

SBRSW Heavy Wall Adhesive Lined Heat Shrinkable Tubing



Heavy wall heat shrinkable tubing provides maximum reliability for insulation and protecting cable joints and terminations

- Flame retardant
- Withstands severe mechanical requirements
- Rated for 600V,90°C ,continuous use
- Optional thermoplastic adhesive liner for complete environmental protection and insulation
- Continuous Operation
- Temperature:-45°C to 125°C
- Shrink Temperature:125°C

Selection Table

Size mm	As Supplied Internal Diameter	After Recovery(mm)				Standard Length (m/pc)
		Internal Diameter	Out Layer Wall Thickness	Adhesive Layer Wall Thickness	Total Wall Thickness	
9.0/3.0	≥ 9.0	≤ 3.0	2.0±0.20	0.35±0.10	2.30 ± 0.25	1.22
13.0/4.0	≥ 13.0	≤ 4.0	2.4±0.20	0.35±0.10	2.75 ± 0.25	1.22
20.0/6.0	≥ 20.0	≤ 6.0	2.5±0.20	0.40±0.10	2.90 ± 0.25	1.22
28.0/9.0	≥ 28.0	≤ 9.0	2.5±0.20	0.40±0.10	2.90 ± 0.25	1.22
33.0/10.2	≥ 33.0	≤ 10.2	3.2±0.25	0.40±0.10	3.60 ± 0.25	1.22
38.1/12.0	≥ 38.1	≤ 12.0	3.4±0.20	0.60±0.15	4.00 ± 0.35	1.22
43.2/12.7	≥ 43.2	≤ 12.0	4.3±0.20	0.70±0.35	5.00 ± 0.35	1.22
51.0/16.0	≥ 51.0	≤ 16.0	4.3±0.20	0.70±0.35	5.00 ± 0.35	1.22
70.0/21.0	≥ 70.0	≤ 21.0	4.3±0.20	0.70±0.35	5.00 ± 0.35	1.22
85.0/25.0	≥ 85.0	≤ 25.0	4.3±0.20	0.70±0.35	5.00 ± 0.35	1.22
105.0/30.0	≥ 105.0	≤ 30.0	4.3±0.20	0.80±0.35	5.10 ± 0.35	1.22
120.0/39.0	≥ 120.0	≤ 39.0	4.3±0.20	0.50±0.35	5.10 ± 0.35	1.22
140.0/42.0	≥ 140.0	≤ 42.0	4.3±0.20	0.60±0.35	5.10 ± 0.35	1.22

Note: Tubing without adhesive is available upon request

Technical Date

Property	Test Method	Standard
Tensile Strength(Mpa)	ASTM D2671	≥10.4
Elongation(%)	ASTM D2671	≥300
Density(g/cm ³)	ASTM D792	1.2
Longitudinal change(%)	UL 224	≤ ± 10
Elongation after aging(%)	UL224 158°CX168hrs	≥200
Heat shock	UL224 225°CX4hrs	No cracking
Dielectric strength(kv/mm)	IEC 243	≥20
Volume resistivity(Ω · cm)	IEC 93	≥1 × 10 ¹⁴
Water absorption(%)	ASTM-D570	≤0.5

Hot Melt Adhesive Property

Property	Test Method	Standard
Water Absorption	ASTM D570	≤0.2%
Sofening Point	ASTM E28	95°C
Peel Strength(PE)	ASTM D 1000	120N/25mm
Peel Strength(AL)	ASTM D 1000	80N/25mm

SBRSM-NF Medium Wall Adhesive Lined Heat Shrinkable Tubing



Adhesive-lined medium wall heat shrinkable tube is produced by high quality polyolefin and hot melt adhesive through double-layer co-extrusion process. The outer layer of this tube has high physical and chemical properties, and good contraction, and so on.

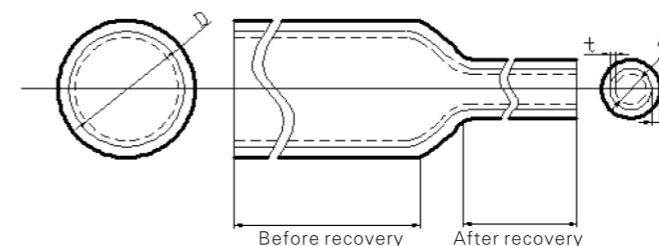
- Anti-UV light, excellent waterproof, moisture-proof, and sealing and insulating performance.
- Minimum shrink temperature: 70°C
- Minimum fully recovery temperature: 125°C
- Operating temperature: -45°C~110°C
- Shrink ratio: 3: 1
- Environmental standards: RoHS
- Color: Black

