

Splice Protector Sleeve

Introduction

Opterna's fusion splice protector sleeves are transparent plastic tubes containing a stainless steel rod for single fiber or a ceramic rod for ribbon fiber protection. The splice protector sleeves are designed to prevent stress and protect fusion fiber optic splices in field and factory operation. The sleeves are available in lengths of 25, 30, 40, 45 and 60 mm.

Splice protector sleeves are made of ethylene vinyl acetate (EVA) with heat activated memory which causes them to shrink under exposure to heat. Sleeves shrink tightly to exclude air and hold the rod firmly, preventing abrasion of delicate glass fibers.

Features:

» Splice Protector Sleeve

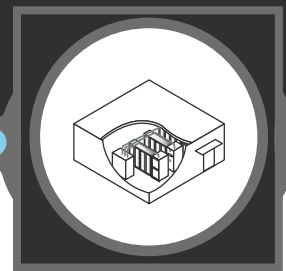
- Single holed (pre-shrunk) ends eliminates improper fiber threading
- Smooth, de-burred stainless steel reinforcing member ends decrease the risk of fiber damage during installation
- Extended liner length prevents contact between the fiber and the backbone
- Clear sleeve design persign permits easy centering of splice before heating
- Sealing structure makes the splice free from effect of temperature and humidity from environment



Ribbon type (8/12F)
L40mm



Simplex type
L40/45/60mm
Dia. 2.0/2.5/3.0mm



Splice Protector Sleeve

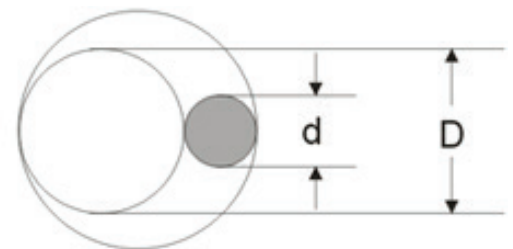
Specifications:

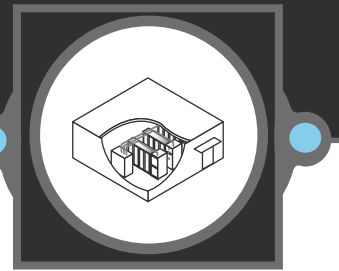
| | |
|-------------------------------|-------------|
| Operation Temperature | -45 ~ 100°C |
| Heat Shrink Temperature Range | 90 ~ 110°C |

Technical Data:

| Standard | Testing reference | Typ. Data |
|-----------------------------|-------------------|-----------------------|
| Tensile Strength (MPa) | ASTM D 2671 | ≥18 MPa |
| Rupture elongate ratio (%) | ASTM D 2671 | 700% |
| Density(g/cm ²) | ISO R1183D | 0.94g/cm ² |
| Intensity (KV/mm) | IEC 243 | 20 KV/mm |
| Constant | IEC 243 | 2.5max. |
| Tolerance of length (%) | ASTM D 2671 | 0+5% |

Ordering Info:





Splice Protector Sleeve

3.0mm Dia. heat-shrink protection tube (mm)

| Part No. | Heat shrinkable tube (L) | | Hot melt adhesive tube (D) | | Stainless steel rod (d) | |
|----------------|---------------------------|--------|----------------------------|--------|-------------------------|--------|
| | Dia. After heat shrinking | Length | Inner Dia. | Length | Dia. | Length |
| PSCL-600-15-30 | 3.0 | 61 | 1.4 | 61 | 1.5 | 55 |
| PSCL-450-15-30 | 3.0 | 45 | 1.4 | 45 | 1.5 | 40 |
| PSCL-250-15-30 | 3.0 | 23 | 1.4 | 23 | 1.5 | 18 |

