

OPTICAL CONNECTORS

SC/APC Field-Installable Connector

Model [PSK-CON-102](#) · PROSKY passive network infrastructure

Field-installable SC/APC connector that terminates drop cable at the subscriber's premises in about two minutes — no epoxy, no polishing. A factory pre-polished ferrule and internal mechanical splice deliver APC-grade reflectance at the doorstep.

Product overview

The SC/APC Field-Installable Connector brings factory polish quality to field termination. Inside its SC-footprint body sits a short fiber stub, factory-bonded and angle-polished in a 2.5 mm zirconia ferrule, meeting a precision mechanical-splice element filled with index-matching gel. The installer never touches the end-face: the APC polish is finished and inspected before the connector leaves production.

Installation is a strip-cleave-insert sequence. The drop cable or buffered fiber is stripped to length, cleaved square with a field cleaver, and inserted until it butts the stub inside the alignment element; closing the clamp locks the joint, and the housing snaps over the cable for strain relief. Typical class performance is 0.5 dB or less total insertion loss including the internal splice, with APC-grade return loss of 50 dB or better — and the clamp can be reopened to re-terminate after a bad cleave, wasting only centimeters of cable.

This connector lives at the last meters of FTTH: terminating flat drop cable at wall outlets and building terminals, connecting subscribers during activation visits, and making fast repairs where a fusion splicer is impractical. Variants accept 2 × 3 mm flat drop, 900 µm buffered and 250 µm coated fiber.

Key features

- › Tool-light termination in about two minutes — stripper and cleaver only
- › Factory pre-polished APC ferrule: no epoxy, no field polishing, no consumables
- › Internal mechanical splice with index-matching gel for stable, low-loss joints
- › Re-openable clamp allows re-termination after a bad cleave
- › Variants for 2 × 3 mm flat drop cable, 900 µm and 250 µm fiber
- › Standard SC/APC footprint mates with ordinary adapters and outlets
- › Typical insertion loss ≤ 0.5 dB including the internal splice
- › Green APC housing for unmistakable polish identification

Applications

- › Subscriber activation at wall outlets
- › Drop-cable termination at building terminals
- › FTTH repair without fusion splicing
- › Indoor cabling re-terminations
- › Temporary and rapid-restoration links

Network types: FTTH, GPON

Technical specifications

Typical values for this product class — request the certified PROSKY datasheet for guaranteed figures.

Optical	
Insertion loss	≤ 0.5 dB incl. internal splice (typical 0.3 dB)
Return loss (APC)	≥ 50 dB
Operating wavelength	1260 – 1650 nm
Re-matings	≥ 10 re-terminations supported
Installation	
Method	Strip – cleave – insert – clamp
Typical assembly time	About 2 minutes
Tools required	Jacket stripper + fiber cleaver
Consumables	None (gel factory-filled)
Compatibility	
Cable variants	2 × 3 mm flat drop / 900 μm / 250 μm
Fiber	Single-mode G.652.D / G.657
Ferrule	Zirconia, 2.5 mm, pre-polished 8° APC
Interface	SC/APC, standard adapters and outlets
Environmental	
Operating temperature	–40 °C to +75 °C
Storage temperature	–40 °C to +85 °C
Housing	Green (APC), flame-retardant thermoplastic

Standards alignment

- › Designed to align with IEC 61754-4 (SC interface)
- › Designed to align with IEC 61753 (performance classes)
- › Designed to align with Telcordia GR-326 (single-mode connectors, design practice)

Standards are named as design-alignment references for this product class, not as certifications held.

Packaging

Typical export packaging: individually boxed with dust caps fitted, in installer packs of 10 or 50 pieces per carton; consolidated export master cartons. Kitting with cleave-length guides per order.

Ordering & contact

Specify model PSK-CON-102 with your required configuration (fiber count, length, termination or format options as applicable). For project engineering support, certified figures and commercial terms, contact PROSKY via proskytele.com.