

## CAMPLEX TACTICAL FIBER OPTIC SOLUTIONS

### Why Complex?

- Low Insertion Loss
- Low Return Loss
- Clean And Scratch Free
- Quick Turn Around
- Custom Lengths
- Special Labeling
- Color Coding
- Factory Tested
- Interferometer & End Face Tests sent with each cable shipment

### Custom Fiber Solutions Specialized for Broadcasting, Pro Audio and Pro AV

#### Breakout Cables



#### Specialty Products



### Complex 12-Channel Fiber Optic Tactical Reels with ST or LC Connectors

Ruggedized multi-channel fiber optic cables designed for multiple deployments for field production in outside broadcast, rental houses and more. Highly flexible tight-buffered tactical cables with internal aramid strength members for crush resistance in high traffic areas if handled properly and a polyurethane outer sheath designed to withstand crushing by both military tanks and Outside Broadcast vehicles. All assemblies multi-stage machine polished and tested for <.55db RL with test results for each channel supplied with each cable. Built in-house at our state-of-the-art LEMO trained fiber shop with full repair services available.

Note: Our Tactical Fiber Snake Reel INCLUDE Schill fiber optic cable reels with connector protection cavity and hinged latching door. Each Schill reel has been carefully selected to ensure proper support and critical bend radius required by fiber optic cables. We recommend tactical fiber optic cables over 25 feet be stored on a cable reel.

#### FEATURES:

- ◆ Built in our Fiber Shop with OCC Multichannel Tactical Cable & Heavy Duty Connectors with Dust Caps
- ◆ Individual Channels Ruggedized with Techflex Protection & 24-Inch Fanout
- ◆ Compact, round cable design for ease of transportation and deployment
- ◆ Helically stranded cable core for flexibility, deployment survivability and exceptional mechanical protection for the optical fibers
- ◆ Can be used outdoors for temporary deployment directly on the ground in all terrains, including severe environments
- ◆ Suitable for outside broadcast, industrial, mining and petrochemical environments - chemical resistant
- ◆ Meets & Exceeds MIL-PRF-85045 Specifications!



## CAMPLEX®

**Extremely Rugged & Lightweight Tactical Fiber Snakes Designed for Broadcast & Pro-Audio Applications!**

**12-Channel ST Multi Mode OM3 Fiber Optic Tactical Snake Reels with ST or LC Connectors**

**12-Channel ST Multimode Orange OM1 62.5 Micron Fiber Optic Tactical Snake Reels with ST or LC Connectors**

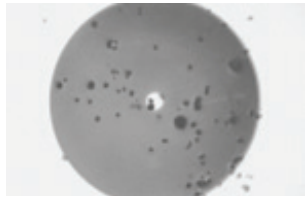


#### SPECIFICATIONS:

- Operating Temperature: -55C to +85C (Storage -70C to +85C)
- Impact Resistance: 200 Impacts (EIA/TIA-455-25A)
- Crush Resistance: 440N/cm
- Flex Resistance: 2,000 cycles
- Machine polished UPC Connectors, Back Reflection is <-55dB RL(Typical)
- Gigabit Ethernet Max Distance: 5km @ 1310nm (Singlemode)
- Gigabit Ethernet Max Distance: 600m @ 1310 (Multimode)
- Attenuation: < 0.5dB/km @1310
- Attenuation: < 1.5dB/km @1310

## CAMPLEX TACTICAL FIBER OPTIC SOLUTIONS

### Clean Before



### After



### Test



### Repair

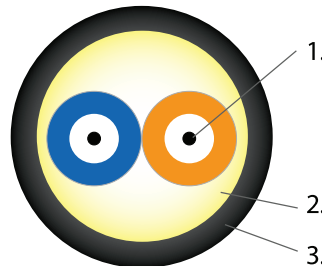


### Rebuild

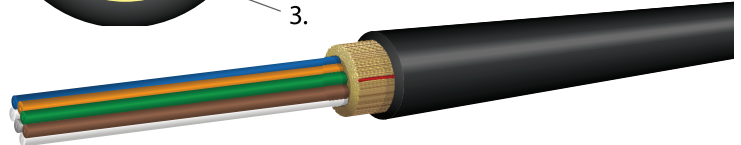


### D-Series Distribution Field Broadcast Cables

- ◆ Crush resistant and resilient with a thick layer of aramid and kevlar strength members
- ◆ Polyurethane jacketed for abrasion, cut and chemical resistance
- ◆ Extremely strong, lightweight, rugged, survivable tight-buffered cables are designed for broadcast field use and commercial applications
- ◆ Compact, round cable design for ease of transportation and deployment
- ◆ Core-locked jacket for improved mechanical performance
- ◆ Designed for use in adverse environments where reduced size and weight are important
- ◆ Helically stranded cable core for flexibility, survival in difficult pulls, and exceptional mechanical protection for the optical fibers
- ◆ Cables have been tested and are in use in broadcast data communications applications worldwide
- ◆ Can be used outdoors for temporary deployment directly on the ground in all terrains, including severe environments
- ◆ Suitable for industrial, mining and petrochemical environments; chemical resistant
- ◆ Most commonly used with ruggedized multiway military tactical field connectors, for maximum connector retention (400lbs.)
- ◆ Tactical Polyurethane (C) outer jacket materials is standard; Flame-Retardant Tactical (V) and Low-Smoke Zero-Halogen (G) outer jacket materials are available

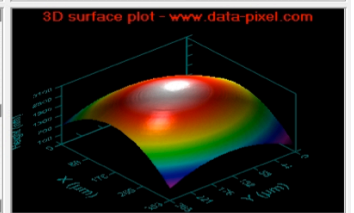
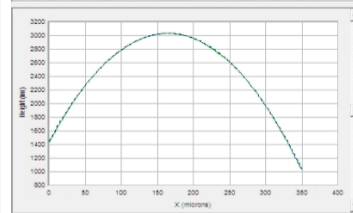
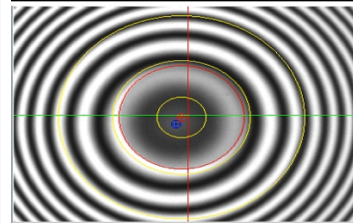


1. Glass Fiber Conductor
2. Aramid Strength Members
3. PUR Protective Jacket



### Complex Assembly Test Report

<b>Sample ID:</b> CH-1A			<b>PASS</b>	
<b>Sample Type:</b> PC				
<b>Measurement Time &amp; Date:</b> 20131101_150110				
<b>Fitting Regions:</b> D=250um; E=140um; F=50um;				
Measurement Parameter	PASS/FAIL Settings		Measurement Result	Passed or Failed
	Minimum	Maximum		
Ferrule Radius of Curvature	7.00	25.00	8.53 mm	PASS
Fiber Radius of Curvature	n/a	n/a	8.41 mm	
Fiber Height (Spherical Fit)	-295.6	50.0	-2.8 nm	PASS
Fiber Height (Planar Fit)	n/a	n/a	252.1 nm	
Apex Offset	0.0	50.0	10.2 μm	PASS
Apex Bearing	n/a	n/a	209.7 deg.	
Angle Error	n/a	n/a	0.068 deg.	
Key Error	n/a	n/a	n/a deg.	
Fiber Roughness (Sq)	0	50	3 nm	PASS
Ferrule Roughness (Sq)	0	50	3 nm	PASS
Ferrule Bore Diameter	n/a	n/a	126.8 μm	
<b>Comments</b>				



<b>Sample ID:</b> CH-1A			1310nm	1550nm
<b>PASS</b>   20131101_150110			n/a	n/a
			RL	n/a

