Compatibility & Installation Guide

All FXN Rope sizes and supplied lengths | Industrial use

Scope: All FXN Rope sizes and factory-supplied lengths, including FireXNull-approved custom lengths. For industrial use in enclosed electrical and electronic equipment. Standard lengths below are supplied as one coil per unit. Custom lengths require FireXNull project-specific sizing.

1. Select the Supplied Length

Supplied length	Enclosure volume reference
3.3 ft (1.0 m)	Up to 30 L
7.55 ft (2.3 m)	65-100 L
10.83 ft (3.3 m)	Up to 200 L
14.76 ft (4.5 m)	Up to 300 L
20.67 ft (6.3 m)	Up to 500 L
27.56 ft (8.4 m)	Up to 750 L
34.45 ft (10.5 m)	Up to 1,000 L
46.59 ft (14.2 m)	Up to 1,500 L
59.38 ft (18.1 m)	Up to 2,000 L

References are from Rope TDS V3.6 and are manufacturer selection guidance, not an independent fire rating or a guarantee for every enclosure. Use the liter values for sizing decisions. Do not interpolate rope length or assume multiple coils have additive capacities.

2. Measure and Review the Enclosure

- Measure internal height, width and depth in consistent units. For centimeters: liters = H × W × D ÷ 1,000. For inches: liters = H × W × D × 0.016387. Review unusual shapes and separate compartments with FireXNull.
- If enclosure volume falls between listed sizes, choose the next larger size. Example: 60 × 45 × 30 cm = 81 L, within the 65-100 L reference for the 2.3 m supplied length.
- For significant air leakage, vents, active forced cooling, unusual ignition risks, non-standard routing or volumes above 2,000 L, obtain FireXNull application guidance before selection.
- Custom lengths must be supplied and sized by FireXNull. Do not cut a standard coil to make a custom size. The selected length must also fit the approved route without sharp bends or obstruction.

3. Environment and Application Fit

Use only in enclosed industrial electrical or electronic equipment. Normal sustained ambient temperature must be ≤ 149°F (65°C), with ≤ 80% RH, non-condensing. Typical applications include distribution/control cabinets and OEM electrical enclosures. High-airflow or battery-related equipment requires assessment of the actual hazard and enclosure conditions.

Rope nominal diameter is 0.20-0.28 in (5-7 mm). Confirm routing, mounting hardware and electrical clearances for the actual supplied product. It is not an electrical insulator or a wire connector.

FireXNull Inc. | Irvine, CA 92618, USA | support@firexnull.com | +1 (888) 969-0010 | FireXNull.com

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WARNING - ELECTRICAL SHOCK HAZARD
Turn OFF and isolate the applicable power supplies, and verify that the circuit and equipment are de-energized before installation, inspection, removal or adjustment. Electrical work must be performed by a person qualified for the equipment and task. If you cannot verify safely, contact a qualified electrician. In workplaces, follow applicable electrical safe-work and lockout/tagout procedures, including OSHA 29 CFR 1910.333(b).

Wear heat-resistant work gloves, safety glasses with side shields and standard work clothing for handling and installation. These gloves are not electrical-shock protection. Follow equipment-specific electrical-safety procedures and SDS requirements.

4. Plan Routing and Mounting

- Route horizontally along the upper interior of the enclosure, above likely ignition sources and exposed to rising heat. Keep clear of moving parts and avoid any location where closing the enclosure could pinch or damage the rope.
- Route near expected ignition points such as terminations, busbars and breakers while preserving required electrical clearances, insulation, grounding, access and equipment operation. Do not place directly on energized parts.
- Use smooth bends without kinks or deformation. Follow any minimum bend radius in the supplied installation instructions. If no radius is provided and the route requires a tight bend, obtain FireXNull guidance before installation.
- Other placements, including an interior door or non-horizontal routing, require application-specific confirmation from FireXNull. Do not assume a general placement illustration establishes suitability.

5. Installation Sequence

1. Confirm the selected supplied length, approved route, intact unused product and install-by date. Isolate all applicable power supplies and verify de-energization.
2. Prepare clean, dry mounting locations. Secure with the supplied magnetic mounting hooks, brackets or cable ties at intervals of 6 to 12 in (15 to 30 cm). Confirm the supports remain stable and do not pinch, crush or damage the rope.
3. Do not cut, puncture, crush, kink, sharply bend, machine or modify the rope. Do not cover with insulation, barriers, labels, tape or dense wiring bundles that could delay heat transfer.
4. Check the full route for secure support, heat exposure and clearances. Verify that the enclosure closes normally and the rope cannot contact moving parts or be pinched.
5. Record supplied length, lot/date code, location, installation date and replacement date. Close the enclosure and restore power only under the applicable safe-work procedure.

6. Care and Protection Boundaries

Activation	428°F ± 9°F (220°C ± 5°C), at the rope.
Inspection	At least annually; more often if site conditions require.
Replacement	Single use. Replace after any known or suspected activation; otherwise up to 5 years under specified conditions, sooner for damage or abnormality.

Not for open-air, structural or grease fires, consumer use or occupied-space life-safety protection. Does not replace required electrical protection, alarms, extinguishers, sprinklers or other code-required systems. No guaranteed fire suppression or battery thermal-runaway/propagation prevention. Minor rope-matrix residue may remain after activation.
Replacement intervals are maintenance guidance, not a warranty. See the Use & Care Guide and separate 1-Year Limited Warranty for complete care, replacement and warranty terms.
Companion documents: TDS-FXN-RPE-001-US V3.6; SDS-FXN-RPE-001-US V4.0; FXN-RPE-UC-001-US V1.0; FXN-RPE-CIG-001-US V1.0; FXN-RPE-WTY-001-US V1.0.

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