



Connectivity Delivered

Pierside Umbilical Cable Assemblies (UCA's)

500ft Umbilical Assembly w/Composite Spool

Manufactured with Low Smoke/Zero Halogen (LSZH) Fiber

Part# KFO 30003

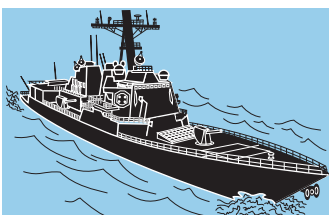
500ft Umbilical Assembly w/Composite Spool and Stand

Manufactured with Low Smoke/Zero Halogen (LSZH) Fiber

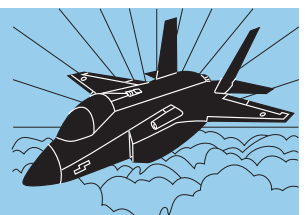
Part# KFO 30004

KITCO Fiber Optics manufactures pierside optical Umbilical Cable Assemblies (UCA's) utilizing Marmon Aerospace & Defense's DN-60031 LSZH (Low Smoke, Zero Halogen), hybrid 12 channel fiber optic pierside umbilical cable. This cable contains four OS2 singlemode and eight OM1 62.5/125um multimode optical fibers. The cable is also designed to meet the fire retardancy requirements in M24643 in accordance with shipboard crew safety standards which enables the reels to be safely stored aboard ship.

Manufactured entirely in the US this cross-linked (thermoset) jacket offers superior chemical resistance and prevents the spread of flame in fire conditions. The Marmon A&D cable is built in a MIL-STD-790 facility and the 12 channel hermaphroditic connectors are installed on each end of the spool in accordance with MIL-STD-2042(SH) (C) by KITCO Fiber Optics. KITCO repairs as well as manufactures these UCA's in their Virginia Beach, VA facility and certifies them with MQJ's (Measurement Quality Jumpers) and Qualified Test Equipment. Reels of these umbilical cable assemblies may be procured on composite reels, with or without a stand; standard length is 500 feet and custom lengths are available.



Call 1.757.518.8100 or visit www.kitcofiberoptics.com
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PierSide Connectivity Termination Kit

Pierside Connectivity Termination Kit
(Light Duty Connector ST, COTS SC and M29504 Termini)
NAVSEA Drawing # 7325763
Part# 4000-1010

The 4000-1010 Pierside Connectivity Termination Kit contains all the proper tools and consumables needed to connectorize the (M29504/14 and M29504/15) installed in the 12-channel Hermaphroditic connector, Single Terminus, (ST) M83522/16 Light Duty, and (SC) TIA 604-3 connectors onto the end of fiber optic, single fiber cable strands. A 70 durometer resilient pad, and polishing papers (5µm AO, 1µm AO, 0.1µm diamond) are included to allow the installer to accomplish a multimode or "enhanced" singlemode polish.

This kit contains the following items:

- Kevlar Shears
- Cleaning Wire
- Insertion Tools
- Removal Tool
- Alignment Sleeve Insertion and Removal Tool (ASIRT)
- Flashlight
- Curing Oven
- Microscope
- Polishing Tools
- Ruler
- Scribe
- Allen Wrench
- Boot Ring Tool
- Templates
- Marking Pen
- Tweezers
- ... and much more

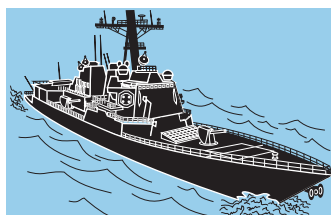


Pierside Connectivity Upgrade Kit
Part# 4000-1015

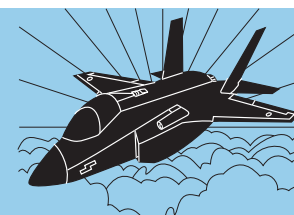
The 4000-1015 Upgrade Kit, when used with the 0400-1010 kit, contains the additional tools needed to install a 12-channel backshell onto a hermaphroditic connector plug.

This kit contains the following

- Torque Wrench
- Allen Wrenches
- Socket Adapter
- O-Ring Installation Tool
- Crow's Foot Attachments
- Template



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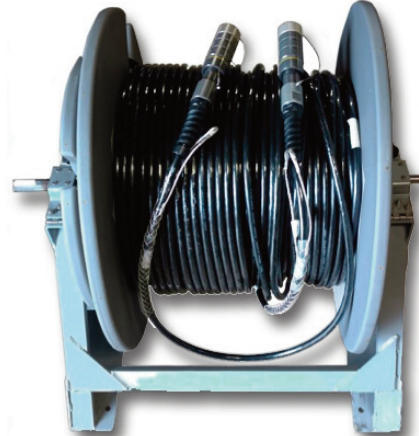
Umbilical Reel Assemblies Composite Spools

*Do your umbilical assemblies
look like this?*



KITCO Fiber Optics can now build your pierside umbilical reel assemblies using our new composite spool and even more exciting is that these reels can now be stored aboard ship. The complete umbilical assembly can be ordered with or without a stand.

*...then we have
the solution for you*



Advantages

- Spools are made of lightweight, durable reinforced glass nylon and conform to A3364363 CECOM specifications
- Solves your corrosion problems
- Assembly inner/outer jacket material conforms to flame retardant shipboard specifications, M85045, for smoke, halogen, acid gas and toxicity content and...
 - a. Is manufactured with Low/Smoke Zero Halogen Cross-linked Polyolefin
 - b. Exceeds recommended Tensile Strength
 - c. Exceeds recommended Impact and Crush resistance specifications
 - d. Exceeds Operating and Temperature specifications

Wooden Spools

500ft Umbilical Assembly w/Wooden Spool

Manufactured with Water Resistant Polyurethane Fiber
Part# KFO 11565

500ft Umbilical Assembly w/Wooden Spool

Manufactured with Low Smoke/Zero Halogen (LSZH) Fiber
Part# KFO 30002

Composite Spools

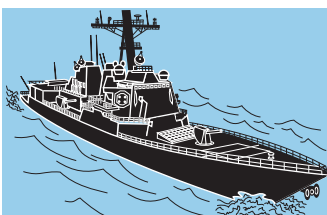
500ft Umbilical Assembly w/Composite Spool

Manufactured with Low Smoke/Zero Halogen (LSZH) Fiber
Part# KFO 30003

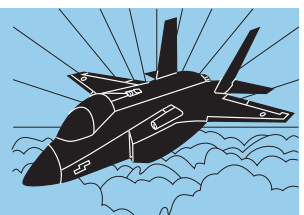
500ft Umbilical Assembly w/Composite Spool and Stand

Manufactured with Low Smoke/Zero Halogen (LSZH) Fiber
Part# KFO 30004

Composite Spool for Umbilical Assembly
Part# 0900-3025



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Marmon Aerospace & Defense Group Pierside Connectivity Solutions

Ship-to-Shore Fiber Optic, Data & RF Communications

KITCO:

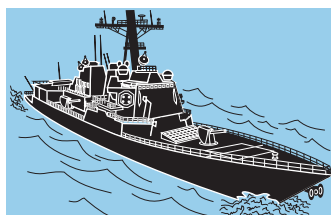
- Data cable assemblies (Cat5e)
- Ship-to-shore fiber optic umbilical cable assemblies (UCA)
- On-board and pierside fiber optic cable assemblies
- RF portable repeater boxes and connection cables

Ship-to-Shore Power

Marmon A&D:

- Custom ship-to-shore electrical cables
- Pierside /umbilical cable assemblies

Engineering Design & Installation Service Solutions



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