

## HS Grade General Purpose, Thin Wall Tubing

Carroll General Purpose Thin Wall Tubing is designed to insulate, colour code, strain relieve and provide abrasion and mechanical protection.

Manufactured from a 2:1 shrink ratio, flexible, flame retardant, irradiated crosslinked, heat-shrinkable, modified polyolefin tubing.

### Features:

- 2:1 shrink ratio
- Resistance to chemical, copper corrosion and fungus
- Flame retarded and self extinguishing\*
- Continuous operating temperature: -55°C to 125°C\*
- Fully shrink temperature: ≥ 125°C\*
- Fully shrink temperature: ≥ 90°C\* (Green / Yellow)
- RoHS compliant

\*Not applicable for 'Clear' coloured heat shrink

### Lengths

PART NO.	SUPPLIED ID (MM)	RECOVERED ID (MM)	LAY FLAT WIDTH OD (MM)	COLOUR	LENGTH /M
HSL1.5BK	1.5	0.85	N/A	BLACK	1.22
HSL1.5BL	1.5	0.85	N/A	BLUE	1.22
HSL1.5C	1.5	0.85	N/A	CLEAR	1.22
HSL1.5RD	1.5	0.85	N/A	RED	1.22
HSL1.5W	1.5	0.85	N/A	WHITE	1.22
HSL2BK	2.0	1.00	N/A	BLACK	1.22
HSL2BL	2.0	1.00	N/A	BLUE	1.22
HSL2C	2.0	1.00	N/A	CLEAR	1.22
HSL2RD	2.0	1.00	N/A	RED	1.22
HSL2W	2.0	1.00	N/A	WHITE	1.22
HSL3BK	3.0	1.50	N/A	BLACK	1.22
HSL3BL	3.0	1.50	N/A	BLUE	1.22
HSL3C	3.0	1.50	N/A	CLEAR	1.22
HSL3RD	3.0	1.50	N/A	RED	1.22
HSL3W	3.0	1.50	N/A	WHITE	1.22
HSL3Y	3.0	1.50	N/A	YELLOW	1.22
HSL5BK	5.0	2.50	8.0	BLACK	1.22
HSL5BL	5.0	2.50	8.0	BLUE	1.22
HSL5C	5.0	2.50	8.0	CLEAR	1.22
HSL5RD	5.0	2.50	8.0	RED	1.22
HSL5W	5.0	2.50	8.0	WHITE	1.22
HSL5Y	5.0	2.50	8.0	YELLOW	1.22
HSL6BK	6.0	3.00	9.0	BLACK	1.22
HSL6BL	6.0	3.00	9.0	BLUE	1.22
HSL6C	6.0	3.00	9.0	CLEAR	1.22
HSL6GY	6.0	3.00	9.0	GRN/YEL	1.22
HSL6RD	6.0	3.00	9.0	RED	1.22
HSL6W	6.0	3.00	9.0	WHITE	1.22
HSL6Y	6.0	3.00	9.0	YELLOW	1.22