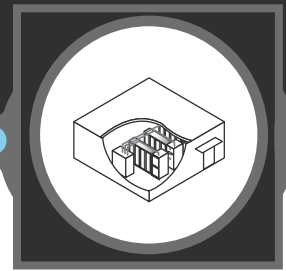
Typical Dia. heat-shrink protection tube (mm)

| Part No. | Heat shrinkable tube (L) | | Hot melt adhesive tube (D) | | Stainless steel rod (d) | |
|----------------|---------------------------|--------|----------------------------|--------|-------------------------|--------|
| | Dia. After heat shrinking | Length | Inner Dia. | Length | Dia. | Length |
| PSCL-600-12-25 | 2.5 | 61 | 1.4 | 61 | 1.2 | 55 |
| PSCL-450-12-25 | 2.5 | 45 | 1.4 | 45 | 1.2 | 40 |
| PSCL-400-12-25 | 2.5 | 40 | 1.4 | 40 | 1.2 | 36 |
| PSCL-300-12-25 | 2.5 | 30 | 1.4 | 30 | 1.2 | 26 |
| PSCL-250-12-25 | 2.5 | 25 | 1.4 | 25 | 1.2 | 21 |

Mini type heat-shrink protection tube (mm)

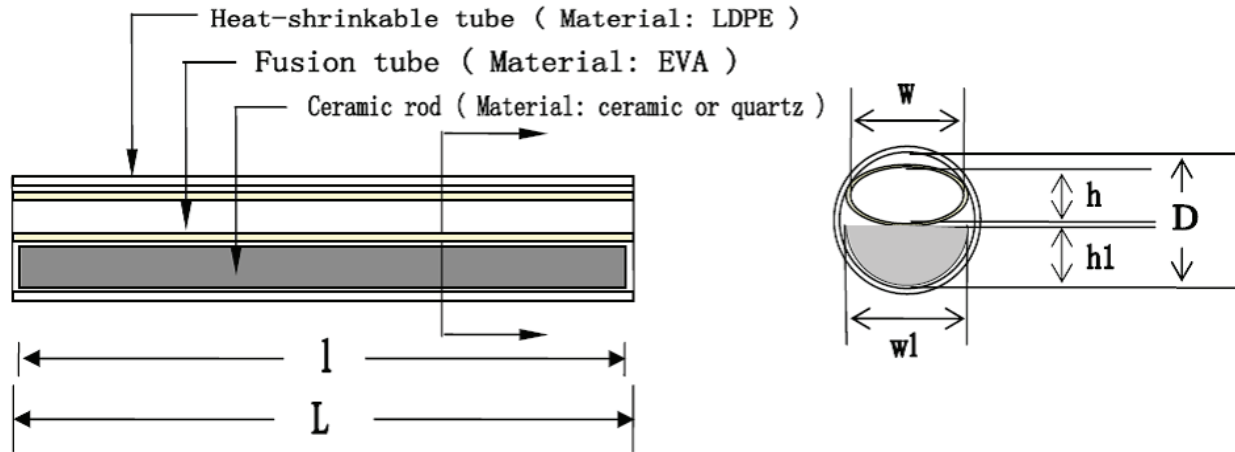
| Part No. | Heat shrinkable tube (L) | | Hot melt adhesive tube (D) | | Stainless steel rod (d) | |
|----------------|---------------------------|--------|----------------------------|--------|-------------------------|--------|
| | Dia. After heat shrinking | Length | Inner Dia. | Length | Dia. | Length |
| PSCL-400-05-15 | 1.3 | 40 | 0.5 | 40 | 0.5 | 39 |
| PSCL-250-05-15 | 1.3 | 25 | 0.5 | 25 | 0.5 | 24 |
| PSCL-200-05-15 | 1.3 | 18 | 0.5 | 18 | 0.5 | 17 |
| PSCL-150-05-15 | 1.3 | 15 | 0.5 | 15 | 0.5 | 14 |
| PSCL-100-05-15 | 1.3 | 10 | 0.5 | 10 | 0.5 | 9 |

Packing: 100pcs/Pack



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Ribbon Fusion Splice Protectors



| Part No. | Strength Member | L (mm) | h1 (mm) | D (mm) |
|-----------------|-----------------|--------|---------|--------|
| RSP-400-20-45-C | Ceramic | 40.0 | 2.0 | 4.5 |
| RSP-400-20-45-Q | Quartz | 40.0 | 2.0 | 4.5 |

Packing: 50pcs per bag