

## specifications

RoHS compliant fiber optic reference cable assembly kits and assemblies include simplex and duplex LC, SC, and ST connectors and pass all TIA/EIA-568-B.3 performance requirements. Available in multimode (10Gig™ OM3 and OM1) and singlemode (OS1/OS2) fiber types for link testing and diagnostic troubleshooting flexibility. All fiber optic reference cable assembly kits and assemblies are 100% factory inspected.



## technical information

<b>Standard requirements:</b>	TIA/EIA-568-B.3 Performance Requirements 100% factory inspected endface geometry in compliance with Telcordia GR-326-CORE, Issue 3
<b>Insertion loss per connection:</b>	0.10dB maximum (multimode and singlemode)
<b>Return loss:</b>	40dB minimum, PC polished (multimode); 58dB minimum, UPC polished (singlemode)

## key features and benefits

<b>Guaranteed low insertion loss and high return loss</b>	Creates measurement capability for insertion loss and ensures reliable link measurements
<b>Controlled and documented ferrule endface geometry</b>	Assures repeatable, high performance physical contact of fiber connectors under test; demonstrates a high level of capability, ensuring excellent connector performance in all expected network environments
<b>Hybrid reference cord variants</b>	Allows use of test sets with different connectors which provides flexibility to test links with legacy connectors and mix of legacy and current connectors
<b>10Gig™ 50/125 and 62.5/125 multimode mandrels</b>	Flexibility in testing various fiber types to applicable standards requirements for mode conditioning (MM). Mandrels provide a simple, cost effective, and standards based method to improve repeatability and reproducibility of multimode link testing
<b>Reference quality connectors on both ends of cable assembly</b>	Longevity of test cord; in instances of non-hybrid cords, both ends of the references cord can be used to mate to the permanent link loss measurements; provides users the flexibility of using the reference cable in different test methods and various applications
<b>Fiber optic reference cable assembly kits</b>	Provides in-field capability to qualify reference cable suitability for test use which enables users to confirm and validate that the performance of conventional reference cables are within the specification

## applications

OPTI-CORE® Fiber Optic Reference Cable Assembly Kits and Assemblies are required for accurate characterization of link loss in fiber-based permanent links. These cable assemblies are typically used as consumable items in the commissioning and qualification of links (after initial installation). Reference-grade cable assemblies minimize total cost of ownership by providing excellent measurement capability in the face of light application power loss budgets to optimize the physical infrastructure and minimize risk.

### OPTI-CORE® Fiber-Optic Reference Cable Assembly Kits and Assemblies

#### 10Gig™ OM3 Multimode Reference Cable Assembly Kits

<b>Simplex LC-LC/SC-LC:</b>	FR1XS1-R1KIT
<b>Duplex SC-SC:</b>	FR2XSS-RSKIT
<b>Duplex ST-SC:</b>	FR2XS2-RSKIT
<b>Duplex SC-LC:</b>	FR2XSS-RLKIT
<b>Simplex SC-ST/ST-ST:</b>	FR1XS2-R2KIT
<b>Duplex ST-ST:</b>	FR2XS2-R2KIT
<b>Duplex ST-LC:</b>	FR2XS2-RLKIT
<b>Duplex SC-ST:</b>	FR2XSS-R2KIT

#### OM1 Multimode Reference Cable Assembly Kits

<b>Simplex LC-LC/SC-LC:</b>	FR16S1-R1KIT
<b>Duplex SC-SC:</b>	FR26SS-RSKIT
<b>Duplex ST-SC:</b>	FR26S2-RSKIT
<b>Duplex SC-LC:</b>	FR26SS-RLKIT
<b>Simplex SC-ST/ST-ST:</b>	FR16S2-R2KIT
<b>Duplex ST-ST:</b>	FR26S2-R2KIT
<b>Duplex ST-LC:</b>	FR26S2-RLKIT
<b>Duplex SC-ST:</b>	FR26SS-R2KIT

#### OS1/OS2 Singlemode Reference Cable Assembly Kits

<b>Simplex LC-LC/SC-LC:</b>	FR19S1-R1KIT
<b>Duplex SC-SC:</b>	FR29SS-RSKIT
<b>Duplex ST-SC:</b>	FR29S2-RSKIT
<b>Duplex SC-LC:</b>	FR29SS-RLKIT
<b>Simplex SC-ST/ST-ST:</b>	FR19S2-R2KIT
<b>Duplex ST-ST:</b>	FR29S2-R2KIT
<b>Duplex ST-LC:</b>	FR29S2-RLKIT
<b>Duplex SC-ST:</b>	FR29SS-R2KIT

