

CAMPLEX SMPTE 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



Breakout Boxes



SMPTE to OpticalCon



Complex SMPTE Lemo FUW Male Plug to PUW Female Socket Furukawa Outside Broadcast SMPTE Fiber Camera Cables

Featuring ultra-precision LEMO certified machine polished fiber contacts for the most demanding applications for high-speed uncompressed HD video transmissions over long distances. All assemblies multi-stage machine polished and tested for <math>< .55\text{db}</math> RL with test results (diagnostics) supplied with each cable. Meets or exceeds SMPTE 304M/311M standards. Built in-house by LEMO trained technicians at our state-of-the-art fiber shop with full repair services available. *Custom lengths and configurations always available.*

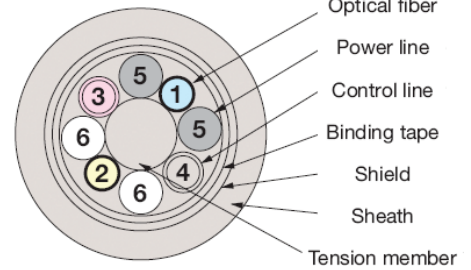
Features:

- ◆ Industry standard cables
- ◆ Terminations by LEMO Certified Technicians
- ◆ Electrical assemblies 100% tested for continuity and shorts
- ◆ Fiber optic assemblies 100% tested for attenuation and back reflection
- ◆ SMPTE 311M and 304M compliant
- ◆ Stainless steel assemblies ◆ Rubber dust caps
- ◆ 19.4 Mbps to 3 Gbps transport ◆ Machine polished fiber contacts
- ◆ Low insertion and return loss (Documented)

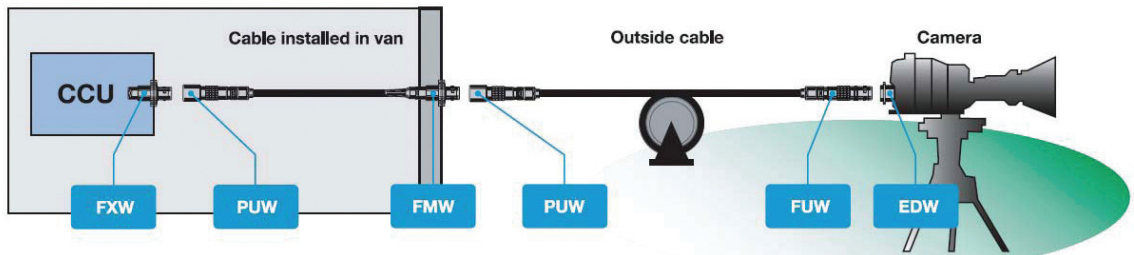


Certified Multistage Machine Polished Cables Exceeding SMPTE Specifications!

