

Protective sleeve for pigtail to right angle bend

Article Overview

Bend-protection sleeves or strain reliefs are ideal for protecting pigtail cables at right-angle bends, preventing kinks and extending cable life.

Types of Protective Sleeves

Bend-protection sleeves are available in various materials and designs to suit different cable types and applications:

- o PVC, TPE (thermoplastic elastomer), and neoprene/chloroprene: These materials offer flexibility, durability, and resistance to temperature and mechanical stress, making them suitable for industrial and networking environments .
- o Two-piece strain relief sleeves: These provide additional clamping and support at the bend, reducing stress on the cable and connector .
- o Grommet-style sleeves: Made from polyurethane elastomer, polyethylene, or polyamide, these can be installed without tools and comply with safety standards .

Application for Right-Angle Bends

For pigtail cables that bend sharply, such as RJ45 or SC-RJ connectors:

- o RJ45-specific bend protection sleeves are available for cable cross-sections up to 6-7 mm, often in molded designs that prevent bending at the connector interface .
- o Inverted or angled sleeve designs allow the cable to exit at a right angle while maintaining strain relief, which is particularly useful in tight panel or switch installations .
- o Customizable lengths and collars: Some sleeves come with shoulders, grooves, or collars to fit specific cable diameters and ensure a secure fit .

Choosing the Right Sleeve

When selecting a protective sleeve for a right-angle pigtail:

- o Measure the cable diameter to ensure compatibility with the sleeve.
- o Select the material based on environmental conditions (e.g., TPE for high temperature or halogen-free requirements).
- o Consider additional strain relief if the cable will experience frequent movement or mechanical stress.
- o Check connector compatibility, especially for RJ45 or SC-RJ pigtails, to ensure the sleeve fits without obstructing the connector .

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Suppliers and Options

- o ETTINGER GmbH: Offers a wide range of bend-protection sleeves, including two-piece strain reliefs and grommets for industrial and medical applications .
- o Phoenix Contact: Provides RJ45 and SC-RJ bend protection sleeves, including molded strain reliefs for right-angle cable exits .
- o Prechter + Renner: Supplies anti-kink sleeves in TPE, PVC, and chloroprene rubber for reliable cable protection .

Using a bend-protection sleeve or strain relief ensures that pigtail cables maintain signal integrity, reduce wear at the bend, and comply with safety standards, making them essential for both industrial and networking installations.

Bend protection Kink protection in different colours Cable bend relief sleeves are used for the mechanical protection of cables against

High-quality bend protection sleeves for optimum cable protection and durable connections. Ideal for industrial applications.

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Cable bend relief sleeves are used for the mechanical protection of cables against excessive bending directly at the connector. They

Cable bend relief sleeves are used for the mechanical protection of cables against excessive bending

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Bend-protection sleeves at the enclosure outlet prevent the cables from being damaged due to kinking, which can result in electronic

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