Waterproof and explosion-proof intermediate joint box



Overview

The purpose of this utility model is to provide a kind of cable intermediate joint waterproof anti-explosion box, solves cable intermediate joint moisture-sensitive, affects explosive...

Key Takeaways

Intermediate joint boxes with waterproof and explosion-proof features are available in FRP and SMC materials, with models such as VB-1600-125-70, VB-1620-255-125, and WOER 10KV SMC boxes for high-voltage cable protection. Key Models and SpecificationsFRP Explosion-Proof Boxes (VB Series): Designed for single-core and three-core cables, suitable for 10kV to 35kV applications. Common models include VB-1600-125-70, VB-1600-140-80, VB-1620-255-125, and VB-2300-280-125.

These boxes feature a glass fiber reinforced plastic shell, silicone rubber sealing rings for enhanced waterproofing, and a boat-shaped upper and lower structure for durability and explosion containment.

SMC Explosion-

Proof Boxes: Made from Sheet Molding Compound (SMC), these boxes provide high-strength, corrosion-resistant, and flame-retardant protection. They are suitable for harsh environments, including outdoor cable trenches and chemical sites. Examples include the WOER 10KV Cable Intermediate Joint Fire Explosion Proof Box, with a length of 1200mm and inner cavity diameter of 180mm, rated for 10kV applications.

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Aluminum Alloy Explosion-

Proof Junction Boxes: For lower voltage applications (220V/380V), these boxes offer IP65 protection, waterproofing, dustproofing, and corrosion resistance, suitable for chemical, oil, and gas industries. They feature customizable entry points and terminal blocks, with housing made from aluminum alloy die-casting or welded steel plate. Material and Performance FeaturesFRP (Fiber Reinforced Plastic): High flame retardancy (oxygen index 62.

5%), corrosion resistance against acids, alkalis, salts, and oils, suitable for long-term burial and coastal environments.

SM

C (Sheet Molding Compound): Excellent explosion-proof capability, corrosion resistance, UV protection, and temperature tolerance from -50°C to 150°C, with IP55 protection level. Sealing and Waterproofing: Silicone rubber rings and internal filling materials enhance waterproof performance and prevent secondary damage during cable joint failures. ApplicationsHigh-voltage cable intermediate joints in power distribution networks, substations, and industrial installations.

Environments with harsh weather, chemical exposure, or risk of explosion. Both indoor and outdoor installations, including cable trenches, wells, and offshore platforms. These models provide robust protection against fire, explosion, moisture, and environmental stress, ensuring the safety and longevity of critical cable connections in high-voltage systems.

Article Content

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The purpose of this utility model is to provide a kind of cable intermediate joint waterproof anti-explosion box, solves cable intermediate joint moisture-sensitive, affects explosive...

cable Intermediate Joint explosion-proof box,explosion-proof box

In response to these problems, the company has developed a cable intermediate joint box with fireproof, waterproof and explosion-proof functions to provide all-round protection.

Cable Explosion-Proof Box, High-Voltage Cable Intermediate Joint ...

When there is an accident and fire occurs in the middle end of the cable, this product not only has super flame retardant ability, but also ensures that the temperature of the shell will not rise, so as to protect

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Cable Intermediate Joint Explosion-proof Box in the Real ...

The Cable Intermediate Joint Explosion-proof Box is a specialized enclosure designed to house electrical connections in hazardous environments where flammable gases, vapors, or dust are

High Voltage Cable Explosion-Proof Box for Cable

This High-Voltage Cable Intermediate Joint Explosion-Proof Box is designed to ensure safe and reliable protection for cable joints in high-risk environments. It

Review of Explosion Mechanism and Explosion-Proof Measures for

The intermediate joint of high-voltage cables, as a critical component in the power transmission system, plays a direct role in the stable operation of the entire electrical system. In

Cable Intermediate Joint Explosion-Proof Box

When the intermediate joint outlet fails, energy will first be discharged through the energy leakage hole, and secondly, the explosion-proof box body will receive the impact force.

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The utility model discloses a cable intermediate joint waterproof explosion -proof box, which comprises a housin, the housing comprises an upper housing body and a lower housing body, it constitutes by

Cable Intermediate Joint Explosion-Proof Box 10kv-35kv FRP Waterproof

Cable Intermediate Joint Explosion-Proof Box 10kv-35kv FRP Waterproof, Find Details and Price about Resin Joint Junction Box from Cable Intermediate Joint Explosion-Proof Box 10kv-35kv FRP

WOER 10KV Cable Intermediate Joint Fire Explosion Proof Box (SMC ...

Product Overview The WOER 10KV Cable Intermediate Joint Fire Explosion Proof Box (SMC) is a robust, high-performance housing solution designed to ensure the safety and reliability of cable joints

Research on the Effect of Protection Box on the Temperature

The protection box installed on the intermediate joint of the cable affects the heat dissipation of the joint and and even affects the safe operation of the cable line. In order to explore

WOER 35KV Cable Intermediate Joint Fire and Explosion Proof Box

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Product Overview The WOER 35KV Cable Intermediate Joint Fire and Explosion Proof Box (SMC) is engineered to provide robust protection for high-voltage cable joints. This advanced enclosure is

Customized Cable Accessory Intermediate Joint Explosion-Proof Box

Customized Cable Accessory Intermediate Joint Explosion-Proof Box 35kv 3-Core Explosion-Proof Cable Connector for Safety, Find Details and Price about High Quality Box Explosion-Proof Box from

(PDF) Review of Explosion Mechanism and Explosion-Proof

This article provides a systematic review of the explosion mechanisms and explosion prevention measures for high-voltage cable intermediate joints.

Watertight splice box / explosion-proof

Watertight splice box / explosion-proof EGS Electrical Groups'' wide selection of hazardous location junction boxes, which are explosion and dust-ignition proof, are commonly used for handling and

Terminal and Junction Boxes | Explosion Protection

Terminal boxes and junction boxes from Pepperl+Fuchs are designed to protect signal and power distribution networks in explosion-hazardous and challenging environments.

Terminal boxes | Junction boxes | Ex | Ex e | Ex d | ATEX | Explosion ...

Safely conduct, connect and distribute energy in hazardous areas with R. STAHL''s terminal boxes. We offer bespoke, custom-made terminal boxes and terminal box combinations, as well as standard

Cable Intermediate Joint Explosion-Proof Box

Mainly suitable for intermediate connection of cables. After the intermediate joint is made, a layer of protection is added here to protect the intermediate joint.

Related Video Reference

This video was associated with the source search result. Verify technical details against current product documentation and project requirements.

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

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