

Overview

OCC is pleased to introduce the Modular Advanced Reel System (MARS). The industry's first lightweight cable deployment reel system designed specifically for the demanding needs of harsh-environment fiber optic installations. Unlike traditional metal-style reels, MARS is a lightweight, modular system constructed of a highimpact glass enforced polymer that is easily transported and is ideal for applications where cable needs to be deployed and reeled in quickly and stored efficiently. In addition, the MARS system offers a variety of deployment options including optional frames, backpacks, shipping cases, and cable acquisition platforms throughout. This enables customers to meet the demands of diverse markets with one modular reel and accessories platform. The OCC MARS reel can be used with simple deployable axials ("broom sticks") or with integrated A-Frames, cable acquisition cradles, transit case systems, tripods, bumper mounts, backpacks and backpacks with fiber optic slip rings. The MARS reel itself incorporates options for fiber optic cleaning kits: flip-out handle, 30 ft. built-in divider, connector cradle design, and stackable features. All these features (with a lower weight than common reel systems) make MARS the most advanced fiber optic reeling system available in today's market!

Applications

- Mobile Emergency **Telecommunications Stations**
- Mobile Tactical Shelters
- United States Army, Navy, and Marine Corps Military **Tactical Deployments**
- Broadcast
- Emergency Restoration and Deployable Communications



MARS Specifications

SPECIFICATION	PARAMETER	RANGE		
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, 3.5 ft. drop, 6 sides, 2 in. Fir wood on concrete	1000 m reel with cable, no degradation to operation		
Vibration	EIA-364-28	3 axis, 10 to 33Hz, Hor. 0.020A (in.), Ver., 0.030A (in.)		

AFO-0100	AFO-0300	AFO-0500	AFO-0750
AFO-1000	AFO-0505 SPLIT REEL	ART-TRIPOD/DEPLOYABLE SPINDLE (100, 300, 500 METERS)	ARA-T2 FRAME (750, 1000 METERS)
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MARS Options



OCC's MARS meets the challenge of today's harsh environment by offering an integrated solution to clean and maintain multi-channel cylindrical fiber optic connectors in the field. MARS can be provisioned with a variety of cleaning kits that correspond to popular connector styles including MIL-DTL-83526, MIL-PRF-28876, MIL-DTL-38999, NAVSEA Pierside, MIL-C-83526 (TFOCA), F-LINK™ and TFOCA-II®. Cleaning Kits and Restoration Kits are available for 4, 6, 8, 12, 18 and 24 channel-style connectors. MARS has been tested in accordance with military specifications for cable reels.



Features and Benefits

FEATURES BENEFITS Fabricated with Provides durability high-impact and strength while affording glass reinforced lightweight benefits. polymer material Eliminates rust resulting from field operation. Enables operator to deploy Integrated cable payout and small lengths of fiber cable without having to unspool the storage area entire payload. Payout area does not impact cable volume. Interlocking Enables reels to be stacked stacking system and interlocked during transit. Affords multi-channel cylindrical Integrated connector storage connectors to be stored and locked in place for transit. Accommodates 0.50" to 2.1" diameter connectors. Molded hand openings Allow for easy hand transportation and deployment.



Features and Benefits

FEATURES BENEFITS Integrated cleaning kit K2000 Series Cleaning Kits Built-in fiber optic compartment connector cleaning kit allows operators to maintain connectors during deployable situations. Lightweight retractable Allows operators to crank and handle system easily rotate reel in deployment or take-up situations and store handle during transit. Square flange AFO-Style Reels can be provisioned with either option 1" diameter round hole or 1" square axle hole. Comprehensive Options include integrated transit cases, inventory of integrated deployable "T" frames, backpacks and more. accessories and options



Reel Ordering Information

Reel Part Numbering	AFO	-0100	_T	-M	-1		
CONFIGURATION TYPE ACR Reel type Commercial (Black only) AFO Reel type Military (Desert Tan/Carc Green only)					1 1"	TYPE Round Axle Hole Square Axle Hole	
REEL SIZE/CAPACITY (@ 5.5 MM DIAMETER CABLE) 0100 100 meters 0300 300 meters 0500 500 meters 0750 750 meters 1000 1000 meters				INTEGRATED REEL CLEANING KIT* A 4/12 CH M83526 B Expanded Beam E 4/12 CH EZ-Mate™ F F-Link Style Connectors H Hermaphroditic/SMPTE ferrule connectors J 6/24 CH EZ-Mate™			
REEL COLOR T Desert Tan G Carc Green B Black ** Custom colors available				P N/ Q 2.5 S 1.6 T 2.0 U 1.5	 Q 2.5 mm ferrule connectors S 1.6-2.0 mm ferrule connectors T 2 CH TFOCA 		