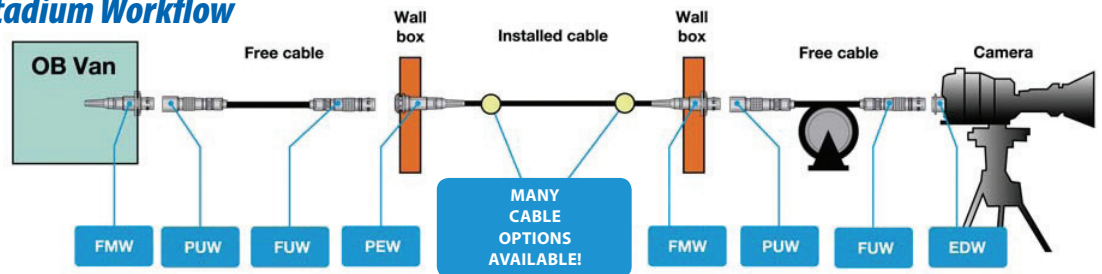
● Structure



Outside Broadcast Van Workflow



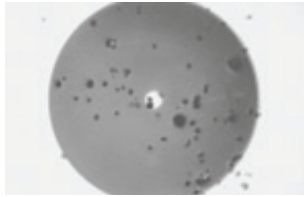
Stadium Workflow



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Cleaning

Before



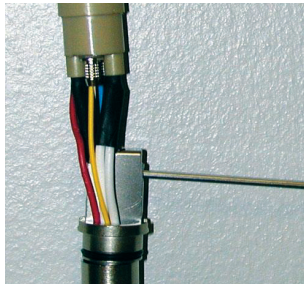
After



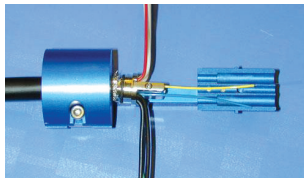
Testing



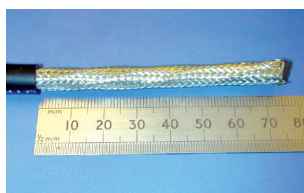
Repair



Rebuild



Replace



1. The global standard for HDTV fiber connectors

LEMO developed the 3K.93C Series connectors in the early stages of the introduction of HDTV, becoming the standard for high-definition TV. It is one of the only connectors being used worldwide that complies fully with SMPTE, ARIB and EBU standards for both signal and cable. LEMO's 3K.93C connectors are the standard in national and international broadcast companies.

Benefits:

- Quick disconnect Push-Pull self latching system
- Over 11 shells to meet various application needs
- Stainless steel shell for rugged and harsh environment
- UL certified connectors

Highest performance with LEMO standard F2 fiber contact

The advantage of using epoxy and polish contacts is the reliability of the termination and longevity of the connector to assure a quality signal transmission. These contacts are very robust and can withstand wide outdoor temperature variations.

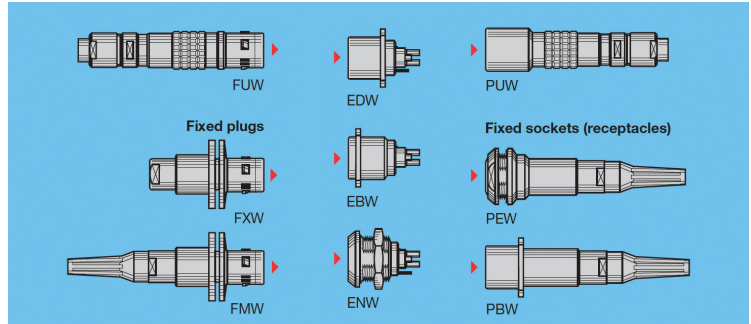
2. Complex has partnered with LEMO to deliver the highest quality assembly options to its customer base.

Complex continues to be the unsurpassed leader in the field, utilizing LEMO's rugged stainless steel connectors and manufacturing with the patience and care that Complex brings to its SMPTE hybrid fiber assemblies. Fiber assemblies are machine polished for >55db RL or better and tested end to end, optically and electrically. All Complex broadcast assemblies are backed by our 1 year factory warranty due to any defect in material or workmanship.

If you have a custom requirement that you do not see in our catalog, please contact your factory representative for a quote.

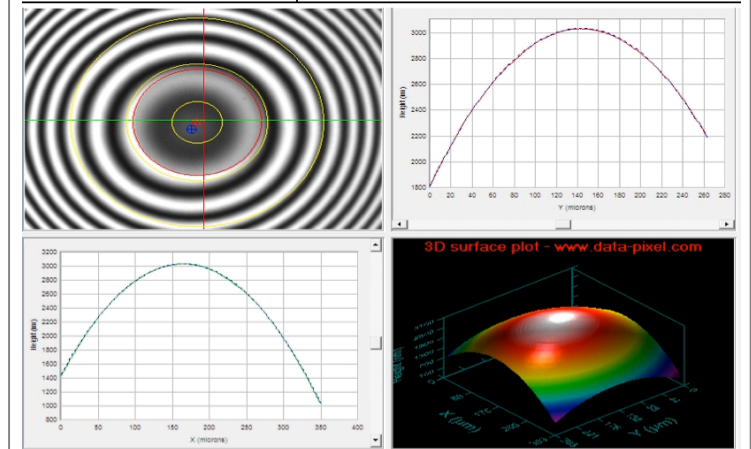
CAMPLEX®.com

1. LEMO 3K.93C Series Connectors



2. Complex Assembly Test Report

Sample ID: CH-1A			PASS	
Sample Type: PC				
Measurement Time & Date: 20131101_150110				
Fitting Regions: 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	
Comments				



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

