ZITHA TECH SPECIALTY CABLES (Pty) Ltd

Australia Cable Relay Frame Armor Installation Solution



Overview

EzyStrut is Australia''s market leading supplier for cable support systems, offering cable ladder, tray, mesh and duct solutions.

Key Takeaways

Modular cable containment and armored frame systems in Australia are available through suppliers like Armorduct, Hilti, EzyStrut, and Burndy CSS, offering prefabricated, high-speed installation solutions for industrial and substation applications.Modular and Prefabricated Solutions



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Armorduct Systems provides modular cable containment frames, risers, and modules designed to maximize onsite productivity. Their solutions range from single-tier Unistrut brackets to fully populated 6-metre containment corridors. These systems are delivered in prefabricated cassettes, allowing for high-volume production and rapid installation, reducing labor time and minimizing onsite errors. Armorduct also offers CAD-based value engineering to tailor solutions to project requirements, budgets, and timelines, ensuring efficient armored cable routing and protection . Hilti Australia offers modular support systems suitable for high-voltage and industrial applications. Their solutions include cable trays, ladders, and cleats that allow flexible, safe cable routing while avoiding sharp bends. Prefabricated assemblies and modular supports accelerate installation, improve visual inspection, and reduce the need for welding, which is time-consuming and costly. Hilti also provides engineering design support compatible with software like Aveva, Smart Plant 3D, PDMS, and Bentley . EzyStrut and Burndy CSS supply a range of cable support systems, including ladders, trays, mesh, and duct solutions. These systems are designed for robust cable protection and compliance with Australian industrial standards, suitable for substations, industrial plants, and high-voltage installations .

Installation Advantages
• Prefabrication: Reduces onsite labor and installation time.

• Modularity: Allows easy adjustment for site variations and future expansions.

• Safety: Provides armored protection for high-voltage cables, minimizing short-circuit risks.

• Inspection and Maintenance: Modular systems allow visual inspection and easy reconfiguration.

• Integration: Supports multi-discipline installations, including HVAC, piping, and electrical systems .
Recommended Approach
• Assess Project Requirements: Determine cable types, voltage levels, and routing complexity.

• Select Modular System: Choose a supplier offering prefabricated modules or cassettes for armored cable frames.

• Design and Value Engineering: Use CAD-based planning to optimize layout and minimize sharp bends.

• Onsite Installation: Utilize modular supports, Unistrut brackets, and risers for rapid assembly.

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• Inspection and Testing: Ensure proper cable protection, secure fastening, and compliance with Australian standards. By leveraging modular, prefabricated armored frame solutions, Australian projects can achieve efficient, safe, and scalable cable relay installations suitable for substations, industrial plants, and high-volume electrical infrastructure.

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Steel wire armoured cable, regularly truncated as SWA, is a hard-wearing force cable intended for the supply of mains power. It is

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1.0 Installation Interlock cables are similar to standard fiber optic cables but with an enhanced crush and impact resistance. The

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