



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 sleeves, a circuit board, and wind turbines. A yellow square is positioned behind the 'PRODUCTS' text.

PRODUCTS

A light gray world map is visible in the background of the central section.

Heat Shrink Sleeves

Dual Wall Heat Shrink Sleeves



Visit Us

Manhar Bldg., 3rd Floor, 177,
Lohar Chawl, Mumbai –
400002, Maharashtra (INDIA)



Email Us

info@jmenggco.in



Call Us

T: +91-22-2206 1671
F: +91-22-2209 0291

SBRS-(2X)G

Dual Wall Adhesive-Lined Heat-Shrink Polyolefin Tubing

Adhesive lined heat shrink tubing with environmental sealing capability for a wide variety of electrical applications, including automotive and marine wire harness, wire splices, breakouts, and connector-to-cable transitions.



Features

- 2:1 shrink ratio
- Superior sealing against water, moisture or other contaminants
- Inner adhesive bonds to plastics, steel and polyethylene
- Out jacket flame retardant
- Continuous operating temperature:-45 - 125
- Fully shrink temperature: 125



Dimensions

Size		As Supplied	After Recovery			Standard Package
Inch	mm	Internal Diameter mm	Internal Diameter mm	Total Wall Thickness mm	Adhesive Thickness mm	Spool Length M/spool
1/16	1.6	1.6	0.8	0.60±0.30	0.30±0.2	200
3/32	2.4	2.4	1.2	0.70±0.30	0.35±0.2	200
1/8	3.2	3.2	1.6	0.70±0.30	0.35±0.2	200
3/16	4.8	4.8	2.4	0.80±0.30	0.40±0.2	100
1/4	6.4	6.4	3.2	0.80±0.30	0.40±0.2	100
5/16	7.9	7.9	3.9	0.90±0.30	0.45±0.2	100
3/8	9.5	9.5	4.8	0.90±0.30	0.45±0.2	50
1/2	12.7	12.7	6.4	0.95±0.40	0.45±0.2	1.22 OR 25M/Roll
5/8	15.9	15.9	7.9	0.95±0.40	0.45±0.2	1.22 OR 25M/Roll
3/4	19.1	19.1	9.5	1.00±0.40	0.45±0.2	1.22 OR 25M/Roll
1	25.4	25.4	12.7	1.10±0.40	0.50±0.2	1.22 OR 25M/Roll
1 1/4	31.8	31.8	15	1.15±0.40	0.50±0.2	1.22 OR 25M/Roll
1 1/2	38.1	38.1	19	1.25±0.40	0.50±0.2	1.22 OR 25M/Roll
1 3/4	44.5	44.5	22	1.35±0.40	0.55±0.2	1.22 OR 25M/Roll
2	50.8	50.8	25.4	1.50±0.40	0.60±0.2	1.22 OR 25M/Roll

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
Flammability	ASTM D2671B	Self-extinguish within 30s	

Hot Melt Adhesive Property

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

SBRS-(3X)G

Dual Wall Adhesive-Lined Heat-Shrink Polyolefin Tubing

Adhesive lined heat shrink tubing with environmental sealing capability for a wide variety of electrical applications, including automotive and marine wire harness, wire splices, breakouts, and connector-to-cable transitions.



Features

- 3:1 shrink ratio
- Low longitudinal shrinkage
- Flame retardant (out jacket only)
- Super sealing against water, moisture or other contaminates
- Continuous operating temperature:-45 - 125
- Fully shrink temperature: 125



Dimensions

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
3/32	2.4	2.4	0.8	0.80±0.30	0.40±0.20	200
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	6.4	6.4	2.2	1.25±0.30	0.45±0.20	100
5/16	7.9	7.9	2.7	1.35±0.30	0.50±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	0.60±0.30	1.22 OR 25M/Roll
2	50	50	17	2.75±0.40	0.75±0.30	1.22 OR 25M/Roll
5/2	64	64	21	3.05±0.40	0.80±0.30	1.22 OR 25M/Roll
3	75	75	25	3.05±0.40	1.05±0.40	1.22 OR 25M/Roll
7/2	90	90	30	3.10±0.50	1.05±0.40	1.22 OR 25M/Roll
4	100	100	34	3.10±0.50	1.05±0.40	1.22 OR 25M/Roll
5	125	125	42	3.10±0.50	1.10±0.40	1.22 OR 25M/Roll

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)	UI224 158 X168hr	7.3	8.5
Elongation after aging(%)	UI224 158 X168hr	200	350
Flammability	ASTM D2671B	Self-extinguish within 30s	Self-extinguish within 30s
Dielectric strength(kV/mm)	IEC 60243	15	17.5
Volume resistivity(.cm)	IEC 60093	1X10 ¹⁴	2.5X10 ¹⁴

Hot Melt Adhesive Property

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



SBRS-(4X)G

Dual Wall Adhesive-Lined Heat-Shrink Polyolefin Tubing

Adhesive lined heat shrink tubing with environmental sealing capability for a wide variety of electrical applications, including automotive and marine wire harness, wire splices, breakouts, and connector-to-cable transitions.



