| Conversion from imperal to metrics | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Zoll | 1/32" | 3/64" | 1/16" | 5/64" | 3/32" | 1/8" | 3/16" | 1/4" | 3/8" |
| mm | 0.8 | 1.2 | 1.6 | 2.0 | 2.4 | 3.2 | 4.8 | 6.4 | 9.5 |
| Zoll | 1/2" | 5/8" | 3/4" | 1" | 1 1/4" | 1 1/2" | 2" | 3" | 4" |
| mm | 12.7 | 15.9 | 19.1 | 25.4 | 31.8 | 38.1 | 50.8 | 76.2 | 101.6 |

**The right heat shrink tube**

The 80:20 rule means that a heat shrink tube should shrink by a maximum of 80% and a minimum of 20%. For example: A cable with a diameter of 5 mm is to be wrapped in heat shrinkable tubing. In theory both sizes 6/2 and 12/4 would be suitablesince the required diameter of 5 mm lies with in the shrink range of both tube sizes.

Maximum shrink (100%)


Maximum shrinkage = 4 mm

Otimum shrink max. ( 80%)


Shrinkage of 3.2 mm

Otimum shrink min. ( 20%)


Shrinkage of 0.8 mm

Size 6/2 has a range of application of between 2.8 mm and 5.2 mm and is therefore suitable for the cable diameter of 5 mm.

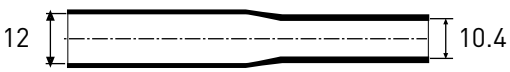
Maximum shrink (100%)


Maximum shrinkage = 8 mm

Otimum shrink max. ( 80%)


Shrinkage of 6.4 mm

Otimum shrink min. ( 20%)



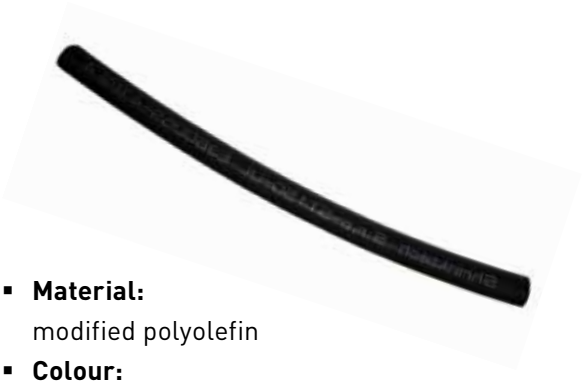

Shrinkage of 1.6 mm

The smallest application diameter of size 12/4 is 5.6 mm. This size is therefore unsuitable for a cable diameter of 5 mm.

# STS150

## ShrinkTech® standard 150°C

It's reliably protects for wires, solder joints terminals, protection from most industrial fluid solvents and fluid chemicals. Can be used for jacketing and bundling of wires where abrasion resistance and flexibility are required.



- Highly flame retardant
- Environmental friendly, free from toxic heavy metal compounds
- Flexible
- UL 224, 150 °C, VW-1

- **Material:** modified polyolefin
- **Colour:** black
- **Packaging:** spools


| Property | Method of test | Value |
|---|---|---|
| Tensile strength | ASTM D2671 | >10.4 MPa |
| Elongation at break | ASTM D2671 | >200% |
| Longitudinal shrinkage | UL 224 | >5% |
| Tensile strength after ageing (180°C / 168 hrs) | UL 224 180°C/168h | >7.3 MPa |
| Elongation at break after ageing (180°C / 168 hrs) | UL 224 180°C/168h | <100% |
| Heat shock (250 / °C 4 hrs) | UL 224 250°C/4h | No cracking or dropping |
| Cold tolerance (-30°C /1 hrs) | UL 224 -30°C/1h | No cracking |
| Dielectric strength | IEC243 | >15kV/mm |
| Volume resistance | IEC93 | $>10^{14}\Omega$.cm |
| Copper stability | UL 224 | Pass |
| Flammability | UL 224 | VW -1 |
| Water absorption | UL 224 | <0.5 |
| Corrosion | UL 224 | Pass |

| Article No. | Internal diameter (mm) | | Wall thickness fully recovered (mm) | Spools (m) | Shape |
|---|---|---|---|---|---|
| | Min.as supplied | Max. fully recovered | | | |
| STS150-012 | 1.2 | 0.6 | 0.33 | 200 | O |
| STS150-016 | 1.6 | 0.8 | 0.33 | 200 | O |
| STS150-024 | 2.4 | 1.2 | 0.44 | 200 | O |
| STS150-032 | 3.2 | 1.6 | 0.44 | 200 | O |
| STS150-048 | 4.8 | 2.4 | 0.44 | 100 | O |
| STS150-064 | 6.4 | 3.2 | 0.56 | 100 | O |
| STS150-095 | 9.5 | 4.8 | 0.56 | 50 | F |
| STS150-127 | 12.7 | 6.4 | 0.56 | 50 | F |
| STS150-190 | 19.0 | 9.5 | 0.69 | 30 | F |
| STS150-254 | 25.4 | 12.7 | 0.77 | 30 | F |
| STS150-318 | 31.8 | 15.9 | 0.87 | 30 | F |