

FIBER PATCH CORDS

SC/APC Patch Cord

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

Simplex single-mode patch cord with 8° angle-polished SC connectors for reflection-critical links. The APC polish holds return loss at 60 dB or better, making it the standard jumper for GPON, XGS-PON and RF-overlay networks.

Product overview

The SC/APC Patch Cord is a simplex single-mode jumper terminated with SC connectors whose 2.5 mm zirconia ferrules carry an 8-degree angled physical-contact (APC) polish. The green connector housings signal the APC convention at a glance, and the push-pull SC coupling gives positive, keyed engagement in distribution frames and wall outlets alike.

The angled polish is the defining mechanism: light reflected at the fiber end-face leaves at an angle that escapes the fiber core instead of traveling back toward the source. That holds return loss at 60 dB or better — an order of magnitude beyond UPC — which matters wherever reflections degrade transmission: PON architectures with analog RF video overlay, high-power downstream wavelengths, and long passive links with many connection points. Bend-insensitive G.657.A2 fiber lets the cord survive the sharp bends of subscriber outlets and crowded splitter cabinets.

In the network these cords appear throughout the passive optical plant: OLT-to-ODF patching in the exchange, splitter-port connections in cabinets, and the final subscriber patching at ONT wall outlets. Simplex 2.0 and 3.0 mm builds cover panel and outlet use respectively.

Key features

- › SC/APC terminations with 8° angle polish on 2.5 mm zirconia ferrules
- › Return loss ≥ 60 dB for reflection-critical PON and RF-overlay links
- › Bend-insensitive G.657.A2 fiber for subscriber outlets and tight cabinets
- › Push-pull SC coupling with keyed, positive engagement
- › Green APC housings for unmistakable polish identification
- › LSZH simplex jacket in 2.0 mm and 3.0 mm builds
- › Factory-tested insertion loss as a product class

Applications

- › OLT-to-ODF patching in exchanges
- › Splitter-port connections in cabinets
- › Subscriber ONT wall-outlet patching
- › RF-overlay (CATV) optical links
- › Passive optical LAN patching

Network types: FTTH, GPON, XGS-PON

Technical specifications

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

Optical	
Insertion loss	≤ 0.3 dB per connector (typical 0.2 dB)
Return loss (APC)	≥ 60 dB
Operating wavelength	1260 – 1650 nm
Durability	≥ 500 matings, ΔIL ≤ 0.2 dB
Fiber & cable	
Fiber	Single-mode, ITU-T G.657.A2
Cable construction	Simplex, aramid-reinforced
Jacket	LSZH, 2.0 mm or 3.0 mm, yellow
Ferrule	Zirconia (ZrO ₂), 2.5 mm, 8° angle
Mechanical	
Cable–connector retention	≥ 50 N
Min bend radius (cord)	≥ 15 mm installed
Standard lengths	0.5 / 1 / 2 / 3 / 5 / 10 / 20 / 30 m
Coupling	SC push-pull, keyed
Environmental	
Operating temperature	–25 °C to +70 °C
Storage temperature	–40 °C to +85 °C
Flammability	LSZH jacket, indoor-rated

Standards alignment

- › Designed to align with IEC 61754-4 (SC interface)
- › Designed to align with IEC 61755-3-2 (APC connection performance)
- › Designed to align with Telcordia GR-326 (single-mode jumpers)
- › Designed to align with ITU-T G.657 (bend-insensitive fiber)

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

Packaging

Typical export packaging: each cord coiled in an individual polybag with a length/type label; 50 cords per inner carton, consolidated in export master cartons. Custom labeling and kitting per project on request.

Ordering & contact

Specify model PSK-PC-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.