

TAC-2000 SERIES

Tactical Military and Field
Deployable Fiber Optic Cable
and Spool Assemblies



SUMMARY

- Custom military grade, tactical fiber optic cable assemblies with up to 12 fibers.
- Available with **2, 4, 8 and 12 Fiber Channels**. Larger fiber channel counts available.
- **Delphi-Packard Hughes Hermaphroditic** multi-channel tactical fiber optic connectors.
- **US Army TFOCA-II®** multi-channel tactical fiber optic connectors.
- **ITT Industries Cannon FOMC** multi-channel tactical fiber optic connectors.
- Standard lengths include **500, 1000 and 2000 feet**. Custom lengths available.
- Crush-resistant and resilient with a thick layer of **Aramid Strength Members**.
- Polyurethane jacketed for abrasion, cut and chemical resistance.
- Re-enforced **Kevlar jacket** strong enough to withstand the weight of a truck or tank.
- Panel mount Tactical **Fan-out or Break-out** adapters available.
- Fan-outs available with break-outs to standard **ST, SC, FC, LC and MTRJ** type connectors.
- Hand tighten cable Fan-outs (non panel-mount) are available.
- Interfaces available for the complete MULTIDYNE fiber optic product line including the **NEW LIGHTBoX**.
- Ideal for temporary field production, ENG, sporting events and military operations.

**Delphi/Packard Hughes
Connector and Fan-out Cable**



**TFOCA-II® Tactical Connector
and Fan-out Cable**





Multi-Channel Fiber Optic Cable Assemblies

MultiDyne provides custom cable assemblies for virtually any applications. Our stringent quality system, certified to MIL-STD-790, ensures the highest levels of workmanship and performance available today in every cable assembly built.

Cables can be built with:

- **TFOCA connectors**
- **TFOCA-II® connectors**
- **TFOCA-III™ connectors**
- **FOMC connectors**
- **Delphi-Packard Hughes Hermaphroditic**
- **THD connectors**
- **FS3H connectors**
- **FS12H pier side connectors**
- **M28876 connectors**
- **D38999 connectors**
- **MIL-ST, or any commercially available connector.**

MultiDyne can support virtually every connector standards. In addition to 100% optical performance testing, MultiDyne can also provide value-added services such as thermal cycling, high-temperature aging, and other post-build environmental testing.

- MultiDyne uses CECOM approved sources for TFOCA Cable Assemblies.
- MultiDyne uses CECOM approved source for TFOCA-II® Cable Assemblies.
- MultiDyne assemblies are certified to MIL-STD-2042 for shipboard assemblies.

Every MultiDyne cable assembly is covered by a 1-Year Warranty from the date of delivery.

"TFOCA-II ® is a registered trademark of Amphenol Fiber Systems International."

"TFOCA-III is a trademark of Amphenol Fiber Systems International."

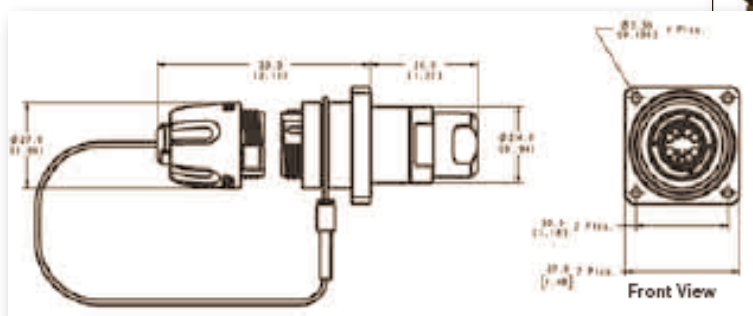
the LiGHTBoX

Optical Connector Options for Tactical Fiber

COMPATIBLE WITH: LiGHTBoX & Tac Fiber

TYCO EXPANDED BEAM

- Expanded beam technology for easy cleaning and reliability
- 2 or 4 fiber configuration
- Hermaphroditic for chaining one cable to the next
- Small and light weight for portable applications
- Singlemode or multimode
- Cable end mates to LiGHTBoX



