New Japanese Optical Cable Winding Tube



Overview

The 13824-core SWR®/WTC® cable is specifically designed for hyper-scale data centers, implementing a fixed intermitted multi-core fiber ribbon system (Spider Web Ribbon®: SWR®) combined with Fujikura's proprietary thin, high-density fiber optic cable technology (Wrapping. The 13824-core SWR®/WTC® cable is specifically designed for hyper-scale data centers, implementing a fixed intermitted multi-core fiber ribbon system (Spider Web Ribbon®: SWR®) combined with Fujikura's proprietary thin, high-density fiber optic cable technology (Wrapping. The world's highest-multi Fiber Optic Cable "13824-fiber SWR TM /WTC TM wins the "Awards for Excellence" at 2025 Nikkei Excellent Products and Services Awards. has unveiled its world-leading super-multi-core fiber optic cable, the 13824-core SWR®/WTC®, which recently won the prestigious Grand Prize at the 2025 Nikkei Excellent Products and Services Awards. This remarkable. To realize the information and communications infrastructure that supports the evolution of IoT (Internet of Things), it is essential to establish an optical communications network that exceeds the existing transmission capacity limits. Optical fibers will play a central role in this. NTT's IOWN. - Fujikura invests ¥45B in a new optical fiber plant to boost capacity by 30%, leveraging DX/GX tech for cost efficiency and ESG alignment. - The company collaborates with Tokyo University on fusion energy, advancing Japan's 2030 commercialization goals and 2050 carbon neutrality. Easy Installation Thin and lightweight feature enabling low cost construction and space saving, High flexibility. Long unit length Max length up to 12km per drum without cable.

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Article Content

The world''s highest-count Fiber Optic Cable "13824-fiber

Thin-diameter, high-density fiber optic cable developed by Fujikura using proprietary technology that implements SWR ™. It is a simply structured fiber optic cable in which the optical

Fujikura''s Revolutionary 13824-Core Fiber Optic Cable Wins Top

In a significant achievement for the telecommunications industry, Fujikura Ltd. has unveiled its world-leading super-multi-core fiber optic cable, the 13824-core SWR®/WTC®, which recently won the

Information Transmission | Research and Development | Fujikura Ltd.

NTT''s IOWN concept has set three target performance targets: low power consumption, high capacity and high quality, and low latency, and is considering the introduction of various new technologies.

Strategic Manufacturing and Clean Energy Synergies: Fujikura''s Path

The facility specializes in producing the 12-core SpiderWeb Ribbon™ (SWR™) and Wrapping Tube Cable™ (WTC™), technologies designed to meet the surging demand for high

Fujikura Begins Production of SWR™ at New Sakura Works Plant

This new plant is expected to increase SWR™ production volume by approximately 30%, addressing the rising global demand for high-capacity, high-speed communication driven by

Products | Telecommunication | Business Areas | OCC Corporation

Easy Installation Thin and lightweight feature enabling low cost construction and space saving, High flexibility. Long unit length Max length up to 12km per drum without cable joint enabling low loss and

Japanese Fiber Optic Cable Manufacturers

Innovation Commitment: OCC Japan is committed to innovation, particularly in the field of submarine and long-distance fiber optic cables, ensuring their products meet the highest

13,824-Core Fiber Optic Cable: Furukawa Electric

Furukawa Electric''s Lightera begins mass production of the world''s highest-class 13,824-core ultra-high-density fiber optic cable. Learn how this

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Japan''s Optical Fibers, Bundles and Cables Market Report 2026

The price landscape for optical fibers, bundles, and cables in Japan is defined by a pronounced and persistent gap between import and export unit values, reflecting the differing nature

Japan''s Optical Fiber Cables Market Report 2026

Japan exports heavier, more robust cables (e.g., armored submarine cables) where the cost per ton is lower, while importing lighter, high-fiber-count cables or specialized components that

Japanese Fiber Optic Cable Manufacturers

Japanese fiber optic cable manufacturers are renowned for their commitment to quality, innovation, and precision. These companies play a vital role in powering global communications,

High-Speed Precision Winding of Fiber Optic Coils

High-Speed Precision Fiber Optic Coil Winding Winding a thread of light in complex patterns at 300 rpm The high-speed 3-axis motion stage and winding mandrel.

High Speed Rewinding Machines

High-Speed Rewinding Machine For fast and precise rewinding of fiber optic cables or optical fibers, our high-speed rewinding machines offer the ideal solution. With

Development of an automated fiber optic winding machine for

Winding a fiber optic sensing coil traditionally is performed on a semi-automated machine with the constant involvement of an operator. It is a complex process that can take as much as a

Japan''s NTT and NEC showcase technology that can boost optical

The big picture: Fiber optics have increased network capacities significantly, but submarine cable technology has remained largely static in recent years. However, that could change

Revolutionizing Connectivity: How Japanese Manufacturing Leads the ...

This article delves into how Japanese manufacturing leads the world in optical fiber innovation, with a focus on procurement and purchasing strategies, advantages and disadvantages,

Revolutionizing Optical Fiber Cable OEM: Discover the Secrets of ...

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The market for optical fiber cables is highly competitive and fast-evolving. With the rise in demand due to increased data consumption and the proliferation of high-speed internet, the sector is

Herch Opto Electronic Technology Co., Ltd.

Especially winding with higher voltage level can be realized by optical fiber technology, but the cost is high. So the common winding thermometer is actually a simulated value which can reflect the

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This document is for preliminary research. Verify specifications against current standards, product documentation and project requirements.

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