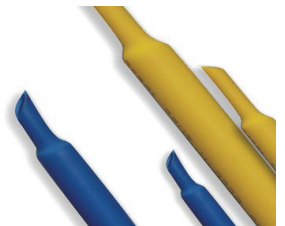


L & C

Industrial Supplies

PTY LTD

Heat Shrink Products



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Thin Wall (HSTW)

Insulates bare connectors and splices. Can also be used for Harness wires.

- Halogen free, flame retardant.
- Non lined 2:1 shrink ratio.
- Clear available for power and data connections.
- Operating temperature: Colours:
Continuous operating temperature of -45°C to 125°C
Shrink temperature 120°C
- Operating temperature: Clear:
Continuous operating temperature of -55°C to 135°C
Shrink temperature 110°C

Part number	Width	Reel	Piece
HSTW 1.5	1.5mm	200 m	1.2 m/4FT
HSTW 2.5	2.5mm	200 m	1.2 m/4FT
HSTW 3	3mm	200 m	1.2 m/4FT
HSTW 5	5mm	100 m	1.2 m/4FT
HSTW 7	7mm	100 m	1.2 m/4FT
HSTW 10	10mm	100 m	1.2 m/4FT
HSTW 13	13mm	100 m	1.2 m/4FT
HSTW 20	20 mm	100 m	1.2 m/4FT
HSTW 25	25 mm	50 m	1.2 m/4FT
HSTW 32	32 mm	50 m	1.2 m/4FT
HSTW 38	38 mm	50 m	1.2 m/4FT
HSTW 50	50 mm	25 m	1.2 m/4FT
HSTW 75	75 mm	25 m	1.2 m/4FT
HSTW 100	100 mm	25 m	1.2 m/4FT
HSTW 120	120 mm	25 m	1.2 m/4FT

Order by: Part Number, size, colour and length

Example: HSTW1.5BK/4FT or HSTW120 RD/25M

Colours

Black (BK), Blue (BL), Clear (CL), Green (GN), Red (RD), White (WH), Yellow Green (YG)

Dimensions Charts for Heatshrink

Heatshrink: HSTW *all colours except Clear*

Zero halogen, flame retardant, -45°C - 125°C, shrink temp 120°C

Size	As Supplied	After Recovery	
mm	Internal Diameter mm	Internal Diameter MAX mm	Wall Thickness NOM mm
0.8	1.1 ± 0.2	0.50	0.22
1	1.5 ± 0.2	0.65	0.28
1.5	2.0 ± 0.2	0.85	0.32
2	2.5 ± 0.2	1.00	0.35
2.5	3.0 ± 0.2	1.30	0.38
3	3.5 ± 0.2	1.50	0.40
3.5	4.0 ± 0.2	1.80	0.42
4	4.5 ± 0.2	2.00	0.45
4.5	5.0 ± 0.2	2.30	0.50
5	5.5 ± 0.2	2.5	0.55
6	6.5 ± 0.2	3.0	0.55
7	7.5 ± 0.3	3.5	0.55
8	8.5 ± 0.3	4.0	0.60
9	9.5 ± 0.3	4.5	0.60
10	10.5 ± 0.3	5.0	0.60
11	11.5 ± 0.3	5.5	0.60
12	12.5 ± 0.3	6.0	0.60
13	13.5 ± 0.3	6.5	0.65
14	14.5 ± 0.3	7.0	0.65
15	15.5 ± 0.4	7.5	0.70
16	16.5 ± 0.4	8.0	0.70
17	17.5 ± 0.4	8.5	0.70
18	19.0 ± 0.5	9.0	0.80
20	21.0 ± 0.5	10.0	0.80
22	23.0 ± 0.5	11.0	0.80
25	26.0 ± 0.5	12.5	0.90
28	29.0 ± 0.5	14.0	0.90
30	31.5 ± 1.0	15.0	0.95
35	36.5 ± 1.0	17.5	1.00
40	41.5 ± 1.0	20.0	1.00
45	46.5 ± 1.0	22.5	1.00
50	>50	25.0	1.00
60	>60	31.0	1.30
70	>70	36.0	1.30
80	>80	41.0	1.46
90	>90	46.0	1.46
100	>100	51.0	1.46
120	>120	61.0	1.56
150	>150	76.0	1.56
180	>180	91.0	1.56

