

Inspired by Paul Hellermann

Heat-shrinkable tubes have always made it easy to repair cables and pipes. Strictly speaking, however, Paul Hellermann used rubber bike valves to bring the insulation of damaged household cables to a mass market from 1935. The idea is the only thing that our modern heat-shrinkable tubes have in common with these simple chloroprene sleeves. Take the SA47-LA (see page 264), which was specially developed in line with customer specifications and offers outstanding protection against moisture and corrosion, thus enabling vehicles to retain their functionality.





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2.1 Heat Shrinkable Tubing

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2.2 Heat Shrinkable Moulded Shapes

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Overview of Applications for Heat Shrink Tubing

When selecting the correct heat shrink tubing size, it is important to bear in mind the 80:20 rule. The heat shrink tubing must shrink by at least 20 % and not more than 80 % of its complete shrinkage capacity

to achieve the right result. In our overview of applications you will find the best heat shrink tube for every cable diameter. The 80:20 rule has of course been taken into account in the table.

Heat Shrinkable Tubing with a shrink ratio of 2:1

HFT-A, TL27, TF21, TF24, VITON®-E, TK20, TK29, TFE2, TR27, TCN20, SE28

Shrink ratio 2:1 Size mm		Cable/Wire Diameter
1.2/0.6		0.7 mm
		1.1 mm
3.2/1.6	2.4/1.2	1.4 mm
		1.9 mm
	4.8/2.4	2.2 mm
		2.9 mm
6.4/3.2	9.5/4.7	3.8 mm
		4.3 mm
		5.7 mm
12.7/6.4	19.1/9.5	5.8 mm
		7.7 mm
		8.6 mm
		11.4 mm
25.4/12.7	38.1/19.1	15.2 mm
		17.2 mm
		22.9 mm
50.8/25.4	76.2/38.1	30.5 mm
		34.3 mm
		45.7 mm
101.6/50.8		61.0 mm
		68.6 mm
		91.4 mm

Heat Shrinkable Tubing with a shrink ratio of 3:1

With the optimal shrink ratio of 3:1, you can cover a wide range of applications with just a few sizes. This leads to reduced stock expenditure and requires less space. 3:1 heat shrink tubes: TF34, TF31, EPS-300, TCN20 overexpanded, TA32, TA37

Shrink ratio 3:1 Size mm		Cable/Wire Diameter
1.5/0.5		0.7 mm
		1.3 mm
6/2	3/1	1.4 mm
		2.6 mm
		2.8 mm
18/6	12/4	5.2 mm
		5.6 mm
	24/8	8.4 mm
		10.4 mm
40/13		11.2 mm
		15.6 mm
		18.4 mm
		20.8 mm
		34.6 mm

Conversion from imperial to metric

Inch	1/32"	3/64"	1/16"	5/64"	3/32"	1/8"	3/16"	1/4"	3/8"
mm	0.8	1.2	1.6	2.0	2.4	3.2	4.8	6.4	9.5
Inch	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"	2"	3"	4"
mm	12.7	15.9	19.1	25.4	31.8	38.1	50.8	76.2	101.6

4:1 and 6:1 heat shrink tubing is able to shrink down to 1/4 or 1/6 of its original supplied diameter. The higher shrink ratio allows 4:1 and 6:1 tubing to cover a large substrate and enables the tubing

to fit over large objects, like connectors and shrink down onto much smaller cable jackets.

Heat Shrinkable Tubing with a shrink ratio of 4:1

TREDUX MA47, TREDUX HA47, TA42, TA46, EPS-400, MA40, MA47, MU47, LVRK, RMS, LVK, LVK-C, HA40, HA47, SA47-LA, TFE4

Shrink ratio 4:1 Size mm			Cable/Wire Diameter
4/1			1.6 mm
			3.2 mm
			3.4 mm
12/3	8/2		4.8 mm
			6.4 mm
	24/6		6.8 mm
			9.6 mm
			10.2 mm
32/8		16/4	12.8 mm
			13.6 mm
		52/13	20.4 mm
			20.8 mm
			27.2 mm
			44.2 mm

Heat Shrinkable Tubing with a shrink ratio of 6:1

HA67

Shrink ratio 6:1 Size mm				Cable/Wire Diameter
19.0/3.2				6.4 mm
				11.0 mm
				14.8 mm
				15.8 mm
50.8/8.3	33.0/5.5			16.8 mm
				23.3 mm
	88.9/17.1			27.5 mm
				31.5 mm
				37.0 mm
235/40	44.4/7.4			42.2 mm
				42.3 mm
	119.4/22.9			58.2 mm
				74.5 mm
				79.0 mm
				100.1 mm
				196.0 mm



The Right Heat Shrink Tube

The 80:20 rule means that a heat shrink tube should shrink by a maximum of 80% and a minimum of 20%.

For example:

A cable with a diameter of 5mm is to be wrapped in heat shrink tubing. In theory both sizes 6/2 and 12/4 would be suitable, since the required diameter of 5mm lies within the shrink range of both tube sizes.

Size 6/2

Maximum shrink (100 %)



Total shrinkage of 4 mm (6 mm – 2 mm)

Optimum shrinkage max. (80 %)



Shrinkage of 3.2 mm (4 mm x 0.8)

Optimum shrinkage min. (20 %)

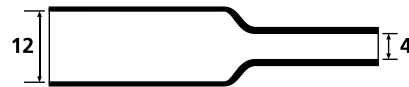


Shrinkage of 0.8 mm (4 mm x 0.2)

Size 6/2 has a range of application of between 2.8 mm and 5.2 mm and is therefore suitable for the cable diameter of 5 mm.

Size 12/4

Maximum shrink (100 %)



Shrinkage of 8 mm (12 mm – 4 mm)

Optimum shrinkage max. (80 %)



Shrinkage of 6.4 mm (8 mm x 0.8)

Optimum shrinkage min. (20 %)



Shrinkage of 1.6 mm (8 mm x 0.2)

The smallest application diameter of size 12/4 is 5.6 mm. This size is therefore unsuitable for a cable diameter of 5 mm.

Calculator tool for Heat Shrink Tubing

The calculator tool for heat shrink tubing is a selection guide for shrink tubing sizes based on the object to be covered. Fill in your specification and the calculator presents the right tubing size according to the 80:20 rule.

Find more information under www.HellermannTyton.co.uk/heatshrink-calculator!

The calculator tool also checks if the heat shrink tubing you have chosen is suitable for your application. For example you can find the heat shrink tubing with the Product Search on the www.HellermannTyton.co.uk website.

Heat Shrinkable Tubing Overview

TYPE	Packaging Type	Variant	Material	Shrink Ratio	Operating Temperature	Dimension (mm)	Halogen-free	Colour	Specifications	Page
ShrinKit 321 Basic		Thin-Wall	PO-X	3:1	-55 °C to +135 °C			Black		216
ShrinKit 321 Universal Basic			PO-X	3:1	-55 °C to +135 °C			Black, Blue, Green-Yellow, Red, White		217
ShrinKit 321 Universal			PO-X	3:1	-55 °C to +135 °C			Black, Blue, Green-Yellow, Red, Transparent		218
ShrinKit 321-A Basic		Thin-Wall Hot melt adhesive	PO-X	3:1	-55 °C to +110 °C			Black, Transparent		219
ShrinKit 321-A			PO-X	3:1	-55 °C to +110 °C			Black, Transparent		220
HIS-PACK		Thin-Wall	PO-X	2:1	-55 °C to +125 °C	1.2 - 25.4	HF ✓	Black, Blue, Green-Yellow, Red, Transparent	2, 3	221
HIS-3			PO-X	3:1	-55 °C to +135 °C	1.6 - 25.4	HF ✓	Black, Blue, Green-Yellow, Red, Transparent	2, 3	223
HIS-A		Thin-Wall Hot melt adhesive	PO-X	3:1	-55 °C to +125 °C	3.0 - 24.0	HF ✓	Black, Transparent	2, 3	225
HIS-3 BAG		Thin-Wall	PO-X	3:1	-55 °C to +135 °C	1.6 - 12.7		Black, Blue, Brown, Green-Yellow, Grey, Red, Transparent	2, 3	226
TREDUX			PO-X	2:1, 3:1	-55 °C to +135 °C	1.5 - 101.6		Black, Green-Yellow	2, 3, 9	229
TREDUX MA47		Medium-Wall Hot melt adhesive	PO-X	up to 4:1	-55 °C to +110 °C	12.0 - 95.0	HF ✓	Black		230
TREDUX HA47		Thick-Wall Hot melt adhesive	PO-X	up to 4:1	-55 °C to +110 °C	19.0 - 85.0	HF ✓	Black		231
LVR		Thin-Wall	PVC	2:1	-20 °C to +80 °C	2.4 - 25.4		Black	9	232
TL27			PO-X	2:1	-70 °C to +135 °C	1.2 - 50.8	HF ✓	Black		233
TCN20			PO-X	2:1	-55 °C to +125 °C	1.2 - 50.8		Black	2, 3	234
TCN20 overexpanded			PO-X	3:1	-55 °C to +125 °C	2.4 - 38.0		Black	2, 3	235

Heat Shrinkable Tubing Overview

TYPE	Packaging Type	Variant	Material	Shrink Ratio	Operating Temperature	Dimension (mm)	Halogen-free	Colour	Specifications	Page
HFT-A		Thin-Wall	PO-X	2:1	-55 °C to +135 °C	1.2 - 102.0		Black, Blue, Green-Yellow, Red, White, Yellow	3, 9, 10,11	236
TF21			PO-X	2:1	-55 °C to +135 °C	1.2 - 101.6		Black, Blue, Green-Yellow, Red, White, Yellow	2, 3, 5	239
TF24			PO-X	2:1	-55 °C to +135 °C	1.2 - 101.6	HF ✓	Transparent	10,11	242
TF31			PO-X	3:1	-55 °C to +135 °C	1.5 - 40.0		Black, Blue, Green, Green-Yellow, Red, White, Yellow	2, 3	243
TF34			PO-X	3:1	-55 °C to +135 °C	1.5 - 40.0	HF ✓	Transparent		246
TA32		Thin-Wall Hot melt adhesive	PO-X	3:1	-55 °C to +125 °C	3.0 - 40.0		Black	3, 9	247
TA42			PO-X	4:1	-55 °C to +125 °C	4.0 - 52.0		Black	9	248
TA46 Pre-cut tubing			PO-X	up to 4:1	-40 °C to +125 °C	5.75 - 18.30		Black		249
TA46 1.2m rods			PO-X	up to 4:1	-40 °C to +125 °C	5.75 - 52.00		Black		249
EPS-300			PO-X	3:1	-55 °C to +125 °C	3.0 - 40.0		Black		250
EPS-400		PO-X	4:1	-55 °C to +125 °C	4.0 - 32.0		Black		250	
MA40		Medium-Wall Hot melt adhesive	PO-X	up to 4:1	-55 °C to +110 °C	8.0 - 55.0		Black	4	251
MA47			PO-X	up to 4:1	-55 °C to +110 °C	8.0 - 140.0	HF ✓	Black		252
MU47		Medium-Wall	PO-X	up to 4:1	-55 °C to +110 °C	12.0 - 140.0	HF ✓	Black		254
LVRK-L		Shrink Cast	PO-X	4:1	-55 °C to +125 °C	24.0 - 24.0		Black		255
RMS		Shrink Cast Hot melt adhesive	PO-X	up to 4.5:1	-40 °C to +120 °C	43.0 - 185.0	HF ✓	Black		256

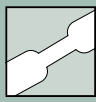
Heat Shrinkable Tubing Overview

TYPE	Packaging Type	Variant	Material	Shrink Ratio	Operating Temperature	Dimension (mm)	Halogen-free	Colour	Specifications	Page
LVK		Shrink Cast Hot melt adhesive	PO-X	up to 4:1	-55 °C to +110 °C		HF ✓	Black		257
LVK-C with connectors			PO-X	up to 4:1	-55 °C to +110 °C		HF ✓	Black		258
HA40		Thick-Wall Hot melt adhesive	PO-X	up to 4:1	-55 °C to +110 °C	9.0 - 92.0		Black	4	259
HA47			PO-X	up to 4:1	-55 °C to +110 °C	9.0 - 180.0	HF ✓	Black		260
HA67			PO-X	6:1	-55 °C to +110 °C	19.0 - 119.4	HF ✓	Black		261
TR27		Thin-Wall	PO-X	2:1	-40 °C to +105 °C, (+105 °C for 500 h)	3.2 - 50.8	HF ✓	Black	12	262
TA37		Thin-Wall Hot melt adhesive	PO-X	3:1	-40 °C to +105 °C, (+105 °C for 500 h)	3.2 - 120.0	HF ✓	Black	12	263
SA47-LA		Standard-Wall Hot melt adhesive	PO-X	4:1	-40 °C to +125 °C	5.75 - 52.0	HF ✓	Black, Transparent		264
SE28		Standard-Wall	POA	2:1	-75 °C to +150 °C	3.2 - 102.0		Black	10,11	265
TK20		Thin-Wall	PVDF	2:1	-55 °C to +175 °C	1.2 - 50.8		Transparent	9, 10,11	266
Viton®-E		Standard-Wall	FPMX	2:1	-55 °C to +200 °C	3.2 - 50.8		Black	6, 10,11	267
TFE2		Thin-Wall	PTFE	2:1	-65 °C to +260 °C	0.86 - 11.94		Transparent		268
TFE4			PTFE	4:1	-65 °C to +260 °C	1.98 - 31.80		Transparent		269

SPECIFICATION

1	2	3	4	5	6
7	8	9	10	11	12

Please refer to the Approvals Overview for further information, see page 579.



Heat shrinkable tubing 3:1 in a kit

ShrinkKit 321 Basic - 220 pcs. - black

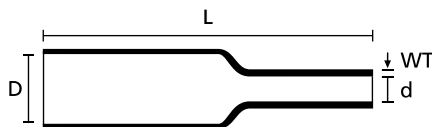
The compact and handy kit belongs to the basic equipment for every assembler. Its ideal shrink ratio of 3:1 replaces many differently sized tubing.

