

IK10 Cable Relay Frame for Broadcasting Optical Cables

Article Overview

An IK10 cable relay frame is a highly durable enclosure designed to protect optical cables and relay equipment from mechanical impact, suitable for broadcasting and telecommunications applications.

Overview

An IK10 cable relay frame is a type of enclosure that provides maximum impact resistance according to the IEC 62262 standard, making it ideal for environments where mechanical protection is critical, such as broadcasting stations or outdoor optical cable installations . These frames are typically used to house relay equipment, fiber optic terminations, and distribution modules, ensuring both operational safety and cable integrity.

Key Features

- o Impact Protection: Rated IK10, the highest standard for mechanical impact resistance, capable of withstanding 20 joules of force .
- o Material: Often made from glass-fiber-reinforced polyester (GRP) or sheet steel, providing durability, corrosion resistance, and suitability for harsh environments .
- o IP Protection: Many IK10 enclosures also offer IP55 to IP66 protection, safeguarding against dust and water ingress, which is essential for outdoor or semi-outdoor broadcasting setups .
- o Mounting and Access: Frames are designed for easy installation of optical cables, with removable foundation closures and modular interiors that allow quick fitting of relay modules and fiber optic components .
- o Size Options: Available in multiple sizes (e.g., 250x300 mm to 500x600 mm) to accommodate different numbers of relay lines or optical cable bundles .
- o Doors and Security: Can feature plain or transparent hinged doors, allowing visual inspection without compromising protection .

Applications

- o Broadcasting Networks: Protects optical cables and relay equipment in TV, radio, and satellite broadcasting stations.
- o Telecommunications: Suitable for FTTH (Fiber to the Home) networks, PON systems, and other fiber optic distribution setups .
- o Industrial and Outdoor Installations: Can be used in environments exposed to dust, moisture, or potential mechanical impact, including substations and outdoor relay points .

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Advantages

- o Ensures long-term reliability of optical cable connections.
- o Reduces maintenance costs by preventing damage from accidental impacts.
- o Supports modular installation, allowing easy upgrades or expansions of relay and fiber optic systems.
- o Meets international safety and protection standards, ensuring compliance in professional broadcasting and telecom environments . In summary, an IK10 cable relay frame is a robust, impact-resistant enclosure designed to protect optical cables and relay equipment in demanding broadcasting and telecommunications applications, combining mechanical durability, environmental protection, and flexible installation options.

View results and find relay protection cable relay frame ik10 datasheets and circuit and application notes in pdf format.

The kit incudes : Fiber Optic CATV RF forward Transmitter, optical forward Receiver, Return path optical transmitter, Return Path

Grommet based cable entry frames for supply cables with large diameters of up to 75 mm. Available as single or double row version.

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Der Kompakt-Schaltschrank AX, Stahlblech bietet maximale Datenqualität und Durchgängigkeit

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im Engineering sowie Flexibilität und

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The FOI-2991, FOI-2992, FOI-2993, and FOI-2994 all provide complete electrical isolation for control signals and relay closures.

IK protection levels are denoted by a two-digit code, ranging from IK00 (no protection) to

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