rapidconnect® Mechanical Splice

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BY ANDERSON

Mechanical Splice

Anderson Corporation’s mechanical fibre optic splices provide a fast, easy, and cost-effective solution for joining two optical fibres. These splices offer precise core alignment for minimal signal loss, making them ideal for both permanent and temporary fibre optic connections. Suitable for a range of fibre types, including single-mode and multimode fibres, Anderson's mechanical splices ensure a stable connection in various environments.

Application

- **Fibre Optic Cable Repair:** Quickly restore fibre connectivity without complex equipment.
- **Field Installations: I**deal for emergency splicing and remote locations where access to power and equipment is limited.
- **Temporary Connections:** Suitable for test environments or short-term connections where fusion splicing is not practical.
- **Telecom Networks:** Reliable for use in telecom installations, fibre-to-the-home (FTTH), and long-haul communications.

Features and Benefits

- **Fast Installation:** No fusion splicer required. Splices can be completed in minutes using basic tools such as a fibre cleaver.
- **Precision Alignment:** Ensures low insertion loss and high-quality signal transmission by aligning the fibre cores precisely.
- **Durable Construction:** Mechanical splices are designed to withstand harsh environments, offering strong, vibration-resistant connections.
- **Universal Compatibility:** Works with both single-mode and multimode fibres, as well as various fibre diameters, ensuring versatility across different applications.
- **Portable and Convenient:** Compact design fits into any toolkit. Ideal for technicians performing field repairs or installations.
- **Cost-Effective Solution:** Eliminates the need for expensive fusion splicing equipment, making it a budget-friendly option for both small and large-scale projects.

Technical Specifications

- Fibre Compatibility: Single-mode and Multimode
- Insertion Loss: ≤ 0.3 dB (typical)
- Operating Temperature: -40°C to +75°C
- Cable Diameter: 250µm to 900µm
- Dimensions: 40mm (Length) x 4mm (Width)
- Material: High-grade thermoplastic with metal alignment sleeve
- Reusability: One-time use for permanent applications
- Shelf Life: 10 years (in original packaging)

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