Features

- 4:1 shrink ratio
- Low longitudinal shrinkage
- Superior sealing against water, moisture or other contaminants
- Ideal for connector sealing covering large diameter differences
- Inner adhesive bonds to plastics, steel and polyethylene
- Flame retardant(out jacket only)
- Continuous operating temperature:-45 - 125
- Fully shrink temperature: 125

Dimensions

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±0.30	200
1/4	6.0	6.0	1.5	1.15±0.30	0.50±0.30	100
5/16	8.0	8.0	2.0	1.55±0.30	0.60±0.30	50
1/2	12.0	12.0	3.0	1.75±0.30	0.60±0.30	1.22 OR 25M/Roll
5/8	16.0	16.0	4.0	2.00±0.30	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±0.40	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	10.4	11.5
Elongation(%)	ASTM D2671	300	450
Tensile Strength after aging (MPa)	UI224 158 X168hr	7.3	8.5
Elongation after aging(%)	UI224 158 X168hr	200	350
Flammability	ASTM D2671B	Self-extinguish within 30s	Self-extinguish within 30s
Dielectric strength(kV/mm)	IEC 60243	15	17.5
Volume resistivity(.cm)	IEC 60093	1X10 ¹⁴	2.5X10 ¹⁴

Hot Melt Adhesive Property

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



SBRS-(2X)QF

Dual Wall Adhesive-Lined Heat-Shrink Tubing for Automotive Oil-pipe Protection

SBRS-(2X)QF Adhesive-lined Heat-shrinkable Tubing is specially designed for Automotive Oil-pipe Protection, providing preventive protection to break line, fuel line, hydraulic line and other metal pipeline which is subject to bending or clamping during manufacturing, installation or operation.



Features

- Semi-rigid outer jacket for mechanical damage prevention
- Adhesive inner layer for sealing against moisture and corrosion
- Easy installation
- High strength bonding, the adhesive layer is hard to be peeled off from pipeline
- Continuous operating temperature: -45 - 105
- Fully shrink temperature: 125

Dimensions

Size mm	Expanded Internal Diameter Min(mm)	After Recovery			Standard Package Spool Length M/spool
		Internal Diameter Max(mm)	Total Wall Thickness Nom(mm)	Adhesive Thickness Nom(mm)	
6.0	6	4.5	1.20±0.20	0.20±0.05	300
8.0	8	6.1	1.30±0.20	0.20±0.05	200
11.0	11	7.1	1.30±0.20	0.20±0.05	200
13.0	13	9.8	1.30±0.20	0.20±0.05	100
15.0	15	11.5	1.30±0.20	0.20±0.05	100

Technical Data

Property	Test Method	Standard Performance
Tensile Strength(MPa)	ASTM D2671	12
Elongation(%)	ASTM D2671	300
Longitudinal change	ASTM D2671	-10%~+10%
Tensile strength after aging(MPa)	120 X24h	12
Non-deformability	140 ,10min,2kg/cm ² ,loaded 5min	60%
Low-temperature impact	ASTM D 746	-35 ,no cracking
Impact resistance to fall	Room temperature&-40 X30min, impacted by a weight of 200g, 0.5m high	no cracking
Stress-crack resistance	ASTM D 1693	no cracking
Chemical reagents resistance: 0.1 mol/L H ₂ SO ₄ ,0.1 mol/L NaOH, Brake fluid, Engine oil, Gasoline	No abnormal in appearance	20 ,120hr

Adhesive

Property	Test Method	Standard
Water Absorption	ASTM D570	0.5%
Softening Point()	ASTM E28	105±5
Strength of pearing(AL)	ASTM D 1000	120N/25mm
Strength of pearing(PE)	ASTM D 1000	80N/25mm



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

SBRS-(3X)GLW

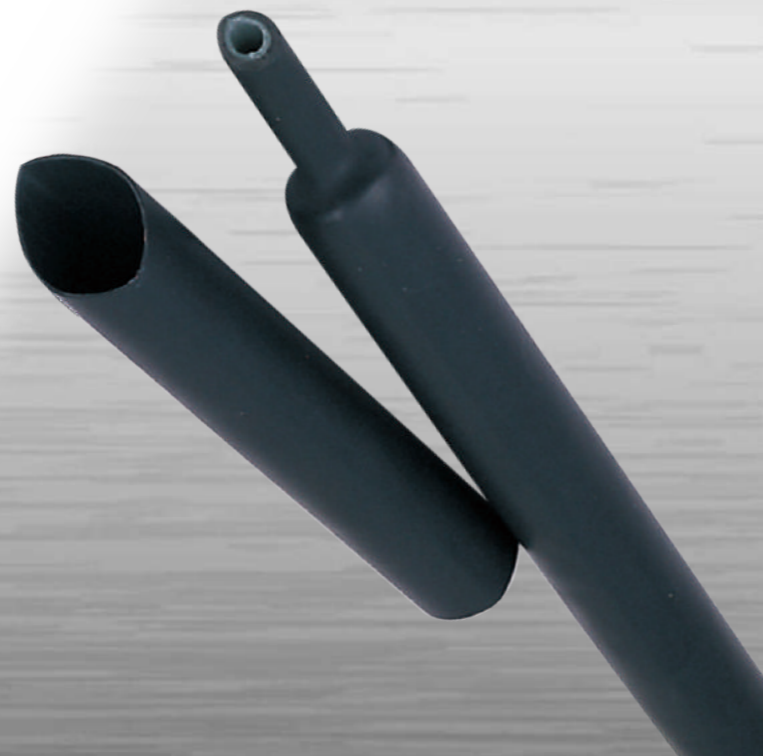
Flexible, Thick Adhesive-Lined Dual Wall Heat-Shrink Tubing

