

# HEAT-SHRINKABLE TUBING

## HTS-B55

SUMITUBE<sup>®</sup>, Made of Polyolefin, Thin walled, Flexible, Halogen free



### Highlights

- Operating temperature  
- 70 °C bis 135 °C
- Cost-effective
- Automotive-Standard
- Flame-retardent
- Halogen free
- Shrink rate 2:1
- Shrink temperature: 90 °C
- Light and flexible
- RoHS and REACH conform
- Norms: ASTM, FMVSS 302

### 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)
Z85425	3/64	1.20	0.60	0.31	500	2500
Z85426	1/16	1.60	0.80	0.33	500	2000
Z85427	3/32	2.40	1.20	0.36	500	2000
Z85428	1/8	3.20	1.60	0.39	300	1500
Z85429	3/16	4.80	2.40	0.42	150	750
Z85430	1/4	6.40	3.20	0.45	100	500
Z85431	3/8	9.50	4.80	0.48	100	500
Z85432	1/2	12.70	6.40	0.52	100	200
Z85433	3/4	19.10	9.50	0.58	100	300
Z85434	1	25.40	12.70	0.67	100	200
Z85435	1 ½	38.10	19.10	0.76	100	300
ZXXXXX	2	50.80	25.0	0.85	100	200
ZXXXXX	3	76.2	38.1	0.95	80	80
ZXXXXX	4	101.60	50.8	1.05	80	80
ZXXXXX	5	127.00	63.0	1.40	30	30

Created by: VS 20.11.2020

We reserve the right to make product changes.

**RELIABLE, FLEXIBLE,  
CUSTOMER-ORIENTED**

**HEINRICH THULESIUS GMBH & CO. KG**

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**SUMITOMO  
ELECTRIC  
GROUP**

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### Technical characteristics

Property	Test	Inspection requirements	Typical values
Physical	Longitudinal change by shrinking	SAE-AS23053, -5% +/- 10%	-5%
	Modulus of elasticity	ASTM D 882	77 MPa
	Secant modulus	ASTM D 882, max. 173 MPa	≤ 100 MPa
	Density	ASTM D 792, nom. 1,1	Passed
	Zugfestigkeit Reißdehnung	ASTM D 638, min. 10,4 MPa ASTM D 638, min. 200%	≥ 400% Bestanden
Thermal	Operating Temperature		-70 °C to 135 °C
	Min. Shrink Temperature	für vollständige Schrumpfung	90 °C
	Shrinkage begins at		60 °C
	Heat Shock (225°C x 4h)	UL 224, kein Reißen, Fließen oder Tropfen	Passed
	Elongation after thermal aging (136°C x 168h)	SAE-AS23053, min. 100% SAE-AS23053, min 7,3 MPa	> 200% Passed
	Cold bending (-70 °C x 4 h) Copper corrosion (175 °C x 16 h)	UL 224, keine Risse UL 224, keine Korrosion	Passed Passed
Chemical	Flammability	FMVSS 302	Passed
	Fluid resistance (24 °C x 24 h)	SAE-AS23053, min. 10,4 MPa (tensile strength) SAE-AS3053, min. 200% (elongation)	Passed Passed
Electrical	Nominal voltage	600V	
	Breakdown test (2.5 kV x 60 sec.)	UL 224, no breakdown	Passed
	Volume resistance Dielectric strength	ASTM D 257, min. 10 <sup>14</sup> Ω/cm ASTM D 876, min. 19,7 kV/mm	Passed ≥ 23 kV/mm

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