

# Fiber Optic Test Cords

#### Overview

Fiber optic test cords connect your tester to the fiber link you're testing and therefore act as a "window" into it. If that "window" is of poor quality or dirty, then your measurements will inaccurate. That's why Fluke Networks offers a wide array of test cords that match the quality of our instruments. These test cords will also work with other vendors' equipment, with exceptions noted below. (Always check your testers' documentation to ensure you're using acceptable test cords.)



## **Features**

- Includes Test Reference Cords for Accurate Loss Measurements, Launch Fibers for OTDR Measurements, and Port Protection cords
- Supports a wide variety of connector types including LC, SC, ST, FC, MPO and E2K in UPC and APC versions
- Features the Durable Fluke Metal LC connector with latching mechanism tested to 10,000 insertions
- Test Reference Cords, used for optical loss (Tier 1) measurements, include reference grade connectors and fiber to minimize measurement errors
- Launch Fibers are packaged in a rugged, convenient zipper case, designed for use with our T-Pak magnetic / hanger / hook and loop strap. Also known as launch packs or Dead Zone Eliminators used for OTDR (Tier II) testing

# Award-Winning, Durable Metal LC Connectors

Fluke Networks Test Reference Cords and Launch Fibers with LC connectors feature our unique metal latch design. Traditional LC connectors use a single-piece plastic design that flexes the latching mechanism each time the connector is inserted and removed and eventually breaks, making them unsuitable for repeated use in testing. The Fluke Networks Metal LC latching system uses a multi-piece metal design with a spring located between the latch and connector body. Since this latch is not part of the body and does not flex, the life of the latching mechanism is greatly improved, thereby extending the life of the LC connector and therefore the TRC's and launch cords.

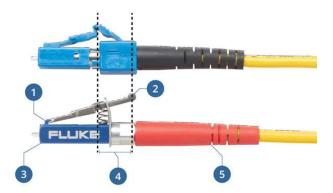
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#### Metal LC connectors

The Metal LC connector is compliant with IEC 61754-20 and TIA-604-10B intermateability standards. That latch has also been tested for up to 10,000 insertions with no degradation in performance and passes all Telecordia GR-326-CORE durability tests including thermal, humidity, vibration, flex, impact, and salt spray. While the connector itself is the most rugged available, the glass fiber endface is still susceptible to damage, so it's important to inspect the endface to make sure it's contaminant-free and to properly clean it if necessary.



## Metal vs. plastic LC connectors

- 1. Durable Metal Construction with Non-Flexing Latch
- 2. Rounded Latch Release: Easier on the Fingers
- 3. Rounded Corners for Easier Insertion
- 4. Greater Leverage: Less Force Required
- 5. Color Coded for Use with CertiFiber™ Pro: Reduces Setup Errors
- 6. Available for MM, SM, UPC and APC
- 7. Meets and ISO & TIA Intermateability Standards (LC)

# Compact, Rugged, and Convenient OTDR Launch Cords

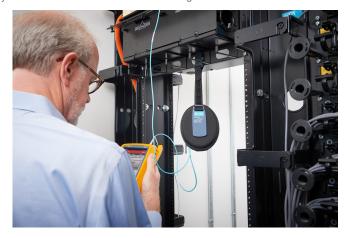
OTDR launch cords don't have to be big and clumsy. Fluke Networks Launch Cords are enclosed in a compact, rugged, and convenient zip case that allows the user to pull out as much or as little cable as needed to keep things organized. The case is compatible with Fluke's T-Pak™ Magnetic Meter Hanger (sold separately), which allows the case to be suspended out of the way using its magnetic / hanger / hook and loop strap.

