

What size is the 6-hole corrugated optical cable protective sleeve



Overview

Corrugated Sleeves | McMaster-Carr Choose from our selection of corrugated sleeves, including over 36,300 products in a wide range of styles and sizes. Same.

Key Takeaways

A 6-hole corrugated optical cable protective sleeve is a flexible, multi-channel conduit designed to protect and organize multiple optical fibers, typically made from PA6, PA12, or PE materials.

Corrugated protective sleeves are used to shield optical cables from mechanical abrasion, moisture, chemicals, and UV exposure while allowing flexibility for routing in industrial, railway, or renewable energy applications. A 6-hole sleeve allows six individual cables or fiber bundles to be routed separately within a single protective conduit, improving organization and reducing interference.

Material Options

- Polyamide (PA6 or PA12): Offers high impact strength, chemical resistance, and flexibility. PA12 is particularly UV-resistant and suitable for outdoor applications.
- Polyethylene (PE-LD): Lightweight, halogen-free, and resistant to UV and chemicals, suitable for indoor and outdoor installations.



- Aluminum or fiberglass layers: For heat-reflective or high-temperature applications, withstanding temperatures up to 900°F .

Design Features

- Slit or closed design: Slit sleeves allow lateral insertion of cables without disconnecting existing wiring, while closed sleeves provide maximum protection .
- Flexible and bendable: Corrugated structure allows bending around corners and tight spaces without kinking .
- Self-extinguishing and halogen-free: Many PA6/PA12 sleeves meet UL94 V2 standards for fire safety .
- Fittings and holders: Compatible with conduit holders, snap-on or hinged covers, and multi-hole mounting plates for secure installation .

Installation Considerations

- Hole pattern: Ensure the 6-hole configuration matches the cable diameters and spacing requirements.
- Length and diameter: Available in reels or pre-cut lengths; select based on cable bundle size.
- Environmental resistance: Choose material based on exposure to UV, chemicals, or temperature extremes.
- Accessories: Use compatible end caps, splitters, or mounting brackets to maintain protection and organization .

Applications

- Industrial machinery and robotics
- Control panels and switch cabinets
- Outdoor fiber optic networks
- Railway and transportation systems
- Renewable energy installations By selecting a 6-hole corrugated sleeve made from PA6 or PA12, you ensure organized routing, mechanical protection, and long-term durability for multiple optical cables in demanding environments .

Article Content

Cable Sleeves, Tubing & Wraps

Panduit's cable sleeves, tools, and wraps are high-quality to protect wires, cables, and tubing against abrasion. Find your Panduit

Corrugated sleeve, Corrugated conduit

The 90° angled conduit fitting CONFiX™ FWS is for installation of parallel corrugated cable protection conduits, e.g. in machines,

Fiber Optic Sleeve Size Chart: Find the Right Fit

Need the perfect fiber optic sleeve size? Check our detailed size chart for accurate fits. Click to explore top-rated,

Corrugated Sleeves | MSC Industrial Supply Co.

Corrugated Sleeves | MSC Direct offers quality Cable Sleeves at a great value. Find premium products to last a lifetime!

Fiber Optic Cable Protection Sleeve

We offer packs of 45mm and 60mm optic fiber protection sleeves that provide vital protection such as mechanical protection and

Cable Protection Systems

The cable protection products range from high-quality plastic and metal conduits through corrugated tubing, wiring ducts, spiral

2806031-01 | Splice Protectors Heat-Shrink Fusion Splice Protector ...

2806031-01 Splice Protectors Heat-Shrink Fusion Splice Protector Parts, Single-fiber, 60 mm long Typically ships in 14 day (s) Actual

Fiber Splice Protection Sleeves

Ribbon Fiber Optic Splice Sleeves This fiber optic splice sleeves are used for ribbon optical fiber fusion protection, its max capacity is

100pcs Clear Fiber Fusion Splice Sleeve Kit, 2.6mm 60mm

Clear sleeve make it easy to detect splice before shrinkage; Easily use and avoid any damages to the optical fiber during installation.

The FOA Reference For Fiber Optics

Cable provides protection for the optical fiber or fibers within it appropriate for the environment in which it is

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Cable tray manual

Type MI and Optical-Fiber cables are special application cables that are desirable cables for use in some cable tray wiring systems.

Split Loom Tubing Wire Conduit, Orange Corrugated Wire Tube Cable ...

About this item □Size□- Corrugated Wire Conduit OD 15mm, 3 meters long. Package included 2pcs 3 meters Orange corrugated

Corrugated plastic tubing cable protection

Corrugated plastic tubing is cable protection that can fulfill a variety of protective tasks. Depending on the thickness and design, the

Splice Protectors | Corning

Corning heat-shrink sleeves are compatible with most splice trays offered and are compatible with all heat-shrink ovens offered with

Pipes for underground cable protection

innovative conduit systems for advanced and efficient applications EVOPIPES offers its customers innovative products for electrical

CORRUGATED OPTIC DUCT HDPE FLEXIBLE PIPE

Corrugated optiC duCt(Cod) Laying of COD through/under hurdles. Installation along with bridge: COD with UV protection. Inlet of

Comprehensive Guide to Fiber Optic Splice Sleeve

A Fiber Optic Splice Sleeve is a protective tube designed to encase a fusion splice—the point where two optical fibers

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