Features and benefits

- Compact and handy kit
- Black tubing
- Available in a wide size range of 1.5 mm to 18.0 mm
- 220 precut pieces in five sizes



ShrinkKit 321 Basic - 220 pcs 3:1 heat shrink assortment.



Heat Shrinkable Tubing 3:1

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	3:1
Operating Temperature	-55 °C to +135 °C
Min. Shrink Temperature	+90 °C
Longitudinal Change After Shrinkage	+5%/-10% max.
Dielectric Strength	20 kV/mm
Flammability	self-extinguishing
Insulation Class	B (VDE 0530)



COMP.	Supplied Ø D min.	Recov. Ø d max.	Length (L)	Wall (WT)	Colour	Content	Tools	Article-No.
1	1.5	0.5	35.0	0.45	Black (BK)	50 pcs.	30	380-03001
2	6.0	2.0	35.0	0.70	Black (BK)	30 pcs.		
3	3.0	1.0	35.0	0.55	Black (BK)	25 pcs.		
4	6.0	2.0	35.0	0.70	Black (BK)	15 pcs.		
5	6.0	2.0	35.0	0.70	Black (BK)	15 pcs.		
6	3.0	1.0	35.0	0.55	Black (BK)	25 pcs.		
7	1.5	0.5	35.0	0.45	Black (BK)	50 pcs.		
8	12.0	4.0	80.0	0.70	Black (BK)	5 pcs.		
8	18.0	6.0	80.0	0.80	Black (BK)	5 pcs.		

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
	30 H6100
	566

For more information on toolings please refer to the Application Tooling chapter.





Heat shrinkable tubing 3:1 in a kit

ShrinkKit 321 Universal Basic - 177 pcs. - coloured

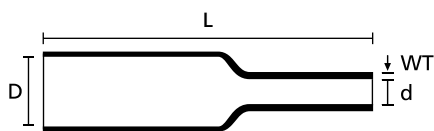
With ShrinkKit 321 HellermannTyton has set a new standard in heat shrink tubing: ShrinkKit tubings cover many applications with their ideal shrink ratio of 3:1.

Features and benefits

- Compact and handy kit
- Black and coloured tubing
- Available in a wide size range of 3 mm to 18.0 mm
- 177 precut pieces in five sizes



ShrinkKit 321 Universal Basic - 177 pcs 3:1 heat shrink assortment.



Heat Shrinkable Tubing 3:1

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	3:1
Operating Temperature	-55 °C to +135 °C
Min. Shrink Temperature	+90 °C
Longitudinal Change After Shrinkage	+5%/-10% max.
Dielectric Strength	20 kV/mm
Flammability	self-extinguishing
Insulation Class	B (VDE 0530)



COMP.	Supplied Ø D min.	Recov. Ø d max.	Length (L)	Wall (WT)	Colour	Content	Tools	Article-No.
1	12.0	4.0	35.0	0.70	Black (BK)	12 pcs.	30	380-03005
2	6.0	2.0	80.0	0.70	Blue (BU)	5 pcs.		
	6.0	2.0	80.0	0.70	Red (RD)	5 pcs.		
	6.0	2.0	80.0	0.70	White (WH)	5 pcs.		
	12.0	4.0	80.0	0.70	Black (BK)	2 pcs.		
	12.0	4.0	80.0	0.70	Blue (BU)	2 pcs.		
	12.0	4.0	80.0	0.70	Red (RD)	2 pcs.		
3	6.0	2.0	35.0	0.70	Blue (BU)	10 pcs.		
	6.0	2.0	35.0	0.70	Red (RD)	10 pcs.		
	6.0	2.0	35.0	0.70	White (WH)	10 pcs.		
4	9.0	3.0	35.0	0.70	Green-Yellow (GNYE)	15 pcs.		
5	9.0	3.0	35.0	0.70	Black (BK)	20 pcs.		
6	3.0	1.0	35.0	0.55	Black (BK)	10 pcs.		
	3.0	1.0	35.0	0.55	Blue (BU)	10 pcs.		
	3.0	1.0	35.0	0.55	Red (RD)	10 pcs.		
	3.0	1.0	35.0	0.55	White (WH)	10 pcs.		
7	6.0	2.0	35.0	0.70	Black (BK)	20 pcs.		
	6.0	2.0	35.0	0.70	Green-Yellow (GNYE)	10 pcs.		
8	18.0	6.0	160.0	0.80	Black (BK)	3 pcs.		
	18.0	6.0	160.0	0.80	Green-Yellow (GNYE)	3 pcs.		
	18.0	6.0	160.0	0.80	White (WH)	3 pcs.		

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.

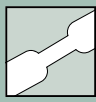
Recommended Tools	
	30 H6100
	566

For more information on toolings please refer to the Application Tooling chapter.



Add items to your watchlist!
www.HT.click/49-217





Heat shrinkable tubing 3:1 in a kit

ShrinKit 321 Universal - 975 pcs. - coloured

With ShrinKit 321 HellermannTyton has set a new standard in heat shrink tubing: ShrinKit tubings cover many applications with their ideal shrink ratio of 3:1.

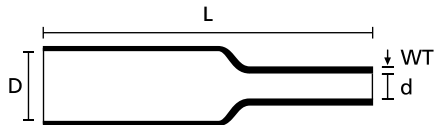
Features and benefits

- Wide range of sizes, colours and lengths
- For insulation, bend protection and identification
- Case can be re-used for storing nails, screws, nuts, fish hooks, etc.
- Compartment sizes changeable by simply moving yellow space dividers
- 975 precut pieces



ShrinKit 321 Universal - 975 pcs 3:1 heat shrink assortment.

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	3:1
Operating Temperature	-55 °C to +135 °C
Min. Shrink Temperature	+90 °C
Longitudinal Change After Shrinkage	+5%/-10% max.
Dielectric Strength	20 kV/mm
Flammability	self-extinguishing (except transparent)
Insulation Class	B (VDE 0530)



Heat Shrinkable Tubing 3:1



COMP.	Supplied Ø D min.	Recov. Ø d max.	Length (L)	Wall (WT)	Colour	Content	Tools	Article-No.
1	6.0	2.0	60.0	0.70	Black (BK)	50 pcs.	30	380-03002
2	12.0	4.0	100.0	0.70	Black (BK)	15 pcs.		
3	24.0	8.0	200.0	1.00	Black (BK)	10 pcs.		
4	6.0	2.0	60.0	0.70	Green-Yellow (GNYE)	50 pcs.		
5	3.0	1.0	50.0	0.55	Transparent (CL)	100 pcs.		
6	3.0	1.0	50.0	0.55	Black (BK)	100 pcs.		
7	12.0	4.0	100.0	0.70	Transparent (CL)	15 pcs.		
8	12.0	4.0	100.0	0.70	Red (RD)	15 pcs.		
9	3.0	1.0	50.0	0.55	Red (RD)	100 pcs.		
10	3.0	1.0	40.0	0.55	Blue (BU)	100 pcs.		
11	3.0	1.0	40.0	0.55	Green-Yellow (GNYE)	100 pcs.		
12	1.5	0.5	40.0	0.45	Black (BK)	75 pcs.		
	1.5	0.5	40.0	0.45	Green-Yellow (GNYE)	75 pcs.		
13	6.0	2.0	60.0	0.70	Blue (BU)	50 pcs.		
14	6.0	2.0	60.0	0.70	Red (RD)	50 pcs.		
15	6.0	2.0	60.0	0.70	Transparent (CL)	50 pcs.		
16	12.0	4.0	170.0	0.70	Green-Yellow (GNYE)	10 pcs.		
17	12.0	4.0	170.0	0.70	Blue (BU)	10 pcs.		

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.





Heat shrinkable tubing 3:1 in a kit

ShrinKit 321-A Basic - with adhesive liner - 130 pcs. - BK/CL

The black tubing is mainly used for environmental sealing of splices and connectors. The transparent tubing is typically used for protection of cable markers.

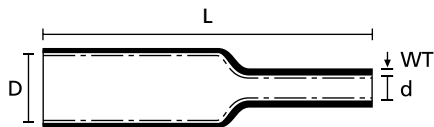
Features and benefits

- Adhesive lined heat shrink tubing
- Inner wall melts when heated and is forced into gaps
- Adhesive forms seal against moisture as tubing cools
- Black tubes mainly for the protection of connectors and splices
- Clear tubing ideal for protection of printed label markers
- 130 precut pieces in three sizes.



ShrinKit 321-A Basic - 130 pcs 3:1 dual wall heat shrink assortment.

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	3:1
Operating Temperature	-55 °C to +110 °C
Min. Shrink Temperature	+110 °C
Longitudinal Change After Shrinkage	+1%/-15% max.
Dielectric Strength	15 kV/mm
Flammability	self-extinguishing (except transparent)
Insulation Class	A (VDE 0530)



Heat Shrinkable Tubing 3:1 with adhesive



COMP.	Supplied Ø D min.	Recov. Ø d max.	Length (L)	Wall (WT)	Colour	Content	Tools	Article-No.
1	3.0	1.0	35.0	1.00	Black (BK)	25 pcs.	30	380-03004
2	12.0	4.0	35.0	1.70	Black (BK)	10 pcs.		
3	3.0	1.0	35.0	1.00	Transparent (CL)	25 pcs.		
4	6.0	2.0	35.0	1.10	Black (BK)	15 pcs.		
5	6.0	2.0	35.0	1.10	Transparent (CL)	15 pcs.		
6	6.0	2.0	35.0	1.10	Transparent (CL)	15 pcs.		
7	6.0	2.0	35.0	1.10	Black (BK)	15 pcs.		
8	12.0	4.0	80.0	1.70	Black (BK)	5 pcs.		
	12.0	4.0	80.0	1.70	Transparent (CL)	5 pcs.		

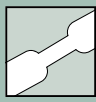
All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
	30 H6100
	566

For more information on toolings please refer to the Application Tooling chapter.



Add items to your watchlist!
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Heat shrinkable tubing 3:1 in a kit

ShrinkKit 321-A - with adhesive liner - 210 pcs. - BK/CL

The black tubing is mainly used for environmental sealing of splices and connectors. The transparent tubing is typically used for protection of cable markers.

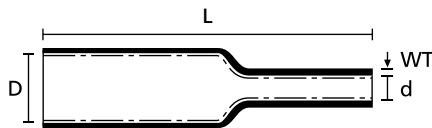
Features and benefits

- Adhesive lined heat shrink tubing
- Inner wall melts when heated and is forced into gaps
- Adhesive forms seal against moisture as tubing cools
- Black tubing mainly for the protection of connectors and splices
- Clear tubing ideal for protection of printed label markers
- Case can be re-used for storing nails, screws, nuts, fish hooks, etc.
- Compartment size changeable by simply moving yellow space dividers
- 210 precut pieces



ShrinkKit 321-A - 210 pcs 3:1 dual wall heat shrink assortment.

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	3:1
Operating Temperature	-55 °C to +110 °C
Min. Shrink Temperature	+110 °C
Longitudinal Change After Shrinkage	+1%/-15% max.
Dielectric Strength	15 kV/mm
Flammability	self-extinguishing (except transparent)
Insulation Class	A (VDE 0530)



Heat Shrinkable Tubing 3:1 with adhesive



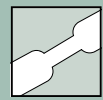
COMP.	Supplied Ø D min.	Recov. Ø d max.	Length (L)	Wall (WT)	Colour	Content	Tools	Article-No.
1	24.0	8.0	200.0	2.50	Black (BK)	5 pcs.	30	380-03003
2	12.0	4.0	65.0	1.70	Transparent (CL)	15 pcs.		
3	6.0	2.0	50.0	1.10	Black (BK)	20 pcs.		
	6.0	2.0	50.0	1.10	Transparent (CL)	20 pcs.		
4	12.0	4.0	65.0	1.70	Black (BK)	15 pcs.		
5	3.0	1.0	50.0	1.00	Black (BK)	50 pcs.		
	3.0	1.0	50.0	1.00	Transparent (CL)	50 pcs.		
6	6.0	2.0	35.0	1.10	Black (BK)	30 pcs.		
	6.0	2.0	35.0	1.10	Transparent (CL)	30 pcs.		
7	24.0	8.0	200.0	2.50	Transparent (CL)	5 pcs.		
8	12.0	4.0	100.0	1.70	Black (BK)	15 pcs.		
9	12.0	4.0	100.0	1.70	Black (BK)	15 pcs.		
10	12.0	4.0	100.0	1.70	Transparent (CL)	15 pcs.		
11	3.0	1.0	40.0	1.00	Black (BK)	50 pcs.		
	3.0	1.0	40.0	1.00	Transparent (CL)	50 pcs.		

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
	30 H6100
	566

For more information on toolings please refer to the Application Tooling chapter.





Heat Shrinkable Tubing 2:1 on a Reel

HIS-PACK

HIS-PACK is used in general purpose of electrical insulation with a high level of protection against corrosion and mechanical abrasion.

Features and benefits

- Cross-linked Polyolefin, thin-wall and flexible
- Handy dispenser box including table showing application size range
- Available in black, red, blue, transparent and yellow/green
- 10 sizes from 1.2 mm to 25.4 mm
- Transparent color is halogen free



HIS-Pack.

