



J. M. Engineering Co.

A collage of images related to engineering and industry, including a blue and white airplane, various colored heat shrink sleeves, rolls of yellow and green sleeves, a circuit board, and wind turbines. A yellow square is positioned behind the word 'PRODUCTS'.

PRODUCTS

Heat Shrink Sleeves

Dual Wall Heat Shrink Sleeves



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SBRS-(3X, 4X) GF

Dual Wall Adhesive Lined Cross-linked Polyolefin tubing

Adhesive lined heat shrink tubing ideal for applications where both exceptional flame retardancy and environmental sealing capabilities are required



Features

- 3:1&4:1 shrink ratio
- Highly flame retardant
- Superior sealing against water, moisture or other contaminants
- High shrink ratio allows for coverage of irregularly shaped connectors and components
- Superior sealing against water, moisture and other contaminants
- Continuous operating temperature: -55 - 135
- Fully shrink temperature: 125
- Meets MIL-DTL-23053/4

Dimensions

SBRS-(3X)GF

Size		Expanded	After Recovery			Standard Package
Inch	mm	Internal Diameter mm	Internal Diameter mm	Total Wall Thickness mm	Adhesive Thickness mm	Spool Length M/spool
1/8	3.2	3.2	1.0	0.90±0.30	0.40±0.20	200
3/16	4.8	4.8	1.6	1.05±0.30	0.40±0.20	100
1/4	5.4	5.4	2.2	1.25±0.30	0.45±0.20	100
5/16	7.9	7.9	2.7	1.35±0.30	0.45±0.20	100
3/8	9.5	9.5	3.2	1.45±0.30	0.50±0.20	50
1/2	12.7	12.7	4.2	1.65±0.30	0.50±0.20	1.22 OR 25M/Roll
5/8	15	15	5.2	1.80±0.30	0.55±0.30	1.22 OR 25M/Roll
3/4	19.1	19.1	6.3	1.95±0.30	0.60±0.30	1.22 OR 25M/Roll
1	25.4	25.4	8.5	2.00±0.40	0.60±0.30	1.22 OR 25M/Roll
1-1/4	30	30	10.2	2.15±0.40	0.65±0.30	1.22 OR 25M/Roll
1-1/2	39	39	13.5	2.45±0.40	0.75±0.30	1.22 OR 25M/Roll
2	50	50	17.0	2.75±0.40	0.80±0.30	1.22 OR 25M/Roll

SBRS-(4X)GF

Size		Expanded	After Recovery			Standard Package
Inch	mm	Internal Diameter mm	Internal Diameter mm	Total Wall Thickness mm	Adhesive Thickness mm	Spool Length M/spool
5/32	4.0	4,0	1.0	1.05±0.30	0.50±0.20	200
1/4	6.0	6,0	1.5	1.15±0.30	0.50±0.20	100
5/16	8.0	8,0	2.0	1.55±0.30	0.60±0.25	50
1/2	12.0	12,0	3.0	1.75±0.30	0.60±0.25	1.22 OR 25M/Roll
5/8	16.0	16,0	4.0	2.00±0.35	0.70±0.30	1.22 OR 25M/Roll
25/32	20.0	20,0	5.0	2.30±0.40	0.70±0.30	1.22 OR 25M/Roll
1	24.0	24,0	6.0	2.60±0.40	0.75±0.30	1.22 OR 25M/Roll
1-1/4	32.0	32,0	8.0	3.00±0.50	0.90±0.30	1.22 OR 25M/Roll
2	52.0	52,0	13.0	3.35±0.50	0.95±0.30	1.22 OR 25M/Roll

Technical Data

Property	Test Method	Standard	Typical Performance
Tensile Strength(MPa)	ASTM D2671	12	12.5
Elongation(%)	ASTM D2671	300	450
Tensile Strength after aging (MPa)	MIL-DTL-23053/4	8.4	8.5
Elongation after aging(%)	MIL-DTL-23053/4	100	350
Dielectric strength(kv/mm)	IEC 60243	15	17.5
Volume resistivity(.cm)	IEC 60093	1X10 ¹⁴	2.5X10 ¹⁴

Adhesive

Property	Test Method	Standard
Water Absorption	ASTM D570	0.2%
Sofening Point()	ASTM E28	90± 5
Strength of pearing(PE)	ASTM D 1000	120N/25mm
Strength of pearing(AL)	ASTM D 1000	80N/25mm