jun 01, 2026

What is Ribbon Fiber Optic Cable? A Guide to Its Benefits

Explore what ribbon fiber optic cable is. Our guide covers its flat structure, types, and key benefits like mass fusion splicing and space-saving design for high-density data centers.

Jun 15, 2026

Ribbon Fiber Cable | FS

These cables are organized with 8/12-fiber ribbons inside a central tube that are surrounded by dielectric strength members and a specially formulated flame-retardant outer jacket.

Sep 05, 2025

RocketRibbon Solutions Guide

Conventional 12-fiber ribbons are maintained for installer familiarity, and each ribbon is printed with a unique ID for fast identification and efficient fiber splicing management.

Aug 10, 2025

Opti-Core 12 to 96 Fiber Indoor Ribbon Cable

Compact design Has smaller diameter and bend radius than non-ribbonized loose tube cables; easier to install

Nov 11, 2025

12-Fiber Ribbon Cables with MPO/MTP Connectors: 2026 Guide

Technical buyer's guide to 12-fiber ribbon cables with MPO/MTP connectors, evaluating Base-12 legacy support, DCI applications, and high-density termination.

Contact Us

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