Flexible, Thick Adhesive-Lined Dual Wall Heat-Shrink Tubing is manufactured by co-extrusion of polyolefin and hot-melt adhesive. Designed to provide both insulation and sealing for protected articles, Used to protect bundles wires and metal tubes against water and moisture.



Features

- Low longitudinal shrinkage
- Thick adhesive liner bonding to a wide variety of plastics, rubber and metals forms an effective barrier against fluids and moisture,
- Flexible
- Continuous operating temperature:-45 - 125
- Min shrink temperature:110
- Shrink ratio: 3:1



Dimensions

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	0.45±0.20	200
3/16	4.8	4.8	1.6	1.20±0.30	0.55±0.20	100
1/4	6.4	6.4	2.2	1.25±0.30	0.55±0.20	100
5/16	7.9	7.9	2.7	1.35±0.30	0.65±0.20	100
3/8	9.5	9.5	3.2	1.35±0.30	0.65±0.20	50
1/2	12.7	12.7	4.2	1.55±0.40	0.75±0.20	1.22 OR 25M/Roll
5/8	15.0	15.0	5.2	1.65±0.40	0.75±0.20	1.22 OR 25M/Roll
3/4	19.1	19.1	6.3	1.90±0.40	0.85±0.20	1.22 OR 25M/Roll
1	25.4	25.4	8.5	2.00±0.40	0.90±0.20	1.22 OR 25M/Roll
5/4	30.0	30.0	10.2	2.05±0.40	0.90±0.20	1.22 OR 25M/Roll
1-1/2	38.1	38.1	13.5	2.35±0.40	1.05±0.20	1.22 OR 25M/Roll

Technical Data

Property	Test Method	Standard	Typical Performance
Tensile Strength(MPa)	ASTM D2671	10.4	11
Elongation(%)	ASTM D2671	300	450
Tensile Strength after aging (MPa)	UI224 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

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



Dimensions

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
3/32	2.4	2,4	0.8	0.85±0.15	0.40±0.10	200
1/8	3.2	3,2	1.0	0.95±0.15	0.40±0.10	200
3/16	4.8	4,8	1.6	1.10±0.15	0.40±0.10	100
1/4	6.4	6,4	2.2	1.20±0.15	0.45±0.12	100
5/16	7.9	7,9	2.7	1.35±0.15	0.50±0.12	100
3/8	9.5	9,5	3.2	1.45±0.20	0.50±0.12	50
1/2	12.7	12,7	4.2	1.70±0.20	0.50±0.12	1.22 OR 25M/Roll
5/8	15	15	5.2	1.80±0.20	0.55±0.15	1.22 OR 25M/Roll
3/4	19.1	19,1	6.3	2.00±0.20	0.55±0.15	1.22 OR 25M/Roll
1	25.4	25,4	8.5	2.10±0.25	0.55±0.15	1.22 OR 25M/Roll
1-1/4	30	30	10.2	2.20±0.25	0.60±0.15	1.22 OR 25M/Roll
1-1/2	39	39	13.5	2.40±0.25	0.60±0.15	1.22 OR 25M/Roll
2	50	50	17	2.70±0.25	0.70±0.15	1.22 OR 25M/Roll
5/2	64	64	21	3.00±0.30	0.70±0.15	1.22 OR 25M/Roll
3	75	75	25	3.00±0.30	1.00±0.20	1.22 OR 25M/Roll
7/2	90	90	30	3.00±0.30	1.00±0.20	1.22 OR 25M/Roll
4	100	100	34	3.00±0.30	1.00±0.20	1.22 OR 25M/Roll
5	125	125	42	3.00±0.30	1.00±0.20	1.22 OR 25M/Roll

SBRS-(3X)H

Halogen Free Dual Wall Adhesive-Lined Heat-Shrink Polyolefin Tubing

Adhesive lined heat shrink tubing with environmental sealing capability for a wide variety of electrical applications, including automotive and marine wire harness, wire splices, breakouts, and connector-to-cable transitions.



