



J. M. Engineering Co.

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

PRODUCTS

Heat Shrink Sleeves

Heat Shrink Insulation Connectors



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SBRS- DZ

Heat Shrink Insulation Connectors

Crystal clear, semi-rigid, adhesive lined tubing with integral solderless splice connector



Features

- Exceptional clarity for visual confirmation of seal
- Seal & protects against water, corrosive compounds, moisture & contaminants
- Tough, durable heat shrink tubing resists abrasion, crimp tool damage & splitting
- Shrinks 40% faster than nylon, preventing.
- Inner adhesive bonds to plastics, rubbers & metals
- Meets & conforms to OEM wiring specifications for installation & repairs
- Continuous operating temperature: -45 - 125
- Minimum shrinking temperature: 80

Dimensions

Code	Size		Tube Diameter			Color	Standard Package
	AWG	mm ²	Expanded Min(mm)	Recovered Max(mm)	Length (mm)		
SBRS-DZ-1	22-18	0.5-1.0	4.8	1.2	35.0	red	1000pc/bag
SBRS-DZ-2	16-14	1.5-2.5	5.5	1.4	35.0	blue	1000pc/bag
SBRS-DZ-3	12-10	4.0-6.0	6.5	1.5	42.0	yellow	500pc/bag

Technical Data

Property	Test Method	Standard	Typical Performance
Tensile Strength(MPa)	ASTM D2671	14	16
Elongation(%)	ASTM D2671	300	450
Tensile Strength after aging (MPa)	UL224 158 X168hr	7.3	15
Elongation after aging(%)	UI224 158 X168hr	200	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	0.5%
Softening Point()	ASTM E28	95± 5
Strength of peeling(PE)	ASTM D 1000	120N/25mm
Strength of peeling(AL)	ASTM D 1000	80N/25mm



Dimensions

Code	Size (mm)	Standard Length(mm)	Expanded	Recover			
			Internal Diameter Min(mm)	Internal Diameter Max(mm)	Outer Layer Thickness (mm)	Adhesive Thickness (mm)	Total Wall Thickness (mm)
CAPS-1	3.2	22	5.72	1.27	0.64	0.56	1.20
CAPS-2	4.8	25.4	7.44	1.65	0.76	0.76	1.52
CAPS-3	6.4	28.4	10.85	2.41	0.89	1.37	1.91

SBRS- CAPS

Adhesive-Lined Insulating Caps

Adhesive lined, heat shrink insulating caps specifically designed to insulate, seal and protect end or stub splices in wiring harness and electronic assemblies.



Features

- 4:1 shrink ratio allows fewer sizes to cover a wide range of profiles
- Seals and protects against water, moisture and chemical
- Adhesive bonds readily to PVC, XLPE and PP-EPDM cable jackets
- Shrinks rapidly for quick installation
- Continuous operating temperature:-45 - 125
- Minimum shrinking temperature: 125

Technical Data

Property	Test Method	Standard	Typical Performance
Tensile Strength(MPa)	ASTM D2671	10.4	11.5
Elongation(%)	ASTM D2671	300	450
Tensile Strength after aging (MPa)	UL224 158 X168hr	7.3	8.5
Elongation after aging(%)	UI224 158 X168hr	200	350
Dielectric strength(kV/mm)	IEC 60243	15	17.5
Volume resistivity(.cm)	IEC 60093	1X10 ¹⁴	2.5X10 ¹⁴



SBRS- CAPS NF

Semi-rigid, Adhesive-Lined Insulating Caps

Semi-rigid, adhesive lined, heat shrink insulating caps specifically designed to insulate, seal and protect end or stub splices under extreme operating conditions



Features

- 4:1 shrink ratio allows fewer sizes to cover a wide range of profiles
- Seals and protects against water, moisture and chemical
- Adhesive bonds readily to PVC, XLPE and PP-EPDM cable jackets
- Shrinks rapidly for quick installation
- Continuous operating temperature:-45 - 125
- Fully shrink temperature: 125
- Not flame-retardant