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	2:1
Operating Temperature	-55 °C to +125 °C
Min. Shrink Temperature	+100 °C
Longitudinal Change After Shrinkage	+/-5%
Dielectric Strength	20 kV/mm
Flammability	self-extinguishing (except transparent), UL 224 VW-1 (except transparent)

RoHS

TYPE	Supplied Ø D min.	Size (imperial)	Recov. Ø d max.	Wall (WT)	Reel Length	Colour	Tools	Article-No.
HIS-PACK-1.2/0.6	1.2	3/64 "	0.6	0.40	10 m	Black (BK)	30	300-30120
	1.2	3/64 "	0.6	0.40	10 m	Blue (BU)	30	300-30126
	1.2	3/64 "	0.6	0.40	10 m	Red (RD)	30	300-30122
	1.2	3/64 "	0.6	0.40	10 m	Transparent (CL)	30	300-30123
HIS-PACK-1.6/0.8	1.6	1/16 "	0.8	0.40	10 m	Black (BK)	30	300-30160
	1.6	1/16 "	0.8	0.40	10 m	Blue (BU)	30	300-30166
	1.6	1/16 "	0.8	0.40	10 m	Red (RD)	30	300-30162
	1.6	1/16 "	0.8	0.40	10 m	Transparent (CL)	30	300-30163
HIS-PACK-2.4/1.2	2.4	3/32 "	1.2	0.50	10 m	Black (BK)	30	300-30240
	2.4	3/32 "	1.2	0.50	10 m	Blue (BU)	30	300-30246
	2.4	3/32 "	1.2	0.50	10 m	Red (RD)	30	300-30242
	2.4	3/32 "	1.2	0.50	10 m	Transparent (CL)	30	300-30243
HIS-PACK-3.2/1.6	3.2	1/8 "	1.6	0.50	10 m	Black (BK)	30	300-30320
	3.2	1/8 "	1.6	0.50	10 m	Blue (BU)	30	300-30326
	3.2	1/8 "	1.6	0.50	10 m	Green-Yellow (GNYE)	30	300-30327
	3.2	1/8 "	1.6	0.50	10 m	Red (RD)	30	300-30322
	3.2	1/8 "	1.6	0.50	10 m	Transparent (CL)	30	300-30323

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.



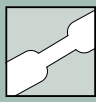
For product specific approvals and specifications please refer to the Appendix.



Add items to your watchlist!

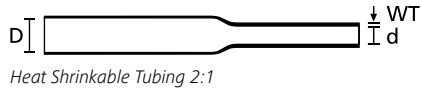
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Heat Shrinkable Tubing 2:1 on a Reel

HIS-PACK



TYPE	Supplied Ø D min.	Size (imperial)	Recov. Ø d max.	Wall (WT)	Reel Length	Colour	Tools	Article-No.
HIS-PACK-4.8/2.4	4.8	3/16 "	2.4	0.50	10 m	Black (BK)	30	300-30480
	4.8	3/16 "	2.4	0.50	10 m	Blue (BU)	30	300-30486
	4.8	3/16 "	2.4	0.50	10 m	Green-Yellow (GNYE)	30	300-30487
	4.8	3/16 "	2.4	0.50	10 m	Red (RD)	30	300-30482
	4.8	3/16 "	2.4	0.50	10 m	Transparent (CL)	30	300-30483
HIS-PACK-6.4/3.2	6.4	1/4 "	3.2	0.60	5 m	Black (BK)	30	300-30640
	6.4	1/4 "	3.2	0.60	5 m	Blue (BU)	30	300-30646
	6.4	1/4 "	3.2	0.60	5 m	Green-Yellow (GNYE)	30	300-30647
	6.4	1/4 "	3.2	0.60	5 m	Red (RD)	30	300-30642
	6.4	1/4 "	3.2	0.60	5 m	Transparent (CL)	30	300-30643
HIS-PACK-9.5/4.7	9.5	3/8 "	4.7	0.60	5 m	Black (BK)	30	300-30950
	9.5	3/8 "	4.7	0.60	5 m	Blue (BU)	30	300-30956
	9.5	3/8 "	4.7	0.60	5 m	Green-Yellow (GNYE)	30	300-30957
	9.5	3/8 "	4.7	0.60	5 m	Red (RD)	30	300-30952
	9.5	3/8 "	4.7	0.60	5 m	Transparent (CL)	30	300-30953
HIS-PACK-12.7/6.4	12.7	1/2 "	6.4	0.60	5 m	Black (BK)	30	300-31270
	12.7	1/2 "	6.4	0.60	5 m	Blue (BU)	30	300-31276
	12.7	1/2 "	6.4	0.60	5 m	Green-Yellow (GNYE)	30	300-31277
	12.7	1/2 "	6.4	0.60	5 m	Red (RD)	30	300-31272
	12.7	1/2 "	6.4	0.60	5 m	Transparent (CL)	30	300-31273
HIS-PACK-19.1/9.5	19.1	3/4 "	9.5	0.80	5 m	Black (BK)	30	300-31900
	19.1	3/4 "	9.5	0.80	5 m	Blue (BU)	30	300-31906
	19.1	3/4 "	9.5	0.80	5 m	Green-Yellow (GNYE)	30	300-31907
	19.1	3/4 "	9.5	0.80	5 m	Red (RD)	30	300-31902
	19.1	3/4 "	9.5	0.80	5 m	Transparent (CL)	30	300-31903
HIS-PACK-25.4/12.7	25.4	1 "	12.7	0.90	5 m	Black (BK)	30	300-32540
	25.4	1 "	12.7	0.90	5 m	Blue (BU)	30	300-32546
	25.4	1 "	12.7	0.90	5 m	Green-Yellow (GNYE)	30	300-32547
	25.4	1 "	12.7	0.90	5 m	Red (RD)	30	300-32542
	25.4	1 "	12.7	0.90	5 m	Transparent (CL)	30	300-32543

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
	30 H6100
	566

For more information on toolings please refer to the Application Tooling chapter.



For product specific approvals and specifications please refer to the Appendix.





Heat Shrinkable Tubing 3:1 on a Reel

HIS-3

HIS-3 is used in general purpose of electrical insulation with a high level of protection against mechanical abrasion.

Features and benefits

- Unlined tubing in handy dispenser packs
- High shrink ratio 3:1
- Fits highly variable cable dimensions
- Only 7 sizes for application diameter range of 1 mm up to 20 mm, reduce inventory by half
- Transparent color is halogen free



HIS-3 can fit highly variable substrate dimensions.

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	3:1
Operating Temperature	-55 °C to +135 °C
Min. Shrink Temperature	+100 °C
Longitudinal Change After Shrinkage	+/-5%
Dielectric Strength	32 kV/mm
Flammability	self-extinguishing (except transparent), UL 224 VW-1 (except transparent)
Insulation Class	B (VDE 0530)



Heat Shrinkable Tubing 3:1

RoHS

TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Length (L)	Reel Length	Colour	Tools	Article-No.
HIS-3-1.5/0.5	1.6	0.5	0.45	10.0 m	10 m	Black (BK)	30	308-30150
	1.6	0.5	0.45	10.0 m	10 m	Blue (BU)	30	308-30156
	1.6	0.5	0.45	10.0 m	10 m	Red (RD)	30	308-30152
	1.6	0.5	0.45	10.0 m	10 m	Transparent (CL)	30	308-30153
HIS-3-3/1	3.2	1.0	0.55	10.0 m	10 m	Black (BK)	30	308-30300
	3.2	1.0	0.55	10.0 m	10 m	Blue (BU)	30	308-30306
	3.2	1.0	0.55	10.0 m	10 m	Green-Yellow (GNYE)	30	308-30307
	3.2	1.0	0.55	10.0 m	10 m	Red (RD)	30	308-30302
	3.2	1.0	0.55	10.0 m	10 m	Transparent (CL)	30	308-30303
HIS-3-6/2	6.4	2.0	0.65	5.0 m	5 m	Black (BK)	30	308-30600
	6.4	2.0	0.65	5.0 m	5 m	Blue (BU)	30	308-30606
	6.4	2.0	0.65	5.0 m	5 m	Green-Yellow (GNYE)	30	308-30607
	6.4	2.0	0.65	5.0 m	5 m	Red (RD)	30	308-30602
	6.4	2.0	0.65	5.0 m	5 m	Transparent (CL)	30	308-30603

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.



For product specific approvals and specifications please refer to the Appendix.



Add items to your watchlist!
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Heat Shrinkable Tubing 3:1 on a Reel

HIS-3


TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Length (L)	Reel Length	Colour	Tools	Article-No.
HIS-3-9/3	9.5	3.0	0.75	5.0 m	5 m	Black (BK)	30	308-30900
	9.5	3.0	0.75	5.0 m	5 m	Blue (BU)	30	308-30906
	9.5	3.0	0.75	5.0 m	5 m	Green-Yellow (GNYE)	30	308-30907
	9.5	3.0	0.75	5.0 m	5 m	Red (RD)	30	308-30902
	9.5	3.0	0.75	5.0 m	5 m	Transparent (CL)	30	308-30903
HIS-3-12/4	12.7	4.0	0.80	5.0 m	5 m	Black (BK)	30	308-31200
	12.7	4.0	0.80	5.0 m	5 m	Blue (BU)	30	308-31206
	12.7	4.0	0.80	5.0 m	5 m	Green-Yellow (GNYE)	30	308-31207
	12.7	4.0	0.80	5.0 m	5 m	Red (RD)	30	308-31202
	12.7	4.0	0.80	5.0 m	5 m	Transparent (CL)	30	308-31203
HIS-3-18/6	19.1	6.0	0.90	4.0 m	4 m	Black (BK)	30	308-31800
	19.1	6.0	0.90	4.0 m	4 m	Blue (BU)	30	308-31806
	19.1	6.0	0.90	4.0 m	4 m	Green-Yellow (GNYE)	30	308-31807
	19.1	6.0	0.90	4.0 m	4 m	Red (RD)	30	308-31802
	19.1	6.0	0.90	4.0 m	4 m	Transparent (CL)	30	308-31803
HIS-3-24/8	25.4	8.0	1.00	3.0 m	3 m	Black (BK)	30	308-32400
	25.4	8.0	1.00	3.0 m	3 m	Blue (BU)	30	308-32406
	25.4	8.0	1.00	3.0 m	3 m	Green-Yellow (GNYE)	30	308-32407
	25.4	8.0	1.00	3.0 m	3 m	Red (RD)	30	308-32402
	25.4	8.0	1.00	3.0 m	3 m	Transparent (CL)	30	308-32403

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
	30 H6100
	566

For more information on toolings please refer to the Application Tooling chapter.



For product specific approvals and specifications please refer to the Appendix.





Heat shrinkable tubing 3:1 on a reel

HIS-A - with adhesive liner

HIS-A forms a seal against moisture and protects against corrosion and mechanical abrasion.

Features and benefits

- Adhesive lined heat shrink tubing
- Inner wall melts when heated and is forced into gaps
- Adhesive forms seal against moisture as tubing cools
- Protects components
- Available in black and transparent
- 6 sizes for wide range of applications



HIS-A - with adhesive liner.

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	3:1
Operating Temperature	-55 °C to +125 °C
Min. Shrink Temperature	+100 °C
Longitudinal Change After Shrinkage	-10% max.
Softening Point Adhesive	+85 °C
Dielectric Strength	24 kV/mm
Flammability	self-extinguishing (except transparent), UL 224 VW-1 (except transparent)
Insulation Class	A (VDE 0530)



Heat Shrinkable Tubing 3:1 with adhesive



TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Reel Length	Colour	Tools	Article-No.
HIS-A-3/1	3.0	1.0	1.00	10 m	Black (BK)	30	308-10300
	3.0	1.0	1.00	10 m	Transparent (CL)	30	308-10303
HIS-A-6/2	6.0	2.0	1.00	5 m	Black (BK)	30	308-10600
	6.0	2.0	1.00	5 m	Transparent (CL)	30	308-10603
HIS-A-9/3	9.0	3.0	1.00	5 m	Black (BK)	30	308-10900
	9.0	3.0	1.00	5 m	Transparent (CL)	30	308-10903
HIS-A-12/4	12.0	4.0	1.65	5 m	Black (BK)	30	308-11200
	12.0	4.0	1.65	5 m	Transparent (CL)	30	308-11203
HIS-A-18/6	19.0	6.0	2.10	4 m	Black (BK)	30	308-11800
	19.0	6.0	2.10	4 m	Transparent (CL)	30	308-11803
HIS-A-24/8	24.0	8.0	2.35	3 m	Black (BK)	30	308-12400
	24.0	8.0	2.35	3 m	Transparent (CL)	30	308-12403

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
	30 H6100
	566

For more information on toolings please refer to the Application Tooling chapter.



For product specific approvals and specifications please refer to the Appendix.



Add items to your watchlist!

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Heat Shrinkable Tubing 3:1 in blister bags

HIS-3 BAG

HIS-3 BAG tubings are useable for insulation and protection of cables and harnesses.

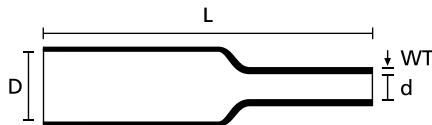
Features and benefits

- Thin wall and flexible tubing made of cross-linked Polyolefin
- High shrink ratio 3:1
- Handy, small packaging with 10 pre-cut pieces of 200 mm
- Fits highly variable cable diameters



HIS-3 BAG available in seven colours and four sizes.

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	3:1
Operating Temperature	-55 °C to +135 °C
Min. Shrink Temperature	+100 °C
Longitudinal Change After Shrinkage	+/-5%
Dielectric Strength	32 kV/mm
Flammability	self-extinguishing (except transparent), UL 224 VW-1 (except transparent)



Heat Shrinkable Tubing 3:1



TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Length (L)	Pack Cont.	Colour	Tools	Article-No.
HIS-3-BAG-1.5/0.5	1.6	0.5	0.45	200.0	10 pcs.	Black (BK)	30	308-30151
	1.6	0.5	0.45	200.0	10 pcs.	Blue (BU)	30	308-30161
	1.6	0.5	0.45	200.0	10 pcs.	Brown (BN)	30	308-30163
	1.6	0.5	0.45	200.0	10 pcs.	Green-Yellow (GNYE)	30	308-30165
	1.6	0.5	0.45	200.0	10 pcs.	Grey (GY)	30	308-30162
	1.6	0.5	0.45	200.0	10 pcs.	Red (RD)	30	308-30160
	1.6	0.5	0.45	200.0	10 pcs.	Transparent (CL)	30	308-30164
HIS-3-BAG-3/1	3.2	1.0	0.55	200.0	10 pcs.	Black (BK)	30	308-30310
	3.2	1.0	0.55	200.0	10 pcs.	Blue (BU)	30	308-30312
	3.2	1.0	0.55	200.0	10 pcs.	Brown (BN)	30	308-30314
	3.2	1.0	0.55	200.0	10 pcs.	Green-Yellow (GNYE)	30	308-30316
	3.2	1.0	0.55	200.0	10 pcs.	Grey (GY)	30	308-30313
	3.2	1.0	0.55	200.0	10 pcs.	Red (RD)	30	308-30311
	3.2	1.0	0.55	200.0	10 pcs.	Transparent (CL)	30	308-30315

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



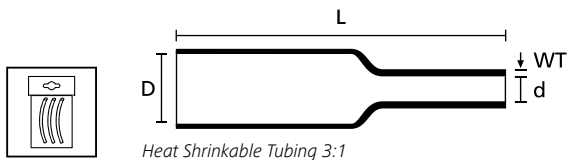
For product specific approvals and specifications please refer to the Appendix.





