



SBRS-135G (3X) (4X)

Military Grade Adhesive-lined Dual Wall Heat Shrink Tubing



Description

SBRS-135G (3X) (4X) is a cross-linked polyolefin tube that is extruded with an inner layer of adhesive. The inner layer of adhesive, with superior sealing capability, is also a buffer against mechanical strain. Dual wall heat shrink tubing is designed to provide superior sealing against water, corrosive gas and chemicals. Typical applications include environmental sealing of in-line splices, sealing and strain relief of connectors and terminals, abrasion protection and electrical insulation of automotive wiring harness splices and valuable components, fleet & marine sealing & protection and wire bundling etc.

Features

- Standard:AMS-DTL-23053/4,UL 224
- Shrink ratio:3:1,4:1
- Flame retardant outer layer, environment friendly, UV resistant
- Shrink temperature:80°C~120°C
- Continuous operating temperature:-55°C~125°C
- RoHS compliant
- Standard color: Black.



Technical Performance

Property	Typical data	Test method/condition
Tensile strength	≥13MPa	ASTM D 2671
Elongation at break	≥400%	ASTM D 2671
Tensile strength after heat aging	≥11MPa	158°C×168h
Elongation after heat aging	≥300%	158°C×168h
Longitudinal change	0~-10%	ASTM D 2671
Flammability	Self extinguishing in 30 sec.	AMS-DTL-23053/5
Heat shock	No cracks, no dripping	ASTM D 2671 , 250°C×4h
Dielectric strength	≥15kV/mm	IEC 60243
Volume resistivity	≥10 ¹⁴ Ω.cm	IEC 60093

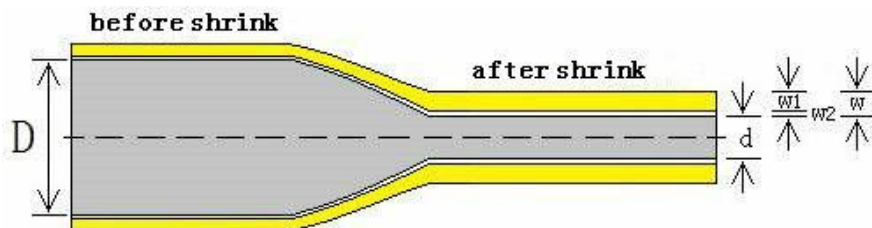
Technical Performance of Adhesive

Property	Typical data	Test method/condition
Softening point	95±5°C	ASTM E 28
Water absorption	<0.5%	ASTM D 570



Peel strength(PE)	≥120N/25mm	ASTM D 1000
Peel strength(Al)	≥80N/25mm	ASTM D 1000

Structure



Dimensions (3:1)

Size		DAs supplied ID(mm)	After full recovery(mm)			Standard package
mm	inch		ID d	Wall thickness w1	Thickness of adhesive w2	(m/spool)
Φ3.0(3.2)	1/8	≥3.0	≤1.0	≥1.00	0.50	200



Φ4.8	3/16	≥4.8	≤1.5	≥1.00	0.50	100
Φ6.0(6.4)	1/4	≥6.0	≤2.0	≥1.00	0.50	100
Φ7.9	2.5/8	≥7.9	≤2.7	≥1.00	0.50	100
Φ9.0(9.5)	3/8	≥9.0	≤3.0	≥1.40	0.60	50
Φ12.0(12.7)	1/2	≥12.0	≤4.0	≥1.60	0.80	25
Φ19.0(19.1)	3/4	≥19.0	≤6.0	≥2.10	0.80	25
Φ24.0(25.4)	1	≥24.0	≤8.0	≥2.40	1.0	25
Φ40.0(39.0)	1-1/2	≥40.0	≤13.0	≥2.40	1.0	25

Dimensions (4:1)

Size		As supplied ID(mm)	After full recovery(mm)			Standard package
mm	inch		ID	Wall thickness	Thickness of adhesive	(m/spool, m/pcs)
Φ4.0	2/13	≥4.0	≤1.0	1.05±0.30	0.50±0.20	200



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Φ8.0	5/16	≥8.0	≤2.0	1.55±0.30	0.60±0.25	100
Φ12.0	1/2	≥12.0	≤3.0	1.75±0.30	0.60±0.25	25
Φ16.0	5/8	≥16.0	≤4.0	2.00±0.35	0.70±0.30	25
Φ24.0	1	≥24.0	≤6.0	2.60±0.40	0.75±0.30	25
Φ32.0	1-1/4	≥32.0	≤8.0	3.00±0.50	0.90±0.30	1.22
Φ52.0	2	≥52.0	≤13.0	3.35±0.50	0.95±0.30	1.22

Note: Non-standard package and dimensions are available on your request