Technical Date

Property	Test Method	Standard
Tensile Strength(MPa)	ASTM D2671	≥14
Elongation(%)	ASTM D2671	≥400
Tensile Strength After Aging(MPa)	UL224 158°CX168hrs	≥12
Elongation at Break After Aging(%)	UL224 158°CX168hrs	≤300
Longitudinal Shrink Ratio(%)	UL224	≤±10
Dielectric Strength(kv/mm)	IEC 243	≥20
Volume Resistivity(Ω · cm)	IEC 93	≥1 × 10 ¹⁴
Water Absorption(%)	ASTM D570	< 0.5
Operation Temperature	-45°C~110°C	
Shrink Temperature	70°C~125°C	
Environmental Standard	ROHS Compliant	
Standard Color	Black(others colors are available upon request)	

Adhesive Property

Property	Test Method	Standard
Water Absorption	ASTM D570	≤0.2%
Sofening Point	ASTM E28	95°C
Peel Strength(PE)	ASTM D 1000	120N/25mm
Peel Strength(AL)	ASTM D 1000	80N/25mm



Selection Table

Size mm	Diameter As Supplied/mm Min ID D	Max ID d	After Recovery/mm			Standard Length (m/pc)
			Out Layer T	Adhesive Thickness t	Total W.T T+t	
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 ± 0.20	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
43.2/12.7	≥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
65.0/19.1	≥63.0	≤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
120/34.0	≥120.0	≤39.0	3.80 ± 0.60	0.80 ± 0.25	4.60 ± 0.70	1.22
130/36.0	≥130.0	≤40.0	3.80 ± 0.60	0.80 ± 0.25	4.60 ± 0.70	1.22
140/42.0	≥140.0	≤42.0	3.80 ± 0.60	0.80 ± 0.25	4.60 ± 0.70	1.22
160/50.0	≥160.0	≤50.0	3.80 ± 0.60	0.80 ± 0.25	4.60 ± 0.70	1.00
180/58.0	≥180.0	≤60.0	3.80 ± 0.60	0.80 ± 0.25	4.60 ± 0.70	1.00
200/69.0	≥200.0	≤69.0	3.80 ± 0.60	0.80 ± 0.25	4.60 ± 0.70	1.00
230/78.0	≥230.0	≤78.0	4.10 ± 0.60	0.80 ± 0.25	4.90 ± 0.70	1.00

SBRSW-NF Heavy Wall Adhesive Lined Heat Shrinkable Tubing



Adhesive-lined heavy wall heat shrinkable tube is produced by high quality polyolefin and hot melt adhesive through double-layer co-extrusion process. The outer layer of this tube has high physical and chemical properties, and good contraction, and so on.

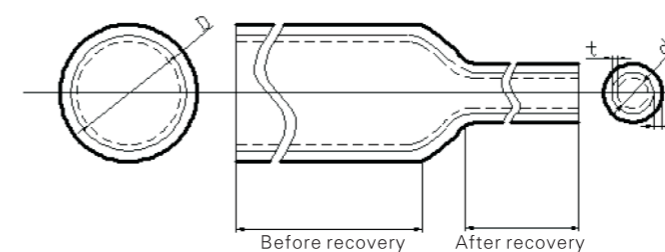
- Anti-UV light, excellent waterproof, moisture-proof, and sealing and insulating performance.
- Minimum shrink temperature: 70°C
- Minimum fully recovery temperature: 125°C
- Operating temperature: -45°C~110°C
- Shrink ratio: 3: 1
- Environmental standards: RoHS
- Color: Black

Technical Date

Property	Test Method	Standard
Tensile Strength(MPa)	ASTM D2671	≥14
Elongation(%)	ASTM D2671	≥400
Tensile Strength After Aging(MPa)	UL224 158°CX168hrs	≥12
Elongation at Break After Aging(%)	UL224 158°CX168hrs	≤300
Longitudinal Shrink Ratio(%)	UI224	≤±10
Dielectric strength(kV/mm)	IEC 243	≥20
Volume Resistivity(Ω.cm)	IEC 93	≥1 × 10 ¹⁴
Water absorption(%)	ASTM D570	< 0.5
Operation Temperature	-45°C~110°C	
Shrink Temperature	70°C~125°C	
Environmental Standard	ROHS Compliant	
Standard Color	Black(other colors are available upon request)	
Material: (1)EVA; (2)hot-melt adhesive		

Adhesive Property

Property	Test Method	Standard
Water Absorption	ASTM D570	≤0.2%
Softening Point	ASTM E28	95°C
Peel Strength(PE)	ASTM D 1000	120N/25mm
Peel Strength(AL)	ASTM D 1000	80N/25mm