Features

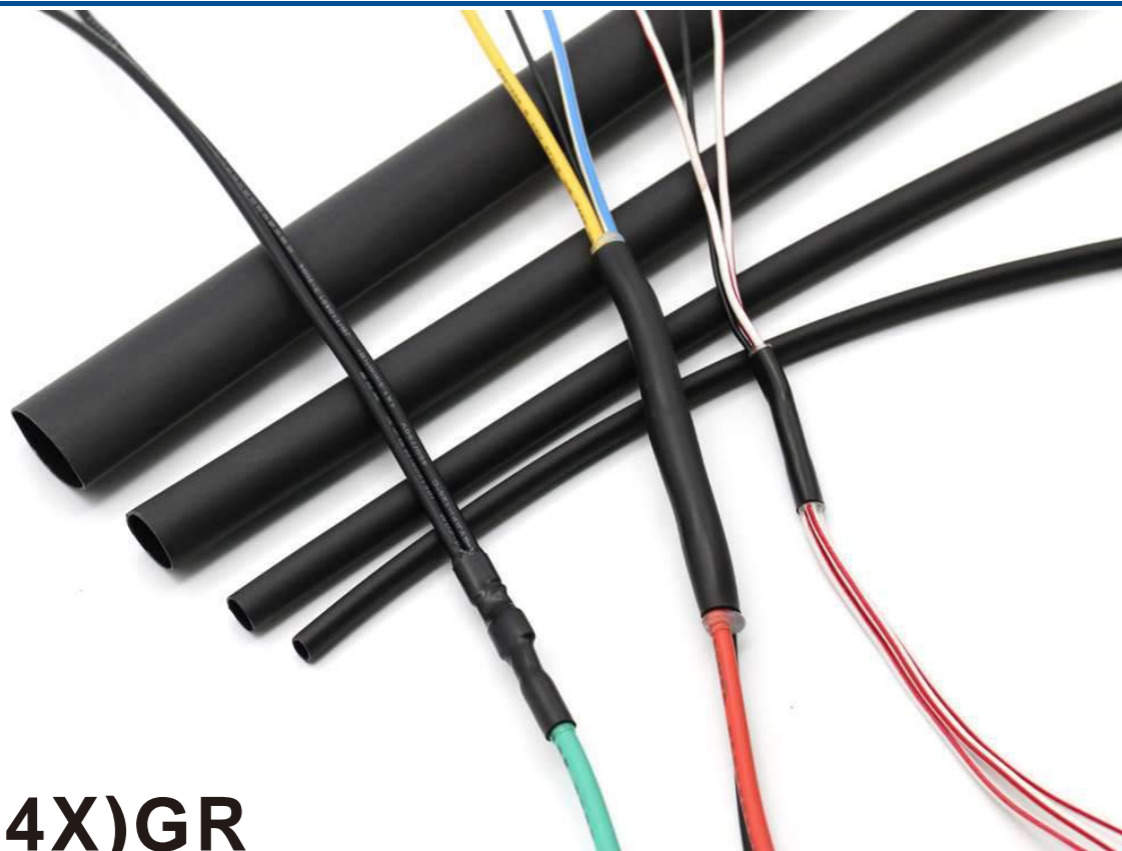
- 3:1 shrink ratio
- Halogen free
- Super sealing against water, moisture or other contaminates
- Continuous operating temperature:-45 - 125
- Fully shrink Temperature: 125
- Shrink ratio: 3:1
- Sony compliant

Technical Data

Property	Test Method	Standard
Tensile Strength(MPa)	ASTM D2671	10.4
Elongation(%)	ASTM D2671	300
Tensile Strength after aging (MPa)	UI224 158 X168hr	7.3
Elongation after aging(%)	UI224 158 X168hr	200
Flammability	ASTM D2671B	Self-extinguish within 30s
Dielectric strength(kV/mm)	IEC 60243	15
Volume resistivity(.cm)	IEC 60093	1X10 ¹⁴

Adhesive

Property	Test Method	Standard
Water Absorption	ASTM D570	0.5
Sofening Point()	ASTM E28	90± 5
Strength of pearing(PE)	ASTM D 1000	120N/25mm
Strength of pearing(AL)	ASTM D 1000	80N/25mm



SBRS-(4X)GR

High Shrink Ratio, Semi-rigid Dual Wall Adhesive-Lined Cross-Linked Polyolefin Tubing

Adhesive Semi-rigid, dual wall heat shrink tubing designed to seal & environmentally protect splice in the most,



Features

- 4:1 shrink ratio
- Super sealing against water, moisture or other contaminates
- Continuous operating temperature: -45 - 125
- Fully shrink Temperature: 125
- Shrink ratio: 4:1

Dimensions

Size		Expanded	After Recovery			Standard Package
Inch	mm	Internal Diameter Min(mm)	Internal Diameter Max(mm)	Total Wall Thickness Nom(mm)	Adhesive Thickness Nom(mm)	Spool Length M/spool
2/13	4	4.0	0.95	1.40±0.30	0.60±0.20	200
1/4	6	6.0	1.27	1.70±0.30	0.80±0.20	100
5/16	8	8.0	1.65	2.00±0.30	0.95±0.20	100
	10	10.0	2.00	2.30±0.40	1.10±0.20	1.22 OR 25M/Roll
1/2	12	12.0	2.41	2.45±0.40	1.20±0.20	1.22 OR 25M/Roll
3/4	18	18.0	4.45	2.60±0.40	1.34±0.30	1.22 OR 25M/Roll