Heatshrink : HSTW Clear

Flame retardant, multi purpose, -55°C - 135°C, shrink temp 110°C

Size mm	As Supplied	After Recovery	
	Internal Diameter mm	Internal Diameter MAX mm	Wall Thickness NOM mm
0.8	1.2	0.6	0.41 +/- 0.08
1	1.6	0.8	0.43 +/- 0.08
2	2.4	1.2	0.51 +/- 0.08
3	3.2	1.6	0.51 +/- 0.08
4.5	4.8	2.4	0.51 +/- 0.08
6	6.4	3.2	0.64 +/- 0.08
9	9.5	4.8	0.64 +/- 0.08
12	12.7	6.4	0.64 +/- 0.08
16	15.9	8	0.76 +/- 0.08
18	19.1	9.5	0.76 +/- 0.08
25	25.4	12.7	0.89 +/- 0.12
40	38.1	19.1	1.02 +/- 0.12
50	50.8	25.4	1.14 +/- 0.12
80	76.2	38.1	1.27 +/- 0.12
100	101.6	50.8	1.40 +/- 0.20

Dispenser Handy Pack (HSTWDP)

Thin Wall heatshrink can also be purchased by the roll in a handy **dispenser box**. Avoids mess and wastage.

Colours Available

Red (RD) White (WH) Blue (BL) Black (BK) and Yellow/Green (YG)

Sizes and lengths per pack.

1.5mm	18 metres	2.5mm	15 metres
3mm	12 metres	5mm	10 metres
7mm	13 metres	10mm	10 metres
13mm	8 metres	20mm	5 metres
25mm	4 metres		

How to Order Dispenser packs

Specify **HSTWDP**, size, colour and pack length

e.g. 1.5mm black is **HSTWDP1.5BK/18M**



Medium Wall Glue Lined (HSMDW)

Medium Wall provides excellent resistance to impact and abrasion.

- Seals and protects cable splices and terminations.
- Continuous operating temperature of -45°C to 125°C.
- Shrink temperature 125°C.
- Suitable low voltage and mechanical applications where flexibility is required.
- Pack length 1.2M (4FT)

HSMDW12-3/4FT	H/S Med Wall Glue Lined 12-3mm	EA/1
HSMDW22-6/4FT	H/S Med Wall Glue Lined 22-6mm	EA/1
HSMDW34-9/4FT	H/S Med Wall Glue Lined 34-9mm	EA/1
HSMDW40-12/4FT	H/S Med Wall Glue Lined 40-12mm	EA/1
HSMDW56-17/4FT	H/S Med Wall Glue Lined 56-17mm	EA/1
HSMDW92-26/4FT	H/S Med Wall Glue Lined 92-26mm	EA/1
HSMDW120-35/4FT	H/S Med Wall Glue Lined 120-35mm	EA/1



Test Chart for HSMDW

Part Number	Size (mm)	As supplied (mm)	After recover (mm)			
		Internal Diameter (mm)	Internal Diameter (mm)	Outer Layer Wall Thickness	Adhesive Layer Wall Thickness (mm)	Total Wall Thickness (mm)
HSMDW12-3/4FT	10.5 - 3	≥10.5	≤3	1.4±0.20	0.35±0.1	1.75±0.25
HSMDW22-6/4FT	25 - 8	≥25	≤8	2.0±0.20	0.45±0.1	2.45±0.25
HSMDW34-9/4FT	35 - 10.2	≥35	≤10.2	2.2±0.20	0.50±0.1	2.70±0.25
HSMDW40-12/4FT	43.2 - 12.7	≥43.2	≤12.7	2.2±0.20	0.50±0.1	2.70±0.25
HSMDW56-17/4FT	52.1 - 16	≥52.1	≤16	2.3±0.25	0.50±0.15	2.80±0.30
HSMDW92-26/4FT	95 - 29	≥95	≤29	3.1±0.30	0.60±0.20	3.70±0.35
HSMDW120-35/4FT	115 - 34	≥115	≤34	3.1±0.30	0.60±0.20	3.70±0.35