Launch cords are long fiber links that allow an OTDR to properly measure the performance of the first and last connector on a fiber optic link. The reflection from the OTDR port effectively blocks the OTDR from seeing the first part of the cable, so using a launch fiber allows the OTDR to separate the reflection from

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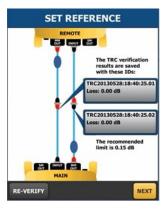
the port and the first connector in the link. Fluke's launch cords use reference grade fiber and connectors to minimize the impact of the cord on the measurements. When used in sets of three, these cords also support the OptiFiber™ Pro OTDR's SmartLoop™ that tests two fibers in both directions and averages the measurements as required by TIA-568.3-D in seconds - without taking the OTDR to the far end.



# Test Reference Cords (TRC's)

Today's fiber networks operate with tighter and tighter loss requirements, so accurate measurements are critical. That's why our Test Reference Cords are designed with the highest quality reference grade connectors and cabling. TRC's are color coded to make it easy to set reference correctly – one of the leading causes of measurement errors – and are designed to work with the CertiFiber Pro's Set Reference Wizard which virtually eliminates mistakes.

Note that multimode Test Reference Cords with an "EF" designation include Encircled Flux conditioners designed for use with the CertiFiber Pro and are not recommended for use with other testers.



Setting reference on a CertiFiber Pro

# Port Protector Cords

Port Protector cords are short (1 ft / 0.3 m) cords designed to be installed in the OTDR's port, and then attached to the appropriate test cords or Launch Fiber. The end of the cord remains plugged into the tester during testing and the fibers under test are plugged into the other end. This greatly reduces the risk of damage to the tester's port, which can be difficult and costly to repair. If the port protector cord is damaged, it can be quickly replaced at low cost. Fluke Networks' port protector cords feature reference grade connectors and fibers. This, plus their short length and location next to the port of the OTDR make them invisible to the OTDR and they will not negatively impact your measurements.

## Models

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Model	Description	Function	Fiber Type
Test Reference Cords – Ki	ts (set of four) - 50μ Multimode	1	
MRC-50EFC-SCFCKIT	EF TRC KIT 50 FOR TESTING FC FIBERS	TRC Kit	MM 50μ
MRC-50EFC-SCLCKITM	MULTIMODE 50UM EF TRC KIT EM (2 SC/LC, 2 LC/LC), METAL	TRC Kit	MM 50μ
MRC-50EFC-SCSCKIT	EF TRC KIT 50 FOR TESTING SC FIBERS	TRC Kit	MM 50μ
MRC-50EFC-SCSTKIT	EF TRC KIT 50 FOR TESTING ST FIBERS	TRC Kit	MM 50μ
Test Reference Cords – Ki	ts (set of four) – 62.5µ Multimode		
MRC-625EFC-SCFCKIT	EF TRC KIT 62.5 FOR TESTING FC FIBERS	TRC Kit	MM 62.5μ
MRC-625EFC-SCSCKIT	EF TRC KIT 62.5 FOR TESTING SC FIBERS	TRC Kit	MM 62.5μ
MRC-625EFC-SCSTKIT	EF TRC KIT 62.5 FOR TESTING ST FIBERS	TRC Kit	MM 62.5μ
MRC-62EFC-SCLCKITM	MULTIMODE 62.5UM EF TRC KIT EM (2 SC/LC, 2 LC/LC), METAL	TRC Kit	MM 62.5μ
Test Reference Cords – Ki	ts (set of four) – 9µ Single-mode		
SRC-9-SCFC-KIT	SINGLEMODE TRC KIT 2M (2 SC/FC, 2 FC/FC)	TRC Kit	SM
SRC-9-SCLCAPCKIT-M	SM TRC SC/LC APC KIT (2 SC/LCAPC, 2 LCAPC,LCAPC), METAL	TRC Kit	SM
SRC-9-SCLC-KIT-M	SINGLEMODE TRC KIT 2M (2 SC/LC, 2 LC/LC), METAL	TRC Kit	SM
SRC-9-SCSCAPCKIT	SINGLEMODE SIMPLEX TEST REFERENCE CORD SC/SC APC KIT	TRC Kit	SM

