

HEAT SHRINK

The wide range of **CARROLL** heat shrinkable products ensure that whether you are insulating, colour coding, strain relieving, protecting or sealing, the product with the right specification, size, colour, adhesive, sealant, temperature rating, dielectric strength and shrink ratio is available to do the job.

HS GRADE

EXPANDED AS
SUPPLIED



FULLY
RECOVERED
AFTER HEATING

HS GRADE GENERAL PURPOSE, THIN WALL TUBING

This flexible **CARROLL** heat shrink tubing is manufactured from flame retardant, irradiated crosslinked, modified polyolefin. Recognised by Underwriters Laboratories (UL) and Canadian Standards (CSA), the tubing exhibits a VW-1 flame retardant rating, (except clear), is rated at 600V and has an operating temperature range of -25°C to 125°C. Shrink temperature is 90°C and the shrink ratio is 2:1. Designed to insulate, colour code, strain relieve and provide abrasion and mechanical protection. Tubing is supplied in either 1.2m (4 ft) lengths, full spools or we offer the convenience of full spools supplied in cut pieces to your specification. A complete range of diameters is available from 1mm to 102mm.

Note: Heat shrink tubing is sized by the tubing's diameter, not layflat dimension. Colours available are Black (BK), Blue (BL), Red (R), White (W), Green (G), Yellow (Y), Clear (C) and Green/Yellow stripe (GY). For colour selection, add suffix to part number. e.g., For 10mm black tubing supplied in lengths - HSL10BK.

LENGTHS

| PART NO. | SUPPLIED ID mm | APPROX SUPPLIED LAYFLAT | TRADE PRICE PER LENGTH | LENGTH | CODE P |
|----------|----------------|-------------------------|------------------------|--------|-----------|
| HSL1 | 1.5±0.3 | - | \$3.25 | 1.22m | |
| HSL1.5 | 2.0±0.3 | - | \$3.98 | 1.22m | |
| HSL2 | 2.5±0.3 | - | \$4.34 | 1.22m | |
| HSL3 | 3.5±0.4 | - | \$4.46 | 1.22m | |
| HSL5 | 5.5±0.4 | 8 | \$5.60 | 1.22m | |
| HSL6 | 6.5±0.4 | 11 | \$7.02 | 1.22m | |
| HSL6GY | 6.5±0.4 | 11 | \$14.94 | 1.22m | |
| HSL10 | 10.8±0.5 | 16 | \$8.02 | 1.22m | |
| HSL10GY | 10.8±0.5 | 16 | \$17.20 | 1.22m | |
| HSL13 | 13.5±0.5 | 20 | \$8.75 | 1.22m | |
| HSL13GY | 13.5±0.5 | 20 | \$18.78 | 1.22m | |
| HSL19 | 21.5±0.7 | 31 | \$12.37 | 1.22m | |
| HSL19GY | 21.5±0.7 | 31 | \$26.45 | 1.22m | |
| HSL25 | 25.6±0.7 | 39 | \$19.13 | 1.22m | |
| HSL25GY | 25.6±0.7 | 39 | \$40.95 | 1.22m | |
| HSL38 | 41.5±0.7 | 60 | \$32.17 | 1.22m | |
| HSL38GY | 41.5±0.7 | 60 | \$43.49 | 1.22m | |
| HSL51 | 51.5±0.7 | 80 | \$41.88 | 1.22m | |

SPOOLS

| PART NO. | SUPPLIED ID mm | APPROX SUPPLIED LAYFLAT | TRADE PRICE PER SPOOL | SPOOL LENGTH | CODE P |
|----------------|----------------|-------------------------|-----------------------|--------------|-----------|
| HS1.5 (BK,C) | 2.0±0.3 | - | \$664.83 | 200m | |
| HS1.5 (RD,W,Y) | 2.0±0.3 | - | \$1,010.69 | 304m | |
| HS2 | 2.5±0.3 | - | \$724.36 | 200m | |
| HS2G | 2.5±0.3 | - | \$362.19 | 100m | |
| HS3 | 3.5±0.4 | - | \$745.07 | 200m | |
| HS5 | 5.0±0.4 | 8 | \$456.66 | 100m | |
| HS6 | 6.5±0.4 | 11 | \$292.98 | 50m | |
| HS6GY | 6.5±0.4 | 11 | \$710.95 | 61m | |
| HS6 (Y) | 6.5±0.4 | 11 | \$585.95 | 100m | |
| HS10 | 10.8±0.5 | 16 | \$333.73 | 50m | |
| HS10GY | 9.5±0.5 | 16 | \$816.68 | 61m | |
| HS13 | 12.5±0.5 | 20 | \$364.12 | 50m | |
| HS13GY | 12.5±0.5 | 20 | \$892.44 | 61m | |

Note: All prices in catalogue exclude GST.

