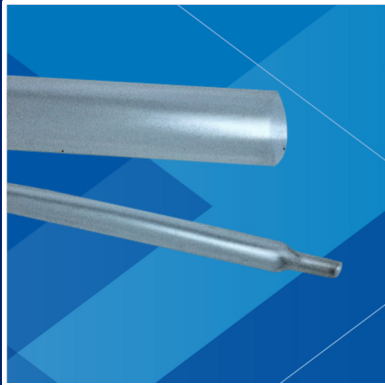


HEAT-SHRINKABLE TUBING

HTS-A2 (3x)

SUMITUBE[®], Made of Polyolefin, Thin-walled, Flexible, Halogen free, Transparent, High shrink rate



Highlights

- Operating temperature - 55 °C to 135 °C
- High mechanical strength
- Low friction surface
- Visual inspection after shrinkage possible
- Shrink rate 2:1
- Shrink temperature: 110 °C
- Not self-extinguishing
- Approvals: ASTM, SAE
- RoHS and REACH conform

Dimensions

| Art.-No. | Before Shrinkage (mm) | | After Shrinkage (mm) | | Standard Packaging | |
|----------|-----------------------|----------------------|-----------------------|-----------------------|--------------------|---------|
| | Inch | Inner Diameter (min) | Inner Diameter (max.) | Wall Thickness (nom.) | Spool (m) | Box (m) |
| Z85994 | 1.5/0.5 | 1.50 | 0.50 | 0.50 | 300 | 900 |
| Z85995 | 3/1 | 3.00 | 1.00 | 0.60 | 150 | 900 |
| Z85981 | 6/2 | 6.00 | 2.00 | 0.70 | 60 | 300 |
| Z85982 | 9/3 | 9.00 | 3.00 | 0.80 | 60 | 300 |
| Z85983 | 12/4 | 12.00 | 4.00 | 0.85 | 60 | 300 |
| Z85984 | 18/6 | 18.00 | 6.00 | 1.00 | 60 | 180 |
| Z85985 | 24/8 | 24.00 | 8.00 | 1.20 | 60 | 180 |
| Z85986 | 40/13 | 40.00 | 13.00 | 1.25 | 60 | 180 |

Created by: VS 20.11.2020

We reserve the right to make product changes.

**RELIABLE, FLEXIBLE,
CUSTOMER-ORIENTED**

HEINRICH THULESIUS GMBH & CO. KG
Zum Panrepel 15, D-28307 Bremen, GERMANY



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**SUMITOMO
ELECTRIC
GROUP**

HEAT-SHRINKABLE TUBING

HTS-A2 (3x)

SUMITUBE[®], Made of Polyolefin, Thin-walled, Flexible, Halogen free, Transparent, High shrink rate

Technical characteristics

| Property | Test | Inspection requirements | Typical values |
|------------|--|--|-------------------------|
| Physical | Longitudinal change | SAE-AS23053, -5% ± 10% | -5% |
| | Density | ASTM D 792, max. 1,0 | 0,95 |
| | Tensile strength | ASTM D 638, min. 10,4 MPa | ≥ 20 MPa |
| | Elongation at break | ASTM D 638, min. 200% | ≥ 450% |
| | Secant modulus | ASTM D 882, max. 173 MPa | ≤ 80 MPa |
| Thermal | Operating temperature | SAE-AS23053, -55 to 135°C | -55°C to 135°C |
| | Min. shrink temperature | For complete shrinkage | 110°C |
| | Shrinkage begins at | | 75°C |
| | Heat shock (250°C x 4h) | SAE-AS23053, no cracking, flowing or dripping | Passed |
| | Elongation after thermal aging (175°C x 168 h) | SAE-AS23053, min. 100% | ≥ 250% |
| | Low temperature flexibility (-55°C x 4 h) | SAE-AS23053, no cracks | Passed |
| Chemical | Copper corrosion (175°C x 16 h) | SAE-AS-23053, no corrosion | Passed |
| | Transparency stability (175°C x 24 h) | SAE-AS23053, legible markings | Passed |
| | Water absorption | ASTM D 570, max. 0,5% | ≤ 0,2% |
| | Fluid resistance (24°C x 24 h) | SAE-AS23053, min. 6,9 MPa (Tensile strength) | Passed |
| Electrical | Fluid resistance (24°C x 24 h) | SAE-AS23053, min. 15,8 kV/mm (Dielectric strength) | Passed |
| | Fungus resistance | SAE-AS23053, ASTM G 21 | Passed |
| | Nominal voltage | | 600V |
| Electrical | Breakdown test (2.5kV x 60 sec.) | UL 224, no breakdown | Passed |
| | Volume resistance | ASTM D 876, min. 10 ¹⁴ Ω/cm | ≥ 10 ¹⁵ Ω/cm |
| | Dielectric strength | ASTM D 876, min. 19,7 kV/mm | ≥ 30 kV/mm |

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