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

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



SBRS-(4X)GRF

Highly Flame Retardant
Dual Wall Heat Shrink Polyolefin Tubing

Highly flame retardant, semi-rigid, cross-linked dual wall heat-shrink tubing designed for splice sealing and fuse link protection



Features

- 3:1&4:1 shrink ratio to cover varying splice configurations and substrate profiles
- Jacket and adhesive are exceptionally flame retardant
- Economical way to environmentally seal and protect automotive fuse-links, splice and terminals
- Highly resistance to common automotive fluids and solvents
- Semi-rigid and mechanically tough outer jacket provides added strain relief and excellent abrasion protection
- Thick adhesive liner forms an effective barrier against fluids and moisture penetration
- Continuous operating temperature:-45 - 125
- Fully shrink Temperature: 125

Dimensions

Size		Expanded	After Recovery			Standard Package
Inch	mm	Internal Diameter Min(mm)	Internal Diameter Max(mm)	Total Wall Thickness Nom(mm)	Adhesive Thickness Nom(mm)	
2/13	4	4.0	0.95	1.40±0.30	0.60±0.20	1.22
1/4	6	6.0	1.27	1.70±0.30	0.80±0.20	1.22
5/16	8	8.0	1.65	2.00±0.30	0.95±0.20	1.22
	10	10.0	2.00	2.30±0.40	1.10±0.20	1.22
1/2	12	12.0	2.41	2.45±0.40	1.20±0.20	1.22
3/4	18	18.0	4.45	2.60±0.40	1.34±0.30	1.22

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

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



Dimensions

Size		Expanded	After Recovery			Standard Package
Inch	mm	Internal Diameter Min(mm)	Internal Diameter Max(mm)	Total Wall Thickness Nom(mm)	Adhesive Thickness Nom(mm)	
5/32	4	4.0	0.95	1.40±0.30	0.60±0.20	1.22 OR 25M/Roll
1/4	6	6.0	1.27	1.70±0.30	0.80±0.20	1.22 OR 25M/Roll
5/16	8	8.0	1.65	2.00±0.30	0.95±0.20	1.22 OR 25M/Roll
2/5	10	10.0	2.00	2.20±0.40	1.10±0.20	1.22 OR 25M/Roll
1/2	12	12.0	2.41	2.45±0.40	1.20±0.20	1.22 OR 25M/Roll
3/4	18	18.0	4.45	2.60±0.40	1.34±0.30	1.22 OR 25M/Roll

SBRS-(4X)GBK

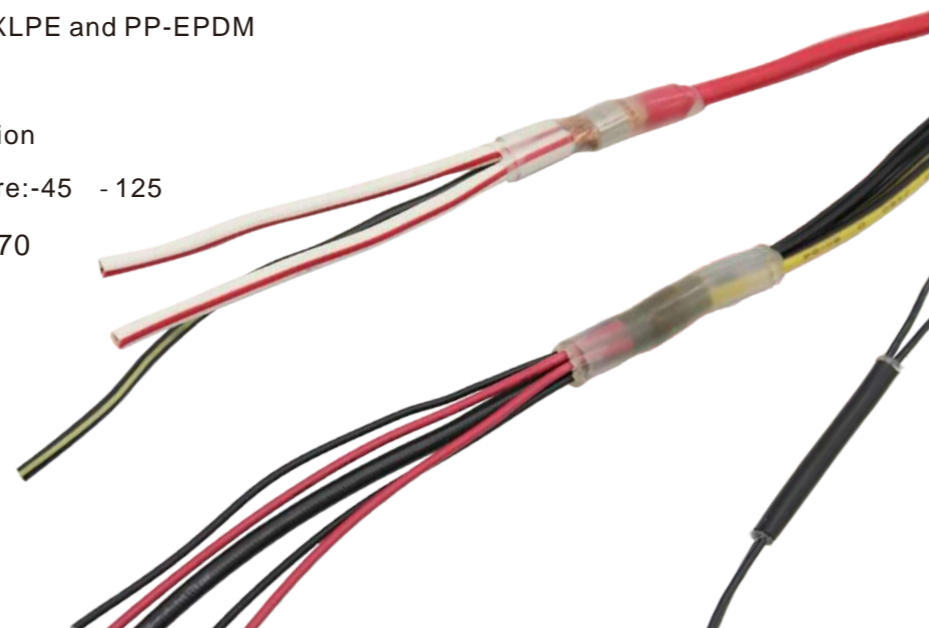
Adhesive-Lined Cross-Linked Polyolefin Tubing

Adhesive lined heat shrink specifically designed to insulate, seal and protect in-line splices in automotive wire harnesses and electronic assemblies



Features

- 4:1 shrink ratio allows for fewer sizes to cover numerous splice configurations and diameters.
- Seals and protects against water, moisture and chemicals
- Adhesive bonds readily to PVC, XLPE and PP-EPDM cable jackets
- Shrinks rapidly for quick installation
- Continuous operating temperature:-45 - 125
- Initial shrinkage temperature:70
- Fully shrink Temperature: 110
- Black and clear



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

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



SBRSM

Flame Retardant Medium Wall Adhesive Lined Heat Shrink Tubing

Medium wall adhesive-lined heat Shrink tubing suitable for a variety of low voltage electrical and mechanical application, where lighter weight and greater flexibility are important.