SALES ENQUIRIES FREE CALL: 1800 777 458



SPOOLS CONTINUED

| PART NO. | SUPPLIED ID mm | APPROX SUPPLIED LAYFLAT | TRADE PRICE PER SPOOL | SPOOL LENGTH | CODE P |
|-------------------|----------------|-------------------------|-----------------------|--------------|--------|
| HS16 | 16.5±0.6 | 25 | \$439.80 | 50m | |
| HS19 | 19.0±0.7 | 31 | \$515.47 | 50m | |
| HS19GY | 19.0±0.7 | 31 | \$1,257.00 | 61m | |
| HS25 | 25.6±0.7 | 39 | \$796.81 | 50m | |
| HS25GY | 25.6±0.7 | 39 | \$1,945.07 | 61m | |
| HS38 (BK,BL,RD,W) | 41.5±0.7 | 60 | \$1,340.74 | 50m | |
| HS38GY | 41.5±0.7 | 60 | \$1,476.19 | 30m | |
| HS38 (G,Y) | 41.5±0.7 | 60 | \$1,018.96 | 38m | |
| HS38 (C) | 41.5±0.7 | 60 | \$804.46 | 30m | |
| HS51 | 51.5±0.7 | 80 | \$872.49 | 38m | |
| HS51(BK,BL,RD) | 51.5±0.7 | 80 | \$1,326.17 | 25m | |
| HS76 | ≥80 | 120 | \$61.05 | 1m | |
| HS102 | ≥100 | 160 | \$72.72 | 1m | |

HEAT SHRINK KITS

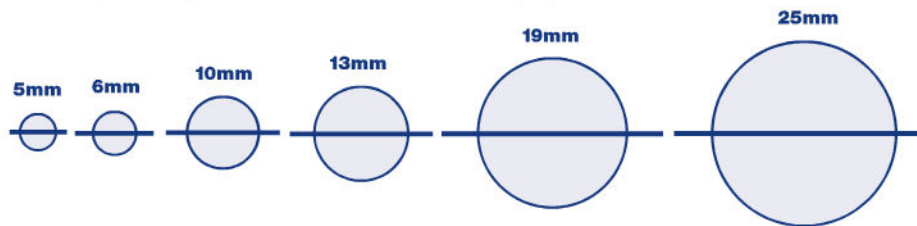
An assortment of popular sizes, red and black general purpose heat shrink tubing supplied in a boxed grab kit.

| PART NO. | SIZE RANGE | LENGTHS mm | COLOURS | TRADE PRICE PER PACK | PACK QTY | CODE P |
|----------|------------|------------|-------------|----------------------|----------|--------|
| HSKB | 2-25mm | ASSORTED | BLACK & RED | \$130.21 | 1 | |



SIZE SELECTION CHART

To identify ordering diameter, match flattened tubing against the horizontal line.



HEAT SHRINK BUS BAR SELECTION CHART

BUS BAR SELECTION CHART FOR APPLICABLE HEAT SHRINK DIAMETERS

| | WIDTH | 12mm | 19mm | 25mm | 38mm | 51mm | 76mm | 102mm | 125mm |
|-------|-------|------|------|------|------|------|------|-------|-------|
| DEPTH | | 1/2 | 3/4 | 1 | 1.5 | 2 | 3 | 4 | 5 |
| 3.2mm | 1/8 | HS13 | HS19 | HS25 | HS38 | HS51 | HS76 | HS102 | HS102 |
| 4.8mm | 3/16 | HS13 | HS19 | HS25 | HS38 | HS51 | HS76 | HS102 | HS102 |
| 6.4mm | 1/4 | | HS19 | HS25 | HS38 | HS51 | HS76 | HS102 | HS102 |
| 9.5mm | 3/8 | | | | HS38 | HS51 | HS76 | HS102 | HS102 |
| 13mm | 1/2 | | | | | HS51 | HS76 | HS102 | HS102 |

Note: Bends may require larger diameter heat shrink. Pre-heat bus bar before applying tubing for a more even finish.

