

# HEAT-SHRINKABLE TUBING

## HTS-A11

SUMITUBE®, Made of Polyolefin, Thin-walled, Flexible, Halogen free, Transparent



### Highlights

- Operating temperature - 55 °C to 105 °C
- Inexpensive transparent heat-shrinkable tubing
- Visual inspection after shrinkage possible
- Shrink rate 2:1
- Shrink temperature: 120 °C
- Not self-extinguishing
- 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)
Z85284	3/64	1.20	0.60	0.40	300	900
Z85280	1/16	1.60	0.80	0.43	300	900
Z85282	3/32	2.40	1.20	0.51	150	900
Z85277	1/8	3.20	1.60	0.51	300	900
Z85275	3/16	4.80	2.40	0.51	150	600
Z85276	1/4	6.40	3.20	0.64	100	300
Z85278	3/8	9.50	4.80	0.64	75	375
Z85274	1/2	12.70	6.40	0.64	75	375
Z85279	3/4	19.10	9.50	0.76	60	300
Z85285	1	25.40	12.70	0.76	75	300
Z85283	1-1/2	38.10	19.10	0.89	60	300
Z85286	2	50.80	25.40	0.89	60	300

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**

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### Technical characteristics

Property	Test	Inspection requirements	Typical values
Physical	Longitudinal change	JIS C 2133, -5% ± 10%	-5%
	Density	ASTM D 792,	0,94
	Tensile strength	ASTM D 638, min. 10,4 MPa	23 MPa
	Elongation at break	ASTM D 638, min. 200%	≥ 450%
	Secant modulus	ASTM D 882, max. 173 MPa	75 MPa
Thermal	Operating temperature		-55 °C to 105 °C
	Min. shrink temperature	For complete shrinkage	115 °C
	Shrinkage begins at		75 °C
	Elongation after thermal (136 °C x 168 h)	ASTM D 638, Min. 100%	4,4
	Heat shock (200 °C x 4 h)	SAE-AS23053, no cracking, flowing or dripping	Passed
Chemical	Low temperature flexibility (-55 °C x 4 h)	SAE-AS23053, no cracks	Passed
	Entflammbarkeit	FMVSS 302, FMVSS 302	Passed
	Water absorption	ASTM D 570,	0,0008
	Fluid resistance (24°C x 24 h)	SAE-AS23053,	
	Gasoline, engine oil 10 W/30 and brake fluid	Min. 6,9 MPa (tensile strength) Min. 100% (elongation at break)	≥ 13 MPa ≥ 100%
Electrical	Nominal voltage		600V
	Breakdown test (2.5kV x 60 sec.)	UL 224	Passed
	Volume resistance	ASTM D 876, Min. 10 <sup>16</sup> Ω/cm	5,3 x 10 <sup>16</sup> Ω/cm
	Dielectric strength	ASTM D 876,	≥ 20 kV/mm

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