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## Lengths

PART NO.	SUPPLIED ID (MM)	RECOVERED ID (MM)	LAY FLAT WIDTH OD (MM)	COLOUR	LENGTH /M
HSL10BK	10.0	5.00	16.0	BLACK	1.22
HSL10BL	10.0	5.00	16.0	BLUE	1.22
HSL10C	10.0	5.00	16.0	CLEAR	1.22
HSL10GY	10.0	5.00	16.0	GRN/YEL	1.22
HSL10RD	10.0	5.00	16.0	RED	1.22
HSL10W	10.0	5.00	16.0	WHITE	1.22
HSL10Y	10.0	5.00	16.0	YELLOW	1.22
HSL13BK	13.0	6.50	20.0	BLACK	1.22
HSL13BL	13.0	6.50	20.0	BLUE	1.22
HSL13C	13.0	6.50	20.0	CLEAR	1.22
HSL13GY	13.0	6.50	20.0	GRN/YEL	1.22
HSL13RD	13.0	6.50	20.0	RED	1.22
HSL13W	13.0	6.50	20.0	WHITE	1.22
HSL13Y	13.0	6.50	20.0	YELLOW	1.22
HSL16BK	16.0	8.00	25.0	BLACK	1.22
HSL16RD	16.0	8.00	25.0	RED	1.22
HSL19BK	20.0	10.00	31.0	BLACK	1.22
HSL19BL	20.0	10.00	31.0	BLUE	1.22
HSL19C	20.0	10.00	31.0	CLEAR	1.22
HSL19GY	20.0	10.00	31.0	GRN/YEL	1.22
HSL19RD	20.0	10.00	31.0	RED	1.22
HSL19W	20.0	10.00	31.0	WHITE	1.22
HSL19Y	20.0	10.00	31.0	YELLOW	1.22
HSL25BK	25.0	12.50	39.0	BLACK	1.22
HSL25BL	25.0	12.50	39.0	BLUE	1.22
HSL25C	25.0	12.50	39.0	CLEAR	1.22
HSL25GY	25.0	12.50	39.0	GRN/YEL	1.22
HSL25RD	25.0	12.50	39.0	RED	1.22
HSL25W	25.0	12.50	39.0	WHITE	1.22
HSL25Y	25.0	12.50	39.0	YELLOW	1.22
HSL38BK	40.0	20.00	63.0	BLACK	1.22
HSL38BL	40.0	20.00	63.0	BLUE	1.22
HSL38C	40.0	20.00	63.0	CLEAR	1.22
HSL38GY	40.0	20.00	63.0	GRN/YEL	1.22
HSL38RD	40.0	20.00	63.0	RED	1.22
HSL38W	40.0	20.00	63.0	WHITE	1.22
HSL38Y	40.0	20.00	63.0	YELLOW	1.22



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## Lengths

PART NO.	SUPPLIED ID (MM)	RECOVERED ID (MM)	LAY FLAT WIDTH OD (MM)	COLOUR	LENGTH /M
HSL51BK	50.0	25.00	79.0	BLACK	1.22
HSL51BL	50.0	25.00	79.0	BLUE	1.22
HSL51C	50.0	25.00	79.0	CLEAR	1.22
HSL51RD	50.0	25.00	79.0	RED	1.22
HSL51W	50.0	25.00	79.0	WHITE	1.22
HSL51Y	50.0	25.00	79.0	YELLOW	1.22
HSL76BK	80.0	40.00	126.0	BLACK	1.22
HSL76BL	80.0	40.00	126.0	BLUE	1.22
HSL76R	80.0	40.00	126.0	RED	1.22
HSL76W	80.0	40.00	126.0	WHITE	1.22
HSL102BK	100.0	50.00	157.0	BLACK	1.22
HSL102BL	100.0	50.00	157.0	BLUE	1.22
HSL102R	100.0	50.00	157.0	RED	1.22
HSL102W	100.0	50.00	157.0	WHITE	1.22



## HS Grade General Purpose, Thin Wall Tubing

### Spools

PART NO.	SUPPLIED ID (MM)	RECOVERED ID (MM)	LAY FLAT WIDTH OD (MM)	COLOUR	LENGTH /M
HS1.5BK	1.5	0.85	N/A	BLACK	200
HS1.5C	1.5	0.85	N/A	CLEAR	200
HS1.5W	1.5	0.85	N/A	WHITE	304
HS2BK	2.0	1.00	N/A	BLACK	200
HS2C	2.0	1.00	N/A	CLEAR	200
HS3BK	3.0	1.50	N/A	BLACK	200
HS3BL	3.0	1.50	N/A	BLUE	200
HS3C	3.0	1.50	N/A	CLEAR	200
HS3RD	3.0	1.50	N/A	RED	200
HS3W	3.0	1.50	N/A	WHITE	200
HS5BK	4.5	2.30	7.0	BLACK	100
HS5BL	4.5	2.30	7.0	BLUE	100
HS5C	4.5	2.30	7.0	CLEAR	100
HS5RD	4.5	2.30	7.0	RED	100
HS5W	4.5	2.30	7.0	WHITE	100
HS6BK	6.0	3.00	9.0	BLACK	50
HS6C	6.0	3.00	9.0	CLEAR	50
HS6RD	6.0	3.00	9.0	RED	50
HS6W	6.0	3.00	9.0	WHITE	50
HS6BL	6.0	3.00	9.0	BLUE	50
HS6GY-100	6.0	3.00	9.0	GRN/YEL	100