Note: All prices in catalogue exclude GST.

CARROLL QUALITY GUARANTEED



DWL GRADE DUAL WALL TUBING

EXPANDED
AS SUPPLIED



FULLY
RECOVERED
AFTER HEATING

DWL GRADE DUAL WALL TUBING LENGTHS 1.22 METRE (4 FEET) & SPOOLS

CARROLL Dual Wall tubing is manufactured from a co-extrusion of flame-retarded, flexible, 3:1 shrink ratio heat shrinkable tubing and a special adhesive lining. When the tubing is heated, the adhesive lining melts and flows to form a positive environmental seal. The lining adheres to the outer tubing and the surface below, creating an excellent barrier to moisture penetration. Typical applications include the sealing and insulation of electrical splices, terminations, connector backshells, battery terminals and repairs to damaged cable. Due to the tubing's flexibility, high shrink ratio and the wide variety of surfaces to which the adhesive will bond, the product is excellent in areas requiring corrosion and mechanical protection.

LENGTHS

| PART NO. | SUPPLIED ID mm | | COLOUR | TRADE PRICE PER LENGTH | LENGTH | CODE PA |
|----------|----------------|--|--------|------------------------|--------|------------|
| DWL3/1 | 3.5± 0.3 | | BLACK | \$15.08 | 1.22m | |
| DWL6/2 | 6.8± 0.4 | | BLACK | \$20.52 | 1.22m | |
| DWL9/3 | 9.9± 0.4 | | BLACK | \$24.37 | 1.22m | |
| DWL12/4 | 13.2± 0.5 | | BLACK | \$27.98 | 1.22m | |
| DWL12/4R | 13.2± 0.5 | | RED | \$27.98 | 1.22m | |
| DWL19/6 | 19.6± 0.5 | | BLACK | \$38.87 | 1.22m | |
| DWL19/6R | 19.6± 0.5 | | RED | \$38.87 | 1.22m | |
| DWL24/8 | 25.4± 0.8 | | BLACK | \$49.25 | 1.22m | |
| DWL24/8R | 25.4± 0.8 | | RED | \$49.25 | 1.22m | |
| DWL40/13 | 40.0± 0.8 | | BLACK | \$120.29 | 1.22m | |

SPOOLS

| PART NO. SPOOL | SUPPLIED ID mm | SPOOL LENGTH m | COLOUR | TRADE PRICE PER SPOOL | CODE PA |
|----------------|----------------|----------------|--------|-----------------------|------------|
| DW3/1 | 3.5± 0.3 | 200 | BLACK | \$2,473.21 | |
| DW6/2 | 6.8± 0.4 | 100 | BLACK | \$1,681.58 | |
| DW9/3 | 9.9± 0.4 | 50 | BLACK | \$998.60 | |
| DW12/4 | 13.2± 0.5 | 50 | BLACK | \$1,146.71 | |
| DW19/6 | 19.6± 0.5 | 50 | BLACK | \$1,592.98 | |
| DW24/8 | 25.4± 0.8 | 30 | BLACK | \$1,211.14 | |
| DW24/8R | 25.4± 0.8 | 30 | RED | \$1,211.14 | |
| DW40/13 | 40.0± 0.8 | 25 | BLACK | \$2,957.83 | |

HWL HEAVY WALL ADHESIVE LINED TUBING LENGTHS 1.22 METRE (4 FEET)

Heavy Wall tubing provides a fast, clean, permanent, safe and cost effective method of sealing, waterproofing, insulating and protecting cable joints and terminations in underwater or underground applications. Voltage rated for 0.6/1kv applications, the tubing has a high shrink ratio, is UV resistant, and operates within a -55°C to +90°C temperature range. The polyamide - based adhesive provides a high bond strength and protection against moisture, aggressive fluids and corrosion.