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SRC-9-SCSC-KIT	SINGLEMODE TRC KIT 2M (4 SC/SC)	TRC Kit	SM
SRC-9-SCST-KIT	SINGLEMODE TRC KIT 2M (2 SC/ST, 2 ST/ST)	TRC Kit	SM
SRC-9-SCE2KAPCKIT	SINGLEMODE SIMPLEX TEST REFERENCE CORD SC/E2K APC KIT	TRC Kit	SM
Test Reference Cords (Inc	lividual) - 50μ Multimode		
MRC-50-EFC-SCFC	MULTIMODE EF TRC 2M 50UM (SC/FC)	TRC	MM 50µ
MRC-50-EFC-SCLC-M	MULTIMODE 50UM EF TRC 2M (SC/LC), METAL	TRC	MM 50μ
MRC-50-EFC-SCSC	MULTIMODE EF TRC 2M 50UM(SC/SC)	TRC	MM 50µ
MRC-50-EFC-SCST	MULTIMODE EF TRC 2M 50UM (SC/ST)	TRC	MM 50µ
MRC-50-FCFC	MULTIMODE TRC 2M 50UM, FC/FC	TRC	MM 50μ
MRC-50-LCLC-M	MULTIMODE 50UM TRC 2M (LC/LC), METAL	TRC	MM 50μ
MRC-50-SCSC	MULTIMODE TRC 2M 50UM, SC/SC	TRC	MM 50µ
MRC-50-STST	MULTIMODE TRC 2M 50UM, ST/ST	TRC	MM 50µ
Test Reference Cords (Inc	lividual) – 62.5µ Multimode	1	
MRC-625-EFC-SCFC	MULTIMODE EF TRC 2M 62.5UM (SC/FC)	TRC	MM 62.5μ
MRC-625-EFC-SCLC-M	MULTIMODE 62.5UM EF TRC 2M (SC/LC), METAL	TRC	MM 62.5μ
MRC-625-EFC-SCSC	MULTIMODE EF TRC 2M 62.5UM (SC/SC)	TRC	MM 62.5μ
MRC-625-EFC-SCST	MULTIMODE EF TRC 2M 62.5UM (SC/ST)	TRC	MM 62.5μ
MRC-625-FCFC	MUI TIMODE TRC 2M 62 5UM FC/FC	TRC	MM

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			62.5µ
MRC-625-LCLC-M	MULTIMODE 62.5UM TRC 2M (LC/LC), METAL	TRC	MM 62.5μ
MRC-625-SCSC	MULTIMODE TRC 2M 62.5UM, SC/SC	TRC	MM 62.5μ
MRC-625-STST	MULTIMODE TRC 2M 62.5UM, ST/ST	TRC	MM 62.5μ
Test Reference Cords (Ind	ividual) - 9μ Single-mode		
SRC-9-FCFC	SINGLEMODE TRC 2M (FC/FC)	TRC	SM
SRC-9-LCLCAPC-M	SINGLEMODE TRC 2M (LC-LCAPC), METAL	TRC	SM
SRC-9-LCLC-M	SINGLEMODE TRC 2M (LC/LC), METAL	TRC	SM
SRC-9-SCAPC/FCAPC	SM TRC (2M) FOR TESTING SCAPC/FCAPC	TRC	SM
SRC-9-SCAPC/LCAPCM	SINGLEMODE TRC 2M (SCAPC- LCAPC), METAL	TRC	SM
SRC-9-SCAPC/SCAPC	SM TRC (2M) FOR TESTING SCAPC/SCAPC	TRC	SM
SRC-9-SCFC	SINGLEMODE TRC 2M (SC/FC)	TRC	SM
SRC-9-SCLCAPC	SINGLEMODE TRC 2M (SC-LCAPC)	TRC	SM
SRC-9-SCLCAPC-M	SINGLEMODE TRC 2M (SC-LCAPC), METAL	TRC	SM
SRC-9-SCLC-M	SINGLEMODE TRC 2M (SC/LC), METAL	TRC	SM
SRC-9-SCSC	SINGLEMODE TRC 2M (SC/SC)	TRC	SM
SRC-9-SCSCAPC	SINGLEMODE TRC 2M (SC-SCAPC)	TRC	SM
SRC-9-SCST	SINGLEMODE TRC 2M (SC/ST)	TRC	SM
SRC-9-STST	SINGLEMODE TRC 2M (ST/ST)	TRC	SM