TFOCA-I & TFOCA-II

- TFOC-I two fiber & TFOC-II four fiber connectors & cables
- Military grade
- Hermaphroditic for chaining one cable to the next
- 12 & 24 fiber assemblies available
- Singlemode or multimode
- Cable end mates to LiGHTBoX and panel mount receptacle



CONTACT

1-(877)-MULTIDYNE (US and Canada)
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OTHER CONNECTOR TYPES

- Other connector types include: FC,ST,SC,LC,MU & more
- Any of these types can be terminated onto TAC fiber
- LiGHTBoX can be fitted with any of these connector types

Connector Types



FC



ST



SC



LC



MU

REEL TYPES

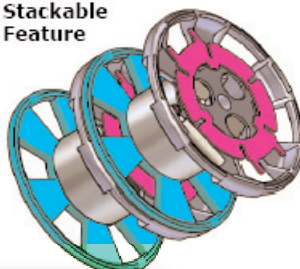
On the right:

- Rugged steel & aluminum construction or reinfo
- Equipped with Cam-Lock drag brake system
- Split reel available for short leader
- Larger reels with optional casters
- Back-pack option for field use
- Customer specified reel types

On the left:

- Reinforced extruded glass nylon
- Cable payout & storage area
- Connector storage
- Cleaning kit compartment

Stackable Feature



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DEPLOYABLE FIBER OPTIC REEL AND BASE SYSTEM

MultiDyne Video & Fiber Optics is pleased to introduce the 1st deployable reel system to accommodate the unique demands of deployable fiber optic cable. The AOS fiber optic reel system incorporates many features unique to fiber optics and not afforded by current metal style reels.

Applications

- Mobile Emergency Telecommunications Stations
- Mobile Tactical Shelters
- United States Army, Navy, and Marine Corp military tactical deployments
- Broadcast
- Emergency Restoration and Deployable Communications

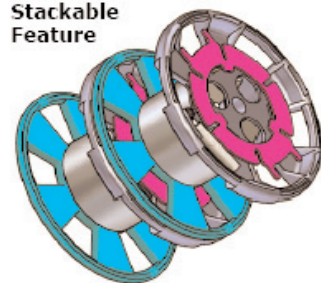
Features	Benefits
Fabricated with reinforced Extruded Glass Nylon	Provides durability and strength while affording light weight benefits
	Eliminates rust resulting from field operation
Integrated Cable payout and storage area	Enables operators to payout small lengths of fiber cable without having to un spool the entire payload
Designed with Integrated Inter-Locking System	Enables reels to be stacked and inter-locked during transit
Integrated Connector Storage and Cleaning Kit Compartment	Affords multi-channel cylindrical connectors to be stored, locked in place for transit
	Affords operators with the built-in fiber optic connector cleaning kit, to maintain connectors during deployable situations
Light weight Retractable crank and Handle system	Allows operators to easily rotate reel in payout or take-up situation and store handle during transit
Designed in accordance with CECOM Drawing A3159864E	Fiber Optical Reel designed to be form, fit and function with existing reel systems
Tested in accordance with Military specifications for Cable Reels, MIL-R-3241E (Pending)	Fiber Optic Reel Designed meet or exceed all requirements of MIL-R-3241E
Integrated Transit Case, Vehicle Payout Axial and Base systems	AOS Fiber Optic Reels feature options for integrated transit case and deployable "A" frame base to accommodate most configurations

Deployable Fiber Optic Reel 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. AOS reels can be ordered from a variety of popular cleaning kits including MIL-DTL-83526, MIL-PRF-28876, NAVSEA PierSide, MIL-C-83526 TFOCA, F-LINK™ and TFOCA-II®. Kits are available for 4,6,8,12,18 and 24 channel style connectors. MultiDyne