Heat Shrinkable Tubing 3:1 in blister bags

HIS-3 BAG



TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Length (L)	Pack Cont.	Colour	Tools	Article-No.
HIS-3-BAG-6/2	6.4	2.0	0.65	200.0	10 pcs.	Black (BK)	30	308-30610
	6.4	2.0	0.65	200.0	10 pcs.	Blue (BU)	30	308-30612
	6.4	2.0	0.65	200.0	10 pcs.	Brown (BN)	30	308-30614
	6.4	2.0	0.65	200.0	10 pcs.	Grey (GY)	30	308-30613
	6.4	2.0	0.65	200.0	10 pcs.	Red (RD)	30	308-30611
	6.4	2.0	0.65	200.0	10 pcs.	Transparent (CL)	30	308-30615
	6.4	2.0	0.65	200.0	10 pcs.	Green-Yellow (GNYE)	30	308-30617
HIS-3-BAG-12/4	12.7	4.0	0.80	200.0	10 pcs.	Black (BK)	30	308-31210
	12.7	4.0	0.80	200.0	10 pcs.	Blue (BU)	30	308-31212
	12.7	4.0	0.80	200.0	10 pcs.	Brown (BN)	30	308-31214
	12.7	4.0	0.80	200.0	10 pcs.	Grey (GY)	30	308-31213
	12.7	4.0	0.80	200.0	10 pcs.	Red (RD)	30	308-31211
	12.7	4.0	0.80	200.0	10 pcs.	Transparent (CL)	30	308-31215
	12.7	4.0	0.80	200.0	10 pcs.	Green-Yellow (GNYE)	30	308-31217

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
	30 H6100
	566

For more information on toolings please refer to the Application Tooling chapter.

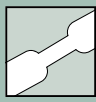


For product specific approvals and specifications please refer to the Appendix.



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Point of sale display for TREDUX

TREDUX-Display

With TREDUX HellermannTyton has set a new standard in heat shrink tubing. TREDUX offers a complete range of thin, medium and thick wall tubing cut into 1 meter length. All tubing are labeled with an EAN barcode securely packed in display boxes. They can be removed individually for occasional use in smaller quantities. With the practical, valuable metal point of sale display is an optimal product presentation guaranteed. The following table is a proposed content for a TREDUX-Display.

Features and benefits

- Complete range of thin, medium- and thick wall heatshrink tubing in one display
- All tubings can be sold in single 1 meter length or entire carton
- Pick of single tube possible allowing job specific purchasing
- Optimised stock based on usage based display content
- Holder for end user brochures available attached to display



The TREDUX-Display.



TYPE	Content	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Pack Cont.	Colour	Tools	Article-No.
TREDUX-Display								
TREDUX-Display	-	-	-	-	1 pc.	Blue (BU)	30	319-30000
TREDUX - thin wall								
TREDUX-1.5/0.5	1	1.5	0.5	0.45	20 pcs.	Black (BK)	30	319-00150
TREDUX-3/1	1	3.0	1.0	0.55	20 pcs.	Green-Yellow (GNYE)	30	319-00307
TREDUX-6/2	1	6.0	2.0	0.65	15 pcs.	Green-Yellow (GNYE)	30	319-00607
TREDUX-12/4	1	12.0	4.0	0.80	10 pcs.	Green-Yellow (GNYE)	30	319-01207
TREDUX-24/8	1	24.0	8.0	1.20	5 pcs.	Black (BK)	30	319-02400
TREDUX-3/1	2	3.0	1.0	0.55	20 pcs.	Black (BK)	30	319-00300
TREDUX-6/2	2	6.0	2.0	0.65	15 pcs.	Black (BK)	30	319-00600
TREDUX-12/4	4	12.0	4.0	0.80	10 pcs.	Black (BK)	30	319-01200
TREDUX MA47 medium wall - with adhesive liner								
TREDUX-MA47-19/6	1	19.0	6.0	2.40	10 pcs.	Black (BK)	30;32	323-50190
TREDUX-MA47-40/12	1	40.0	12.0	2.50	4 pcs.	Black (BK)	30;32	323-50400
TREDUX-MA47-30/8	2	30.0	8.0	2.60	6 pcs.	Black (BK)	30;32	323-50300
TREDUX HA47 thick wall - with adhesive liner								
TREDUX-HA47-19/6	1	19.0	6.0	2.70	10 pcs.	Black (BK)	32	321-50190
TREDUX-HA47-33/8	1	33.0	8.0	3.20	5 pcs.	Black (BK)	32	321-50330
TREDUX-HA47-45/12	1	45.0	12.0	4.10	4 pcs.	Black (BK)	32	321-50450

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools		
	30	32
	H6100	CHG900
	566	565

For more information on toolings please refer to the Application Tooling chapter.



Add items to your watchlist!

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Heat shrinkable tubing up to 3:1 - 1 m lengths

TREDUX - thin wall

TREDUX thin wall heat shrink tubing is used for general electrical insulation and mechanical protection of cables and wires.

Features and benefits

- Thin wall, flexible, cross-linked polyolefin tubing
- 1m shrink tubing lengths delivered in handy display carton
- 9 sizes from 1.5 mm to 101.6 mm
- All tubings can be sold in single 1 meter length or entire box



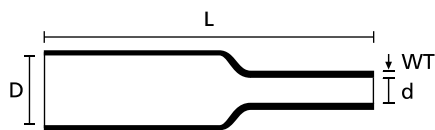
TREDUX shrinks a maximum of 3:1.



**More colours on request.
Please contact us.**

MATERIAL	Polyolefin, cross-linked (PO-X)	
Shrink Ratio	2:1	3:1
Operating Temperature	-55 °C to +135 °C	
Min. Shrink Temperature	+70 °C	
Longitudinal Change After Shrinkage	+/-5%	
Dielectric Strength	20 kV/mm	
Flammability	self-extinguishing, UL 224 VW-1	

RoHS



Heat Shrinkable Tubing 3:1



Heat Shrinkable Tubing 2:1

TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Length (L)	Pack Cont.	Colour	Shrink Ratio	Tools	Article-No.
TREDUX-1.5/0.5	1.5	0.5	0.45	1.0 m	20 pcs.	Black (BK)	3:1	30	319-00150
	1.5	0.5	0.45	1.0 m	20 pcs.	Green-Yellow (GNYE)	3:1	30	319-00157
TREDUX-3/1	3.0	1.0	0.55	1.0 m	20 pcs.	Black (BK)	3:1	30	319-00300
	3.0	1.0	0.55	1.0 m	20 pcs.	Green-Yellow (GNYE)	3:1	30	319-00307
TREDUX-6/2	6.0	2.0	0.65	1.0 m	15 pcs.	Black (BK)	3:1	30	319-00600
	6.0	2.0	0.65	1.0 m	15 pcs.	Green-Yellow (GNYE)	3:1	30	319-00607
TREDUX-12/4	12.0	4.0	0.80	1.0 m	10 pcs.	Black (BK)	3:1	30	319-01200
	12.0	4.0	0.80	1.0 m	10 pcs.	Green-Yellow (GNYE)	3:1	30	319-01207
TREDUX-24/8	24.0	8.0	1.20	1.0 m	5 pcs.	Black (BK)	3:1	30	319-02400
	24.0	8.0	1.20	1.0 m	5 pcs.	Green-Yellow (GNYE)	3:1	30	319-02407
TREDUX-38.1/19.1	38.1	19.1	1.02	1.0 m	6 pcs.	Black (BK)	2:1	30	319-03800
	38.1	19.1	1.02	1.0 m	6 pcs.	Green-Yellow (GNYE)	2:1	30	319-03807
TREDUX-50.8/25.4	50.8	25.4	1.14	1.0 m	6 pcs.	Black (BK)	2:1	30	319-05100
TREDUX-76.2/38.1	76.2	38.1	1.27	1.0 m	3 pcs.	Black (BK)	2:1	30	319-07600
TREDUX-101.6/50.8	101.6	50.8	1.40	1.0 m	2 pcs.	Black (BK)	2:1	30	319-10200

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.

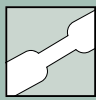


For product specific approvals and specifications please refer to the Appendix.



Add items to your watchlist!

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Heat Shrinkable Tubing up to 4:1 - 1 m lengths

TREDUX MA47 medium wall - with adhesive liner

Suitable for insulation and protection of low voltage cable joints and terminations.

Features and benefits

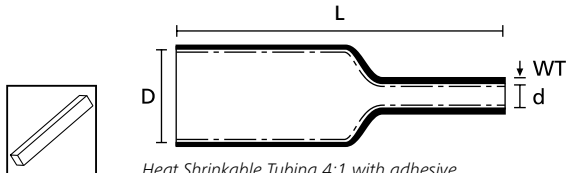
- Medium wall heat shrink tubing
- Thermoplastic adhesive liner for protection from moisture and weathering
- 1 m shrink tubing lengths delivered in handy display carton
- All tubes can be sold in single 1 meter lengths or entire box



TREDUX MA47 in handy display carton.



www.HellermannTyton.co.uk/Tredux-cat22



Heat Shrinkable Tubing 4:1 with adhesive

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	up to 4:1
Operating Temperature	-55 °C to +110 °C
Softening Point Adhesive	+85 °C
Min. Shrink Temperature	+120 °C
Longitudinal Change After Shrinkage	-10% max.
Dielectric Strength	15 kV/mm
Flammability	not flame-retardant
Insulation Class	A (VDE 0530)



TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Length (L)	Pack Cont.	Colour	Tools	Article-No.
TREDUX-MA47-12/3	12.0	3.0	2.00	1.0 m	6 pcs.	Black (BK)	30;32	323-50120
TREDUX-MA47-19/6	19.0	6.0	2.40	1.0 m	10 pcs.	Black (BK)	30;32	323-50190
TREDUX-MA47-30/8	30.0	8.0	2.60	1.0 m	6 pcs.	Black (BK)	30;32	323-50300
TREDUX-MA47-40/12	40.0	12.0	2.50	1.0 m	4 pcs.	Black (BK)	30;32	323-50400
TREDUX-MA47-50/16	50.0	16.0	2.70	1.0 m	2 pcs.	Black (BK)	30;32	323-50500
TREDUX-MA47-63/19	63.0	19.0	2.80	1.0 m	2 pcs.	Black (BK)	30;32	323-50630
TREDUX-MA47-75/22	75.0	22.0	3.00	1.0 m	2 pcs.	Black (BK)	30;32	323-50750
TREDUX-MA47-95/30	95.0	30.0	3.00	1.0 m	1 pc.	Black (BK)	30;32	323-50950

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools		
	30	32
	H6100	CHG900
	566	565

For more information on toolings please refer to the Application Tooling chapter.





Heat Shrinkable Tubing up to 3,5:1 - 1 m lengths

TREDUX HA47 thick wall - with adhesive liner

The toughness and weatherability make TREDUX thick wall tubing suitable for exposed applications and underground cable joints.

Features and benefits

- Thick wall polyolefin adhesive-lined tubing
- 1 m shrink tubing lengths delivered in handy display carton
- All tubes can be sold in single 1 meter lengths or entire box



TREDUX HA47 - application below ground.

MATERIAL	Polyolefin, Chemically cross-linked (PO-X)
Shrink Ratio	up to 4:1
Operating Temperature	-55 °C to +110 °C
Min. Shrink Temperature	+120 °C
Softening Point Adhesive	+85 °C
Longitudinal Change After Shrinkage	-10% max.
Dielectric Strength	20 kV/mm
Flammability	not flame-retardant



Heat Shrinkable Tubing 4:1 with adhesive

TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Length (L)	Pack Cont.	Colour	Tools	Article-No.
TREDUX-HA47-19/6	19.0	6.0	2.70	1.0 m	10 pcs.	Black (BK)	32	321-50190
TREDUX-HA47-33/8	33.0	8.0	3.20	1.0 m	5 pcs.	Black (BK)	32	321-50330
TREDUX-HA47-45/12	45.0	12.0	4.10	1.0 m	4 pcs.	Black (BK)	32	321-50450
TREDUX-HA47-51/16	51.0	16.0	4.10	1.0 m	2 pcs.	Black (BK)	32	321-50510
TREDUX-HA47-68/22	68.0	22.0	4.10	1.0 m	1 pc.	Black (BK)	32	321-50680
TREDUX-HA47-85/25	85.0	25.4	4.30	1.0 m	1 pc.	Black (BK)	32	321-50850

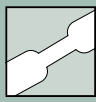
All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
	32 CHG900
	565

For more information on toolings please refer to the Application Tooling chapter.



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Heat shrinkable tubing 2:1 - PVC

LVR

LVR can be used for cable joints, low voltage bus bars and batteries.

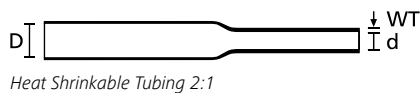
Features and benefits

- PVC heat shrinkable tubing
- Self-extinguishing
- Good chemical resistance and mechanical protection



LVR used for mechanical protection.