| PART NO. | SUPPLIED ID mm | RECOVERED IDmm | COLOUR | TRADE PRICE PER LENGTH | LENGTH | CODE PA |
|-----------|----------------|----------------|--------|------------------------|--------|------------|
| HWL12/5 | 12 | 5 | BLACK | \$45.89 | 1.22m | |
| HWL20/8 | 20 | 8 | BLACK | \$52.81 | 1.22m | |
| HWL30/12 | 30 | 12 | BLACK | \$72.61 | 1.22m | |
| HWL40/17 | 40 | 17 | BLACK | \$83.59 | 1.22m | |
| HWL52/20 | 52 | 20 | BLACK | \$123.21 | 1.22m | |
| HWL68/26 | 68 | 26 | BLACK | \$171.60 | 1.22m | |
| HWL80/30 | 80 | 30 | BLACK | \$189.19 | 1.22m | |
| HWL102/44 | 102 | 44 | BLACK | \$203.64 | 1.22m | |
| HWL122/52 | 122 | 52 | BLACK | \$224.38 | 1.22m | |
| HWL146/58 | 148 | 58 | BLACK | \$240.77 | 1.22m | |

Note: All prices in catalogue exclude GST.

SALES ENQUIRIES FREE FAX: 1800 654 325

HWL HEAVY WALL ADHESIVE LINED TUBING

EXPANDED
AS SUPPLIED



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HIGH SHRINK RATIO, THICK ADHESIVE LINED TUBING LENGTHS 1.22 METRE (4 FEET)

This adhesive lined heat shrink tubing has a high shrink ratio, over 4:1, specially designed for environmental sealing of terminations and splices. It is relatively rigid when shrunk and features extra adhesive. The broad operating temperature range of -40°C to 130°C makes the tubing especially suitable for use in higher temperature environments eg; engine compartments etc.

| PART NO. | SUPPLIED OD mm | AFTER HEATING OD mm | COLOUR | TRADE PRICE PER LENGTH | LENGTH | CODE PA |
|----------|----------------|---------------------|--------|------------------------|--------|---------|
| HSRL1 | 5.72 | 1.27 | BLACK | \$17.69 | 1.22m | |
| HSRL2 | 7.44 | 1.65 | BLACK | \$22.60 | 1.22m | |
| HSRL3 | 10.85 | 2.41 | BLACK | \$24.85 | 1.22m | |
| HSRL4 | 17.78 | 4.45 | BLACK | \$43.51 | 1.22m | |

HEAT SHRINK TAPE

CARROLL Heat Shrink Tape is an easy to work with, flexible tape that exhibits both the advantages of heat shrink tubing and a self-amalgamating tape. A simple and economical method of repairing damage to cable insulations. Easy forming of T joints, multiple breakouts or junctions. Effective sealing of complex shapes. The tape is wound loosely ensuring tape overlaps by approximately 15mm or 2/3rds of the tape width, then heat and shrink. Further layers can then be applied until desired thickness is achieved. Operating Temperature -55 to 105°C.

| PART NO. | COLOUR | LENGTH m | WIDTH mm | THICKNESS mm | TRADE PRICE PER ROLL | CODE PB |
|----------|--------|----------|----------|--------------|----------------------|---------|
| HST25BK | BLACK | 5 | 25 | 1 | \$63.58 | |

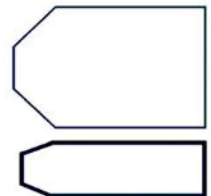
END CAPS - ADHESIVE LINED

CARROLL Heat shrinkable, adhesive lined end caps are used to provide a quick, watertight and permanent seal to cable ends during installation and storage. Highly resistant to ultraviolet light, chemicals and corrosion, the caps are easily applied by use of either a soft yellow gas flame or heat gun.

| PART NO. | SUPPLIED ID mm | RECOVERED IDmm | TRADE PRICE PER PACK | PACK QTY | CODE PA |
|----------|----------------|----------------|----------------------|----------|---------|
| EC10/4 | 10 | 4 | \$6.36 | 1 | |
| EC24/11 | 24 | 11 | \$8.90 | 1 | |
| EC33/18 | 33 | 18 | \$11.51 | 1 | |
| EC50/27 | 50 | 27 | \$16.21 | 1 | |
| EC70/38 | 70 | 38 | \$22.67 | 1 | |
| EC100/48 | 100 | 48 | \$24.21 | 1 | |
| EC120/59 | 120 | 59 | \$36.48 | 1 | |

END CAPS

AS SUPPLIED



RECOVERED



Note: All prices in catalogue exclude GST.

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