AOSREEL001-9/2007



Stackable Feature



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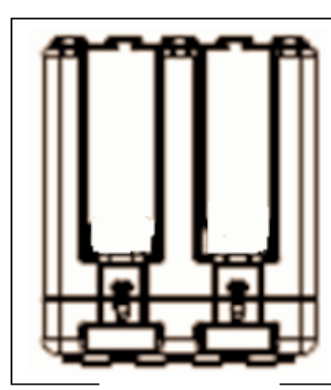
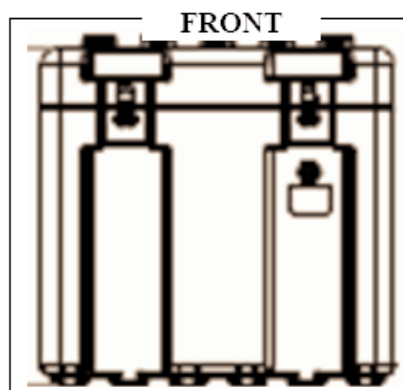
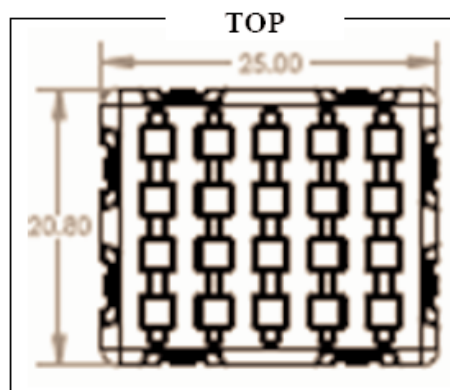
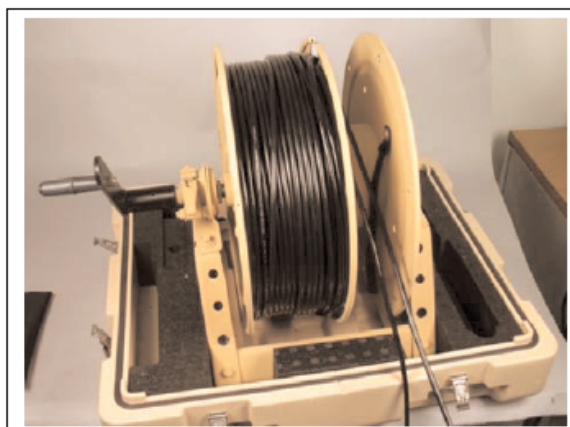
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PART NUMBER	OUTER DIAMETER	HUB DIAMETER	WIDTH (W)	WEIGHT (est.)	CAPACITY (6mm dia.)	CAPACITY (7.2mm dia.) TAC	(Y)=INTEGRATED CLEANING KITS	(X) =COLOR
TAC-0100-X-Y	17"	10"	5"	10LBS	100M	66M	M TAC CONNECTORS	T DESSERT TAN
TAC-0300-X-Y	17"	8"	8"	11LBS	300M	200M	N M28876 STYLE CONNECTORS	B BLACK
TAC-0500-X-Y	17"	8"	9.5"	12LBS	500M	340M	P NAVSEA 7379171 & 7379172 STYLE CONNECTORS	G CARC GREEN
TAC-0750-X-Y	17"	8"	10.50"	13LBS	750M	495M	H HERMAPRODITIC STYLE CONNECTORS	
TAC-1000-X-Y	17"	8"	17.50"	14LBS	1000M	690M	F F-LINK™ FAMILY OF CONNECTORS	
TAC-2000-X-Y	17"	8"	19.50"	16LBS	2000M	1380M	A AMPHENOL TFOCA-II®	
							T TFOCA	
							X NONE INCLUDED	

INTEGRATED TRANSIT CASE & REEL SYSTEMS

MultiDyne offers a full range of integrated transit case solutions for TAC Series reels. We utilize case design based on Loadmaster™ Rotomolded LLDPE Thermoplastic technology featuring modular "Clam Shell" designs, case-to-case stacking capability, removable/hinged covers, recessed draw pull latches, handles and pressure relief valve. These Rotomolded cases are custom fit to TAC series fiber optic reels. The combination of "light weight" case material and fiber optic reel afford the best weight efficiency within the industry.

