

Price of steel and aluminum cable tapes for optical fiber

Article Overview

Steel and aluminum armor tapes for optical fiber cables typically range from \$1.50 to \$5.00 per meter, depending on material, thickness, and supplier.

Overview

Steel and aluminum tapes are used to armor optical fiber cables, providing mechanical protection, tensile strength, and environmental resistance. Steel tapes are generally preferred for high tensile strength and duct applications, while aluminum tapes offer better corrosion resistance and lighter weight, making them suitable for aerial or duct installations .

Price Factors

o Material Type:

- o Steel tape: Usually lower cost than aluminum but heavier; prices vary with steel grade and coating (e.g., galvanized or chrome-coated) .
- o Aluminum tape: Higher cost due to corrosion resistance and lighter weight, often used in GYTA cables for longer service life .

o Tape Thickness and Width:

- o Thicker tapes provide more protection but increase material cost.
- o Standard steel tape thickness ranges from 0.15 mm to 0.4 mm, while aluminum tapes are typically 0.1 mm to 0.3 mm .

o Coating and Lamination:

- o Copolymer or polyethylene coatings improve adhesion and environmental resistance, slightly increasing cost .
- o Laminated tapes with UV or moisture protection are more expensive but essential for outdoor or direct-burial applications .

o Supplier and Volume:

- o Bulk orders from manufacturers like IMG LLC or Hengming Metal Products can reduce per-meter cost .
- o Regional suppliers may have different pricing due to shipping, tariffs, and local material costs.

Typical Price Range

- o Steel armor tape: \$1.50-\$3.50 per meter for standard thickness and coating.
- o Aluminum armor tape: \$2.50-\$5.00 per meter, depending on thickness, lamination, and corrosion-resistant

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features. For precise pricing, it is recommended to contact suppliers directly such as IMG LLC in North America or Hengming Metal Products in China, as prices fluctuate with material market rates, order quantity, and customization requirements .

Conclusion

The cost of steel and aluminum cable tapes for optical fiber depends on material, thickness, coating, and supplier. Steel is generally more economical and stronger, while aluminum offers better corrosion resistance. For accurate procurement, requesting quotes from multiple suppliers is the best approach to ensure competitive pricing and suitable specifications.

This article examines the key components that make up a fiber optic cable including the core, cladding, coating,

Bright Side Laminated PPGL Steel Tape for Fiber Optic Cable, Find Details and Price about Steel Tape

As a premier online bulk cable company, CableWholesale carries a large inventory of computer cables, USB, HDMI, fiber optic, VGA

Steel Tapes are unique materials for the Optical Fiber and special cable applications which need specific properties on armouring

ARMOR TAPES Armor Tapes for Fiber Optic and Power Cables IMG is the largest manufacturer of steel and aluminum armor tape

Direct buried fiber optic cable is a kind of optical cable which is armored with steel tape or steel wire outside. With performance of

The Aluminium and Steel Copolymer Coated Tapes that we supply are produced by reputable manufacturers and provide reliable

AFL's AlumaCore OPGW (Optical Ground Wire) combines lightweight aluminum construction with

Steel Plastic Composite Tape is a laminated material consisting of a thin steel strip coated or sandwiched between

Fiber Savvy offers armored fiber cables with two different types of armor: standard corrugated steel armored cable and aluminum

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Our Non-Conductive Single-Layer Water Blocking Tape are laminated by polyester non-woven fabric layer and super swelling water

Aluminum Polyester Tape for Optical Fiber Cable is a critical shielding and protective material used extensively in the construction of

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Wholesale Fiber optic cable price can be vary from \$0.3 to \$4 per meter. It depends on the

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