

## TECHNICAL TUBING AND SLEEVING

### HEAT SHRINK TUBING



This heat-shrink tubing is made of flame-retardant, cross-linked polyolefin with a hot-melt inner coating and a heat-shrink outer layer. The outer layer provides good insulation, wear resistance and durability. The inner layer can be melted at low temperatures and has good waterproof properties.

#### Polyolefin Heat Shrink Tubing, Type SSPOFR, Flame-Retardant

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##### Technical features:

**Material:** Polyolefin, flame-retardant

**Shrink rate:** 2 : 1

**Operating temperature:** -55 °C to 125 °C

**Shrink temperature:** 95 °C

**Application:** suitable for large-scale industrial production

|                                                                                                                                              | Test                               | Values                           |
|----------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------------------------------|
| Tensile strength                                                                                                                             | ISO 37                             | > 10 MPa                         |
| Elongation at break                                                                                                                          | ISO 37                             | > 200%                           |
| Specific weight                                                                                                                              | ISO 1183                           | < 1,4                            |
| Thermal shock                                                                                                                                | ASTM D2671 (4 h at 200°C)          | no dripping, cracking or flowing |
| Heat aging, Elongation at break                                                                                                              | ISO 188 (168 h at 150 °C) / ISO 37 | < 150 %                          |
| Flexibility at low temperature                                                                                                               | ASTM D2671 (4h at -40°C)           | no tearing                       |
| Flammability (except transparent)                                                                                                            | ASTM 876                           | passed                           |
| Dielectric strength                                                                                                                          | IEC 243-1                          | > 20 kV/mm                       |
| Corrosion resistance (copper level)                                                                                                          | ASTM D2671                         | no corrosion                     |
| Water absorption                                                                                                                             | ISO 62                             | < 0.5%                           |
| Resistance to liquids<br>> Diesel, petrol, kerosene<br>> Lubricating oils<br>> Hydraulic oils<br>> Tensile strength<br>> Elongation at break | ISO 1817<br>ISO 37<br>ISO 37       | 7 MPa<br>> 300%                  |

## Dimensions

### Shrinkage rate 2 : 1

| Master number | min. diameter |          | max. diameter shrunk |          | Wall thickness after shrinkage |          | Length on spool |          |
|---------------|---------------|----------|----------------------|----------|--------------------------------|----------|-----------------|----------|
|               | [mm]          | [inches] | [mm]                 | [inches] | [mm]                           | [inches] | [m]             | [inches] |
| SSPOFR3/64"   | 1,2           | 0.023    | 0,6                  | 0.023    | 0,45                           | 0.018    | 150             | 500      |
| SSPOFR1/16"   | 1,6           | 0.031    | 0,8                  | 0.031    | 0,45                           | 0.018    | 150             | 500      |
| SSPOFR3/32"   | 2,4           | 0.046    | 1,2                  | 0.046    | 0,50                           | 0.019    | 150             | 500      |
| SSPOFR1/8"    | 3,2           | 0.062    | 1,6                  | 0.062    | 0,50                           | 0.019    | 150             | 500      |
| SSPOFR3/16"   | 4,8           | 0.093    | 2,4                  | 0.093    | 0,50                           | 0.019    | 150             | 500      |
| SSPOFR1/4"    | 6,4           | 0.125    | 3,2                  | 0.125    | 0,65                           | 0.026    | 75              | 250      |
| SSPOFR3/8"    | 9,5           | 0.187    | 4,8                  | 0.187    | 0,65                           | 0.026    | 75              | 250      |
| SSPOFR1/2"    | 12,7          | 0.250    | 6,4                  | 0.250    | 0,65                           | 0.026    | 75              | 250      |
| SSPOFR3/4"    | 19,1          | 0.375    | 9,5                  | 0.375    | 0,75                           | 0.029    | 60              | 200      |
| SSPOFR1"      | 25,4          | 0.500    | 12,7                 | 0.500    | 0,90                           | 0.039    | 60              | 200      |
| SSPOFR1-1/2"  | 38,1          | 1.500    | 19,0                 | 0.750    | 0,90                           | 0.039    | 30              | 100      |
| SSPOFR2"      | 50,8          | 2.000    | 25,4                 | 1.000    | 1,15                           | 0.045    | 30              | 100      |
| SSPOFR3"      | 76,2          | 3.000    | 38,1                 | 1.500    | 1,25                           | 0.049    | 30              | 100      |
| SSPOFR4"      | 102,0         | 4.000    | 50,8                 | 2.000    | 1,40                           | 0.055    | 30              | 100      |

#### Standard colors:

black (bw), transparent (tr), (other colors on request)

#### Article number:

Example: SSPOFR3/32 "WS

SSPOFR3/32" = master number

SW = color black