FRINDEL OPTICS

Radiation-resistant optical module





Radiation-resistant optical module



Optical Fiber and Cable Reliability for High Radiation

Optical fiber cables deployed within nuclear power plants and other high radiation environments such as space environments, high energy physics

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Research on technical characteristics and standards of anti-radiation

Furthermore, it evaluates the functional performance, quality reliability, and environmental adaptability of a particular 12-channel parallel optical transceiver module that is resistant to radiation, considering its

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Radiation resistant optical components for high energy physics

This work aims at studying selected optical materials with improved properties (functional and optical) and radiation resistance that can be used in new detectors at the Large Hadron Collider

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Radiation resistance of optical fibres, perspectives for FCC-ee

Radiation resistance of optical fibres Definitions Radiation effects (affecting the system performance) -> it quickly becomes an issue of radiolytic degradation and radiochemistry.

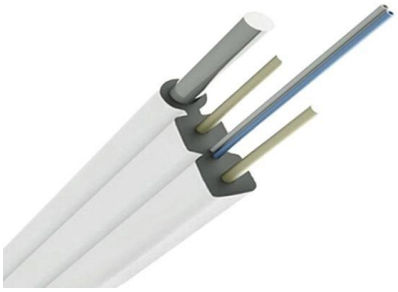
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Reflex Photonics launches a new line of 28 Gbps per

Kirkland (Montr?al), September 12, 2018: Reflex is proud to announce the launch of a new line of radiation-resistant optical modules offering up to 28

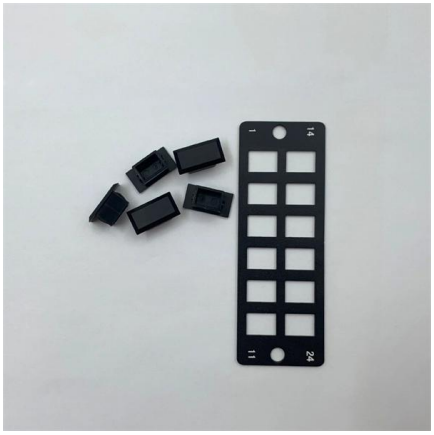
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Blog: Exploring the Cutting-Edge SpaceABLE®

Conclusion In the ever-evolving landscape of data-intensive satellites, the demand for advanced technologies that can withstand the rigors of the

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A Versatile Link for High-Speed, Radiation Resistant Optical

The Versatile Link project is developing a general purpose physical layer optical link with high bandwidth, radiation resistance and magnetic-field to

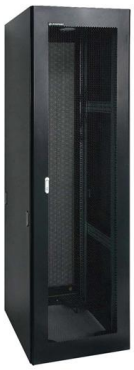
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Radiation Hardened Optical Fiber

Manufacturing Radiation Hardened Fibers Manufacturers have developed solutions with high levels of radiation resistance to address the need

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Reflex products for Space applications , Smiths

Onboard embedded optical transmitter and receiver modules offering radiation hardness, robustness, longevity, and high I/O density. The Space ABLE (TM)

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Radiation Resistant Fiber Optic Materials and Waveguides

Intrinsic optical loss and radiation response measurements on several types of cerium-protected silicate glasses and fibers have indicated that moderate loss (? 100 db/km), high numerical aperture,

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The Road to embedded world: Smiths Interconnect's

By integrating innovative thin-film technology with extensive millimeter wave design expertise, Smiths Interconnect has produced a compact, high

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SINT_SpaceABLE_Range_LTR_1

The SpaceABLE 10G SL Series and 28G SL Series radiation-resistant onboard embedded optical transceiver modules offer radiation hardness, robustness, longevity, and high I/O density.

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SpaceABLE_Range_LTR_EN_202111

The SpaceABLE 10G SM Series, 10G SL Series, and 28G SL Series radiation-resistant onboard embedded optical transceiver modules offer radiation hardness, robustness, longevity, and high I/O

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Radiation Hardened Optical Cable

Radiation Hardened Linden's RadHard fiber optic cables provide a complete solution where a robust fiber optic link is needed in a harsh, high radiation environment. A wide variety of cable constructions

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SpaceABLE 28G SL Series 4TRX, 12TX, and 12RX: Radiation

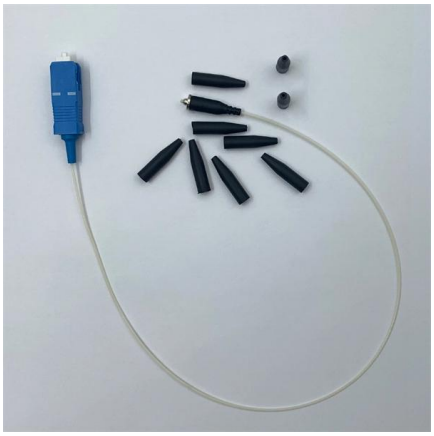
The SpaceABLE® 28G SL Series radiation resistant transceivers are engineered to withstand radiation doses >100 krad (Si). The SpaceABLE 28G SL Series low profile screw-in module mounts to the

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Radiation resistant optical components for high energy physics

Light transmittance, optical reflection, thermal characteristics, and radiation resistance were investigated to evaluate the proposed materials. We have developed optical systems based on

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Exploring the Cutting-Edge SpaceABLE® Radiation-Resistant

In the vast expanse of outer space, where exploration and communication are paramount, technological advancements are critical for ensuring seamless and reliable connectivity. Smiths Interconnect 's

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Design and micro-assembly of irradiation-resistant optoelectronic

In this paper, a quad transceiver parallel hermetically encapsulated optoelectronic transceiver module is designed, with a single channel rates up to 10.3125Gbps, a package size of

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SpaceABLE Series Radiation-resistant optical transceivers

The SpaceABLE 10G SM Series, 10G SL Series, and 28G SL Series radiation resistant onboard embedded optical transceiver modules offer radiation

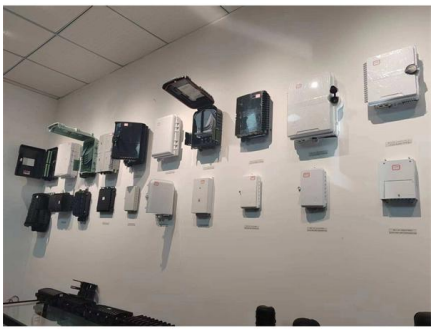
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SpaceABLE 10G SL Series Radiation-resistant Optica

The SpaceABLE 10G SL Series radiation-resistant onboard embedded optical transmitter and receiver modules offer radiation hardness, robustness, longevity, and high I/O density.

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Design and micro-assembly of irradiation-resistant optoelectronic

According to the increasing demand for communication bandwidth for data exchange of space communication system, more and more customers use optical transceiver module products in space

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Reflex Photonics awarded multimillion-dollar contract to

Building on the recognized robustness inherent in the design of Reflex Photonics' optical modules, the SpaceABLE®28 line will provide radiation

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SpaceABLE Radiation-resistant Optical Transceivers

2021-05-30Manufacturer News RSpaceABLE optical modules developed for ARTES Scylight program,Building on the recognized robustness inherent in the design of Reflex Photonics'

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For datasheets, pricing, or custom fiber access solutions, please visit: https://frindel.es