

Article Overview

Multifunctional optical cable delivery reels are versatile systems designed for efficient storage, transport, and deployment of fiber optic cables in diverse environments, from industrial and military operations to broadcasting and field communications.

Key Features

Modular and Lightweight Design: Modern reels like the OCC MARS system are constructed from high-impact glass-reinforced polymer, making them lightweight and easy to transport. They offer modularity with optional frames, backpacks, shipping cases, and cable acquisition platforms, allowing flexible deployment in various field conditions . **Durability and Industrial Use:** Reels such as the BX-05 feature robust metal frames designed for industrial and outdoor use. They resist impact, dust, and moisture, supporting cable lengths from 100 to 1500 meters, and are compatible with single-mode, multimode, and tactical fiber cables . **Cable Protection and Management:** Multifunctional reels prevent tangling, maintain the minimum bend radius, and protect fiber integrity. Many reels include spring-loaded mechanisms, radius guides, and tension control to ensure smooth cable payout and retrieval, reducing the risk of damage during installation . **Specialized Applications:** Some reels, like the Micropol R-105, are optimized for harsh environments, live events, military deployments, and excavation. They operate reliably in extreme temperatures (-40 °C to +70 °C) and can be customized in diameter, color, and cable length . **Stackable and Scalable Systems:** Systems like Orbiter's PV series and Cable Cube offer scalable and stackable designs, allowing efficient storage and transport. They are tailored for specific cable lengths and diameters, providing long-term durability and reduced maintenance costs . **Integrated Accessories:** Advanced reels may include fiber optic cleaning kits, connector cradles, and flip-out handles. They support multiple connector types, including MIL-DTL-83526, MIL-PRF-28876, and TFOCA-II(R), making them suitable for military, broadcast, and deployable communication environments .

Applications

- o **Telecommunications and Data Networking:** Ensures safe deployment of fiber optic cables in urban and remote installations.
- o **Broadcasting and Live Events:** Rapid deployment and retrieval of cables for cameras, audio, and lighting systems.
- o **Military and Tactical Operations:** Rugged reels for field communications, supporting long cable runs in harsh conditions.
- o **Industrial and Construction Sites:** Durable reels for outdoor fiber installations, excavation, and temporary network setups.

Conclusion



Multifunctional Optical Cable Delivery Reel

Multifunctional optical cable delivery reels combine portability, durability, and modularity to meet the demands of diverse operational environments. Choosing the right reel depends on cable length, deployment conditions, environmental factors, and required accessories, ensuring efficient, safe, and reliable fiber optic cable management.

InstaReel System - cardboard reels designed for quick and clean installation. Reels made of laminated

All of our deployable fibre cables are fully tested before they are shipped and each unit is supplied with a

Our fiber optic cable reels are the best in the industry. They're made out of an impact modified polymer.

The most advanced, self-contained fiber optic reeling system available Introducing Optical Cable Corporation's MARS® Cartridge

About Shane Industries 500 Series Tactical Reel Assembly solutions are relied upon for their heavy duty construction in the most

The OCC MARS cable reel is a US Army approved system designed specifically for the demanding needs of harsh environment fibre

The FieldShield FLEXdrop Deploy Reel simplifies Fiber-to-the-Premises installations by minimizing pre-engineering.

Since 2005 Orbiter designs and delivers scalable cable reel systems optimised for fibre

The system includes many features unique to tactical fiber optic cable applications that are not offered by traditional metal style reels.

The OCC MARS reel can be used with simple deployable axials ('broom sticks') or with integrated A-Frames, cable acquisition

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The JackReel-XL1 is a fantastic value for a super high capacity steel cable reel that is specially designed

Modular Advanced Reel System Reels (MARS) - the industry's first lightweight cable deployment reel system



Multifunctional Optical Cable Delivery Reel

designed specifically

ADVANCED REEL SYSTEM (MARS Overview OCC is pleased to introduce the Modular Advanced Reel System (MARS®), the

Micropol designs and manufactures rugged cable reels, cable drums, and event fiber reels in Sweden,

FIS Blue brand cable reels are specially designed steel cable reels to transport or store your SMPTE,

Web: <https://www.kremgroup.co.za>

