

### Opti-Core® Fiber Optic Reference Cable Assembly Kits

- Reference and master grade cable assemblies pass all 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)
- Include 2-meter cable assemblies: standard grade to reference grade reference cable assemblies, and standard grade to reference grade master cable assemblies, zirconia ceramic adapters, and a set of mandrels (multimode kits)
- Master cable assemblies provide in-field qualification of reference cable assemblies for test use
- Available in multimode (10Gig™ OM3 and OM1) and singlemode (OS1/OS2) fiber types for link testing and diagnostic troubleshooting flexibility
- 10Gig™ 50/125µm (gray) or 62.5/125µm (black) mandrels are provided to allow mode conditioning and stripping for testing fiber to applicable standards requirements
- Factory terminated and 100% tested for insertion loss and return loss; data supplied with each reference and master cable assembly
- Provide superior measurement capability to maximize link reliability
- Controlled ferrule endface geometry is documented and supplied, assuring repeatable high performance physical contact of fiber connectors under test
- Hybrid reference cords available for use in testing permanent links with connectors that differ from test set connectors
- Reference quality connectors on both ends of cable assemblies allow both ends to be used to mate to the permanent link for loss measurements



Part Number	Part Description	Std. Pkg. Qty.
<b>10Gig™ OM3 Multimode Reference Cable Assembly Kits</b>		
FR1XS1-R1KIT	Simplex LC-LC/SC-LC 10Gig™ 50/125µm multimode reference cable assembly kit, includes: 2 simplex std. grade LC to ref. grade LC reference cables (2m) 2 simplex std. grade SC to ref. grade LC reference cables (2m) 2 simplex std. grade LC to ref. grade LC master cables (2m) 2 LC duplex adapters (zirconia ceramic split sleeves) 2 mandrels (50/125µm)	1
FR2XSS-RSKIT	Duplex SC-SC 10Gig™ 50/125µm multimode reference cable assembly kit, includes: 2 duplex std. grade SC to ref. grade SC reference cables (2m) 1 duplex std. grade SC to ref. grade SC master cable (2m) 2 SC duplex adapters (zirconia ceramic split sleeves) 2 mandrels (50/125µm)	1
FR2XS2-RSKIT	Duplex ST-SC 10Gig™ 50/125µm multimode reference cable assembly kit, includes: 2 duplex std. grade ST to ref. grade SC reference cables (2m) 1 duplex std. grade ST to ref. grade SC master cable (2m) 2 SC duplex adapters (zirconia ceramic split sleeves) 2 mandrels (50/125µm)	1
FR2XSS-RLKIT	Duplex SC-LC 10Gig™ 50/125µm multimode reference cable assembly kit, includes: 2 duplex std. grade SC to ref. grade LC reference cables (2m) 1 duplex std. grade SC to ref. grade LC master cable (2m) 2 LC duplex adapters (zirconia ceramic split sleeves) 2 mandrels (50/125µm)	1
FR1XS2-R2KIT	Simplex SC-ST/ST-ST 10Gig™ 50/125µm multimode reference cable assembly kit, includes: 2 simplex std. grade SC to ref. grade ST reference cables (2m) 2 simplex std. grade ST to ref. grade ST reference cables (2m) 2 simplex std. grade ST to ref. grade ST master cables (2m) 4 ST simplex adapters (zirconia ceramic split sleeves) 2 mandrels (50/125µm)	1
FR2XS2-R2KIT	Duplex ST-ST 10Gig™ 50/125µm multimode reference cable assembly kit, includes: 2 duplex std. grade ST to ref. grade ST reference cables (2m) 2 duplex std. grade ST to ref. grade ST master cables (2m) 4 ST simplex adapters (zirconia ceramic split sleeves) 2 mandrels (50/125µm)	1

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**Opti-Core<sup>®</sup> Fiber Optic Reference Cable Assembly Kits (continued)**