#### 10Gig™ OM3 Multimode Duplex Reference Cable Assemblies

<b>Duplex LC-LC:</b>	FR2XSL-RLM02
<b>Duplex LC-SC:</b>	FR2XSL-RSM02
<b>Duplex LC-ST:</b>	FR2XSL-R2M02
<b>Duplex SC-SC:</b>	FR2XSS-RSM02
<b>Duplex SC-LC:</b>	FR2XSS-RLM02
<b>Duplex SC-ST:</b>	FR2XSS-R2M02
<b>Duplex ST-ST:</b>	FR2XS2-R2M02
<b>Duplex ST-LC:</b>	FR2XS2-RLM02
<b>Duplex ST-SC:</b>	FR2XS2-RSM02

## OPTI-CORE® Fiber-Optic Reference Cable Assembly Kits



FR\*XS\*-R\*KIT

## OPTI-CORE® Fiber-Optic Reference Cable Assemblies



FR\*XSL-RLM0\*

OPTI-CORE® Fiber-Optic Reference Cable Assembly Kits enable users to confirm and validate that the performance of conventional reference cables are still within the specification. OPTI-CORE® Fiber-Optic Reference Cable Assemblies provide users the flexibility of using the reference cable in different test methods and more application scenarios.

### 10Gig™ OM3 Multimode Simplex Reference Cable Assemblies

<b>Simplex LC-LC :</b>	FR1XS1-R1M02
<b>Simplex LC-SC:</b>	FR1XS1-R3M02
<b>Simplex LC-ST:</b>	FR1XS1-R2M02
<b>Simplex SC-SC:</b>	FR1XS3-R3M02
<b>Simplex SC-LC:</b>	FR1XS3-R1M02
<b>Simplex SC-ST:</b>	FR1XS3-R2M02
<b>Simplex ST-ST:</b>	FR1XS2-R2M02
<b>Simplex ST-LC:</b>	FR1XS2-R1M02
<b>Simplex ST-SC:</b>	FR1XS2-R3M02

### OM1 Multimode Duplex Reference Cable Assemblies

<b>Duplex LC-LC:</b>	FR26SL-RLM02
<b>Duplex LC-SC:</b>	FR26SL-RSM02
<b>Duplex LC-ST:</b>	FR26SL-R2M02
<b>Duplex SC-SC:</b>	FR26SS-RSM02
<b>Duplex SC-LC:</b>	FR26SS-RLM02
<b>Duplex SC-ST:</b>	FR26SS-R2M02
<b>Duplex ST-ST:</b>	FR26S2-R2M02
<b>Duplex ST-LC:</b>	FR26S2-RLM02
<b>Duplex ST-SC:</b>	FR26S2-RSM02

### OM1 Multimode Simplex Reference Cable Assemblies

<b>Simplex LC-LC:</b>	FR16S1-R1M02
<b>Simplex LC-SC:</b>	FR16S1-R3M02
<b>Simplex LC-ST:</b>	FR16S1-R2M02
<b>Simplex SC-SC:</b>	FR16S3-R3M02
<b>Simplex SC-LC:</b>	FR16S3-R1M02
<b>Simplex SC-ST:</b>	FR16S3-R2M02
<b>Simplex ST-ST:</b>	FR16S2-R2M02
<b>Simplex ST-LC:</b>	FR16S2-R1M02
<b>Simplex ST-SC:</b>	FR16S2-R3M02

### OS1/OS2 Singlemode Duplex Reference Cable Assemblies

<b>Duplex LC-LC:</b>	FR29SL-RLM02
<b>Duplex LC-SC:</b>	FR29SL-RSM02
<b>Duplex LC-ST:</b>	FR29SL-R2M02
<b>Duplex SC-SC:</b>	FR29SS-RSM02
<b>Duplex SC-LC:</b>	FR29SS-RLM02
<b>Duplex SC-ST:</b>	FR29SS-R2M02
<b>Duplex ST-ST:</b>	FR29S2-R2M02
<b>Duplex ST-LC:</b>	FR29S2-RLM02
<b>Duplex ST-SC:</b>	FR29S2-RSM02

### OS1/OS2 Singlemode Simplex Reference Cable Assemblies

<b>Simplex LC-LC:</b>	FR19S1-R1M02
<b>Simplex LC-SC:</b>	FR19S1-R3M02
<b>Simplex LC-ST:</b>	FR19S1-R2M02
<b>Simplex SC-SC:</b>	FR19S3-R3M02
<b>Simplex SC-LC:</b>	FR19S3-R1M02
<b>Simplex SC-ST:</b>	FR19S3-R2M02
<b>Simplex ST-ST:</b>	FR19S2-R2M02
<b>Simplex ST-LC:</b>	FR19S2-R1M02
<b>Simplex ST-SC:</b>	FR19S2-R3M02

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