Features

- Seals and protects cable splices and terminations
- High resistance to impact and abrasion
- Thermoplastic adhesive liner for complete environmental protection and insulation
- Continuous operating temperature:-45 - 125
- Fully shrink temperature: 125

Dimensions

Size mm	Expanded Internal Diameter mm	After Recovery				Standard Package M/pc
		Internal Diameter mm	Jacket Thickness mm	Adhesive Thickness mm	Total Wall Thickness mm	
10.2/3.0	10.2	3.0	1.40±0.20	0.35±0.15	1.75±0.30	1.22
16.0/5.0	16.0	5.0	1.50±0.20	0.40±0.15	1.90±0.30	1.22
19.1/5.6	19.1	5.6	2.00±0.20	0.45±0.15	2.45±0.40	1.22
25.0/8.0	25.0	8.0	2.00±0.20	0.45±0.15	2.45±0.40	1.22
28.0/9.0	28.0	9.0	2.00±0.20	0.50±0.20	2.60±0.40	1.22
35.0/10.2	35.0	10.2	2.20±0.20	0.78±0.20	2.70±0.40	1.22
38.1/12.0	38.1	12.0	2.20±0.20	0.50±0.20	2.70±0.40	1.22
43.2/12.7	43.2	12.7	2.20±0.25	0.50±0.20	2.70±0.40	1.22
52.1/16.0	52.1	16.0	2.30±0.25	0.50±0.20	2.80±0.45	1.22
55.0/16.0	55.0	16.0	2.30±0.25	0.50±0.20	2.80±0.45	1.22
63.0/19.0	63.0	19.0	2.50±0.25	0.50±0.20	3.00±0.45	1.22
75.0/22.0	75.0	22.0	2.60±0.25	0.50±0.20	3.00±0.45	1.22
85.0/25.0	85.0	25.0	2.80±0.35	0.50±0.20	3.30±0.45	1.22
95.0/29.0	95.0	29.0	3.10±0.45	0.60±0.20	3.70±0.50	1.22
115.0/34.0	115.0	34.0	3.10±0.45	0.60±0.20	3.70±0.50	1.22
140.0/42.0	140.0	42.0	3.10±0.45	0.60±0.20	3.70±0.50	1.22
160.0/48.0	160.0	48.0	3.10±0.45	0.60±0.20	3.70±0.50	1.22
180.0/58.0	180.0	58.0	3.10±0.45	0.60±0.20	3.70±0.50	1.22
200.0/60.0	200.0	60.0	3.10±0.45	0.60±0.20	3.70±0.50	1.22
230.0/69.0	230.0	69.0	3.10±0.45	0.60±0.20	3.70±0.50	1.22

Note: Tubing without adhesive is available upon request

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

Adhesive

Property	Test Method	Standard
Water Absorption	ASTM D570	0.2%
Softening Point()	ASTM E28	95± 5
Strength of peering(PE)	ASTM D 1000	120N/25mm
Strength of peering(AL)	ASTM D 1000	80N/25mm



SBRWSW

Flame Retardant Adhesive-Lined Heavy Wall Cross-linked Polyolefin Heat Shrink Tubing

Adhesive-lined heavy wall heat shrink tubing insulates and protects electrical splice and terminations where maximum flame retardancy and exceptional insulating and sealing characteristics are required.



Features

- 3:1 shrink ratio
- Flame retardant
- SBRWSW tubing will not split or rupture during installation, when overheated
- Thermoplastic adhesive liner for complete environmental protection and insulation
- Continuous operating temperature:-45 - 125
- Fully shrink temperature: 125

Dimensions

Size	Expanded	After Recovery				Standard Package M/pc
		Internal Diameter mm	Jacket Thickness mm	Adhesive Thickness mm	Total Wall Thickness mm	
9.0/3.0	9.0	3.0	2.00±0.35	0.45±0.20	2.45±0.35	1.22
13.0/4.0	13.0	4.0	2.30±0.35	0.45±0.20	2.80±0.35	1.22
20.0/6.0	20.0	6.0	2.30±0.35	0.60±0.20	2.90±0.35	1.22
28.0/9.0	28.0	9.0	2.30±0.35	0.70±0.20	3.00±0.40	1.22
33.0/10.2	33.0	10.2	2.80±0.35	0.70±0.20	3.60±0.40	1.22
38.1/12.0	38.1	12.0	3.10±0.35	0.70±0.20	3.85±0.50	1.22
43.2/12.7	43.2	12.0	3.50±0.35	0.70±0.20	4.20±0.50	1.22
51.0/16.0	55.0	16.0	3.85±0.40	0.70±0.20	4.50±0.50	1.22
70.0/21.0	75.0	22.0	3.65±0.40	0.70±0.20	4.40±0.50	1.22
85.0/25.0	85.0	25.0	3.65±0.40	0.70±0.20	4.40±0.50	1.22
105.0/30.0	105.0	30.0	3.85±0.40	0.70±0.20	4.50±0.50	1.22
120.0/36.0	120.0	36.0	3.85±0.40	0.70±0.20	4.50±0.50	1.22
130.0/36.0	130.0	36.0	3.85±0.40	0.70±0.20	4.50±0.50	1.22
140.0/42.0	140.0	42.0	3.85±0.40	0.70±0.20	4.50±0.50	1.22