MATERIAL	Flexible Polyvinyl Chloride, cadmium free (PVC)
Shrink Ratio	2:1
Operating Temperature	-30 °C to +105 °C
Min. Shrink Temperature	+80 °C
Longitudinal Change After Shrinkage	+/-10% max
Dielectric Strength	22 kV/mm
Shelf Life	12 Months max.
Storage Temperature	+25 °C max.
Flammability	self-extinguishing, UL 224 VW-1



TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Reel Length	Colour	Tools	Article-No.
LVR-2.4/1.2	2.4	1.2	0.40	250 m	Black (BK)	30	344-00240
LVR-3.2/1.6	3.2	1.6	0.40	250 m	Black (BK)	30	344-00320
LVR-4.8/2.4	4.8	2.4	0.50	250 m	Black (BK)	30	344-00480
LVR-6.4/3.2	6.4	3.2	0.60	250 m	Black (BK)	30	344-00640
LVR-9.5/4.8	9.5	4.8	0.60	125 m	Black (BK)	30	344-00950
LVR-12.7/6.4	12.7	6.4	0.70	75 m	Black (BK)	30	344-01270
LVR-19.1/9.5	19.0	9.5	0.80	100 m	Black (BK)	30	344-01900
LVR-25.4/12.7	25.4	12.7	1.00	100 m	Black (BK)	30	344-02540

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
	30 H6100
	566

For more information on toolings please refer to the Application Tooling chapter.



For product specific approvals and specifications please refer to the Appendix.





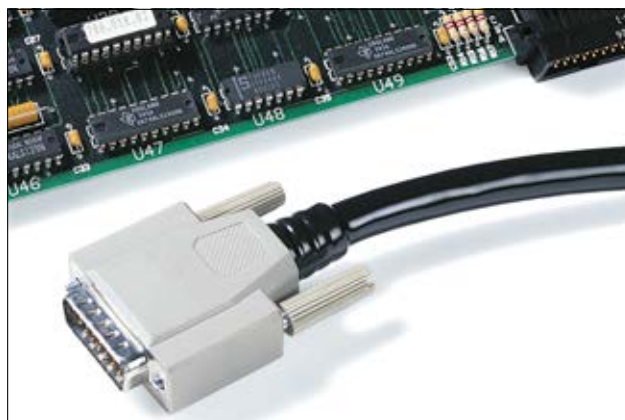
Low-Heat Shrinkable Tubing 2:1

TL27 - halogen free

The product has a low shrink temperature which offers very fast recovery. Application fields include covering of heat sensitive parts, mechanical protection and cosmetic covering.

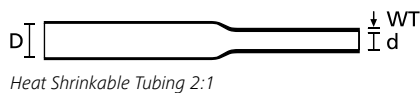
Features and benefits

- Very low shrink temperature
- Fast shrinking
- Halogen free



TL27 – a very flexible tubing for automotive or applications where halogens cannot be accepted.

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	2:1
Operating Temperature	-70 °C to +135 °C
Min. Shrink Temperature	+90 °C
Longitudinal Change After Shrinkage	+5%/-15%
Dielectric Strength	23 kV/mm
Flammability	self-extinguishing



TYPE	Supplied Ø D min.	Size (imperial)	Recov. Ø d max.	Wall (WT)	Reel Length	Colour	Tools	Article-No.
TL27-1.2/0.6	1.2	3/64 "	0.6	0.31	500 m	Black (BK)	30	302-20120
TL27-1.6/0.8	1.6	1/16 "	0.8	0.33	500 m	Black (BK)	30	302-20160
TL27-2.4/1.2	2.4	3/32 "	1.2	0.36	500 m	Black (BK)	30	302-30240
TL27-3.2/1.6	3.2	1/8 "	1.6	0.39	300 m	Black (BK)	30	302-30320
TL27-4.8/2.4	4.8	3/16 "	2.4	0.42	150 m	Black (BK)	30	302-30480
TL27-6.4/3.2	6.4	1/4 "	3.2	0.45	100 m	Black (BK)	30	302-30640
TL27-9.5/4.8	9.5	3/8 "	4.8	0.48	100 m	Black (BK)	30	302-30950
TL27-12.7/6.4	12.7	1/2 "	6.4	0.52	100 m	Black (BK)	30	302-21270
TL27-19.1/9.5	19.1	3/4 "	9.5	0.58	100 m	Black (BK)	30	302-31900
TL27-25.4/12.7	25.4	1 "	12.7	0.67	100 m	Black (BK)	30	302-32540
TL27-38.1/19.1	38.1	1-1/2 "	19.1	0.76	100 m	Black (BK)	30	302-23810
TL27-50.8/25.4	50.8	2 "	25.4	0.85	100 m	Black (BK)	30	302-25080

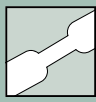
All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
	30 H6100
	566

For more information on toolings please refer to the Application Tooling chapter.



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Low-Heat Shrinkable Tubing 2:1

TCN20 - self extinguishing

TCN20 is suitable for a wide range of applications such as electrical insulation, mechanical protection and cable bundling.

Features and benefits

- Thin wall general purpose polyolefin tubing
- Self extinguishing, UL224 VW-1, CSA
- Fast shrinking
- Low shrink temperature



Heat Shrink Tubing TCN20.

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	2:1
Operating Temperature	-55 °C to +125 °C
Min. Shrink Temperature	+100 °C
Longitudinal Change After Shrinkage	+/-5%
Dielectric Strength	20 kV/mm
Flammability	self-extinguishing, UL 224 VW-1



Heat Shrinkable Tubing 2:1



TYPE	Supplied Ø D min.	Size (imperial)	Recov. Ø d max.	Wall (WT)	Reel Length	Colour	Tools	Article-No.
TCN20-1.2/0.6	1.2	3/64 "	0.6	0.30	300 m	Black (BK)	30	300-73010
TCN20-1.6/0.8	1.6	1/16 "	0.8	0.35	300 m	Black (BK)	30	300-73020
TCN20-2.4/1.2	2.4	3/32 "	1.2	0.45	300 m	Black (BK)	30	300-73030
TCN20-3.2/1.6	3.2	1/8 "	1.6	0.45	300 m	Black (BK)	30	300-73040
TCN20-4.8/2.4	4.8	3/16 "	2.4	0.50	300 m	Black (BK)	30	300-73050
TCN20-6.4/3.2	6.4	1/4 "	3.2	0.55	300 m	Black (BK)	30	300-73060
TCN20-9.5/4.8	9.5	3/8 "	4.8	0.55	100 m	Black (BK)	30	300-73070
TCN20-12.7/6.4	12.7	1/2 "	6.4	0.65	100 m	Black (BK)	30	300-73080
TCN20-19.1/9.5	19.1	3/4 "	9.5	0.80	60 m	Black (BK)	30	300-73090
TCN20-25.4/12.7	25.4	1 "	12.7	0.90	60 m	Black (BK)	30	300-73100
TCN20-38.1/19.1	38.1	1-1/2 "	19.1	1.02	30 m	Black (BK)	30	300-73110
TCN20-50.8/25.4	50.8	2 "	25.4	1.15	30 m	Black (BK)	30	300-73120

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
	30 H6100
	566

For more information on toolings please refer to the Application Tooling chapter.



For product specific approvals and specifications please refer to the Appendix.



Add items to your watchlist!

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Heat shrinkable tubing 3:1 - Self extinguishing

TCN20 overexpanded

Mechanical and electrical protection applications for parts with high diameter variances. This fast shrinking tubing makes it suitable for high volume production.

Features and benefits

- Thin wall overexpanded polyolefin tubing
- Self extinguishing and low shrink temperature
- Highly flame-retardant, UL224 VW-1



Heat shrink tubing TCN20 overexpanded.

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	3:1
Operating Temperature	-55 °C to +125 °C
Min. Shrink Temperature	+100 °C
Longitudinal Change After Shrinkage	+/-5%
Dielectric Strength	20 kV/mm
Flammability	self-extinguishing



Heat Shrinkable Tubing 3:1



TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Reel Length	Colour	Tools	Article-No.
TCN20-2.4/0.8	2.4	0.8	0.40	300 m	Black (BK)	30	300-73130
TCN20-3.2/1.2	3.2	1.2	0.50	300 m	Black (BK)	30	300-73140
TCN20-4.8/1.6	4.8	1.6	0.50	300 m	Black (BK)	30	300-73150
TCN20-6.6/2.4	6.6	2.4	0.55	300 m	Black (BK)	30	300-73160
TCN20-9.5/3.2	9.5	3.2	0.65	100 m	Black (BK)	30	300-73170
TCN20-12.7/4.8	12.7	4.8	0.75	100 m	Black (BK)	30	300-73180
TCN20-19.0/6.4	19.0	6.4	0.75	60 m	Black (BK)	30	300-73190
TCN20-25.4/9.5	25.4	9.5	0.80	60 m	Black (BK)	30	300-73200
TCN20-38.0/12.7	38.0	12.7	0.95	30 m	Black (BK)	30	300-73210

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
	30 H6100
	566

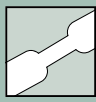
For more information on toolings please refer to the Application Tooling chapter.



For product specific approvals and specifications please refer to the Appendix.



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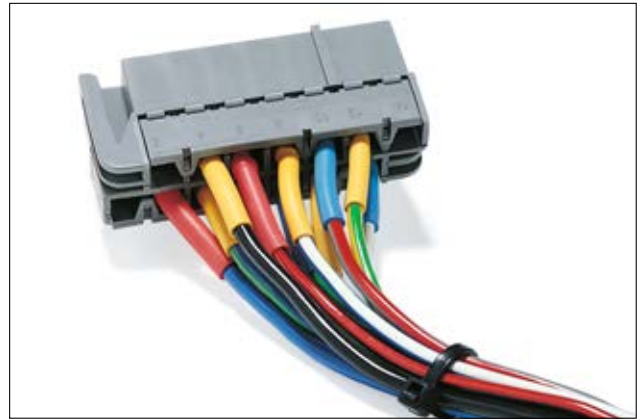
Heat Shrinkable Tubing 2:1 flexible and coloured

HFT-A - self extinguishing

This high performance thin wall tubing is used extensively for electrical and mechanical protection. It is also well proven for sleeve marking to identify wiring circuits.

Features and benefits

- Flexible heat shrink tubing
- Fast shrinking, easy handling, good mechanical strength
- Wide range of colours
- Internal diameters up to 101.6 mm (4 inches)
- UL-224 ,CSA listed and VG approved



HFT-A conforms to major standards used in all Defence industries.

i Standard sizes available in colours black, red, blue, yellow, white and green-yellow.



MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	2:1
Operating Temperature	-55 °C to +135 °C
Min. Shrink Temperature	+135 °C
Longitudinal Change After Shrinkage	-5% max.
Dielectric Strength	>21 kV/mm
Flammability	self-extinguishing, UL 224 VW-1

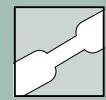
TYPE	Supplied Ø D min.	Size (imperial)	Recov. Ø d max.	Wall (WT)	Reel Length	Colour	Designation as per VG-Norm	Tools	Article-No.
HFT-A-1.2/0.6	1.2	3/64 "	0.6	0.40	400 m	Black (BK)	VG 95343 T05 A 001 A	30	305-01200
	1.2	3/64 "	0.6	0.40	400 m	Blue (BU)	VG 95343 T05 A 001 G	30	305-01206
	1.2	3/64 "	0.6	0.40	400 m	Red (RD)	VG 95343 T05 A 001 C	30	305-01202
	1.2	3/64 "	0.6	0.40	400 m	White (WH)	VG 95343 T05 A 001 L	30	305-01209
	1.2	3/64 "	0.6	0.40	400 m	Yellow (YE)	VG 95343 T05 A 001 E	30	305-01204
HFT-A-1.6/0.8	1.6	1/16 "	0.8	0.40	400 m	Black (BK)	VG 95343 T05 A 002 A	30	305-01600
	1.6	1/16 "	0.8	0.40	400 m	Blue (BU)	VG 95343 T05 A 002 G	30	305-01606
	1.6	1/16 "	0.8	0.40	400 m	Red (RD)	VG 95343 T05 A 002 C	30	305-01602
	1.6	1/16 "	0.8	0.40	400 m	White (WH)	VG 95343 T05 A 002 L	30	305-01609
	1.6	1/16 "	0.8	0.40	400 m	Yellow (YE)	VG 95343 T05 A 002 E	30	305-01604
HFT-A-2.4/1.2	2.4	3/32 "	1.2	0.50	100 m	Blue (BU)	VG 95343 T05 A 003 G	30	305-02406
	2.4	3/32 "	1.2	0.50	100 m	Red (RD)	VG 95343 T05 A 003 C	30	305-02402
	2.4	3/32 "	1.2	0.50	100 m	White (WH)	VG 95343 T05 A 003 L	30	305-02409
	2.4	3/32 "	1.2	0.50	100 m	Yellow (YE)	VG 95343 T05 A 003 E	30	305-02404
	2.4	3/32 "	1.2	0.50	400 m	Black (BK)	VG 95343 T05 A 003 A	30	305-02400

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



For product specific approvals and specifications please refer to the Appendix.





