FTTH ACCESSORIES

Splice Protection Sleeves

*Model **PSK-SPS-060** · Consumable - order alongside fusion splicing services and closures.*

Heat-shrink sleeves that rebuild the mechanical protection of a fusion splice: a hot-melt inner tube seals the bare fiber while a stainless strength member restores rigidity. Supplied in the standard 60 mm length for splice trays in closures, ODFs and distribution boxes.

Overview

A fusion splice joins two fibers with almost no optical loss, but leaves a few centimetres of bare, brittle glass. The splice protection sleeve restores the missing protection in one oven cycle: a cross-linked polyolefin outer tube shrinks around the joint, an EVA hot-melt inner liner flows to seal the fiber against moisture, and a stainless-steel strength member takes over bending and tensile loads.

In use, the sleeve is slipped over one fiber before splicing, centred over the completed joint, and shrunk for roughly 30-40 seconds in the splicer's built-in oven. The transparent body lets technicians confirm bubble-free recovery and correct fiber centring at a glance, and the recovered sleeve drops straight into the standard 60 mm slots of splice trays used across closures, terminal boxes and ODFs.

Sleeves of this class are consumed at every fusion point of the network - trunk closures, distribution boxes, ODF pigtail splices and drop terminations alike - which makes consistent shrink behaviour and dimensional accuracy the qualities that matter at scale. The 60 mm length suits single-fiber 250 and 900 micron coatings; ribbon and 45 mm mini variants serve the same duty where tray geometry differs.

Key features

- Three-layer build: cross-linked polyolefin outer, EVA hot-melt liner, stainless strength member
- Standard 60 mm length fits common splice-tray slots
- Transparent body for visual inspection of the recovered joint
- Accepts 250 and 900 micron coated single fibers
- Typical added loss after recovery 0.01 dB max
- Shrink-complete in 30-40 s in standard splicer ovens
- Moisture-sealing hot-melt bond over the full sleeve length

Applications

Fusion splicing · Closure fit-out · ODF pigtail splicing · Drop terminations · FTTH · Metro · Backbone

Technical specifications

All values are typical for this product class.

Construction	
Outer tube	Cross-linked polyolefin, transparent
Inner liner	EVA hot-melt adhesive
Strength member	304 stainless steel, 1.0 mm dia
Fiber compatibility	250 / 900 micron coated single fiber

Dimensions	
Length	60 mm, +/- 1 mm
Pre-shrink outer diameter	3.5 mm approx.
Recovered outer diameter	2.5 mm approx.
Tray slot fit	Standard 60 mm splice-tray combs

Performance & environment	
Oven cycle	Full recovery in 30-40 s at 90-120 deg C
Added insertion loss	0.01 dB max, typical
Operating temperature	-40 to +85 deg C
Relative humidity	95 % max, non-condensing

Standards alignment

- Designed to align with IEC 61073-1 (fibre splice protectors)
- Designed to align with ITU-T L.12 optical splice recommendations
- RoHS-conformant materials

Packaging

Typical export packaging: 50 sleeves per PE bag, 100 bags (5,000 sleeves) per export carton (approx. 360 x 280 x 240 mm, 9 kg gross).

Ordering & support: request the certified PROSKY datasheet, project pricing and delivery terms via proskytele.com.