Chrome-plated steel tape for optical cable



Overview

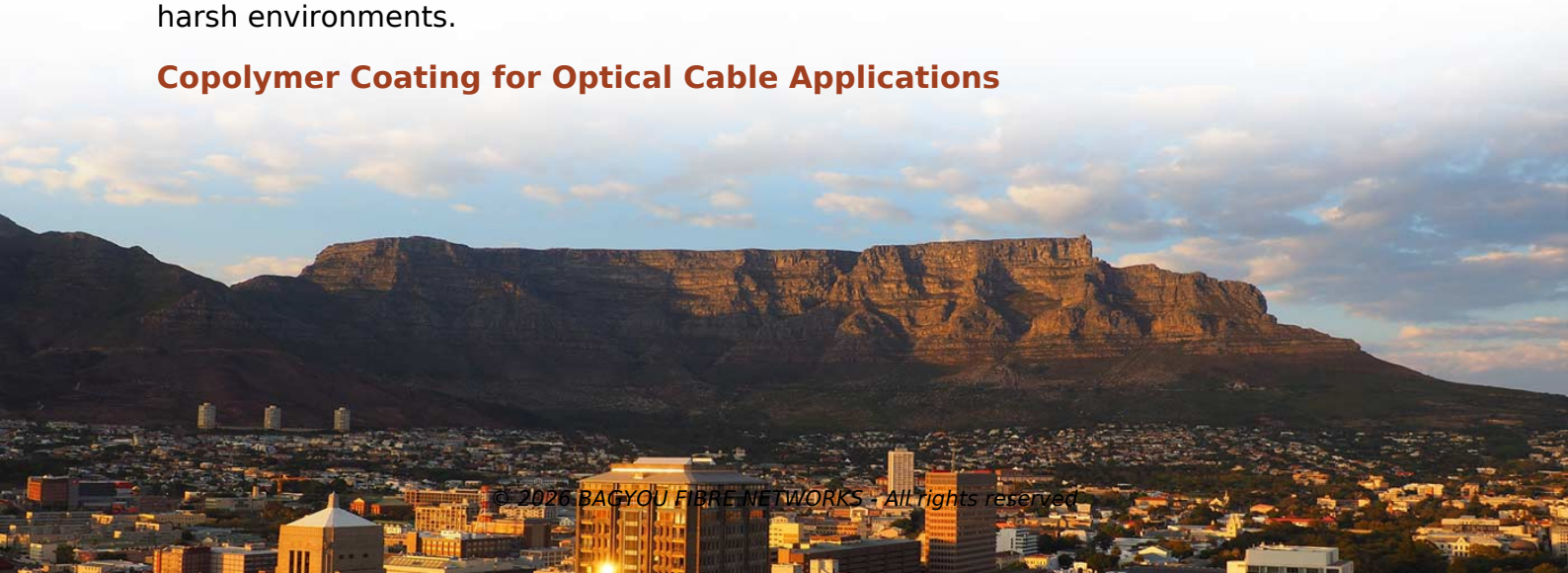
Copolymer Coated Steel Tape 1. Application Copolymer coated steel tape is used for communication optical Cable and shielding cable and waterproof cable. 2.

Key Takeaways

Chrome plating of steel tape for optical cables is typically performed using electrolytic deposition with lead or lead-bismuth anodes, followed by copolymer coating for mechanical protection and corrosion resistance. Chrome Plating ProcessChrome-plated steel tape is produced by electrolytic deposition of chromium onto cold-rolled steel. The process involves: Electrolytic bath setup: The steel tape is immersed in a chromium-containing electrolyte.

Insoluble anodes made of lead or lead-bismuth alloys are used to conduct current without dissolving into the bath, ensuring uniform deposition. Chromium ion maintenance: The concentration of chromium ions in the electrolyte is periodically adjusted by adding chromium compounds to maintain consistent plating quality. Surface protection: The metallic chromium layer provides corrosion resistance, prolonging the service life of the steel tape and enhancing its durability in outdoor or harsh environments.

Copolymer Coating for Optical Cable Applications



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After chrome plating, the steel tape is often laminated with a copolymer layer on one or both sides to improve adhesion, mechanical protection, and compatibility with cable sheaths: Materials: Common coatings include ethylene-acrylic acid (EAA) copolymer, EVA, or polyethylene layers. Function: The copolymer coating provides mechanical protection against crushing, twisting, and rodent damage, while also enhancing water-blocking and moisture-proof properties. Application: Coating is applied via precise film coating lines, ensuring uniform thickness, smooth surface, and strong adhesion to the chrome-plated steel substrate.

Quality and StandardsChrome-plated steel tape for optical cables must meet telecommunication industry standards (e.g., China YD/T723. 3) for chemical composition and mechanical properties. The final product should be smooth, uniform, free from wrinkles, impurities, or edge deformation, ensuring reliable performance during cable manufacturing and installation.

Summary

The production of chrome-plated steel tape for optical cables involves electrolytic chromium deposition on steel tape, followed by copolymer lamination to enhance mechanical strength, corrosion resistance, and compatibility with cable sheaths. This combination ensures long-term durability, protection against environmental stress, and reliable performance in fiber optic cable applications.

Article Content

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The Advantages of Chrome-Plated Steel Tape in Optoelectronic Devices

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Premium Electro Chrome Steel Tapes for Fiber Optic Protection

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Chrome Plated Steel Belt for Optical Cable

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Steel Tape Armored fiber optic cable China

Steel tape armoring involves wrapping or wrapping one or two layers of chrome-plated steel or stainless steel tape inside the sheath and outside the cable core of the optical cable.

Stainless/Steel tapes_QINGDAO HETIAN

CCST consists of a steel tape coated on both sides with adherent ethylene copolymer. Steel tape is made of chrome-plated cold-rolled steel tape, its

COPOLYMER COATED STEEL TAPE

Copolymer Coated Steel Tape (also called CCST) is mainly used as a shield and moisture-proof layer inside the "jacket" of a communication cable, optical fiber (or

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