Fusion Splice-On Fiber Optic Connectors

PANDUIT®
SPECIFICATION SHEET
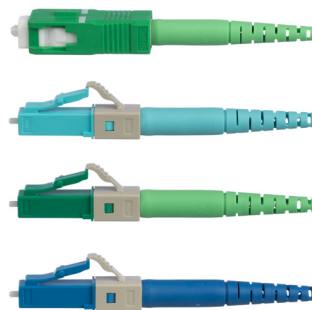
SPECIFICATIONS

LC and SC form factor Fusion-Splice Connectors shall be TIA/EIA-604 FOCIS-3 (for SC) and FOCIS-10 compatible (for LC), and include a pre-polished fiber which eliminates the need for field polishing and adhesives. The connectors shall be composed of a ferrule assembly with integral fiber, a front housing, and a rear assembly, plus additional components as necessary by connector type (including angled physical contact polish). The LT9 style connectors shall have a 1.5-inch splice protection sleeve to enable encapsulation of the build up tube, acrylate, splice point, and ferrule subassembly. The connectors shall exceed TIA/EIA-568-D.3 performance requirements for IL and RL, and have a functional temperature range from -40°C to 75°C. These splice-on connectors shall be compatible with common.

Fusion Splice-On Fiber Optic Connectors	
LC Splice Connector for 250μm Fiber w/ fanout, 9μm OS2:	FLCSLT9SOCU9BU
LC-APC Splice Connector for 250μm Fiber w/ fanout, 9μm OS2:	FLCSLT9SOCA9AG
LC Splice Connector for 250μm Fiber w/ fanout, 50μm OM3:	FLCSLT9SOCPXAQ
Fiber SC Splice-On Connector	
SC-APC Splice Connector for 250μm Fiber w/ fanout, 9μm OS2:	FSCSLT9SOCA9AG

TECHNICAL INFORMATION

Standards:	TIA/EIA-604 FOCIS-3 (for SC) and TIA/EIA-604 FOCIS-10 (for LC); TIA/EIA-568-D.3
Fiber compatibility:	9/125μm Singlemode for OS1/OS2, 50/125 Multimode for OM2, OM3, and OM4
Fiber size and type:	250μm coated fiber with 900μm build-up tube
Ferrule type:	Factory polished zirconia ceramic
Insertion loss:	Singlemode fiber is 0.15dB IL average, 0.30dB IL maximum; multimode fiber is 0.10dB IL average, 0.25dB IL maximμm
Return loss:	Singlemode fiber is > 55dB (UPC) or > 65dB (APC); multimode fiber is > 30dB (UPC)

KEY FEATURES AND BENEFITS

Quick installation:	The LC and SC splice-on connectors for 250μm cable with 900μm build-up tubing can be terminated in under two minutes per connector.
Reliable performance:	Superior components mean better performing links with less down time.
Superior function:	Factory pre-polished end-faces and no index-matching gel enable installation almost anywhere.

APPLICATIONS

Single Fiber Splice-On Connectors enable rapid deployment of high performance field terminations for Enterprise and Data Center applications. Field termination allows for deployment of custom fiber links without added time and planning typically required for pre-terminated assemblies, while using the real-time splice loss calculations of typical fusion splice machines to enable confidence in component performance. Splice-on connectors can be used for initial installation of fiber links, MAC work, or repairs to existing links to minimize downtime. Fusion splice connectors also allow for higher performance links through lower insertion loss and higher return loss characteristics. Splice-on connectors require less space for management like splice sleeves and trays, as well as reducing the amount of fiber needing management typical of pigtail splicing.
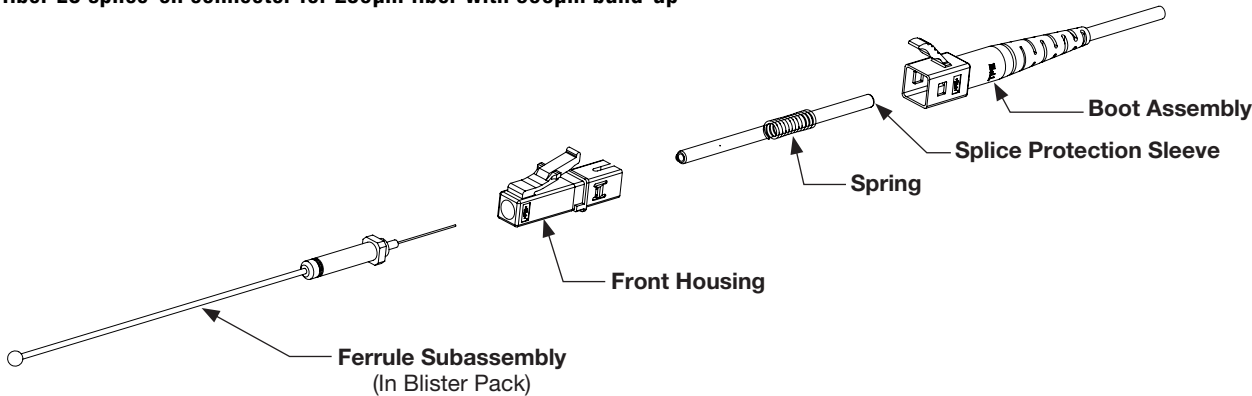
Fusion Splice-On Fiber Optic Connectors

