COMMSCOPE®

FiberGuide® system

CommScope's FiberGuide® fiber cable management system is a trough system designed to protect and route fiber-optic patch cords, multi-fiber cable assemblies, and intra-facility fiber cable (IFC) to and from fiber splice enclosures, fiber distribution frames, and fiber-optic terminal devices. The FiberGuide system is designed to ensure that a 2-inch (5-cm) minimum bend radius is maintained throughout the system. This document provides an overview of the strengths of the FiberGuide system, and key questions to ask when comparing FiberGuide to other fiber cable management systems.

Basic components include:

Horizontal and vertical straight sections	Horizontal and vertical elbows
Downspouts	Junctions
Support hardware	Flex vertical kits
Cut-in T transitional section	Expandable straight section

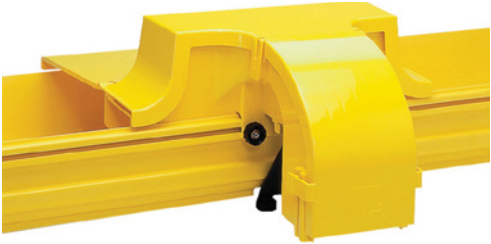The FiberGuide system is available in a variety of sizes:

- 2x2— Ideal for smaller installations or vertical routing of a maximum of 821 2-mm patch cords. All 2x2 FiberGuide products are shipped with cover.
- 2x6—Designed for height-restricted environments with a maximum capacity of 2,687 2-mm patch cords.
- 4x4—Maximum trough capacity to support 3,509 2-mm patch cords, 4.8 lbs/ft.
- 4x6—Maximum trough capacity to support 5,151 2-mm patch cords, 7.1 lbs/ft.
- 4x12—Maximum trough capacity to support 10,080 2-mm patch cords, 14.2 lbs/ft.
- 4x24—Maximum trough capacity to support 19,937 2-mm patch cords.

The FiberGuide advantage

- Easy on-site raceway reconfigurations system: Cut-in T, Express Exit™ and expandable straight section.
- Guaranteed 2-in (5-cm) bend radius
- Express Exit™ offerings
- Covers available for each system

Following are a few questions to ask when comparing FiberGuide to other fiber cable management systems.

CommScope	Questions for competing systems
Material All parts are made using ABS (acrylonitrile butadiene styrene) and low-smoke, non-brominated and non-chlorinated flame-retardant material. Operating temperature to 70°C.	**What is the material type of the system?** Many companies use PVC which is prone to deformation and requires support brackets more frequently than FiberGuide. **What is the operating temperature for the competing system?** To ensure no deflection in the raceway, the higher the operating temperature the less likely it is to deform during start-up and if near a heat element.
Compliances Complies to: • National Electrical Code (NEC) Article 770-51 (C). • **Telcordia GR-63-CORE**, issue 1, Network Equipment Building Systems (NEBS) Requirements: Physical Protection • **Telcordia GR-487**, Generic Requirements for Electronic Equipment Cabinets • **UL-94** Specifications for Flammability Testing of Materials • **UL-2024** Standard for Optical Fiber Cable Raceway Eco Compliancy: Meets material requirements of **RoHS, REACH**, and **Blue Angel (RAL-UZ-78)**	**Does the competing system meet the same requirements?**
Straight section Stronger and rigid architecture that enables self support over a span of up to 5 feet. Highest quality on the market as seen by how straight the profile is. 	**What is the maximum distance allowed between support brackets?** Generally, the farther apart the brackets, the stronger the raceway. **Do the straight sections have deformation in the structure?** This usually is shown by sections being wavy. When installing a junction, a hammer will be needed or a lot of manipulation as the deformation will not match up with the junctions structure which will greatly increase install time and labor needed.

CommScope	Questions for competing systems
Junction kit Whole snap-on junction kit is made of ABS without any metallic parts. There is an easy-push bottom lock and unlocking mechanism for installation/removal of junction kit without using any tools. To shorten installation time, all junctions arrive configured for the locked position. **Snap-Fit junction is seismic tested and certified to NEBS zone 4.**	**Are tools required to install/remove junctions and modify straight sections to fit with junctions?** Installation and removal time significantly increases if tools or hardware are required.
Downspout drop **Express Exit™** available in many different sizes. No cutting of the FiberGuide system is required. Installation by simply securing an Express Exit™ to the sidewall of any FiberGuide systems.	**Is cutting required to add a downspout? Is the installation of the downspout tool-less? What are the different size options?**
Low-profile Express Exit™ designed for low-ceiling or height-restricted environment.	**Is there a low-profile option?**
Color Resin is colored yellow or black, not painted. Scratching will not affect color.	**Is the resin painted? How does this affect LSZH properties?**

CommScope	Questions for competing systems
Flex Vertical Kits Designed for quick installation that avoids pinching fibers and fingers with it's open face concept. It provides a visual to the fibers inside making it easy to identify fibers to be manipulated as needed. 	**Does the competing system match the Flex Vertical's capabilities and easy installation?** Typically flex tubing is used which is difficult to work with because it pitches and tends to loosen up over time creating an unappealing look. Flex tubing does not allow the technician to see inside to quickly identify fibers.

Technical service support without an additional charge

CommScope offers a rich history of technical assistance and customer service. We provide global technical assistance to meet our customers' needs and timelines. A representative is available 24/7 to assist in emergency situations concerning CommScope products.

Technical Assistance Centers (TACs) are staffed throughout the world with experienced telecom engineers ready to answer any network, product, or application question. There are three Connectivity TACs for passive products—Brussels, Belgium; Minneapolis, Minnesota; and Singapore—to serve you.

LET'S GET STARTED.

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