

Indonesia s hybrid fiber optic cable ADSS



Overview

Implementing hybrid fiber optic cable technology significantly improves operational effectiveness and data quality.

Key Takeaways

Indonesia has implemented hybrid fiber optic ADSS cables, combining all-dielectric self-supporting technology with advanced sensing capabilities for efficient telecommunications and industrial applications.

Overview of ADSS Cables

All-dielectric self-supporting (ADSS) cables are optical fiber cables designed to support themselves between structures without metal elements, making them ideal for installation along overhead power lines and other elevated structures . They are lightweight, small in diameter, and resistant to environmental factors such as wind, ice, and UV exposure. ADSS cables typically use single-mode fibers with wavelengths of 1310 or 1550 nm, allowing circuits up to 100 km without repeaters, and can carry up to 864 fibers in a single cable . The fibers are protected in loose buffer tubes or ribbon configurations, with aramid yarns providing tensile strength and a protective outer sheath preventing moisture and UV damage .

Hybrid Fiber Optic Cable in Indonesia



The first implementation of hybrid fiber optic cable in Indonesia was applied in the oil and gas sector for Vertical Seismic Profiling (VSP) surveys in East Kalimantan . This hybrid cable integrates distributed acoustic sensing (DAS) technology within the wireline cable, allowing seismic data acquisition during any wireline run without additional rig time. The technology improves operational efficiency, reduces costs, and enhances data quality, providing high-frequency VSP data and robust well-to-seismic ties . The workflow includes planning, real-time field execution, and advanced processing to optimize signal-to-noise ratio and mitigate unwanted noise .

Technical Features and Standards

ADSS cables in Indonesia comply with international standards such as ITU-T G.652.D, G.654.B/C, G.655.C/D, G.657.A1, IEC 60794-3, and TIA/EIA . They are designed for outdoor or underground installation, with protection against water ingress using swellable compounds and tapes, and a glass-reinforced plastic (GRP) central strength element for anti-buckling . The outer jacket is UV-resistant HDPE, providing abrasion resistance and long-term durability . Installation methods include air-assisted blowing, water pressure-floating, or manual pulling .

Commercial Availability

Hybrid ADSS fiber optic cables are commercially available in Indonesia through suppliers such as Tokopedia, offering various configurations like 12-core mini ADSS cables for distances up to 2 km . These products cater to telecommunications, power grid, and industrial applications, supporting both high-speed data transmission and advanced sensing capabilities.

Applications

- Telecommunications: High-capacity backbone networks along power lines or urban infrastructure.
- Oil and Gas: VSP surveys and real-time monitoring using DAS technology.
- Power Grids: Communication and monitoring along transmission lines without grounding requirements.
- Industrial Monitoring: Structural health monitoring and environmental sensing integrated into fiber networks. Indonesia's adoption of hybrid ADSS fiber optic cables represents a technological advancement in both telecommunications and industrial sensing, combining the self-supporting benefits of ADSS with the enhanced functionality of hybrid fiber optics for efficient, high-quality data acquisition and transmission.

Article Content

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Implementing hybrid fiber optic cable technology significantly improves operational effectiveness and data quality. High-frequency

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Fiber type is optional, following to the customer request. – Each fibers are inserted into thixotropic gel-filled

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All-dielectric self-supporting cable

All-dielectric self-supporting (ADSS) cable is a type of optical fiber cable that is strong enough to support itself between structures

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The ADSS (All Dielectric Self Supporting) optical cable is designed with Aramid Yarn as peripheral strength members, providing high

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Kabel Mini ADSS Description : Flat construction containing a G.652D optical fiber path guarantees high

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ADSS Fiber Optic Cables ADSS cable is a kind of all composed of media materials, it contains the

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ADSS Fiber Optic Cable | All-Dielectric Self-Supporting

AFL-ADSS ® (All-Dielectric Self-Supporting) fiber optic cable is designed for outside plant aerial

Beranda

Cable Mini ADSS 4C G652D Flat construction containing a G.652D optical fiber path guarantees high

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Beli kabel fo adss dan scpt (fiber optik) terlaris 6 core 12core 24core 48core 96core 144core 288core ku12scpt ku24scpt

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The cable is for outdoor, underground inside HDPE ducts. The installation may use air-assisted (air-blown) method, water pressure

Kabel Daya Mandiri Lapisan Tunggal All-dielektrik ADSS | CRXCONEC

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