Selection Table

Size	Diameter As Supplied/mm	After Recovery/mm				Standard Length (m/pc)
		Min ID D	Max ID d	Out Layer T	Adhesive Thickness t	
8.0/2.0	≥8.0	≤2.0	1.40 ± 0.20	0.45 ± 0.10	1.85 ± 0.25	1.22
10.2/3.0	≥10.0	≤3.0	1.40 ± 0.20	0.50 ± 0.10	1.90 ± 0.25	1.22
12.0/3.0	≥12.0	≤3.0	1.40 ± 0.20	0.50 ± 0.10	1.90 ± 0.25	1.22
16.0/5.0	≥16.0	≤5.0	1.50 ± 0.20	0.55 ± 0.10	2.15 ± 0.25	1.22
19.1/5.6	≥19.1	≤5.6	1.80 ± 0.20	0.60 ± 0.15	2.40 ± 0.25	1.22
22.0/6.0	≥22.0	≤6.0	2.00 ± 0.20	0.60 ± 0.15	2.60 ± 0.25	1.22
25.4/8.0	≥25.4	≤8.0	2.40 ± 0.20	0.60 ± 0.15	2.60 ± 0.25	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
56.0/16.0	≥56.0	≤16.0	2.40 ± 0.30	0.80 ± 0.15	3.30 ± 0.35	1.22
65.0/19.0	≥65.0	≤19.0	2.50 ± 0.30	0.80 ± 0.15	3.30 ± 0.40	1.22
75.0/22.0	≥75.0	≤22.0	2.90 ± 0.30	0.80 ± 0.15	3.70 ± 0.40	1.22
85.0/25.0	≥85.0	≤25.0	2.90 ± 0.30	0.80 ± 0.15	3.70 ± 0.40	1.22
95.0/30.0	≥95.0	≤30.0	3.00 ± 0.30	0.80 ± 0.15	3.80 ± 0.40	1.22
115/34.0	≥115.0	≤34.0	3.00 ± 0.30	0.80 ± 0.15	3.80 ± 0.40	1.22
130/36.0	≥130.0	≤36.0	3.00 ± 0.30	0.80 ± 0.15	3.80 ± 0.40	1.22
140/42.0	≥140.0	≤42.0	3.00 ± 0.30	0.80 ± 0.15	3.80 ± 0.40	1.22
160/50.0	≥160.0	≤50.0	3.10 ± 0.30	0.80 ± 0.15	3.90 ± 0.40	1
180/58.0	≥180.0	≤58.0	3.10 ± 0.30	0.80 ± 0.15	3.90 ± 0.40	1

WRSYL Heat Shrink Stress Control Tube



- Manufactured from cross linked polyolefin
- Providing effective electrical stress control for MV cable terminations and joints up to 42 kV
- Continuous operation temperature: -40°C to 100°C
- Shrink temperature: start at 90°C, and fully recovered at 130°C
- Color: black

Selection Table

Product No.	Inner Diameter /mm		After Recovered Wall Thickness (±0.2)/mm	Standard Cut Length /mm	Standard Continuous Length (m/roll)
	As Supplied (Min)	After Recovered (Max)			
10kV WRSYL-30/11	30	11	2.0	100-1200	25
10kV WRSYL-35/14	35	14	2.0	100-1200	25
10kV WRSYL-40/17	40	17	2.0	100-1200	25
10kV WRSYL-45/19	45	19	2.0	100-1200	25
10kV WRSYL-55/25	55	25	3.2	100-1200	15
10kV WRSYL-60/25	60	25	2.3	100-1200	15
10kV WRSYL-70/29	70	29	3.2	100-1200	15
20kV WRSYL Series					
20kV WRSYL-35/14	35	14	2.0	100-1200	25
20kV WRSYL-40/17	40	17	2.0	100-1200	25
20kV WRSYL-45/19	45	19	2.0	100-1200	25
20kV WRSYL-55/24	55	24	3.2	100-1200	15
20kV WRSYL-60/25	60	25	2.3	100-1200	15
20kV WRSYL-70/29	70	29	3.2	100-1200	15
30kV WRSYL Series					
30kV WRSYL-45/19	45	19	2.0	100-1200	15
30kV WRSYL-55/24	55	24	3.2	100-1200	15
30kV WRSYL-70/29	70	29	3.2	100-1200	15
30kV WRSYL-85/40	85	40	3.5	100-1200	15
30kV WRSYL-90/40	90	40	3.5	100-1200	15
35kV WRSYL Series					
35kV WRSYL-45/19	45	19	2.0	100-1200	15
35kV WRSYL-55/24	55	24	3.2	100-1200	15
35kV WRSYL-70/29	70	29	3.2	100-1200	15
35kV WRSYL-85/40	85	40	3.5	100-1200	15
35kV WRSYL-90/40	90	40	3.5	100-1200	15

Technical Data

Property	Test Method	Standard
Tensile Strength	ASTM-D-638	≥10MPa
Elongation at Break	ASTM-D-638	≥300%
Tensile Strength after Aging	ASTM-D-638	≥8MPa (130°C, 168 hrs)
Elongation at Break after Aging	ASTM-D-638	≥240% (130°C, 168 hrs)
Dielectric Constant	IEC 60250	15~25
Volume Resistivity	IEC 60093	≥1 × 10 ¹⁰ Ω · cm
Longitudinal Shrinkage	ASTM-D-2671	≤5%
Eccentricity	ASTM-D-2671	≤30%
Water Absorption	ISO 62	≤0.5%