ADDITIONAL SPECIFICATION

Part Number	Connector Type	Polish	Color	Fiber	Insertion Loss	Return Loss
FLCSLT9SOCU9BU	Simplex LC	UPC	Blue	9/125µm OS1/OS2	0.15dB Average	> 55dB
FLCSLT9SOCA9AG	Simplex LC	APC	Green	9/125µm OS1/OS2	0.15dB Average	> 65dB
FLCSLT9SOCPXAQ	Simplex LC	UPC	Aqua	50/125µm OM2	0.10dB Average	> 30dB
FSCSLT9SOCA9AG	Simplex SC	APC	Green	OM3, OM4	0.15dB Average	> 65dB

ENGINEERING DRAWINGS

fiber LC splice-on connector for 250µm fiber with 900µm build-up

Boot Assembly
Splice Protection Sleeve
Spring
Front Housing
Ferrule Subassembly
(In Blister Pack)

fiber SC splice-on connector for 250µm fiber with 900µm build-up

Boot Assembly
Splice Protection Sleeve
Spring
Inner Housing
Outer Housing
Ferrule Subassembly
(In Blister Pack)
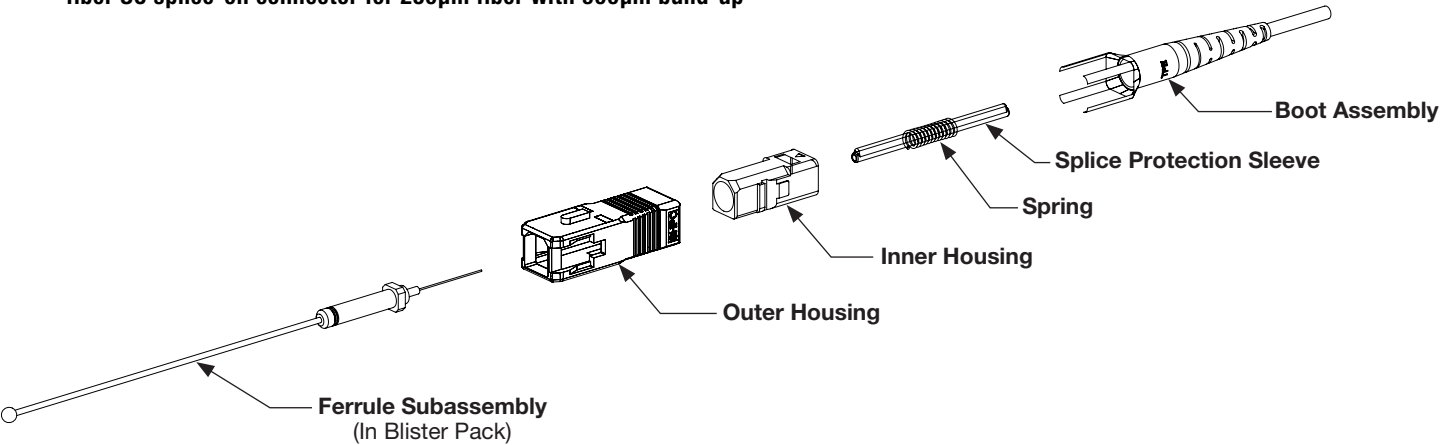
Dimensions are in inches. [Dimensions in brackets are metric].

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