HS - GENERAL PURPOSE TUBING



HS SPOOLS

# HS Grade General Purpose, Thin Wall Tubing

## Spools



PART NO.	SUPPLIED ID (MM)	RECOVERED ID (MM)	LAY FLAT WIDTH OD (MM)	COLOUR	LENGTH /M
HS10C	10.0	5.00	16.0	CLEAR	50
HS10BK	10.0	5.00	16.0	BLACK	50
HS10BL	10.0	5.00	16.0	BLUE	50
HS10RD	10.0	5.00	16.0	RED	50
HS10W	10.0	5.00	16.0	WHITE	50
HS10GY-100	10.0	5.00	16.0	GRN/YEL	100
HS13BK	12.0	6.00	19.0	BLACK	50
HS13BL	12.0	6.00	19.0	BLUE	50
HS13RD	12.0	6.00	19.0	RED	50
HS13W	12.0	6.00	19.0	WHITE	50
HS13C	12.0	6.00	19.0	CLEAR	50
HS13GY-100	12.5	6.00	20.0	GRN/YEL	100
HS16BK	16.0	8.00	25.0	BLACK	50
HS16BL	16.0	8.00	25.0	BLUE	50
HS16C	16.0	8.00	25.0	CLEAR	50
HS16RD	16.0	8.00	25.0	RED	50
HS16W	16.0	8.00	25.0	WHITE	50
HS19BK	18.0	9.00	28.0	BLACK	50
HS19BL	18.0	9.00	28.0	BLUE	50
HS19RD	18.0	9.00	28.0	RED	50
HS19W	18.0	9.00	28.0	WHITE	50
HS19C	18.0	9.00	28.0	CLEAR	50
HS19GY-100	19.0	9.00	30.0	GRN/YEL	100
HS25BK	25.0	12.50	39.0	BLACK	50
HS25BL	25.0	12.50	39.0	BLUE	50
HS25C	25.0	12.50	39.0	CLEAR	50
HS25RD	25.0	12.50	39.0	RED	50
HS25W	25.0	12.50	39.0	WHITE	50
HS25GY-50	25.0	12.50	39.0	GRN/YEL	50
HS38BK	40.0	20.00	63.0	BLACK	50
HS38BL	40.0	20.00	63.0	BLUE	50
HS38C	40.0	20.00	63.0	CLEAR	30
HS38RD	40.0	20.00	63.0	RED	50
HS38W	40.0	20.00	63.0	WHITE	50
HS38GY-50	41.5	20.00	65.0	GRN/YEL	50



HS SPOOLS



## HS Grade General Purpose, Thin Wall Tubing

### Spools

PART NO.	SUPPLIED ID (MM)	RECOVERED ID (MM)	LAY FLAT WIDTH OD (MM)	COLOUR	LENGTH /M
HS51BK	50.0	25.00	79.0	BLACK	25
HS51BL	50.0	25.00	79.0	BLUE	25
HS51C	50.0	25.00	79.0	CLEAR	25
HS51RD	50.0	25.00	79.0	RED	25
HS51W	50.0	25.00	79.0	WHITE	25
HS76BK	80.0	40.00	126.0	BLACK	25
HS76RD	80.0	40.00	126.0	RED	25
HS76W	80.0	40.00	126.0	WHITE	25
HS76BL	80.0	40.00	126.0	BLUE	25
HS102BK	100.0	50.00	157.0	BLACK	25
HS102RD	100.0	50.00	157.0	RED	25
HS102W	100.0	50.00	157.0	WHITE	25
HS102BL	100.0	50.00	157.0	BLUE	25



HS SPOOLS

## DWL Grade Dual Wall Tubing

Carroll Dual Wall Tubing is manufactured from a co-extrusion of flame-retardant, flexible, 3:1 shrink ratio heat shrinkable tubing with 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.