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OTDR Launch Cords - 50µm Multimode			
MMC-50-FCFC	MULTIMODE LAUNCH CABLE 50UM FC/FC	Launch	MM 50µ
MMC-50-LCLC-M	MULTIMODE 50UM LAUNCH CABLE 105M (LC/LC), METAL	Launch	MM 50µ
MMC-50-SCE2K	MULTIMODE LAUNCH CABLE 50UM SC/E2000	Launch	MM 50µ
MMC-50-SCFC	MULTIMODE LAUNCH CABLE 50UM SC/FC	Launch	MM 50µ
MMC-50-SCLC-M	MULTIMODE 50UM LAUNCH CABLE 105M (SC/LC), METAL	Launch	MM 50µ
MMC-50-SCSC	MULTIMODE LAUNCH CABLE 50UM SC/SC	Launch	MM 50µ
MMC-50-SCST	MULTIMODE LAUNCH CABLE 50UM SC/ST	Launch	MM 50µ
MMC-50-STST	MULTIMODE LAUNCH CABLE 50UM ST/ST	Launch	MM 50µ
OTDR Launch Cords – 62.5µm Multimode			
MMC-62.5-FCFC	MULTIMODE LAUNCH CABLE 62.5UM FC/FC	Launch	MM 62.5μ
MMC-62.5-LCLC-M	MULTIMODE 62.5UM LAUNCH CABLE 105M (LC/LC), METAL	Launch	MM 62.5μ
MMC-62.5-STST	MULTIMODE LAUNCH CABLE 62.5UM ST/ST	Launch	MM 62.5μ
MMC-62-SCFC	MULTIMODE LAUNCH CABLE 62.5UM SC/FC	Launch	MM 62.5μ
MMC-62-SCLC-M	MULTIMODE 62.5UM LAUNCH CABLE 105M (SC/LC), METAL	Launch	MM 62.5μ
MMC-62-SCSC	MULTIMODE LAUNCH CABLE 62.5UM SC/SC	Launch	MM 62.5μ
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MMC-62-SCST	MULTIMODE LAUNCH CABLE 62.5UM SC/ST	Launch	MM 62.5μ
OTDR Launch Cords - 9µm	n Single-mode		
SMC9-E2KAPC/E2KAPC	SM 9UM LAUNCH CORD (160M) FOR E2KAPC/E2KAPC	Launch	SM
SMC-9-FCAPC/FCAPC	SM 9UM LAUNCH CORD (160M) FOR FCAPC/FCAPC	Launch	SM
SMC-9-FCFC	SINGLEMODE LAUNCH CABLE 9UM FC/FC	Launch	SM
SMC-9-LCAPC/LCAPCM	SINGLEMODE LAUNCH CORD 160M (LCAPC/LCAPC), METAL	Launch	SM
SMC-9-LCLC-M	SINGLEMODE LAUNCH CABLE 160M (LC/LC), METAL	Launch	SM
SMC-9-SCAPC/E2KAPC	SM 9UM LAUNCH CORD (160M) FOR SCAPC/E2KAPC	Launch	SM
SMC-9-SCAPC/FC	SM 9UM LAUNCH CORD (160M) FOR SCAPC/FCUPC	Launch	SM
SMC-9-SCAPC/FCAPC	SM 9UM LAUNCH CORD (160M) FOR SCAPC/FCAPC	Launch	SM
SMC-9-SCAPC/LC	SM 9UM LAUNCH CORD (160M) FOR SCAPC/LCUPC	Launch	SM
SMC-9-SCAPC/LCAPCM	SINGLEMODE LAUNCH CORD 160M (SCAPC/LCAPC), METAL	Launch	SM
SMC-9-SCAPC/LC-M	SINGLEMODE LAUNCH CORD 160M (SCAPC/LCUPC), METAL	Launch	SM
SMC-9-SCAPC/SCAPC	SM 9UM LAUNCH CORD (160M) FOR SCAPC/SCAPC	Launch	SM
SMC-9-SCAPC/ST	SM 9UM LAUNCH CORD (160M) FOR SCAPC/STUPC	Launch	SM
SMC-9-SCE2KAPC	SINGLEMODE LAUNCH CABLE 9UM SC/E2000APC	Launch	SM