Accessory Options

Accessory Part Number	ART	-0100	–X	-X	– В	
CONFIGURATION TYPE ARN Reel Acquisition Cradle system (500, 750, 1000 meters) ART Tripod, Deployable (100, 300, 500 meters) ATB Tripod, Deployable w/Brake (100,300, 500 meters) ARB Backpack (300, 500 meters) ARR Backpack w/FO/Electrical Slip Ring (500 meters) ARS Transit Case Reel storage, (100, 2100 (dual-100m), 300, 500, 750, 1000)					X N/ T De G Ca	/CASE/T2-FRAME)
ACC Transit Case w/Acquisition Cradle, (500, 750, 1000 meters) ARA T2-Frame, Deployable (750, 1000 meters) ABF T2-Frame, Deployable w/Brake (750, 1000 meters) ARI Field Installed Braking System for Tripod (100, 300, 500 meters) ARC Field Installed Braking System for T2-Frame (750, 1000 meters) ACD Modular, Deployable Cartridge System (500, 750, 1000 meters) ACF Modular, Deployable Cartridge System w/Caster Wheels (500, 750, 1000 meters) ABM Bumper-Mounted Axle (100, 300, 500 meters) ARR Integrated Axle Reel (700, 1000 meters) ABB Base for Integrated Axle Reel (700, 1000 meters)						
REEL SIZE/CAPACITY (@ 5.5 MM DIAMETER CABLE) 0100 100 meters 0300 300 meters 0500 500 meters 0750 750 meters 1000 1000 meters						



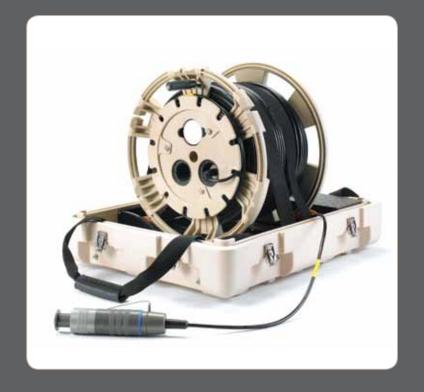
Reel Ordering Specifications

PART NO.	FLANGE DIAMETER	HUB DIAMETER	WIDTH	WEIGHT	CAPACITY 5.5 MM OD CABLE	CAPACITY 7.2 MM OD CABLE
***-0100-X-Y	17"	10"	5″	9.5 Lbs.	100 M	75 M
***-0300-X-Y	17"	8"	7.75"	11 Lbs.	300 M	200 M
***-0500-X-Y	17"	8"	10.75"	11.5 Lbs.	500 M	350 M
***-0750-X-Y	17"	8"	14.75"	12 Lbs.	750 M	500 M
***-1000-X-Y	17"	8"	18.75"	13 Lbs.	1000 M	700 M

REPLACEMENT – INTEGRATED CLEANING KITS				
K2000-KAC00x	4/12 CH M83526			
K2000-KBC00x	Expanded Beam			
K2000-KEC00x	4/12 CH EZ-MATE™			
K2000-KFC00x	F-Link Style Connectors			
K2000-KHC00x	Hermaphroditic/SMPTE			
K2000-KJC00x	6/24 CH EZ-MATE™			
K2000-KNC00x	M28876			
K2000-KPC00x	NAVSEA Pierside			
K2000-KQC00x	2.5 mm ferrule			
K2000-KSC00x	1.6–2.0 mm ferrule			
K2000-KTC00x	2 CH TFOCA			
K2000-KUC00x	1.25 mm ferrule			



For AFO/ACR-0100, x = 1For AFO/ACR-0300 or greater, x=2



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CORPORATE HEADQUARTERS

5290 Concourse Drive | Roanoke, VA 24019 | USA

Phone: +1-540-265-0690 | 800-622-7711

+1-540-265-0724 Fax:

occfiber.com

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