Heat Shrinkable Tubing 2:1 flexible and coloured

HFT-A - self extinguishing



TYPE	Supplied Ø D min.	Size (imperial)	Recov. Ø d max.	Wall (WT)	Reel Length	Colour	Designation as per VG-Norm	Tools	Article-No.
HFT-A-3.2/1.6	3.2	1/8 "	1.6	0.50	100 m	Blue (BU)	VG 95343 T05 A 004 G	30	305-03206
	3.2	1/8 "	1.6	0.50	100 m	Green-Yellow (GNYE)	VG 95343 T05 A 004 N	30	305-03245
	3.2	1/8 "	1.6	0.50	100 m	Red (RD)	VG 95343 T05 A 004 C	30	305-03202
	3.2	1/8 "	1.6	0.50	100 m	White (WH)	VG 95343 T05 A 004 L	30	305-03209
	3.2	1/8 "	1.6	0.50	100 m	Yellow (YE)	VG 95343 T05 A 004 E	30	305-03204
	3.2	1/8 "	1.6	0.50	400 m	Black (BK)	VG 95343 T05 A 004 A	30	305-03200
HFT-A-4.8/2.4	4.8	3/16 "	2.4	0.50	75 m	Blue (BU)	VG 95343 T05 A 005 G	30	305-04806
	4.8	3/16 "	2.4	0.50	75 m	Green-Yellow (GNYE)	VG 95343 T05 A 005 N	30	305-04845
	4.8	3/16 "	2.4	0.50	75 m	Red (RD)	VG 95343 T05 A 005 C	30	305-04802
	4.8	3/16 "	2.4	0.50	75 m	White (WH)	VG 95343 T05 A 005 L	30	305-04809
	4.8	3/16 "	2.4	0.50	75 m	Yellow (YE)	VG 95343 T05 A 005 E	30	305-04804
	4.8	3/16 "	2.4	0.50	300 m	Black (BK)	VG 95343 T05 A 005 A	30	305-04800
HFT-A-6.4/3.2	6.4	1/4 "	3.2	0.60	75 m	Blue (BU)	VG 95343 T05 A 006 G	30	305-06406
	6.4	1/4 "	3.2	0.60	75 m	Green-Yellow (GNYE)	VG 95343 T05 A 006 N	30	305-06445
	6.4	1/4 "	3.2	0.60	75 m	Red (RD)	VG 95343 T05 A 006 C	30	305-06402
	6.4	1/4 "	3.2	0.60	75 m	White (WH)	VG 95343 T05 A 006 L	30	305-06409
	6.4	1/4 "	3.2	0.60	75 m	Yellow (YE)	VG 95343 T05 A 006 E	30	305-06404
	6.4	1/4 "	3.2	0.60	300 m	Black (BK)	VG 95343 T05 A 006 A	30	305-06400
HFT-A-9.5/4.8	9.5	3/8 "	4.8	0.60	50 m	Blue (BU)	VG 95343 T05 A 007 G	30	305-09506
	9.5	3/8 "	4.8	0.60	50 m	Green-Yellow (GNYE)	VG 95343 T05 A 007 N	30	305-09545
	9.5	3/8 "	4.8	0.60	50 m	Red (RD)	VG 95343 T05 A 007 C	30	305-09502
	9.5	3/8 "	4.8	0.60	50 m	White (WH)	VG 95343 T05 A 007 L	30	305-09509
	9.5	3/8 "	4.8	0.60	50 m	Yellow (YE)	VG 95343 T05 A 007 E	30	305-09504
	9.5	3/8 "	4.8	0.60	150 m	Black (BK)	VG 95343 T05 A 007 A	30	305-09500
HFT-A-12.7/6.4	12.7	1/2 "	6.4	0.60	50 m	Blue (BU)	VG 95343 T05 A 008 G	30	305-12706
	12.7	1/2 "	6.4	0.60	50 m	Green-Yellow (GNYE)	VG 95343 T05 A 008 N	30	305-12745
	12.7	1/2 "	6.4	0.60	50 m	Red (RD)	VG 95343 T05 A 008 C	30	305-12702
	12.7	1/2 "	6.4	0.60	50 m	White (WH)	VG 95343 T05 A 008 L	30	305-12709
	12.7	1/2 "	6.4	0.60	50 m	Yellow (YE)	VG 95343 T05 A 008 E	30	305-12704
	12.7	1/2 "	6.4	0.60	100 m	Black (BK)	VG 95343 T05 A 008 A	30	305-12700
HFT-A-19.0/9.5	19.0	3/4 "	9.5	0.80	25 m	Blue (BU)	VG 95343 T05 A 009 G	30	305-19006
	19.0	3/4 "	9.5	0.80	25 m	Green-Yellow (GNYE)	VG 95343 T05 A 009 N	30	305-19045
	19.0	3/4 "	9.5	0.80	25 m	Red (RD)	VG 95343 T05 A 009 C	30	305-19002
	19.0	3/4 "	9.5	0.80	25 m	White (WH)	VG 95343 T05 A 009 L	30	305-19009
	19.0	3/4 "	9.5	0.80	25 m	Yellow (YE)	VG 95343 T05 A 009 E	30	305-19004
	19.0	3/4 "	9.5	0.80	50 m	Black (BK)	VG 95343 T05 A 009 A	30	305-19000

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

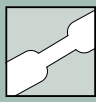


For product specific approvals and specifications please refer to the Appendix.



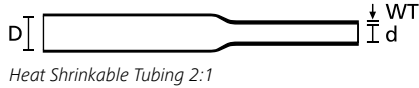
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Heat Shrinkable Tubing 2:1 flexible and coloured

HFT-A - self extinguishing



TYPE	Supplied Ø D min.	Size (imperial)	Recov. Ø d max.	Wall (WT)	Reel Length	Colour	Designation as per VG-Norm	Tools	Article-No.
HFT-A-25.4/12.7	25.4	1 "	12.7	0.90	25 m	Blue (BU)	VG 95343 T05 A 010 G	30	305-25406
	25.4	1 "	12.7	0.90	25 m	Green-Yellow (GNYE)	VG 95343 T05 A 010 N	30	305-25445
	25.4	1 "	12.7	0.90	25 m	Red (RD)	VG 95343 T05 A 010 C	30	305-25402
	25.4	1 "	12.7	0.90	25 m	White (WH)	VG 95343 T05 A 010 L	30	305-25409
	25.4	1 "	12.7	0.90	25 m	Yellow (YE)	VG 95343 T05 A 010 E	30	305-25404
	25.4	1 "	12.7	0.90	50 m	Black (BK)	VG 95343 T05 A 010 A	30	305-25400
HFT-A-38.0/19.0	38.0	1-1/2 "	19.0	1.00	50 m	Black (BK)	VG 95343 T05 A 011 A	30	305-38100
	38.0	1-1/2 "	19.0	1.00	50 m	Blue (BU)	VG 95343 T05 A 011 G	30	305-38106
	38.0	1-1/2 "	19.0	1.00	50 m	Green-Yellow (GNYE)	VG 95343 T05 A 011 N	30	305-38145
	38.0	1-1/2 "	19.0	1.00	50 m	Red (RD)	VG 95343 T05 A 011 C	30	305-38102
	38.0	1-1/2 "	19.0	1.00	50 m	White (WH)	VG 95343 T05 A 011 L	30	305-38109
	38.0	1-1/2 "	19.0	1.00	50 m	Yellow (YE)	VG 95343 T05 A 011 E	30	305-38104
HFT-A-50.8/25.4	51.0	2 "	25.4	1.10	35 m	Black (BK)	VG 95343 T05 A 012 A	30	305-50800
	51.0	2 "	25.4	1.10	35 m	Blue (BU)	VG 95343 T05 A 012 G	30	305-50806
	51.0	2 "	25.4	1.10	35 m	Red (RD)	VG 95343 T05 A 012 C	30	305-50802
	51.0	2 "	25.4	1.10	35 m	White (WH)	VG 95343 T05 A 012 L	30	305-50809
	51.0	2 "	25.4	1.10	35 m	Yellow (YE)	VG 95343 T05 A 012 E	30	305-50804
HFT-A-76.0/38.0	76.0	3 "	38.0	1.30	25 m	Black (BK)	VG 95343 T05 A 013 A	30	305-76200
	76.0	3 "	38.0	1.30	25 m	Blue (BU)	VG 95343 T05 A 013 G	30	305-76206
	76.0	3 "	38.0	1.30	25 m	Red (RD)	VG 95343 T05 A 013 C	30	305-76202
	76.0	3 "	38.0	1.30	25 m	White (WH)	VG 95343 T05 A 013 L	30	305-76209
	76.0	3 "	38.0	1.30	25 m	Yellow (YE)	VG 95343 T05 A 013 E	30	305-76204
HFT-A-101.6/50.8	102.0	4 "	51.0	1.40	25 m	Black (BK)	VG 95343 T05 A 014 A	30	305-91600
	102.0	4 "	51.0	1.40	25 m	Blue (BU)	VG 95343 T05 A 014 G	30	305-91606
	102.0	4 "	51.0	1.40	25 m	Red (RD)	VG 95343 T05 A 014 C	30	305-91602
	102.0	4 "	51.0	1.40	25 m	White (WH)	VG 95343 T05 A 014 L	30	305-91609
	102.0	4 "	51.0	1.40	25 m	Yellow (YE)	VG 95343 T05 A 014 E	30	305-91604

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
	30 H6100
	566

For more information on toolings please refer to the Application Tooling chapter.



For product specific approvals and specifications please refer to the Appendix.



Add items to your watchlist!

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Heat shrinkable tubing 2:1 - flexible and coloured

TF21

Due to its versatility TF21 is suitable for a wide range of applications like electrical insulations, mechanical protection and marking.

Features and benefits

- Thin wall, flexible polyolefin tubing
- Fast shrinking and low shrink temperature
- Meets and exceeds a range of industrial standards
- Big variety of different colours and sizes
- Flame retarded and UL224 VW1 listed



TF21 - available in a wide range of colours and sizes.



More colours on request.



Cut lengths available on request. Please contact us!



Heat Shrinkable Tubing 2:1

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	2:1
Operating Temperature	-55 °C to +135 °C
Min. Shrink Temperature	+90 °C
Longitudinal Change After Shrinkage	+/-5%
Dielectric Strength	≥30 kV/mm
Flammability	self-extinguishing, UL 224 VW-1



TYPE	Supplied Ø D min.	Size (imperial)	Recov. Ø d max.	Wall (WT)	Reel Length	Colour	Tools	Article-No.
TF21-1.2/0.6	1.2	3/64 "	0.6	0.41	100 m	Blue (BU)	30	309-20126
	1.2	3/64 "	0.6	0.41	100 m	Red (RD)	30	309-20122
	1.2	3/64 "	0.6	0.41	100 m	White (WH)	30	309-20129
	1.2	3/64 "	0.6	0.41	100 m	Yellow (YE)	30	309-20124
	1.2	3/64 "	0.6	0.41	300 m	Black (BK)	30	309-10120
TF21-1.6/0.8	1.6	1/16 "	0.8	0.43	100 m	Blue (BU)	30	309-20166
	1.6	1/16 "	0.8	0.43	100 m	Red (RD)	30	309-20162
	1.6	1/16 "	0.8	0.43	100 m	White (WH)	30	309-20169
	1.6	1/16 "	0.8	0.43	100 m	Yellow (YE)	30	309-20164
	1.6	1/16 "	0.8	0.43	300 m	Black (BK)	30	309-10160
TF21-2.4/1.2	2.4	3/32 "	1.2	0.51	100 m	Blue (BU)	30	309-20246
	2.4	3/32 "	1.2	0.51	100 m	Green-Yellow (GNYE)	30	309-40247
	2.4	3/32 "	1.2	0.51	100 m	Red (RD)	30	309-20242
	2.4	3/32 "	1.2	0.51	100 m	White (WH)	30	309-20249
	2.4	3/32 "	1.2	0.51	100 m	Yellow (YE)	30	309-20244
	2.4	3/32 "	1.2	0.51	300 m	Black (BK)	30	309-10240

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

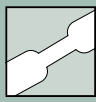


For product specific approvals and specifications please refer to the Appendix.



Add items to your watchlist!

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Heat shrinkable tubing 2:1 - flexible and coloured

TF21


Heat Shrinkable Tubing 2:1

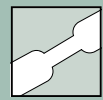
TYPE	Supplied Ø D min.	Size (imperial)	Recov. Ø d max.	Wall (WT)	Reel Length	Colour	Tools	Article-No.
TF21-3.2/1.6	3.2	1/8 "	1.6	0.51	100 m	Blue (BU)	30	309-20326
	3.2	1/8 "	1.6	0.51	100 m	Green-Yellow (GNYE)	30	309-40327
	3.2	1/8 "	1.6	0.51	100 m	Red (RD)	30	309-20322
	3.2	1/8 "	1.6	0.51	100 m	White (WH)	30	309-20329
	3.2	1/8 "	1.6	0.51	100 m	Yellow (YE)	30	309-20324
	3.2	1/8 "	1.6	0.51	300 m	Black (BK)	30	309-10320
TF21-4.8/2.4	4.8	3/16 "	2.4	0.51	60 m	Blue (BU)	30	309-50486
	4.8	3/16 "	2.4	0.51	60 m	Green-Yellow (GNYE)	30	309-50487
	4.8	3/16 "	2.4	0.51	60 m	Red (RD)	30	309-50482
	4.8	3/16 "	2.4	0.51	60 m	White (WH)	30	309-50489
	4.8	3/16 "	2.4	0.51	60 m	Yellow (YE)	30	309-50484
	4.8	3/16 "	2.4	0.51	300 m	Black (BK)	30	309-10480
TF21-6.4/3.2	6.4	1/4 "	3.2	0.64	60 m	Blue (BU)	30	309-50646
	6.4	1/4 "	3.2	0.64	60 m	Green-Yellow (GNYE)	30	309-50647
	6.4	1/4 "	3.2	0.64	60 m	Red (RD)	30	309-50642
	6.4	1/4 "	3.2	0.64	60 m	White (WH)	30	309-50649
	6.4	1/4 "	3.2	0.64	60 m	Yellow (YE)	30	309-50644
	6.4	1/4 "	3.2	0.64	300 m	Black (BK)	30	309-10640
TF21-9.5/4.8	9.5	3/8 "	4.8	0.64	50 m	Blue (BU)	30	309-20956
	9.5	3/8 "	4.8	0.64	50 m	Green-Yellow (GNYE)	30	309-50957
	9.5	3/8 "	4.8	0.64	50 m	Red (RD)	30	309-20952
	9.5	3/8 "	4.8	0.64	50 m	White (WH)	30	309-20959
	9.5	3/8 "	4.8	0.64	50 m	Yellow (YE)	30	309-20954
	9.5	3/8 "	4.8	0.64	150 m	Black (BK)	30	309-10950
TF21-12.7/6.4	12.7	1/2 "	6.4	0.64	50 m	Blue (BU)	30	309-21276
	12.7	1/2 "	6.4	0.64	50 m	Green-Yellow (GNYE)	30	309-41277
	12.7	1/2 "	6.4	0.64	50 m	Red (RD)	30	309-21272
	12.7	1/2 "	6.4	0.64	50 m	White (WH)	30	309-21279
	12.7	1/2 "	6.4	0.64	50 m	Yellow (YE)	30	309-21274
	12.7	1/2 "	6.4	0.64	100 m	Black (BK)	30	309-11270
TF21-19.1/9.5	19.1	3/4 "	9.5	0.76	50 m	Black (BK)	30	309-11900
	19.1	3/4 "	9.5	0.76	50 m	Blue (BU)	30	309-11906
	19.1	3/4 "	9.5	0.76	50 m	Green-Yellow (GNYE)	30	309-11907
	19.1	3/4 "	9.5	0.76	50 m	Red (RD)	30	309-11902
	19.1	3/4 "	9.5	0.76	50 m	White (WH)	30	309-11909
	19.1	3/4 "	9.5	0.76	50 m	Yellow (YE)	30	309-11904

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.



