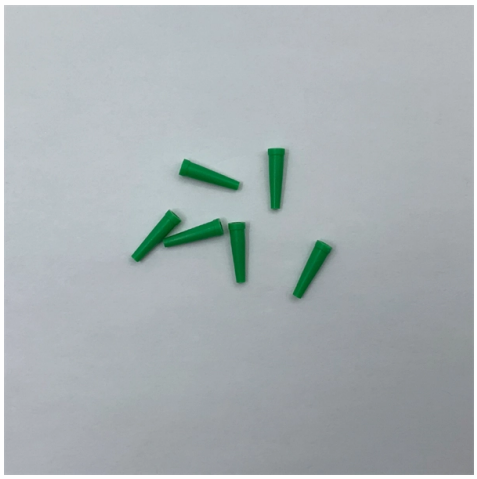
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Waterproof Operation Guide for Fiber Braided Tubing



Overview

Types of Braided Hose: How to Choose the Best Hose for Your ProjectDiscover different types of braided hose and learn how to choose the best hose for your.

Key Takeaways

Proper handling, installation, and protection of fiber braided tubing ensures waterproof performance and long-term reliability in harsh environments.Inspection and Preparation

Before installation, inspect the fiber braided tubing for any visible damage, kinks, or abrasions. Ensure the cable length is sufficient for the planned run and that the reels are stored with battens intact to prevent deformation or water ingress during storage . Always wear protective gloves and steel-toed boots when handling heavy reels . Verify that the tubing and connectors are compatible with the intended environment, particularly for outdoor or wet conditions .

Handling and Pulling
• Use cable strength members for pulling; avoid pulling directly on the jacket unless the design allows it .

• Do not exceed the maximum pulling tension specified by the manufacturer to prevent fiber breakage .

• Maintain a minimum bend radius of at least 20 times the cable diameter during installation and 10 times the diameter after installation .

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• For long runs, consider midspan pulls or center pulls to reduce stress on the fibers .

• Use lubricants compatible with the cable jacket when pulling through conduits or innerducts .

Securing and Clamping

• Use plastic clamps with large surface areas to avoid pinching or squeezing the tubing .

• Clamp at frequent intervals for vertical installations to prevent excessive weight on the cable and maintain waterproof integrity .

• Avoid sharp edges or abrasive surfaces along the cable route that could compromise the braided jacket .

Connector Installation

• For waterproof applications, use NSN fiber optic connectors or equivalent IP67-rated assemblies .

• Ensure connectors are factory-terminated and maintain the integrity of the waterproof boot.

• Clean fiber ends and transceivers with optical-grade wipes, swabs, or canned air to prevent contamination and signal loss .

• Avoid back-and-forth scrubbing; use a circular or straight wiping motion and a fresh swab for each connector .

Environmental Considerations

• Keep the tubing clear of power cables and high-temperature machinery .

• Ensure the route is free of standing water, sharp objects, or uneven terrain that could damage the cable .

• For outdoor installations, verify that the tubing and connectors are rated for UV exposure, dust, and moisture .

Maintenance

• Periodically inspect the tubing and connectors for wear, water ingress, or contamination.

• Replace or reseal any damaged sections immediately to maintain waterproof performance.

• Follow manufacturer-specific guidelines for long-term load limits and environmental exposure . By following these steps, fiber braided tubing can maintain waterproof integrity, optical performance, and mechanical reliability in both indoor and outdoor applications.

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