Part Number	Part Description	Std. Pkg. Qty.
<b>FR2XS2-RLKIT</b>	Duplex ST-LC 10Gig™ 50/125µm multimode reference cable assembly kit, includes: 2 duplex std. grade ST to ref. grade LC reference cables (2m) 2 duplex std. grade ST to ref. grade LC master cables (2m) 2 LC duplex adapters (zirconia ceramic split sleeves) 2 mandrels (50/125µm)	1
<b>FR2XSS-R2KIT</b>	Duplex SC-ST 10Gig™ 50/125µm multimode reference cable assembly kit, includes: 2 duplex std. grade SC to ref. grade ST reference cables (2m) 2 duplex std. grade SC to ref. grade ST master cables (2m) 4 ST simplex adapters (zirconia ceramic split sleeves) 2 mandrels (50/125µm)	1
<b>OM1 Multimode Reference Cable Assembly Kits</b>		
<b>FR16S1-R1KIT</b>	Simplex LC-LC/SC-LC 62.5/125µm multimode reference cable assembly kit, includes: 2 simplex std. grade LC to ref. grade LC reference cables (2m) 2 simplex std. grade SC to ref. grade LC reference cables (2m) 2 simplex std. grade LC to ref. grade LC master cables (2m) 2 LC duplex adapters (zirconia ceramic split sleeves) 2 mandrels (62.5/125µm)	1
<b>FR26SS-RSKIT</b>	Duplex SC-SC 62.5/125µm multimode reference cable assembly kit, includes: 2 duplex std. grade SC to ref. grade SC reference cables (2m) 1 duplex std. grade SC to ref. grade SC master cable (2m) 2 SC duplex adapters (zirconia ceramic split sleeves) 2 mandrels (62.5/125µm)	1
<b>FR26S2-RSKIT</b>	Duplex ST-SC 62.5/125µm multimode reference cable assembly kit, includes: 2 duplex std. grade ST to ref. grade SC reference cables (2m) 1 duplex std. grade ST to ref. grade SC master cable (2m) 2 SC duplex adapters (zirconia ceramic split sleeves) 2 mandrels (62.5/125µm)	1
<b>FR26SS-RLKIT</b>	Duplex SC-LC 62.5/125µm multimode reference cable assembly kit, includes: 2 duplex std. grade SC to ref. grade LC reference cables (2m) 1 duplex std. grade SC to ref. grade LC master cable (2m) 2 LC duplex adapters (zirconia ceramic split sleeves) 2 mandrels (62.5/125µm)	1
<b>FR16S2-R2KIT</b>	Simplex SC-ST/ST-ST 62.5/125µm multimode reference cable assembly kit, includes: 2 simplex std. grade SC to ref. grade ST reference cables (2m) 2 simplex std. grade ST to ref. grade ST reference cables (2m) 2 simplex std. grade ST to ref. grade ST master cables (2m) 4 ST simplex adapters (zirconia ceramic split sleeves) 2 mandrels (62.5/125µm)	1
<b>FR26S2-R2KIT</b>	Duplex ST-ST 62.5/125µm multimode reference cable assembly kit, includes: 2 duplex std. grade ST to ref. grade ST reference cables (2m) 2 duplex std. grade ST to ref. grade ST master cables (2m) 4 ST simplex adapters (zirconia ceramic split sleeves) 2 mandrels (62.5/125µm)	1
<b>FR26S2-RLKIT</b>	Duplex ST-LC 62.5/125µm multimode reference cable assembly kit, includes: 2 duplex std. grade ST to ref. grade LC reference cables (2m) 2 duplex std. grade ST to ref. grade LC master cables (2m) 2 LC duplex adapters (zirconia ceramic split sleeves) 2 mandrels (62.5/125µm)	1
<b>FR26SS-R2KIT</b>	Duplex SC-ST 62.5/125µm multimode reference cable assembly kit, includes: 2 duplex std. grade SC to ref. grade ST reference cables (2m) 2 duplex std. grade SC to ref. grade ST master cables (2m) 4 ST simplex adapters (zirconia ceramic split sleeves) 2 mandrels (62.5/125µm)	1

## Opti-Core® Fiber Optic Reference Cable Assembly Kits (continued)

Part Number	Part Description	Std. Pkg. Qty.
<b>OS1/OS2 Singlemode Reference Cable Assembly Kits</b>		
FR19S1-R1KIT	Simplex LC-LC/SC-LC 9µm singlemode reference cable assembly kit, includes: 2 simplex std. grade LC to ref. grade LC reference cables (2) 2 simplex std. grade SC to ref. grade LC reference cables (2) 2 simplex std. grade LC to ref. grade LC master cables (2) 2 LC duplex adapters (zirconia ceramic split sleeves)	1
FR29SS-RSKIT	Duplex SC-SC 9µm singlemode reference cable assembly kit, includes: 2 duplex std. grade SC to ref. grade SC reference cables (2m) 1 duplex std. grade SC to ref. grade SC master cable (2m) 2 SC duplex adapters (zirconia ceramic split sleeves)	1
FR29S2-RSKIT	Duplex ST-SC 9µm singlemode reference cable assembly kit, includes: 2 duplex std. grade ST to ref. grade SC reference cables (2m) 1 duplex std. grade ST to ref. grade SC master cable (2m) 2 SC duplex adapters (zirconia ceramic split sleeves)	1
FR29SS-RLKIT	Duplex SC-LC 9µm singlemode reference cable assembly kit, includes: 2 duplex std. grade SC to ref. grade LC reference cables (2m) 1 duplex std. grade SC to ref. grade LC master cable (2m) 2 LC duplex adapters (zirconia ceramic split sleeves)	1
FR19S2-R2KIT	Simplex SC-ST/ST-ST 9µm singlemode reference cable assembly kit, includes: 2 simplex std. grade SC to ref. grade ST reference cables (2m) 2 simplex std. grade ST to ref. grade ST reference cables (2m) 2 simplex std. grade ST to ref. grade ST master cables (2m) 4 ST simplex adapters (zirconia ceramic split sleeves)	1
FR29S2-R2KIT	Duplex ST-ST 9µm singlemode reference cable assembly kit, includes: 2 duplex std. grade ST to ref. grade ST reference cables (2m) 2 duplex std. grade ST to ref. grade ST master cables (2m) 4 ST simplex adapters (zirconia ceramic split sleeves)	1
FR29S2-RLKIT	Duplex ST-LC 9µm singlemode reference cable assembly kit, includes: 2 duplex std. grade ST to ref. grade LC reference cables (2m) 2 duplex std. grade ST to ref. grade LC master cables (2m) 2 LC duplex adapters (zirconia ceramic split sleeves)	1
FR29SS-R2KIT	Duplex SC-ST 9µm singlemode reference cable assembly kit, includes: 2 duplex std. grade SC to ref. grade ST reference cables (2m) 2 duplex std. grade SC to ref. grade ST master cables (2m) 4 ST simplex adapters (zirconia ceramic split sleeves)	1