

Manufacturer of Explosion-proof Optical Cable Laying Cold Aisle Types



Overview

Cables for Ex-Areas: SAMCON When using the applicable cable gland, it is possible to insert the cables directly into flameproof Cables and Lines for Hazardous.

Key Takeaways

Key manufacturers of explosion-proof optical cables suitable for cold aisle and harsh environments include EX Industries, SAMCON, AFL Global, Afutel, and BizLink.EX Industries

EX Industries specializes in explosion-proof cables for hazardous environments, offering instrumentation, control, and power cables compliant with ATEX, IEC, and North American Class/Division standards. Their products are suitable for offshore, shipboard, and industrial applications, and they provide guidance on proper cable glands and installation to ensure safety and compliance .

SAMCON

SAMCON provides industrial Ethernet and armored digital system cables designed for Ex areas. Their cables are robust, flame retardant, halogen-free, and resistant to oils, mud, sunlight, and mechanical stress. While European regulations do not require certification for cables themselves, SAMCON ensures compliance with standards like DIN EN 60079-14 and IEC 61156-5 for safe use in hazardous zones .

AFL Global



AFL Global's LA-Series fiber optic cables are engineered for extreme low temperatures and harsh environments. They feature LSZH double jackets, aramid yarn reinforcement, and flame-resistant construction, making them suitable for cold aisle installations and outdoor or industrial applications requiring high mechanical and chemical resistance .

Afutel

Afutel manufactures explosion-proof optical fiber devices and cables for high humidity, dust, and extreme temperature environments. Their products are designed for tunnels, mines, power plants, and industrial facilities, offering waterproof, frost-resistant, and corrosion-resistant performance with durable aluminum and ABS+PC alloy housings .

BizLink

BizLink offers a wide range of cables for extreme conditions, including explosion-proof optical and copper data cables. Their products meet IEC 60092-379 and EN 50289-4-16 standards, with hybrid insulation designs and fire-resistant layers. BizLink cables are suitable for high-temperature, hazardous, and industrial environments, and they provide matching connectors and assembly tools for complete system integration .

Summary

For cold aisle and hazardous environment applications, these manufacturers provide cables with features such as:

- Explosion-proof and flame-resistant construction
 - LSZH or halogen-free jackets
 - Resistance to extreme temperatures, moisture, and mechanical stress
 - Compliance with ATEX, IEC, and other international standards
 - Armored or reinforced designs for industrial Ethernet and fiber optic systems
- Selecting the right cable depends on the specific environmental conditions, required standards, and installation type. Contacting the manufacturers directly can provide detailed specifications and guidance for your cold aisle deployment.

Article Content

Cables and Lines for Hazardous Areas

Environmental, Process and Application Parameters Installation Flexible Cables For Stationary Or Mobile Devices Fibre-Optic Cables Selection of The Cable Gland In hazardous areas, fibre-optic cables, especially directly inserted into flameproof chambers, are considered potentially more critical than copper wires. In this case, it is not relevant how much energy is transported, but rather what longitudinal tightness can be achieved by the cable. In practice, neither classic fibre-optic cables with or without... See more on samcon Ex Industries

Explosion Proof Electrical Equipment & Engineering Solutions | EX ...

EX Industries provides high-quality explosion proof electrical equipment and custom engineering solutions for hazardous

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