Technical Data		
Test Item	Test Method	Test Result
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%	UL 224 158°C×168hr	≥200
Heat Shock	UL 224 225°C× 4hr	No cracking
Dielectric Strength (kv/mm)	IEC 243	≥ 20
Volume Resistance(Ω.cm)	IEC 93	≥ 10 ¹⁴
Water Absorption (%)	ASTM D570	≤0.5

Hot Melting Adhesive Property		
Property	Test Method	Standard
Water absorption	ASTM-D570	<0.2%
Softing point	ASTM-E8	95°C
Peel Strength(PE)	ASTM-D1000	120N/25m
Peel Strength(AL)	ASTM-D1000	80N/25m

Dual Wall Glue Lined (HSDW)

Dual wall adhesive lined heatshrink tubing is used for a wide variety of electrical applications including automotive and marine, wire harness, sire splices, breakouts, and connector to cable transitions.

- Shrink ratio 3:1
- Longitudinal shrink ratio 8% maximum.
- Flame retardant outer jacket: self extinguishing inner adhesive.
- Super sealing against water, moisture and other contaminants.
- Continuous operating temperature of -45°C to 125°C.
- Shrink temperature 120°C.
- Pack length 1.2M (4FT)

HSDW3BK	Dual Wall H/S-3.2 mm to 0.6mm/4ft	EA/1
HSDW5BK	Dual Wall H/S-4.8 mm to 1.5mm/4ft	EA/1
HSDW7BK	Dual Wall H/S-6.4 mm to 2.0mm/4ft	EA/1
HSDW10BK	Dual Wall H/S-9.5 mm to 3.0mm/4ft	EA/1
HSDW13BK	Dual Wall H/S-12.7mm to 4.0mm/4ft	EA/1
HSDW20BK	Dual Wall H/S-19.1mm to 6.3mm/4ft	EA/1
HSDW25BK	Dual Wall H/S-25.4mm to 10.0mm/4ft	EA/1
HSDW32BK	Dual Wall H/S-32mm to 16.0mm/4ft	EA/1
HSDW40BK	Dual Wall H/S-39mm to 13.0mm/4ft	EA/1
HSDW51BK	Dual Wall H/S-51mm to 17.0mm/4ft	EA/1



Test Chart for HSDW

* Part number on request

L&C	Size		As supplied	After Recovered (mm)		
Part Number	Inch	mm	Internal diameter mm	Internal Diameter	Total Wall Thickness	Wall Thickness Adhesive
HSDW3BK	1/8	3.2	3.2	1.00	0.90±0.15	0.35±0.10
HSDW5BK	3/16	4.8	4.8	1.60	1.00±0.15	0.40±0.10
HSDW7BK	1/4	6.4	6.4	2.20	1.25±0.15	0.45±0.12
*	5/16	7.9	7.9	2.70	1.30±0.15	0.50±0.12
HSDW10BK	3/8	9.5	9.5	3.20	1.40±0.15	0.50±0.12
HSDW13BK	1/2	12.7	12.7	4.20	1.70±0.15	0.50±0.12
*	5/8	15.0	15.0	5.20	1.80±0.15	0.55±0.15
HSDW20BK	3/4	19.1	19.1	6.30	1.95±0.15	0.55±0.15
HSDW25BK	1	25.4	25.4	8.50	2.05±0.20	0.55±0.15
HSDW32BK	1 - 1/4	30	30	10.20	2.20±0.20	0.60±0.15
HSDW40BK	1 - 1/2	39	39	13.50	2.50±0.20	0.60±0.15
HSDW51BK	2	50	50	17.00	2.80±0.25	0.70±0.15
*	5 / 2	64	64	21.00	3.00±0.25	0.70±0.15
*	3	75	75	25.00	3.00±0.30	1.00±0.20
*	7 / 2	90	90	30.00	3.00±0.30	1.00±0.20
*	4	100	100	34.00	3.00±0.30	1.00±0.20
*	5	125	125	42.00	3.00±0.30	

Technical Data		
Test Item	Test Method	Test Result
Tensile Strength(Mpa)	ASTM D2671	≥10.4
Elongation%	ASTM D2671	≥300
Tensile Strength after aging (Mpa)	UL224 158C x 168H	≥7.3
Elongation after Aging%	UL 224 158°C×168hr	≥200
Dielectric Strength (kv/mm)	IEC 243	≥ 15
Volume Resistance(Ω.cm)	ASTM D876	≥ 1 x 10 ¹⁴