Note: Tubing without adhesive is available upon request

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

Adhesive

Property	Test Method	Standard
Water Absorption	ASTM D570	0. 2%
Sofening Point()	ASTM E28	95± 5
Strength of pearing(PE)	ASTM D 1000	120N/25mm
Strength of pearing(AL)	ASTM D 1000	80N/25mm



SBRSM-NF

Medium Wall Adhesive-lined Cross-linked Polyolefin Heat Shrink Tubing

Medium wall heat shrinkable tubing suitable for a variety of low voltage electrical and mechanical application, where lighter weight and greater flexibility are important



Features

- 3:1 shrink ratio, not Flame-retardant
- Seal and protect cable splice and terminations
- Rugged mechanical protection
- Complete moisture sealing
- Strain relief for delicate wire connections
- High resistance to impact and abrasion
- Thermoplastic adhesive liner for complete environmental protection and insulation
- Continuous operating temperature:-45 - 125
- Fully shrink temperature: 125
- RoHS compliant

Dimensions

Size	Expanded	After Recovery				Standard Package
		Internal Diameter mm	Jacket Thickness mm	Adhesive Thickness mm	Total Wall Thickness mm	
6.0/2.0	6.0	2.0	1.40±0.20	0.45±0.15	1.85±0.30	1.22
8.0/2.0	8.0	2.0	1.40±0.20	0.45±0.15	1.85±0.30	1.22
10.2/3.0	10.2	3.0	1.40±0.20	0.50±0.15	1.90±0.30	1.22
12.0/3.0	12.0	3.0	1.40±0.20	0.50±0.15	1.90±0.30	1.22
16.0/5.0	16.0	5.0	1.50±0.20	0.55±0.20	2.15±0.35	1.22
19.1/5.6	19.1	5.6	1.80±0.20	0.60±0.20	2.40±0.40	1.22
22.0/6.0	22.0	6.0	2.00±0.30	0.60±0.20	2.60±0.40	1.22
25.0/8.0	25.0	8.0	2.00±0.30	0.65±0.20	2.70±0.40	1.22
28.0/6.0	28.0	6.0	2.40±0.30	0.95±0.25	3.30±0.45	1.22
33.0/8.0	33.0	8.0	2.50±0.30	0.80±0.25	3.30±0.45	1.22
38.1/12.0	38.1	12.0	2.40±0.30	0.80±0.25	3.30±0.45	1.22
43.2/12.7	43.2	12.7	2.40±0.30	0.80±0.25	3.30±0.45	1.22
55.0/16.0	55.0	16.0	2.40±0.30	0.80±0.25	3.30±0.45	1.22
65.0/19.0	65.0	19.0	2.50±0.30	0.80±0.25	3.30±0.45	1.22
75.0/22.0	75.0	22.0	2.90±0.30	0.80±0.25	3.70±0.50	1.22
85.0/25.0	85.0	25.0	2.90±0.30	0.80±0.25	3.70±0.50	1.22
95.0/30.0	95.0	30.0	3.00±0.30	0.80±0.25	3.70±0.50	1.22
115.0/34.0	115.0	34.0	3.00±0.30	0.80±0.25	3.70±0.50	1.22
140.0/42.0	140.0	42.0	3.00±0.30	0.80±0.25	3.70±0.50	1.22
160.0/50.0	160.0	50.0	3.10±0.30	0.80±0.25	3.70±0.50	1.00
180.0/65.0	180.0	65.0	3.10±0.30	0.80±0.25	3.70±0.50	1.00
200.0/69.0	200.0	69.0	3.10±0.30	0.80±0.25	3.70±0.50	1.00
230.0/78.0	230.0	78.0	3.10±0.30	0.80±0.25	3.70±0.50	1.00

Note: Tubing without adhesive is available upon request

Technical Data

Property	Test Method	Standard	Typical Performance
Tensile Strength(MPa)	ASTM D2671	14	15
Elongation(%)	ASTM D2671	400	450
Tensile Strength after aging (MPa)	UL224 158 X168hr	12	12.5
Elongation after aging(%)	UI224 158 X168hr	300	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	95± 5
Strength of pearing(PE)	ASTM D 1000	120N/25mm
Strength of pearing(AL)	ASTM D 1000	80N/25mm



SBRSW-NF

Heavy Wall Adhesive-Lined Cross-linked Polyolefin Heat Shrink Tubing

Heavy wall adhesive-lined heat shrink tubing provides maximum reliability for insulating and protecting cable joints and terminations.



