

Integrated remote connections with MARS deployable functionality



Optical Cable Corporation introduces RiO™, an inherent solution combining a multichannel fiber optic cable assembly with an interconnect patch panel to form a unified deployable solution. By incorporating the patch panel directly into the reel housing, the RiO solution can provide significant cost savings by reducing the amount of hardware needed to connect to multiple devices. With a wide variety of cable assembly options and built-in connector panel configurations, the RiO system offers the flexibility to fit each application's specific requirement. In addition, the RiO offers the same great functionality as all OCC MARS reels including storage efficiency, rapid deployment and easy operation. Its unique approach to deployable communications allows customers to simply Drop, Plug and Play™.

Features & Benefits

Ideal for deployable and remote broadcast applications, emergency communication shelters, and military communications systems with limited access to interconnect panels, OCC's RiO offers:

- An integrated fiber optic patch panel solution.**
By uniting the fiber optic cable assembly with a deployable patch panel, the RiO solution can connect multiple pieces of equipment simultaneously and can provide a quick solution that is as simple as Drop the reel in place, Plug in the connectors, and hit Play. Drop, Plug and Play.
- Significant cost savings.**
Utilizing the RiO reel allows for a single "trunk" line to distribute service to various devices. This reduces the number of additional hardware components required to connect multiple devices. In addition, shorter, lower-costing jumpers from the RiO to standard equipment provides an extra cost savings.
- Custom design and flexibility.**
The RiO solution is pre-configured to meet the exact specifications of its intended application – determined by the intended user. With a multitude of fiber optic cable, connector types and recessed panel options, the configuration choices are endless. OCC's technical sales team is available to help specify the exact design needed to fit each unique application.
- Easy operability and rapid deployment.**
As a member of the patented MARS family of reels and accessories, the RiO benefits from the same great features. Similar to MARS, the RiO has a lightweight rugged construction, a retractable handle for quick and easy deployment and the ability to stack easily for storage and transit. Additionally, the RiO offers a distinct cable retention system that tethers cable to the reel preventing accidental cable pullout.



Rio Reel on Collapsible Tripod



For applications that demand efficiency and flexibility, the RiO system is an excellent choice.

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Mechanical and Environmental Performance

PERFORMANCE	SPECIFICATION	PARAMETER
Operating temperature	MIL-STD-810C, method 501, 502	-0°C to +80°C
Storage temperature	MIL-STD-810C, method 501, 502	-45°C to +85°C
Temperature-humidity cycling	DOD-STD-1678, method 4030	+43°C, 98% humidity
Drop test	MIL-R-3241E, 3.5ft. drop, 6 sides, 2 in. firwood on concrete	1000M reel with cable, no degradation to operation
Vibration	EIA-364-28	3 axis, 10 to 33Hz, Hor. 0.020A (in.), Ver., 0.030A (in.)

What to Know When Ordering

- What type of cable do you require and what length?** Various cable types are available to meet any application and OCC can provision any assembly to the specific length that meets your need. Contact OCC Sales for help determining the best cable for your application. The length of the assembly and cable O.D. determines the size RiO reel needed.
- What type of connections do you require?** RiO reels can be configured with a variety of connector configurations including SMPTE 311 hybrid cable assemblies. RiO can accommodate up to 24 channels and can be configured with any OCC cylindrical or hermaphroditic plug or receptacle as well as discrete connectors (LC, ST, SC). For detailed ordering information, contact OCC Sales.
- What is your application? How do you intend to install and use RiO?** The RiO reel systems is compatible with all MARS accessories to meet any application requirement. Tell us what the intended use is and we can recommend options and accessories that will optimize your deployable communications solution.



Product Options for a Complete RiO Solution



Fiber Optic Patchcords - ST, SC, LC, MT



MARS Accessories



Connector Cleaning Kits