

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

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

key features and benefits

Guaranteed low insertion loss and high return loss	Creates measurement capability for insertion loss and ensures reliable link measurements
Controlled and documented ferrule endface geometry	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
Hybrid reference cord variants	Allows use of test sets with different connectors which provides flexibility to test links with legacy connectors and mix of legacy and current connectors
10Gig™ 50/125 and 62.5/125 multimode mandrels	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
Reference quality connectors on both ends of cable assembly	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
Fiber optic reference cable assembly kits	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

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

OM1 Multimode Reference Cable Assembly Kits

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

OS1/OS2 Singlemode Reference Cable Assembly Kits

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

10Gig™ OM3 Multimode Duplex Reference Cable Assemblies

Duplex LC-LC:	FR2XSL-RLM02
Duplex LC-SC:	FR2XSL-RSM02
Duplex LC-ST:	FR2XSL-R2M02
Duplex SC-SC:	FR2XSS-RSM02
Duplex SC-LC:	FR2XSS-RLM02
Duplex SC-ST:	FR2XSS-R2M02
Duplex ST-ST:	FR2XS2-R2M02
Duplex ST-LC:	FR2XS2-RLM02
Duplex ST-SC:	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

Simplex LC-LC :	FR1XS1-R1M02
Simplex LC-SC:	FR1XS1-R3M02
Simplex LC-ST:	FR1XS1-R2M02
Simplex SC-SC:	FR1XS3-R3M02
Simplex SC-LC:	FR1XS3-R1M02
Simplex SC-ST:	FR1XS3-R2M02
Simplex ST-ST:	FR1XS2-R2M02
Simplex ST-LC:	FR1XS2-R1M02
Simplex ST-SC:	FR1XS2-R3M02

OM1 Multimode Duplex Reference Cable Assemblies

Duplex LC-LC:	FR26SL-RLM02
Duplex LC-SC:	FR26SL-RSM02
Duplex LC-ST:	FR26SL-R2M02
Duplex SC-SC:	FR26SS-RSM02
Duplex SC-LC:	FR26SS-RLM02
Duplex SC-ST:	FR26SS-R2M02
Duplex ST-ST:	FR26S2-R2M02
Duplex ST-LC:	FR26S2-RLM02
Duplex ST-SC:	FR26S2-RSM02

OM1 Multimode Simplex Reference Cable Assemblies

Simplex LC-LC:	FR16S1-R1M02
Simplex LC-SC:	FR16S1-R3M02
Simplex LC-ST:	FR16S1-R2M02
Simplex SC-SC:	FR16S3-R3M02
Simplex SC-LC:	FR16S3-R1M02
Simplex SC-ST:	FR16S3-R2M02
Simplex ST-ST:	FR16S2-R2M02
Simplex ST-LC:	FR16S2-R1M02
Simplex ST-SC:	FR16S2-R3M02

OS1/OS2 Singlemode Duplex Reference Cable Assemblies

Duplex LC-LC:	FR29SL-RLM02
Duplex LC-SC:	FR29SL-RSM02
Duplex LC-ST:	FR29SL-R2M02
Duplex SC-SC:	FR29SS-RSM02
Duplex SC-LC:	FR29SS-RLM02
Duplex SC-ST:	FR29SS-R2M02
Duplex ST-ST:	FR29S2-R2M02
Duplex ST-LC:	FR29S2-RLM02
Duplex ST-SC:	FR29S2-RSM02

OS1/OS2 Singlemode Simplex Reference Cable Assemblies

Simplex LC-LC:	FR19S1-R1M02
Simplex LC-SC:	FR19S1-R3M02
Simplex LC-ST:	FR19S1-R2M02
Simplex SC-SC:	FR19S3-R3M02
Simplex SC-LC:	FR19S3-R1M02
Simplex SC-ST:	FR19S3-R2M02
Simplex ST-ST:	FR19S2-R2M02
Simplex ST-LC:	FR19S2-R1M02
Simplex ST-SC:	FR19S2-R3M02

WORLDWIDE SUBSIDIARIES AND SALES OFFICES

PANDUIT CANADA
Markham, Ontario
cs-cdn@panduit.com
Phone: 800.777.3300

PANDUIT EUROPE LTD.
London, UK
cs-emea@panduit.com
Phone: 44.20.8601.7200

PANDUIT SINGAPORE PTE. LTD.
Republic of Singapore
cs-ap@panduit.com
Phone: 65.6305.7575

PANDUIT JAPAN
Tokyo, Japan
cs-japan@panduit.com
Phone: 81.3.6863.6000

PANDUIT LATIN AMERICA
Jalisco, Mexico
cs-la@panduit.com
Phone: 52.333.777.6000

PANDUIT AUSTRALIA PTY. LTD.
Victoria, Australia
cs-aus@panduit.com
Phone: 61.3.9794.9020

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