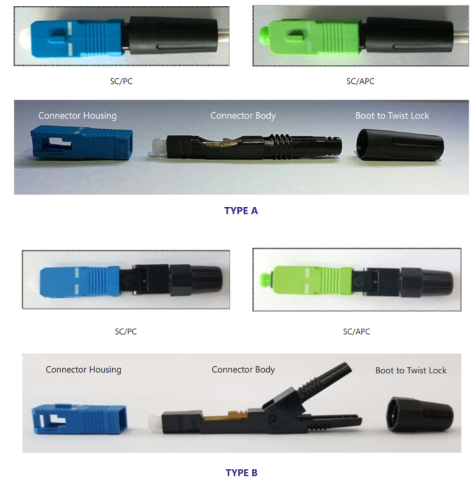


General Description

The PDR Fiber Optic Fast Field Assembly Connector (FAOC) is a field-installable SC connector engineered for quick, reliable on-site fiber termination without the need for adhesives, polishing, or electrical power. Featuring a fully zirconia-ceramic ferrule with a nominal diameter of 2.5 mm (± 0.5 mm) and fiber concentricity of ≤ 1 μ m, it delivers consistent insertion loss of ≤ 0.3 dB and return loss of ≥ 45 dB (PC) or ≥ 55 dB (APC). Available in Type-A (compatible with 3.1×2 mm flat cable) and Type-B (compatible with flat, 3 mm drop, 2.0 mm, and 0.9 mm cables), the re-assemblable connector design reduces connection defect rates and simplifies field maintenance. The ferrule end-face geometry complies with Telcordia GR-326 specifications, verified by optical interferometric measurement.



Key Features

- Field installable without adhesives, polishing, or electrical power — ready for immediate on-site use
- Fully zirconia-ceramic ferrule: nominal 2.5 mm diameter, ± 0.5 mm tolerance, ≤ 1 μ m fiber concentricity
- Ferrule end-face geometry compliant with Telcordia GR-326 interferometric measurement standard
- Low insertion loss ≤ 0.3 dB and high return loss ≥ 45 dB (PC) / ≥ 55 dB (APC)
- Re-assemblable design reduces connection defect rate and simplifies field maintenance and rework
- Type-A: compact $52.4 \times 9 \times 7.3$ mm body, compatible with 3.1×2 mm flat cable
- Type-B: extended $59.5 \times 9 \times 7.3$ mm body, compatible with flat, 3 mm drop, 2.0 mm, and 0.9 mm cables
- SC/PC and SC/APC polish variants available for both Type-A and Type-B configurations
- Includes gauge tool and installation guide; measurement jig supplied per every 50 connectors ordered
- Ideal for FTTx last-mile deployments, enterprise premises cabling, and rapid field restoration

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Technical Specifications

Parameter	Specification
Connector Interface	SC
Polish Type	PC ■ APC
Body Type	Type-A ■ Type-B
Ferrule Material	Fully Zirconia-Ceramic
Ferrule Diameter (SC)	2.5 mm ± 0.5 mm
Fiber Concentricity	≤1 μm
End-Face Standard	Telcordia GR-326 (interferometric measurement)
Insertion Loss	≤0.3 dB
Return Loss — PC Polish	≥45 dB
Return Loss — APC Polish	≥55 dB
Dimensions — Type-A	52.4 × 9 × 7.3 mm
Dimensions — Type-B	59.5 × 9 × 7.3 mm
Compatible Cable — Type-A	3.1 × 2 mm flat cable
Compatible Cable — Type-B	3.1 × 2 mm flat ■ 3 mm drop ■ 2.0 mm ■ 0.9 mm
Installation Method	Mechanical splice — no adhesive, no polishing, no power required

* Insertion loss per IEC 61300-3-4. End-face geometry verified by optical interferometric technique per Telcordia GR-326.

Applications

- FTTx last-mile fiber drops and subscriber premises installations requiring rapid field termination
- Telecommunications access network buildouts where on-site polishing equipment is impractical
- Enterprise and campus network fiber installations demanding fast, reliable connector assembly
- Field restoration and emergency repair of optical fiber links with minimal downtime
- Data center fiber patching and structured cabling environments requiring frequent reconfiguration
- Industrial and outdoor deployments requiring re-assemblable, maintenance-friendly SC connectors

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Ordering Information

Part Number Selection

Part Number	Body Type	Polish Type	Compatible Cable	Dimensions
FAOC-SC/PC-A	Type-A	SC/PC	3.1 × 2 mm flat	52.4 × 9 × 7.3 mm
FAOC-SC/APC-A	Type-A	SC/APC	3.1 × 2 mm flat	52.4 × 9 × 7.3 mm
FAOC-SC/PC-B	Type-B	SC/PC	Flat / 3 mm Drop / 2.0 mm / 0.9 mm	59.5 × 9 × 7.3 mm
FAOC-SC/APC-B	Type-B	SC/APC	Flat / 3 mm Drop / 2.0 mm / 0.9 mm	59.5 × 9 × 7.3 mm

* To order, specify Part Number. Example: FAOC-SC/APC-B — Type-B body, SC/APC polish, compatible with flat / 3 mm drop / 2.0 mm / 0.9 mm cables.

Standard Package Contents

Item	Quantity
FAOC Unit	1
Gauge Tool	1
Installation Guide	1
Measurement Jig	1 per every 50 connectors ordered

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