For product specific approvals and specifications please refer to the Appendix.





Heat shrinkable tubing 2:1 - flexible and coloured

TF21



Heat Shrinkable Tubing 2:1

TYPE	Supplied Ø D min.	Size (imperial)	Recov. Ø d max.	Wall (WT)	Reel Length	Colour	Tools	Article-No.
TF21-25.4/12.7	25.4	1 "	12.7	0.89	50 m	Black (BK)	30	309-12540
	25.4	1 "	12.7	0.89	50 m	Blue (BU)	30	309-12546
	25.4	1 "	12.7	0.89	50 m	Green-Yellow (GNYE)	30	309-12547
	25.4	1 "	12.7	0.89	50 m	Red (RD)	30	309-12542
	25.4	1 "	12.7	0.89	50 m	White (WH)	30	309-12549
	25.4	1 "	12.7	0.89	50 m	Yellow (YE)	30	309-12544
TF21-38.0/19.0	38.1	1-1/2 "	19.1	1.02	60 m	Black (BK)	30	309-13810
	38.1	1-1/2 "	19.1	1.02	60 m	Blue (BU)	30	309-13816
	38.1	1-1/2 "	19.1	1.02	60 m	Green-Yellow (GNYE)	30	309-13817
	38.1	1-1/2 "	19.1	1.02	60 m	Red (RD)	30	309-13812
	38.1	1-1/2 "	19.1	1.02	60 m	White (WH)	30	309-13819
	38.1	1-1/2 "	19.1	1.02	60 m	Yellow (YE)	30	309-13814
TF21-50.8/25.4	50.8	2 "	25.4	1.14	60 m	Black (BK)	30	309-15080
	50.8	2 "	25.4	1.14	60 m	Blue (BU)	30	309-15086
	50.8	2 "	25.4	1.14	60 m	Green-Yellow (GNYE)	30	309-15087
	50.8	2 "	25.4	1.14	60 m	Red (RD)	30	309-15082
	50.8	2 "	25.4	1.14	60 m	White (WH)	30	309-15089
	50.8	2 "	25.4	1.14	60 m	Yellow (YE)	30	309-15084
TF21-76.0/38.0	76.2	3 "	38.1	1.27	30 m	Black (BK)	30	309-17600
	76.2	3 "	38.1	1.27	30 m	Blue (BU)	30	309-17606
	76.2	3 "	38.1	1.27	30 m	Red (RD)	30	309-17602
	76.2	3 "	38.1	1.27	30 m	White (WH)	30	309-17609
	76.2	3 "	38.1	1.27	30 m	Yellow (YE)	30	309-17604
TF21-101.6/50.8	101.6	4 "	50.8	1.40	15 m	Black (BK)	30	309-11020
	101.6	4 "	50.8	1.40	15 m	Blue (BU)	30	309-11026
	101.6	4 "	50.8	1.40	15 m	Red (RD)	30	309-11022
	101.6	4 "	50.8	1.40	15 m	White (WH)	30	309-11029
	101.6	4 "	50.8	1.40	15 m	Yellow (YE)	30	309-11024

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
	30 H6100
	566

For more information on toolings please refer to the Application Tooling chapter.



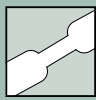
For product specific approvals and specifications please refer to the Appendix.



Add items to your watchlist!

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Heat Shrinkable Tubing 2:1 flexible and transparent

TF24

Protects wire and cable markers subject to abuse, while permitting inspectability of each item covered. Protects electronic components while permitting their identification and inspection.

Features and benefits

- Transparent, flexible polyolefin tubing
- Protects identification marking perfect
- Halogen free
- Good mechanical and chemical resistance
- VG and additional industrial approvals



TF24 transparent tubing with 2:1 shrink ratio.



**Cut lengths available on request.
Please contact us!**



Heat Shrinkable Tubing 2:1



MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	2:1
Operating Temperature	-55 °C to +135 °C
Min. Shrink Temperature	+110 °C
Longitudinal Change After Shrinkage	+/-5% max.
Dielectric Strength	30 kV/mm
Flammability	not flame-retardant

TYPE	Supplied Ø D min.	Size (imperial)	Recov. Ø d max.	Wall (WT)	Reel Length	Colour	Designation as per VG-Norm	Tools	Article-No.
TF24-1.2/0.6	1.2	3/64 "	0.6	0.41	100 m	Transparent (CL)	VG 95343 T05 B 001 M	30	309-40123
TF24-1.6/0.8	1.6	1/16 "	0.8	0.43	100 m	Transparent (CL)	VG 95343 T05 B 002 M	30	309-40163
TF24-2.4/1.2	2.4	3/32 "	1.2	0.51	100 m	Transparent (CL)	VG 95343 T05 B 003 M	30	309-40243
TF24-3.2/1.6	3.2	1/8 "	1.6	0.51	100 m	Transparent (CL)	VG 95343 T05 B 004 M	30	309-40323
TF24-4.8/2.4	4.8	3/16 "	2.4	0.51	60 m	Transparent (CL)	VG 95343 T05 B 005 M	30	309-50483
TF24-6.4/3.2	6.4	1/4 "	3.2	0.64	60 m	Transparent (CL)	VG 95343 T05 B 006 M	30	309-50643
TF24-9.5/4.8	9.5	3/8 "	4.8	0.64	50 m	Transparent (CL)	VG 95343 T05 B 007 M	30	309-40953
TF24-12.7/6.4	12.7	1/2 "	6.4	0.64	50 m	Transparent (CL)	VG 95343 T05 B 008 M	30	309-41273
TF24-19.1/9.5	19.1	3/4 "	9.5	0.76	50 m	Transparent (CL)	VG 95343 T05 B 009 M	30	309-31903
TF24-25.4/12.7	25.4	1 "	12.7	0.89	50 m	Transparent (CL)	VG 95343 T05 B 010 M	30	309-32543
TF24-38.1/19.1	38.1	1-1/2 "	19.1	1.02	60 m	Transparent (CL)	VG 95343 T05 B 011 M	30	309-33813
TF24-50.8/25.4	50.8	2 "	25.4	1.14	60 m	Transparent (CL)	VG 95343 T05 B 012 M	30	309-35083
TF24-76.2/38.1	76.2	3 "	38.1	1.27	30 m	Transparent (CL)	VG 95343 T05 B 013 M	30	309-37603
TF24-101.6/50.8	101.6	4 "	50.8	1.40	15 m	Transparent (CL)	VG 95343 T05 B 014 M	30	309-31023

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
	30 H6100
	566

For more information on toolings please refer to the Application Tooling chapter.



For product specific approvals and specifications please refer to the Appendix.



Add items to your watchlist!

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Heat shrinkable tubing 3:1 - flexible and coloured

TF31

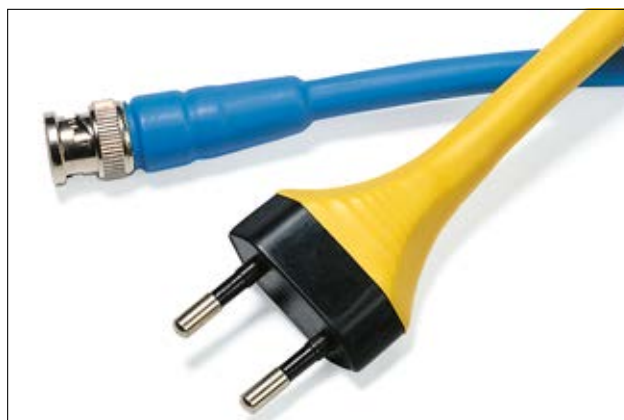
If higher fire protection is a requirement TF31 heat shrinkable tubing is a good choice. It is used for protection, insulation and identification wires, cables and light duty harnesses.

Features and benefits

- Thin wall, very flexible polyolefin tubing
- A small range of sizes cover a wide range of diameters allowing reduced inventory
- Fast shrinking and low shrink temperature
- Flame-retardant, UL224 VW1 listed



www.HellermannTyton.co.uk/TF31-cat22



TF31 with 3:1 shrink ratio allowing for a wider range of application.

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	3:1
Operating Temperature	-55 °C to +135 °C
Min. Shrink Temperature	+90 °C
Longitudinal Change After Shrinkage	+5%/-15%
Dielectric Strength	≥30 kV/mm
Flammability	self-extinguishing, UL 224 VW-1



Cut lengths available on request. Please contact us!



Heat Shrinkable Tubing 3:1



More colours on request.

RoHS ✓

TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Reel Length	Colour	Tools	Article-No.
TF31-1.5/0.5	1.5	0.5	0.50	30 m	Black (BK)	30	333-30150
	1.5	0.5	0.50	30 m	Blue (BU)	30	333-30156
	1.5	0.5	0.50	30 m	Green (GN)	30	333-30155
	1.5	0.5	0.50	30 m	Green-Yellow (GNYE)	30	333-30157
	1.5	0.5	0.50	30 m	Red (RD)	30	333-30152
	1.5	0.5	0.50	30 m	White (WH)	30	333-30159
	1.5	0.5	0.50	30 m	Yellow (YE)	30	333-30154
	1.5	0.5	0.50	300 m	Black (BK)	30	333-20150
TF31-3/1	3.0	1.0	0.60	30 m	Black (BK)	30	333-30300
	3.0	1.0	0.60	30 m	Blue (BU)	30	333-30306
	3.0	1.0	0.60	30 m	Green (GN)	30	333-30305
	3.0	1.0	0.60	30 m	Green-Yellow (GNYE)	30	333-30307
	3.0	1.0	0.60	30 m	Red (RD)	30	333-30302
	3.0	1.0	0.60	30 m	White (WH)	30	333-30309
	3.0	1.0	0.60	30 m	Yellow (YE)	30	333-30304
	3.0	1.0	0.60	150 m	Black (BK)	30	333-40300

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.

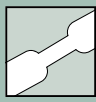


For product specific approvals and specifications please refer to the Appendix.

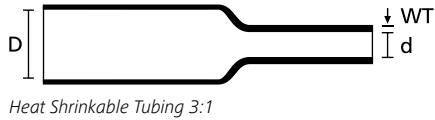


Add items to your watchlist!

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Heat shrinkable tubing 3:1 - flexible and coloured

TF31

Heat Shrinkable Tubing 3:1

TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Reel Length	Colour	Tools	Article-No.
TF31-6/2	6.0	2.0	0.70	30 m	Black (BK)	30	333-30600
	6.0	2.0	0.70	30 m	Blue (BU)	30	333-30606
	6.0	2.0	0.70	30 m	Green (GN)	30	333-30605
	6.0	2.0	0.70	30 m	Green-Yellow (GNYE)	30	333-30607
	6.0	2.0	0.70	30 m	Red (RD)	30	333-30602
	6.0	2.0	0.70	30 m	White (WH)	30	333-30609
	6.0	2.0	0.70	30 m	Yellow (YE)	30	333-30604
	6.0	2.0	0.70	150 m	Black (BK)	30	333-40600
TF31-9/3	9.0	3.0	0.80	30 m	Black (BK)	30	333-30900
	9.0	3.0	0.80	30 m	Blue (BU)	30	333-30906
	9.0	3.0	0.80	30 m	Green (GN)	30	333-30905
	9.0	3.0	0.80	30 m	Green-Yellow (GNYE)	30	333-30907
	9.0	3.0	0.80	30 m	Red (RD)	30	333-30902
	9.0	3.0	0.80	30 m	White (WH)	30	333-30909
	9.0	3.0	0.80	30 m	Yellow (YE)	30	333-30904
	9.0	3.0	0.80	150 m	Black (BK)	30	333-20900
TF31-12/4	12.0	4.0	0.85	30 m	Black (BK)	30	333-31200
	12.0	4.0	0.85	30 m	Blue (BU)	30	333-31206
	12.0	4.0	0.85	30 m	Green (GN)	30	333-31205
	12.0	4.0	0.85	30 m	Green-Yellow (GNYE)	30	333-31207
	12.0	4.0	0.85	30 m	Red (RD)	30	333-31202
	12.0	4.0	0.85	30 m	White (WH)	30	333-31209
	12.0	4.0	0.85	30 m	Yellow (YE)	30	333-31204
	12.0	4.0	0.85	100 m	Black (BK)	30	333-21200
TF31-18/6	18.0	6.0	1.00	30 m	Black (BK)	30	333-31800
	18.0	6.0	1.00	30 m	Blue (BU)	30	333-31806
	18.0	6.0	1.00	30 m	Green (GN)	30	333-31805
	18.0	6.0	1.00	30 m	Green-Yellow (GNYE)	30	333-31807
	18.0	6.0	1.00	30 m	Red (RD)	30	333-31802
	18.0	6.0	1.00	30 m	White (WH)	30	333-31809
	18.0	6.0	1.00	30 m	Yellow (YE)	30	333-31804
	18.0	6.0	1.00	60 m	Black (BK)	30	333-41800

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.