### Features:

- 3:1 shrink ratio
- Flame retardant (outer jacket only)
- Super sealing against water, moisture or other contaminants
- Continuous operating temperature: -45°C to 125°C
- Shrink temperature: 125°C
- RoHS compliant

### Lengths

PART NO.		SUPPLIED ID (MM)	RECOVERED ID (MM)	LENGTH /M
BLACK	RED			
DWL3/1	DWL3/1R	3.2	1.0	1.22
DWL6/2	DWL6/2R	6.4	2.2	1.22
DWL9/3	DWL9/3R	9.5	3.2	1.22
DWL12/4	DWL12/4R	12.7	4.2	1.22
DWL19/6	DWL19/6R	19.1	6.3	1.22
DWL24/8	DWL24/8R	25.4	8.5	1.22
DWL40/13	DWL40/13R	39.0	13.5	1.22



DWL GRADE  
DUAL WALL TUBING

## DWL Grade Dual Wall Tubing

### Spools

PART NO.		SUPPLIED ID (MM)	RECOVERED ID (MM)	LENGTH /M
BLACK	RED			
DW6/2	DW6/2R	6.4	2.2	100
DW9/3	DW9/3R	9.5	3.2	50
DW12/4	DW12/4R	12.7	4.2	25
DW19/6	DW19/6R	19.1	6.3	25
DW24/8	DW24/8R	25.4	8.5	25
DW40/13	DW40/13R	39	13.5	25



DW SPOOL

## HWL Heavy Wall Adhesive Lined Tubing

Heavy Wall tubing provides a fast, clean, permanent, safe and cost effective method of sealing, insulating and protecting cable joints and terminations in underwater or underground applications. Voltage rated for 0.6/1kv applications, the tubing has a high variable shrink ratio, is UV resistant, and operates within a -45°C to +125°C temperature range. The polyamide - based adhesive provides a high bond strength and protection against moisture, aggressive fluids and corrosion.

### Lengths

PART NO.	SUPPLIED ID (MM)	RECOVERED ID (MM)	COLOUR	LENGTH /M
HWL12/5	12	5	Black	1.22
HWL20/8	20	8	Black	1.22
HWL30/12	30	12	Black	1.22
HWL40/17	40	17	Black	1.22
HWL52/20	52	20	Black	1.22
HWL68/26	68	26	Black	1.22
HWL80/30	80	30	Black	1.22
HWL102/44	102	44	Black	1.22
HWL122/52	122	52	Black	1.22
HWL146/58	148	58	Black	1.22



HWL HEAVY WALL  
ADHESIVE LINED TUBING

## Heat Shrinkable End Caps - Adhesive Lined

Carroll heat shrinkable end caps are hot melt adhesive lined and are used to provide protection to cable ends against oxidation, ozone, UV and more.

Continuous operating temperature: -45°C to 105°C

Shrink temperature: start 110°C, fully recovered 130°C

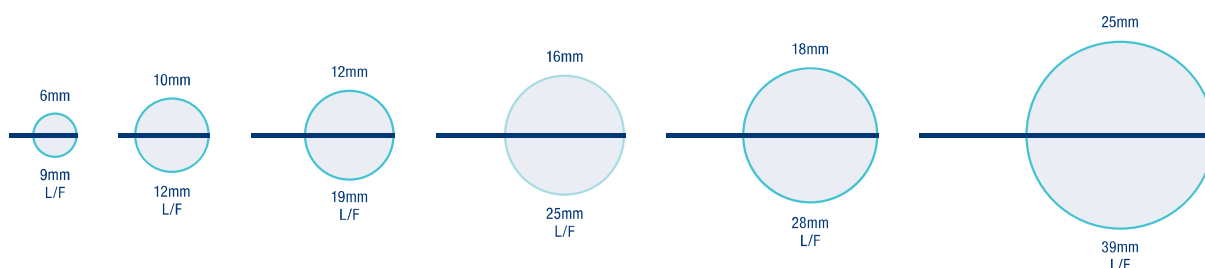
PART NO.	SUPPLIED mm	RECOVERED ID mm	PACK QTY
EC24/11	25	11	1
EC33/18	35	17	1
EC50/27	55	26	1
EC70/38	75	30	1
EC100/48	100	40	1
EC120/59	120	57	1



END CAPS

## SIZE SELECTION CHART

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



FOR OTHER SIZES NOT SHOWN ABOVE, REFER TO THE LAY FLAT DETAIL SHOWN IN PART NO. TABLES ► [SEE FROM PAGE 42](#)

## Heat Shrink Bus Bar Selection Chart

For applicable Heat Shrink Diameters

DEPTH	WIDTH	12mm	19mm	25mm	38mm	51mm	76mm	102mm	125mm
		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.