

Technical Specifications

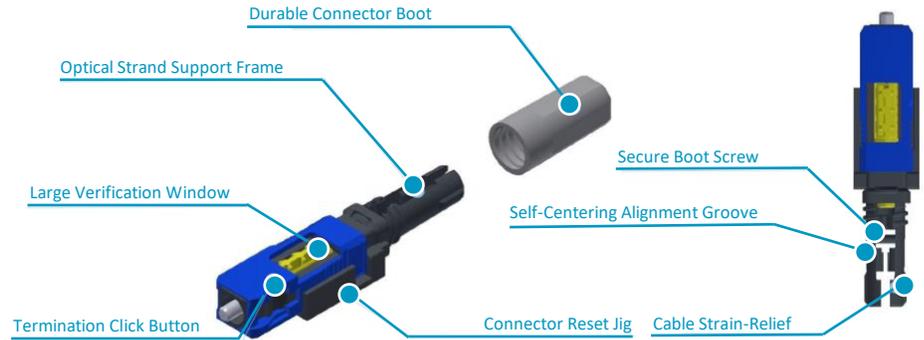
ECO Series™ Field-Assembly SC Type Fiber Optic Connectors

Single Mode & Multimode | UPC (standard) & APC | 250µm, 900µm, 2.0mm, 3.0mm

Rev 220209

Standard Features at a Glance

- SC type connectors
- Pre-polished for UPC (standard) & APC (angled) connections
- Compatible with single mode (OS1 & OS2) & multimode (OM1, OM2, OM3 & OM4) cable
- Compatible with 250µm, 900µm, 2.0mm & 3.0mm, including distribution and zip-cord formats
- No proprietary tools required
- No epoxy, crimping or polishing required
- Built-in verification window showing proper termination
- Self-centering alignment groove for easy & reliable insertion of the fiber optic strand
- Built-in button for one click termination & locking jig release
- Average termination time around two minutes
- Re-usable (five or less termination cycles recommended)



TechLogix ECO Series™ field-installable fiber optic connectors are designed for quick, easy and reliable termination of 250µm, 900µm and 2.0mm fiber cables, including both distribution and zip-cord configurations.

ECO Series™ connectors are compatible with both single mode (OS1 & OS2) and multimode (OM1, OM2, OM3 & OM4) fiber and are available in standard (UPC) and angled (APC) pre-polished formats. No epoxying, crimping, polishing or proprietary tools are required for termination.

Unlike other connectors which are marketed as “one-size fits all”, ECO Series™ connectors are specific to 250µm, 900µm, 2.0mm and 3.0mm cables to ensure perfect alignment, reducing refraction and signal loss. And regardless of cable, a large built-in verification window, self-centering alignment groove and easy-to-press button for one-click termination ensures installation times around two minutes.

Connector Models

Part Number	Compatible Fiber Type	Recommended Cable Type	Polish	Accessories	Color
SMU-SC	Single Mode (OS1, OS2) 9/125µm	250µm, 900µm, 2.0mm, 3.0mm Distribution Style Zip-Cord Cord Style	UPC (standard)	Universal Fit Build-Up Tubes	Blue
SMU-SCA	Single Mode (OS1, OS2) 9/125µm	250µm, 900µm, 2.0mm, 3.0mm Distribution Style Zip-Cord Cord Style	APC (angled)	Universal Fit Build-Up Tubes	Green
MMU-SC	Multimode (OM2, OM3, OM4) 50/125µm	250µm, 900µm, 2.0mm, 3.0mm Distribution Style Zip-Cord Cord Style	UPC (standard)	Universal Fit Build-Up Tubes	Aqua
M1U-SC	Multimode (OM1) 62.5/125µm	250µm, 900µm, 2.0mm, 3.0mm Distribution Style Zip-Cord Cord Style	UPC (standard)	Universal Fit Build-Up Tubes	Beige

Specifications

Physical Characteristics	
Connector Type	SC (TIA / EIA 604-3)
Recommended Maximum Re-Termination Times	5 times
Average Termination Strength	2.0mm & 3.0mm: 6.5lbs of sustained tension 250µm & 900µm: 2.0lbs of sustained tension
Assembled Connector Dimensions	51mm (length) x 9mm (height) x 9mm (width)
Construction	Zirconia ferrule Ultem plastic body Internal index matching gel
Performance	
Insertion Loss	Typical: 0.3dB Maximum: 0.5dB
Return Loss	APC: ≥60dB UPC: ≥50dB
Operating Temperature	-40 degrees – 75 degrees C
Storage Temperature	-45 degrees – 85 degrees C
Regulatory	
Certifications	RoHS, IEC 61754-20

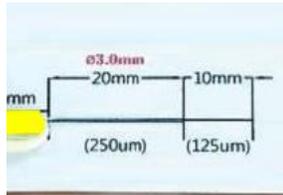
Example Installation Process

**Actual installation procedure may vary; please consult the manual and/or video for your specific connector model.*

Tools Required: 3-hole stripper, Kevlar sheers, cleaver, ruler, marker



Insert the connector boot onto the cable



Measure and mark the fiber strand that will be terminated



Strip 10mm of cable jacket using the middle hole on the stripper



Strip 10mm of buffer using the small hole on the stripper



Cleave your fiber strand to 10mm from first measurement mark



Strip an additional 20mm of cable jacket using the middle hole on the stripper



Clean any impurities from your cable



Insert the fiber into the connector body until the strand meets resistance and arches



Remove the connector jig



Lock the fiber inside the connector by pressing the amber button



Screw the boot onto the connector body and trim any exposed Kevlar yarn



To remove or re-terminate the connector, simple unscrew the boot and replace the jig