In addition to custom transit case designs, We also designs integrated fiber optic cleaning kits into each case as an option. Choice of fiber optic cleaning kits include: MIL-C-83526 (TFOCA), M28876, NAVSEA 7379171 & 7379172, 4CH Hermaphroditic, F-Link™, & MIL-DTL-83526 (TFOCA-II®) style connectors.



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M-LINK SERIES

Rugged, Facility and Field
Deployable Fiber Optic Cable
Assemblies



MultiDyne M-LINK™ FLEXIBLE INTER-CONNECT SYSTEM

Perhaps the most innovative fiber optic and electrical inter-connect solution to come along in years, MultiDyne has introduced the M-LINK™ connector family, the ultimate configurable fiber optic or hybrid (combination fiber optic and electrical) inter-connect solution to meet the majority of commercial, industrial and military application needs. This Patented (pending) connector platform starts with configurable pin or socket insert caps which can be added to either plug or receptacle. A series of modules are then provisioned into either male or female cavities to form an active channel for fiber pins, fiber optic sockets, electrical pins, electrical sockets or dummy modules to seal un-wanted cavities. Combined with M-LINK™ hybrid cable or fiber optic cable style back shells, the M-LINK™ system can also accommodate any configuration up to 32 channels, with any combination of fiber optic or #16 AWG electrical contacts.

Connectivity Environment:	HYBRID/FIBER OPTIC FIXED NETWORK
MIL Specification References:	PROPRIETARY
Channel Count:	2 - 7 CHANNELS
Description:	MultiDyne HIGH PERFORMANCE MULTI-CHANNEL FIBER OPTIC INTER-CONNECT SYSTEM
Termini Information:	M-LINK™ FIBER OPTIC TERMINI

M-Link Rugged Receptacle



M-Link Rugged Connector and Fan-out Assembly



SPECIFICATIONS

MultiDyne P/N

MDA-x-yy-ww-A110z
MDB-x-yy-ww-A110z
MDC-x-yy-ww-A100N
MDD-x-yy-ww-A100N
MDE-x-yy-ww-A100N
MDF-x-yy-ww-A100N
MDG-x-yy-ww-A100N
MDH-x-yy-ww-A100N
MTP2042DD01
MUV164016AA
MUV164116AA

DESCRIPTION

7CH - M-LINK™ PLUG, MALE W/STRAIGHT BACKSHELL
7CH - M-LINK™ PLUG, FEMALE W/STRAIGHT BACKSHELL
7CH - M-LINK™ IN-LINE RECEPTACLE, MALE
7CH - M-LINK™ IN-LINE RECEPTACLE, FEMALE
7CH - M-LINK™ PANEL MNT RECEPTACLE, MALE
7CH - M-LINK™ PANEL MNT RECEPTACLE, FEMALE
7CH - M-LINK™ JAM NUT RECEPTACLE, MALE
7CH - M-LINK™ JAM NUT RECEPTACLE, FEMALE
M-LINK™, FIBER OPTIC TERMINI, NON-GENDER, 1.25mm FERRULE
PIN CONTACT, ELECTRICAL, 16 #AWG
SOCKET CONTACT, ELECTRICAL, 16 #AWG

DESCRIPTION

(x) = n, NOT USED
(x) = 1, 16 AWG W/O GRD
(x) = 2, 16 AWG W/ GRD
(x) = 3, 10 AWG W/O GRD
(x) = 4, 10 AWG W/ GRD
(yy) = 01-07 ELECTRICAL
(ww) = 01-07 FIBER OPTIC
(z) = A, "0.190 –