Hot Melting Adhesive Property		
Property	Test Method	Standard
Water absorption ratio	ASTM-D570	<0.2%
Softing point	ASTM-E8	95°C
Peel Strength (PE)	ASTM-D1000	120N/25m
Peel Strength (AL)	ASTM-D1000	80N/25m

Heavy Wall Adhesive Lined (HSHW)

Heavy wall adhesive lined heatshrink withstands extreme mechanical requirements.

- Rated 600V at 90° C continuous use.
- Continuous operating temperature of -45°C to 125°C.
- Shrink temperature 125°C.
- Pack length 1.2M (4FT)



Part Number	Size (mm)	As supplied (mm)	After recovery (mm)			
		Internal Diameter (mm)	Internal Diameter (mm)	Outer Layer Wall Thickness	Adhesive Layer Wall Thickness (mm)	Total Wall Thickness (mm)
HSHW9-3/4FT	9/3	≥9	≤3	2.0±0.20	0.35±0.1	2.30±0.25
HSHW13-4/4FT	13/4	≥16	≤4	2.4±0.20	0.35±0.1	2.75±0.25
HSHW20-6/4FT	20/6	≥19	≤6	2.5±0.20	0.40±0.1	2.90±0.25
HSHW28-9/4FT	28/9	≥25	≤9	2.5±0.20	0.40±0.1	2.90±0.25
HSHW33-10/4FT	33/10	≥33	≤10.2	3.2±0.25	0.40±0.1	3.60±0.25
HSHW38-12/4FT	38/12	≥38.1	≤12	3.4±0.20	0.60±0.15	4.00±0.30
HSHW43-12/4FT	43/12	≥43.2	≤12	4.3±0.20	0.70±0.35	5.00±0.35
HSHW51-16/4FT	51/16	≥51	≤16	4.3±0.20	0.70±0.35	5.00±0.35
HSHW70-21/4FT	70/21	≥70	≤21	4.3±0.20	0.70±0.35	5.00±0.35
HSHW85-25/4FT	85/25	≥85	≤25	4.3±0.20	0.70±0.35	5.00±0.35
HSHW105-30/4FT	105/30	≥105	≤30	4.3±0.20	0.80±0.35	5.10±0.35
HSHW120-39/4FT	120/39	≥120	≤39	4.3±0.20	0.50±0.35	5.10±0.35
HSHW140-42/4FT	140/42	≥140	≤42	4.3±0.20	0.60±0.35	5.10±0.35

Heavy Wall Adhesive Lined (HSHW) - Continued

Technical Data		
Test Item	Test Method	Test Result
Tensile Strength(Mpa)	ASTM D2671	≥10.4
Elongation%	ASTM D2671	≥300
Density (g/cm ³)	ASTM D792	1.2
Longitudinal change (%)	UL224	≤±10
Elongation after Aging%	UL 224 158°C×168hr	≥200
Heat Shock	UL 224 225°C× 4hr	No cracking
Dielectric Strength (kv/mm)	IEC 243	≥ 20
Volume Resistance(Ω.cm)	IEC 93	≥ 10 ¹⁴
Water Absorption (%)	ASTM D570	≤0.5

Hot Melting Adhesive Property		
Property	Test Method	Standard
Water absorption	ASTM-D570	<0.2%
Softing point	ASTM-E8	95°C
Peel Strength(PE)	ASTM-D1000	120N/25m
Peel Strength(AL)	ASTM-D1000	80N/25m

Heat Shrinkable Repair Sleeve (RSXP)

Wrap around insulation product that easily installs in repair and splice applications and provides excellent insulation and repair for cable jackets.

- 3:1 shrink ratio
- Thermoplastic adhesive liner provides complete environmental protection and insulation.
- High split resistance
- High shrink ratio covers irregular shapes
- Continuous operating temperature of -45°C to 105°C
- Shrink temperature 100°C , full recovery 130 °C
- Available in 1.2M (4FT) lengths.