Features

- 3:1 shrink ratio, not flame-retardant
- Withstands severe mechanical requirements of U.R.D., submersible and direct burial installations
- High impact, abrasion, corrosion and chemical resistance
- Rated for 1kv, 90 continuous use application
- Thermoplastic adhesive liner provides complete environmental protection and installation
- Continuous operating temperature:-45 - 110
- Fully shrink temperature: 125

Dimensions

Size	Expanded	After Recovery				Standard Package
		Internal Diameter mm	Jacket Thickness mm	Adhesive Thickness mm	Total Wall Thickness mm	
8.0/2.0	8.0	2.0	1.80±0.30	0.55±0.20	2.35±0.35	1.22
9.0/3.0	9.0	3.0	2.00±0.30	0.55±0.20	2.55±0.40	1.22
13.0/4.0	13.0	4.0	2.30±0.30	0.55±0.20	2.85±0.40	1.22
16.0/5.0	16.0	5.0	2.30±0.30	0.60±0.20	2.90±0.50	1.22
22.0/6.0	22.0	6.0	2.50±0.40	0.60±0.25	3.10±0.50	1.22
28.0/6.0	28.0	6.0	2.70±0.40	0.70±0.25	3.40±0.50	1.22
33.0/8.0	33.0	8.0	2.80±0.40	0.80±0.25	3.60±0.60	1.22
38.1/12.0	38.1	12.0	3.10±0.50	0.80±0.25	3.90±0.60	1.22
43.2/12.0	43.2	12.0	3.50±0.50	0.80±0.25	4.30±0.70	1.22
55.0/16.0	55.0	16.0	3.60±0.50	0.80±0.25	4.40±0.70	1.22
65.0/19.0	65.0	19.0	3.60±0.50	0.80±0.25	4.40±0.70	1.22
75.0/22.0	75.0	22.0	3.60±0.50	0.80±0.25	4.40±0.70	1.22
85.0/25.0	85.0	25.0	3.60±0.50	0.80±0.25	4.40±0.70	1.22
95.0/30.0	95.0	30.0	3.60±0.50	0.80±0.25	4.40±0.70	1.22
105.0/30.0	105.0	30.0	3.80±0.60	0.80±0.25	4.60±0.70	1.22
120.0/39.0	120.0	39.0	3.80±0.60	0.80±0.25	4.60±0.70	1.22
130.0/40.0	130.0	40.0	3.80±0.60	0.80±0.25	4.60±0.70	1.22
140.0/42.0	140.0	42.0	3.80±0.60	0.80±0.25	4.60±0.70	1.22
160.0/50.0	160.0	50.0	3.80±0.60	0.80±0.25	4.60±0.70	1.00
180.0/60.0	180.0	60.0	3.80±0.60	0.80±0.25	4.60±0.70	1.00
200.0/69.0	200.0	69.0	3.80±0.60	0.80±0.25	4.60±0.70	1.00

Note: Tubing without adhesive is available upon request

Technical Data

Property	Test Method	Standard	Typical Performance
Tensile Strength(MPa)	ASTM D2671	14	15
Elongation(%)	ASTM D2671	400	450
Tensile Strength after aging (MPa)	UL224 158 X168hr	12	12.5
Elongation after aging(%)	UI224 158 X168hr	300	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	95± 5
Strength of pearing(PE)	ASTM D 1000	120N/25mm
Strength of pearing(AL)	ASTM D 1000	80N/25mm



SBRSTV

Medium Wall Adhesive-lined Heat Variable Heat Shrink Tubing

Heat shrinkable tubing and adhesive liner combination that established the CATV industry standard for splice and connector protection



Features

- 3:1 shrink ratio
- Flame retardant
- Excellent resistance to weathering, moisture contamination and adverse environmental conditions
- Heat indicating lines
- Adhesive liner provides complete environmental protection and insulation
- Resists common fluids and solvents
- Continuous operating temperature: -45 - 110
- Fully shrink temperature: 125

Dimensions

Size mm	Expanded	After Recovery				Standard Package M/pc
	Internal Diameter mm	Internal Diameter mm	Jacket Thickness mm	Adhesive Thickness mm	Total Wall Thickness mm	
10.2/3.8	10.2	3.8	1.40±0.20	0.50±0.10	1.90±0.25	1.22
19.0/5.6	19.0	5.6	1.80±0.20	0.60±0.15	2.40±0.30	1.22
28.0/6.0	28.0	6.0	2.40±0.30	0.95±0.20	3.30±0.35	1.22
33.0/8.0	33.0	8.0	2.50±0.30	0.80±0.15	3.30±0.35	1.22
38.1/12.0	38.1	12.0	2.40±0.30	0.80±0.15	3.30±0.35	1.22
43.2/12.7	43.2	12.7	2.40±0.30	0.80±0.15	3.30±0.35	1.22
55.0/16.0	55.0	16.0	2.40±0.30	0.80±0.15	3.30±0.35	1.22
70.0/25.4	70.0	25.4	2.80±0.30	0.60±0.15	3.40±0.40	1.22

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

Adhesive

Property	Test Method	Standard
Water Absorption	ASTM D570	0.2%
Softening Point()	ASTM E28	85
Strength of pearing(PE)	ASTM D 1000	120N/25mm
Strength of pearing(AL)	ASTM D 1000	80N/25mm