



## S3PS Heat Shrink Tube for Fiber Optic Dome Closure

### Features

- Heavy wall cross-linked polyolefin
- Innovative locking mechanism, hermetically sealed
- Spiral polyamide adhesive, mirror like adhesive optional
- Excellent UV, corrosion, mechanical damage resistance
- Thermo-chromatic paint changes color for proper installation
- Operating temperature: -55~110°C
- Shrink temperature: 125°C
- Shrink ratio: 4:1

### Dimensions

| Reference UPM S3PS | As supplied (mm)<br>ID min. | After recovered (mm)<br>ID max. | WT nom. | Standard length<br>mm |
|--------------------|-----------------------------|---------------------------------|---------|-----------------------|
| 28/6               | 28                          | 6                               | 2.9     | 150                   |
| 30/6               | 30                          | 6                               | 3.0     | 150                   |
| 33/8               | 33                          | 8                               | 3.0     | 150                   |
| 38/9               | 38                          | 9                               | 3.5     | 150                   |
| 43/9               | 43                          | 9                               | 3.8     | 150                   |
| 45/10              | 45                          | 10                              | 3.8     | 150                   |
| 55/16              | 55                          | 16                              | 3.7     | 150                   |
| 75/22              | 75                          | 22                              | 3.7     | 150                   |
| 95/25              | 95                          | 25                              | 4.2     | 150                   |
| 105/30             | 105                         | 30                              | 4.2     | 150                   |

● ID=Internal Diameter

● WT= Wall Thickness



\* No adhesive at this end(8-10 mm) for locking the cable position

### Typical application

- Ideal for aerial and underground applications, especially in Fiber Optic Dome Splice Closure

### Ordering

- Standard color : Black
- Special colors (e.g. Clear) are available on request
- Standard packaging is 150mm/pc
- Special sizes and lengths are available on request
- Please specify specification,color,quantity when ordering

### Technical Data

| Property                                    | Test Method                                                                                                    | Values                             |
|---------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------|
| Density                                     | ASTM D2671                                                                                                     | 0.95~1.00                          |
| Hardness (Shore D)                          | ASTM D2671                                                                                                     | ≥ 45 HD                            |
| Tensile strength                            | ASTM D2671                                                                                                     | ≥ 19 MPa                           |
| Breakdown elongation                        | ASTM D2671                                                                                                     | ≥ 450%                             |
| Aging (158 °C/168hrs)                       | ASTM D2671                                                                                                     | ≥ 18 MPa                           |
| Dielectric strength                         | ASTM D2671                                                                                                     | ≥ 400%                             |
| Fungus resistance                           | ASTM G21                                                                                                       | ≥ 15 KV/mm                         |
| UV resistance                               | ASTM G53                                                                                                       | No incidence of fungal growth      |
| Water absorption                            | ASTM D570                                                                                                      | After 2000hrs elongation 360% min. |
| Low temperature flexibility(out layer)      | ASTM D2671                                                                                                     | 23°C/24hrs 0.2% max.               |
| Low temperature flexibility(adhesive layer) | ASTM D2671                                                                                                     | -40°C/4hrs No cracking             |
| Chemical resistance                         | Hydrochloric acid, concentration 0.1                                                                           | 23°C/168hrs Elongation 400% min.   |
|                                             | Sulphuric acid, concentration 0.1                                                                              |                                    |
|                                             | Sodium chloride, concentration 0.1                                                                             |                                    |
|                                             | Sodium hydroxide, concentration 0.1                                                                            |                                    |
|                                             | Sodium nitrate, concentration 0.1                                                                              |                                    |
| Chemical resistance                         | Sodium sulphate, concentration 0.1                                                                             | No corrosion; No leaking           |
|                                             | 5%HCL/5%NaOH/5%NaCl                                                                                            |                                    |
| Sealing                                     | Internal air pressure 60kPa/24hrs                                                                              | Pass                               |
| Temperature cycling                         | 23°C/100kPa duration 24hrs, or immersed in water for 15mins                                                    | No leaking                         |
|                                             | 10 temperature cycles from -40°C to 60°C, internal air pressure 60kPa, duration 2hrs at each temperature point |                                    |
| Thermal aging                               | 60°C/168hrs, internal air pressure 70kPa                                                                       | Pass                               |
| Elongation                                  | Pulling with D/45*1500N, internal air pressure 60kPa/24hrs                                                     | No leaking                         |
| Cable torsion                               | Subjecting the cable to 90 degree torsion loading.                                                             | No damage, No leaking              |
|                                             | maximum torque: 50Nm ; torsion distance 250mm; internal air pressure 60kPa                                     |                                    |
| Chemical attack                             | 70% gasoline and 30% methylbenzene                                                                             | No leaking                         |
|                                             | duration 168hrs, after 3 days internal air pressure 100kPa                                                     |                                    |



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