

S3PS Heat Shrink Tube for Fiber Optic Dome Closure

Introduction

Cross-linked polyolefin, with adhesive liner and heat sensitive paint. It has good air tightness, temperature cycle resistance, and chemical corrosion resistance. Suitable for sealing and protection of the incoming and outgoing lines of the fiber optic dome closure.

Features

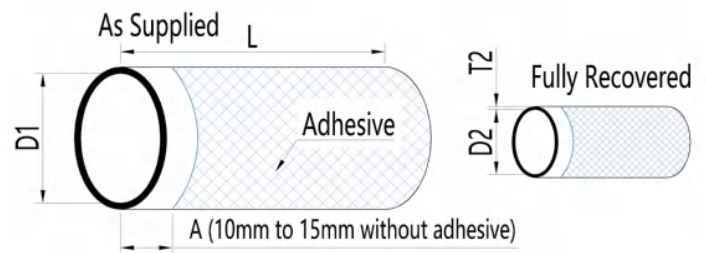
- Operating temperature: -55 to 125°C
- Minimum fully recovery temperature: 115°C
- Halogen-free, RoHS compliant
- Shrink ratio: 2:1
- Standard Color: Black



Dimension

| Part No. S3PS | As supplied (mm) | | After recovered (mm) | | Standard length (mm/pc) |
|------------------|----------------------------|----------------------------|----------------------------|----------------------------|----------------------------|
| | Inner diameter D (min.) | Inner diameter d (max.) | Inner diameter d (max.) | Wall thickness t (nom.) | |
| 28/6 | 28 | 6 | 6 | 3.0 | 150/180/200 |
| 30/10 | 30 | 10 | 10 | 3.0 | 150/180/200 |
| 40/10 | 40 | 10 | 10 | 3.7 | 150/180/200 |
| 65/20 | 65 | 20 | 20 | 3.6 | 150/180/200 |
| 75/22 | 75 | 22 | 22 | 3.7 | 150/180/200 |
| 85/25 | 85 | 25 | 25 | 3.8 | 150/180/200 |
| 35/10 | 35 | 10 | 10 | 3.0 | 150/180/200 |
| 75/20 | 75 | 20 | 20 | 3.7 | 150/180/200 |

Product diagram



Technical Data

| Property | Test Method | Requirement |
|--|--|---------------------------------|
| Heat Shrink tube | | |
| Density | ASTM D2671 | 1.0-1.1 g/cm ³ |
| Operating temperature maximum | IEC 216 | 110 °C |
| Longitudinal Change | ASTM D2671 | ±10% |
| Tensile Strength | ASTM D2671 | ≥17 MPa |
| Ultimate Elongation | ASTM D2671 | ≥350% |
| Heat Aging (150°C/168h) | ASTM D2671 | |
| Tensile Strength | | ≥14 MPa |
| Ultimate Elongation | | ≥270% |
| Water absorption (23°C/24h) | ASTM D2671 | ≤0.2% |
| Low-temperature flexibility (-40°C/4h) | ASTM D2671 | No cracking |
| Heat shock (200°C/4h) | ASTM D2671 | No dripping or flowing |
| Environmental stress cracking resistance | ASTM D1693 | No cracking |
| Dielectric strength | ASTM D2671 | ≥15 kV/mm |
| Volume resistivity | ASTM D2671 | ≥1.0×10 ¹⁴ Ω·cm |
| Storage | Outer diameter and longitudinal Change ≤2% | |
| Discoloration due to heating | Below 180°C, thermo-chromatic paint not change color while 250°C color-changing complete | |
| Adhesive | | |
| Ring-and-Ball Softening Point | GB/T 15332.94 | ≥115 °C |
| Viscosity | HG/T 3660-1999 | ≥50000 mPa·S |
| Environmental stress cracking resistance | 50°C/48h | No cracking of heat shrink tube |
| Corrosion of copper, aluminum and steel | 120°C/16h | No corrosion |
| Assembly Complete | | |
| Air tightness | YD/T 814 | Pass |
| Thermal cycling | YD/T 814 | Pass |
| Fluid resistance | YD/T 814 | Pass |