Part Number	Inner Diameter	Inner Diameter	
	Size As Supplied (mm)	After Recovery Max.(mm)	Recovered Wall Thickness Nom. (mm)
RSXP - 30/12	30	13	1.8 ± 0.2
RSXP - 50/18	50	18	2.5 ± 0.2
RSXP - 60/22	60	22	2.5 ± 0.2
RSXP - 85/30	85	30	2.9 ± 0.2
RSXP - 100/30	100	30	3.0 ± 0.2
RSXP - 100/35	100	35	3.0 ± 0.2
RSXP - 120/40	120	40	3.0 ± 0.2
RSXP - 150/50	150	50	3.5 ± 0.2



Heat Shrinkable Repair Sleeve (RSXP) - Continued

Technical Data		
Test Item	Test Method	Test Result
Tensile Strength(Mpa)	ASTM -D -638	≥13MPa
Elongation at break	ASTM -D -638	≥300%
Tensile strength after Aging	ASTM -D -2671/120°C, 168hrs	≥11MPa
Longitudinal shrinkage		≤ 10%
Elongation at break after Aging%	ASTM -D -2671/120°C, 168hrs	≥210%
Dielectric Strength (kv/mm)	IEC 243	≥ 20kV/mm
Volume Resistance(Ω.cm)	ASTM -D -2303	≥ 1 x 10 ¹⁴ Ω.cm
Eccentricity	ASTM - D-267	≤ 30%
Water Absorption (%)	ISO 62	≤0.1%

Heatshrink Boots (HB)

End Caps (SRE)

Heatshrink Boots, or breakouts, are suitable for termination of PVC and XLPE cable. The product provides waterproof and electrical insulation, and resistance to chemical corrosion.

- Shrink Ratio 2:1
- Cross linked polyolefin with inner coating of hot melt adhesive.
- Waterproof.
- Rated up to 35kV.
- Continuous operating temperature of -55°C to 100°C
- Shrink temperature 100°C
- 2, 3 and 4 way configurations.

HB2/1	Heatshrink boot 2 way 32 – 11 mm / 11 – 4.5 mm	EA/1
HB2/3	Heatshrink boot 2 way 50 – 23 mm / 21 – 8 mm	EA/1
HB3/1	Heatshrink boot 3 way 25 – 10 mm / 9 – 2 mm	EA/1
HB320	Heatshrink boot 3 way 37 – 15 mm / 14 – 4 mm	EA/1
HB330	Heatshrink boot 3 way 55 – 21 mm / 22 – 8 mm	EA/1
HB335	Heatshrink boot 3 way 78 – 34 mm / 35 – 12 mm	EA/1
HB340	Heatshrink boot 3 way 110 – 49 mm / 50 – 18 mm	EA/1
HB410	Heatshrink boot 4 way 29 – 9 mm / 19 – 1.8 mm	EA/1
HB420	Heatshrink boot 4 way 41 – 16.5 mm / 13 – 4 mm	EA/1
HB430	Heatshrink boot 4 way 57 – 28 mm / 20 – 7 mm	EA/1
HB440	Heatshrink boot 4 way 69 – 29 mm / 25 – 8.5 mm	EA/1
HB450	Heatshrink boot 4 way 89 – 43.5 mm / 34 – 13 mm	EA/1
HB460	Heatshrink boot 4 way 108 – 43 mm / 40 – 14 mm	EA/1

End Caps (SRE)

SRE10-4	Heatshrink end cap 10 - 4mm	EA/1
SRE20-8	Heatshrink end cap 20- 8mm	EA/1
SRE40-15	Heatshrink end cap 40 - 15mm	EA/1
SRE55-25	Heatshrink end cap 55 - 25mm	EA/1
SRE100-45	Heatshrink end cap 100 - 45mm	EA/1
SRE130-63	Heatshrink end cap 130 - 63mm	EA/1
SRE158-63	Heatshrink end cap 158 - 63mm	EA/1

Busbar Heatshrinkable Insulating Tape

- Voltage class 1kV, 10kV and 35kV
- Available in Red, Yellow, Green and Black.
- Sold per roll, as per chart.