Dimensions

Code	Size (mm)	Standard Length (mm)	Expanded	Recover			
			Internal Diameter Min(mm)	Internal Diameter Max(mm)	Outer Layer Thickness (mm)	Adhesive Thickness (mm)	Total Wall Thickness (mm)
CAPS NF-1	3.2	22	3.2	0.80	0.64	0.56	1.20
CAPS NF-2	4.8	25.4	4.8	1.30	0.76	0.76	1.52
CAPS NF-3	6.4	28.4	6.4	1.52	1.00	0.91	19.10
CAPS NF-4	9.5	31.8	9.5	2.00	1.08	1.00	2.08
CAPS NF-5	12.7	38.1	12.7	2.41	1.30	1.24	2.54

Technical Data

Property	Test Method	Standard	Typical Performance
Tensile Strength(MPa)	ASTM D2671	10.4	11.5
Elongation(%)	ASTM D2671	300	450
Tensile Strength after aging (MPa)	UL224 158 X168hr	7.3	8.5
Elongation after aging(%)	UL224 158 X168hr	200	350
Dielectric strength(kV/mm)	IEC 60243	15	17.5
Volume resistivity(.cm)	IEC 60093	1X10 ¹⁴	2.5X10 ¹⁴



Dimensions

Expanded Length (Nom)		Expanded		Recoverd			General Use Diameter		Cable Range	
		InternalDiameter Min		InternalDiameter Max-d		Wall Thickness Nom-W				
mm	IN	mm	IN	mm	IN	mm	IN	mm	IN	AWG/MCM
50.80	2.00	10.20	0.40	3.80	0.15	2.00	0.080	4.5-8.5	0.18-0.34	#8-#1
63.50	2.50	19.10	0.75	5.60	0.22	2.00	0.080	6-16.5	0.24-0.65	#2-4/0
76.20	3.00	27.90	1.10	10.20	0.40	2.40	0.095	11.5-25	0.45-1	2/0-500
76.20	3.00	33.00	1.30	10.20	0.40	2.40	0.095	11.5-30	0.45-1.2	300-1000
88.90	3.50	38.10	1.50	12.70	0.50	2.40	0.095	14-35	0.55-1.4	500-1500
88.90	3.50	43.20	1.70	12.70	0.50	2.50	0.100	14-40	0.55-1.6	650-1750
88.90	3.50	52.10	2.05	19.00	0.75	2.50	0.100	21-45	0.82-1.8	900-2500
101.60	4.00	69.80	2.75	25.40	1.00	2.50	0.100	30-63	1.2-2.5	2000-2500
114.30	4.50	88.90	3.50	30.00	1.18	2.50	0.100	33-83.8	1.3-3.3	—
139.70	5.50	119.40	4.70	39.90	1.57	2.70	0.105	40.6-114.3	1.6-4.5	—

SBRS-CAPS-RL

Semi-rigid, Adhesive-Lined Insulating Caps

Heat shrink end caps are a simple yet effective method for sealing cable ends, pipe, conduit or other similar objects.

Typical Applications Watertight sealing of cable ends and pipe conduit

Standards Rated for 600/1000V



Features

- 3:1 shrink ratio
- Resistant to common fluids and solvents
- Superior resistance to weathering ,moisture contamination and adverse environmental conditions
- Standard adhesive liner provides complete environmental protection and insulation
- Heat indicating lines
- Resistant to common fluids and solvents
- Coated hot melt adhesive resists pull-off
- Fully shrink temperature :125
- Continuous operating temperature: -55 to 110

Technical Data

Property	Test Method	Standard	Typical Performance
Tensile Strengtn(MPa)	ASTM D2671	10.4	11.5
Elongation(%)	ASTM D2671	300	450
Tensile Strengtn after aging (MPa)	UL224 158 X168hr	7.3	8.5
Elongation after aging(%)	UL224 158 X168hr	200	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