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SMC-9-SCFC	SINGLEMODE LAUNCH CABLE 9UM SC/FC	Launch	SM
SMC-9-SCFCAPC	SINGLEMODE LAUNCH CABLE 9UM SC/FCAPC	Launch	SM
SMC-9-SCLCAPC-M	SINGLEMODE LAUNCH CABLE 160M (SC/LCAPC), METAL	Launch	SM
SMC-9-SCLC-M	SINGLEMODE LAUNCH CABLE 160M (SC/LC), METAL	Launch	SM
SMC-9-SCSC	SINGLEMODE LAUNCH CABLE 9UM SC/SC	Launch	SM
SMC-9-SCSCAPC	SINGLEMODE LAUNCH CABLE 9UM SC/SCAPC	Launch	SM
SMC-9-SCST	SINGLEMODE LAUNCH CABLE 9UM SC/ST	Launch	SM
SMC-9-STST	SINGLEMODE LAUNCH CABLE 9UM ST/ST	Launch	SM
Port Protector Cords (0.3 r	neter) Multimode	I	I
MRC-50-LCLC-0.3M-M	MULTIMODE 50UM TRC 0.3M FOR OTDR PORT (LC/LC), METAL	Port Protector	MM 50μ
MRC-50-SCSC-0.3M	MM 50UM TRC 0.3M FOR OTDR PORT (SC/SC)	Port Protector	MM 50μ
MRC-62.5-LCLC.3M-M	MULTIMODE 62.5UM TRC 0.3M FOR OTDR PORT (LC/LC), METAL	Port Protector	MM 62.5μ
MRC-62.5-SCSC-0.3M	MM 62.5UM TRC 0.3M FOR OTDR PORT (SC/SC)	Port Protector	MM 62.5μ
Port Protector Cords (0.3 meter) Single-mode			
SRC-9-LCLC-0.3M-M	SINGLEMODE TRC 0.3M FOR OTDR PORT (LC/LC), METAL	Port Protector	SM
SRC9SCAPCLCAPC.3MM	SINGLEMODE TRC 0.3M FOR OTDR PORT (SCAPC/LCAPC), METAL	Port Protector	SM
SRC9SCAPCSCAPC0 3M	SM 9 UM TRC 0.3M FOR OTDR	Port	SM

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	PORT (SCAPC/SCAPC)	Protector	J
SRC9SCAPCSCUPC0.3M	SM 9 UM TRC 0.3M FOR OTDR PORT (SCAPC/SCUPC)	Port Protector	SM
SRC-9-SCLC-0.3M-M	SINGLEMODE TRC 0.3M FOR OTDR PORT (SC/LC), METAL	Port Protector	SM
SRC-9-SCSC-0.3M	SM 9UM TRC 0.3M FOR OTDR PORT (SC/SC)	Port Protector	SM

## **Keep Learning**

- Why upgrade test reference cord LC connectors to the Metal LC?
- The Metal LC Connector: say goodbye to broken latches on fiber test reference cords
- Test reference cords (TRCs) vs. patch cords

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# **About Fluke Networks**

Fluke Networks is the worldwide leader in certification, troubleshooting, and installation tools for professionals who install and maintain critical network cabling infrastructure. From installing the most advanced data centers to restoring service in the worst weather, our combination of legendary reliability and unmatched performance ensure jobs are done efficiently. The company's flagship products include the innovative LinkWare™ Live, the world's leading cloud-connected cable certification solution with over fourteen million results uploaded to date.

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