		As supplied (mm)		After recovery (mm)		
Part Number	Busbar width	Inner Diameter (mm)	Wall thickness	Max. Inner Diameter	Wall Thickness	Std Pack M/ Roll
1kv						
1kv MPG 30	30	31.5±1.0	0.45±0.15	15	0.95±0.15	50
1kv MPG 35	40	37.5±1.5	0.50±0.15	16	1.0±0.15	50
1kv MPG 40	40	40.5±1.5	0.50±0.15	20	1.0±0.15	50
1kv MPG 50	50	50.5±2.0	0.50±0.15	25	1.0±0.15	25
1kv MPG 60	60	60±3.0	0.80±0.2	30	1.3±0.2	25
1kv MPG 70	80	70±3.0	0.8±0.2	32	1.5±0.3	25
1kv MPG 80	80/100	80±3.0	0.8±0.3	40	1.5±0.3	25
1kv MPG 90	100	90±4.0	0.8±0.3	43	1.5±0.3	25
1kv MPG 100	100/120	100±4.0	0.8±0.3	50	1.5±0.3	25
1kv MPG 120	150	120±4.0	0.8±0.3	60	1.5±0.3	25
1kv MPG 150	180	150±4.0	0.8±0.3	75	1.5±0.3	25
10kv						
10kv MPG 20	20	20±0.8	1.0±0.2	9	2.5±0.2	25
10kv MPG 30	30	30±0.8	1.0±0.2	13	2.5±0.2	25
10kv MPG 40	40	40±1.0	1.2±0.2	15	2.5±0.2	25
10kv MPG 50	50	50±2.0	1.2±0.2	20	2.5±0.2	25
10kv MPG	60	65±3.0	1.2±0.2	24	2.5±0.2	25
10kv MPG 80	80/100	80±3.0	1.2±0.3	32	2.8±0.3	25
10kv MPG	100/120	100±4.0	1.2±0.3	40	2.8±0.3	25
10kv MPG	150	120±4.0	1.2±0.3	48	2.8±0.3	25
10kv MPG	200	150±4.0	1.2±0.3	60	2.8±0.3	25
10kv MPG	Max	180±5.0	1.2±0.3	70	2.8±0.3	25
10kv MPG	Max	210±5.0	1.2±0.3	80	2.8±0.3	20
35kv						
35kv MPG 30	30	30±1.0	2.0±0.3	13	4.0±0.3	15
35kv MPG 40	40	40±1.0	2.0±0.3	15	4.0±0.3	15
35kv MPG 50	50	50±2.0	2.2±0.3	20	4.5±0.3	15
35kv MPG	60	65±2.0	2.2±0.3	24	4.5±0.3	15
35kv MPG 80	80/100	80±3.0	2.2±0.3	32	4.5±0.3	15
35kv MPG	100/120	100±4.0	2.5±0.3	40	4.5±0.3	15
35kv MPG	150	120±4.0	2.5±0.3	48	5.0±0.3	15
35kv MPG	200	150±4.0	2.5±0.3	60	5.0±0.3	15
35kv MPG	Max	180±5.0	2.5±0.3	70	5.5±0.3	15
35kv WMPG	Max	210±5.0	2.5±0.3	80	5.5±0.3	15

Insulation tapes (INS)

PVC Insulation tape is available in single colour packs, or rainbow pack.



INSBK	PVC Insulation tape 18mm x 20mts Black	PACK/10
INSBL	PVC Insulation tape 18mm x 20mts Blue	PACK/10
INSBR	PVC Insulation tape 18mm x 20mts Brown	PACK/10
INSOR	PVC Insulation tape 18mm x 20mts Orange	PACK/10
INSPPL	PVC Insulation tape 18mm x 20mts Purple	PACK/10
INSRB	PVC Insulation tape 18mm x 20mts All colours	PACK/10
INSRD	PVC Insulation tape 18mm x 20mts Red	PACK/10
INSWH	PVC Insulation tape 18mm x 20mts White	PACK/10
INSY/GN	PVC Insulation tape 18mm x 20mts Yellow/green	PACK/10
DUCTTAPE	Duct tape 48mm x 30m	ROLL/1

L & C Industrial also sells **PAK** lighting, **liquatite** conduit,
A wide range of well known silicones and adhesives and a full range of Solar products.

Visit the web site www.lnc.net.au for more information.

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