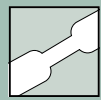
Recommended Tools	
	30 H6100
	566

For more information on toolings please refer to the Application Tooling chapter.



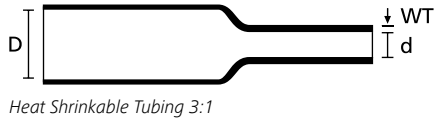
For product specific approvals and specifications please refer to the Appendix.





Heat shrinkable tubing 3:1 - flexible and coloured

TF31



TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Reel Length	Colour	Tools	Article-No.
TF31-24/8	24.0	8.0	1.20	30 m	Black (BK)	30	333-32400
	24.0	8.0	1.20	30 m	Blue (BU)	30	333-32406
	24.0	8.0	1.20	30 m	Green (GN)	30	333-32405
	24.0	8.0	1.20	30 m	Green-Yellow (GNYE)	30	333-32407
	24.0	8.0	1.20	30 m	Red (RD)	30	333-32402
	24.0	8.0	1.20	30 m	White (WH)	30	333-32409
	24.0	8.0	1.20	30 m	Yellow (YE)	30	333-32404
	24.0	8.0	1.20	60 m	Black (BK)	30	333-42400
TF31-40/13	40.0	13.0	1.25	30 m	Black (BK)	30	333-34000
	40.0	13.0	1.25	30 m	Blue (BU)	30	333-34006
	40.0	13.0	1.25	30 m	Green (GN)	30	333-34005
	40.0	13.0	1.25	30 m	Green-Yellow (GNYE)	30	333-34007
	40.0	13.0	1.25	30 m	Red (RD)	30	333-34002
	40.0	13.0	1.25	30 m	White (WH)	30	333-34009
	40.0	13.0	1.25	30 m	Yellow (YE)	30	333-34004
	40.0	13.0	1.25	60 m	Black (BK)	30	333-24000

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
	30 H6100
	566

For more information on toolings please refer to the Application Tooling chapter.



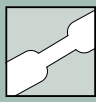
For product specific approvals and specifications please refer to the Appendix.



Add items to your watchlist!

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Heat shrinkable tubing 3:1 - flexible and transparent

TF34

Protects wire and cable markers subject to abuse, while permitting inspectability of each item covered. Protects electronic components while permitting their identification and inspection.

Features and benefits

- Transparent, flexible polyolefin tubing
- Protects identification marking perfectly
- Fewer sizes required to cover a wide range of diameters allowing reduced inventory
- Halogen free



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**Cut lengths available on request.
Please contact us!**



Heat Shrinkable Tubing 3:1



TF34 transparent tubing with 3:1 shrink ratio allowing for a wider range of application.

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	3:1
Operating Temperature	-55 °C to +135 °C
Min. Shrink Temperature	+110 °C
Longitudinal Change After Shrinkage	-5% max.
Dielectric Strength	46 kV/mm
Flammability	not flame-retardant

HF ✓

RoHS ✓

TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Reel Length	Colour	Tools	Article-No.
TF34-1.5/0.5	1.5	0.5	0.50	30 m	Transparent (CL)	30	333-30153
TF34-3/1	3.0	1.0	0.50	30 m	Transparent (CL)	30	333-30303
TF34-6/2	6.0	2.0	0.70	30 m	Transparent (CL)	30	333-30603
TF34-9/3	9.0	3.0	0.80	30 m	Transparent (CL)	30	333-30903
TF34-12/4	12.0	4.0	0.85	30 m	Transparent (CL)	30	333-31203
TF34-18/6	18.0	6.0	1.00	30 m	Transparent (CL)	30	333-31803
TF34-24/8	24.0	8.0	1.20	30 m	Transparent (CL)	30	333-32403
TF34-40/13	40.0	13.0	1.25	30 m	Transparent (CL)	30	333-34003

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
	30 H6100
	566

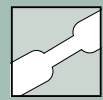
For more information on toolings please refer to the Application Tooling chapter.



Add items to your watchlist!

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Heat shrinkable tubing adhesive lined - 1.2 m lengths

TA32/TA42 is designed for environmental sealing and electrical insulation of wire splices, terminations and components.

Features and benefits

- Thin wall adhesive-lined heat shrink tubing
- Highly flame retardant
- Outer wall conforms to UL224
- High shrink ratio



TA32 and TA42 are UL224 listed adhesive lined tubing. Available in 3:1 and 4:1 shrink ratio.



Cut lengths available on request. Please contact us!

MATERIAL	Polyolefin, cross-linked (PO-X)
Operating Temperature	-55 °C to +125 °C
Min. Shrink Temperature	+110 °C
Softening Point Adhesive	+110 °C
Longitudinal Change After Shrinkage	-15% max.
Dielectric Strength	25 kV/mm
Flammability	flame-retardant, UL 224

TA32 - thin wall, 3:1 shrink ratio



Heat Shrinkable Tubing 3:1 with adhesive

RoHS ✓

TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Length (L)	Colour	Shrink Ratio	Tools	Article-No.
TA32-3/1	3.0	1.0	0.95	1.2 m	Black (BK)	3:1	30	318-30300
TA32-4.5/1.5	4.8	1.5	1.10	1.2 m	Black (BK)	3:1	30	318-30450
TA32-6/2	6.4	2.0	1.20	1.2 m	Black (BK)	3:1	30	318-30600
TA32-9/3	9.5	3.0	1.30	1.2 m	Black (BK)	3:1	30	318-30900
TA32-12/4	12.7	4.0	1.40	1.2 m	Black (BK)	3:1	30	318-31200
TA32-19/6	19.0	6.0	1.80	1.2 m	Black (BK)	3:1	30	318-31900
TA32-24/8	24.0	8.0	2.50	1.2 m	Black (BK)	3:1	30	318-32400
TA32-40/13	40.0	13.0	2.50	1.2 m	Black (BK)	3:1	30	318-34000

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
	30 H6100
	566

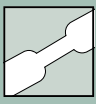
For more information on toolings please refer to the Application Tooling chapter.



For product specific approvals and specifications please refer to the Appendix.

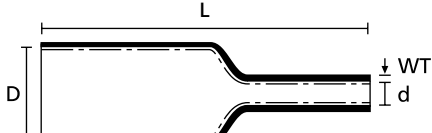


Add items to your watchlist!
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Heat shrinkable tubing adhesive lined - 1.2 m lengths

TA42 - thin wall, 4:1 shrink ratio



Heat Shrinkable Tubing 4:1 with adhesive

TA32 and TA42 are UL224 listed adhesive lined tubing. Available in 3:1 and 4:1 shrink ratio.

TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Length (L)	Colour	Shrink Ratio	Tools	Article-No.
TA42-4/1	4.0	1.0	1.00	1.2 m	Black (BK)	4:1	30	318-40400
TA42-8/2	8.0	2.0	1.20	1.2 m	Black (BK)	4:1	30	318-40800
TA42-12/3	12.0	3.0	1.40	1.2 m	Black (BK)	4:1	30	318-41200
TA42-16/4	16.0	4.0	1.80	1.2 m	Black (BK)	4:1	30	318-41600
TA42-24/6	24.0	6.0	2.20	1.2 m	Black (BK)	4:1	30	318-42400
TA42-32/8	32.0	8.0	2.50	1.2 m	Black (BK)	4:1	30	318-43200
TA42-52/13	52.0	13.0	2.55	1.2 m	Black (BK)	4:1	30	318-45200

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
	30 H6100
	566

For more information on toolings please refer to the Application Tooling chapter.



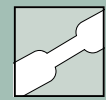
For product specific approvals and specifications please refer to the Appendix.



Add items to your watchlist!

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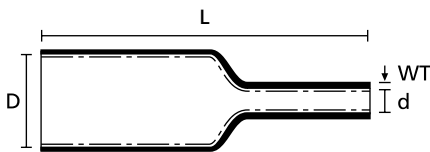


Heat shrinkable tubing adhesive lined

TA46 heat shrink tubing is designed for insulating, sealing and protecting inline wire splices, wire bundles, terminals and connectors. The adhesive lined heat shrink tubing provides moisture proof environmental sealing of electrical splices in wire harnesses especially complying to automotive industry requirements. Besides electrical insulation, the self-extinguishing polyolefin jacket provides mechanical protection against abrasion, cutting and bending. The highly viscous EVA based adhesive once heated flexibly flows between wires or conductors. The combination of excellent adhesive bonding properties and strong jacket shrink performance provides excellent bonding to cable jackets and environmental sealing of complex profiles.

Features and benefits

- High 4:1 shrink ratio to cover various diameters and profiles
- Semi-rigid jacket offers mechanical protection against abrasion, cutting and bending
- EVA based adhesive for efficient environmental sealing
- Insulating, protecting and sealing in one process step
- Suitable for processing in automated heat shrink application equipment
- Continuous operating temperature -40 °C to +125 °C
- Excellent strain relief due to combination of tough outer jacket and highly efficient adhesive



Heat Shrinkable Tubing 4:1 with adhesive



TA46 - Environmental sealing, insulating and protecting inline wire splices.

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	up to 4:1
Operating Temperature	-40 °C to +125 °C
Longitudinal Change After Shrinkage	-10% max.
Dielectric Strength	>10 kV/mm
Flammability	self-extinguishing

RoHS ✓

TA46 - Pre-cut tubing



TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Length (L)	Colour	Tools	Article-No.
TA46-5.75/1.25-50mm	5.75	1.25	1.30	50.0	Black (BK)	30	318-00001
TA46-7.5/1.65-50mm	7.50	1.65	1.50	50.0	Black (BK)	30	318-00011
TA46-11.0/2.4-65mm	11.00	2.40	1.90	65.0	Black (BK)	30	318-00021
TA46-18.3/4.35-75mm	18.30	4.35	2.40	75.0	Black (BK)	30	318-00031

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.

TA46 - 1.2m length



TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Length (L)	Colour	Tools	Article-No.
TA46-5.75/1.25	5.75	1.25	1.30	1.2 m	Black (BK)	30	318-00000
TA46-7.5/1.65	7.50	1.65	1.50	1.2 m	Black (BK)	30	318-00010
TA46-11.0/2.4	11.00	2.40	1.90	1.2 m	Black (BK)	30	318-00020
TA46-18.3/4.35	18.30	4.35	2.40	1.2 m	Black (BK)	30	318-00030
TA46-24/6	24.00	6.00	-	1.2 m	Black (BK)	30	318-00040
TA46-32/8	32.00	8.00	-	1.2 m	Black (BK)	30	318-00050
TA46-52/13	52.00	13.00	-	1.2 m	Black (BK)	30	318-00060

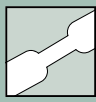
All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.



Add items to your watchlist!

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Heat shrinkable tubing adhesive lined

Heat shrinkable tubing EPS seals and protects a wide variety of electrical applications like back end connector sealing, connector-to-cable transitions and splices.

Features and benefits

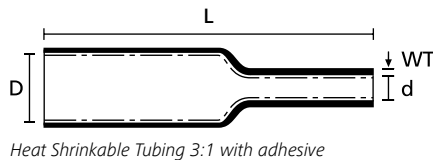
- Flexible, thin wall polyolefin heat shrink tubing
- With coextruded hot melt adhesive inner wall
- Protects against moisture
- Provides an environmental sealing of complex parts



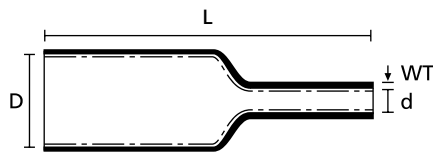
**Cut lengths available on request.
Please contact us!**



PTA300 and PTA400 offer high shrink ratios and protection against humidity.



Heat Shrinkable Tubing 3:1 with adhesive



Heat Shrinkable Tubing 4:1 with adhesive



MATERIAL	Polyolefin, Chemically cross-linked (PO-X)
Operating Temperature	-55 °C to +125 °C
Min. Shrink Temperature	+120 °C
Longitudinal Change After Shrinkage	-5% max.
Softening Point Adhesive	+90 °C
Dielectric Strength	45 kV/mm
Flammability	self-extinguishing



EPS-300 - 3:1 shrink ratio

TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Reel Length	Colour	Shrink Ratio	Tools	Article-No.
EPS-300-3/1	3.0	1.0	1.00	400 m	Black (BK)	3:1	30	340-03010
EPS-300-6/2	6.0	2.0	1.00	300 m	Black (BK)	3:1	30	340-06020
EPS-300-9/3	9.0	3.0	1.40	150 m	Black (BK)	3:1	30	340-09030
EPS-300-12/4	12.0	4.0	1.80	100 m	Black (BK)	3:1	30	340-12040
EPS-300-19/6	19.0	6.0	2.20	50 m	Black (BK)	3:1	30	340-19060
EPS-300-24/8	24.0	8.0	2.50	25 m	Black (BK)	3:1	30	340-24080
EPS-300-40/13	40.0	13.0	2.50	25 m	Black (BK)	3:1	30	340-40130

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.

EPS-400 - 4:1 shrink ratio

TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Reel Length	Colour	Shrink Ratio	Tools	Article-No.
EPS-400-4/1	4.0	1.0	1.00	300 m	Black (BK)	4:1	30	341-04010
EPS-400-8/2	8.0	2.0	1.00	150 m	Black (BK)	4:1	30	341-08020
EPS-400-12/3	12.0	3.0	1.40	100 m	Black (BK)	4:1	30	341-12030
EPS-400-16/4	16.0	4.0	1.80	100 m	Black (BK)	4:1	30	341-16040
EPS-400-24/6	24.0	6.0	2.20	50 m	Black (BK)	4:1	30	341-24060
EPS-400-32/8	32.0	8.0	2.50	25 m	Black (BK)	4:1	30	341-32080

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.





Heat shrinkable tubing 4:1 - Flame retardant

MA40 - medium wall adhesive lined

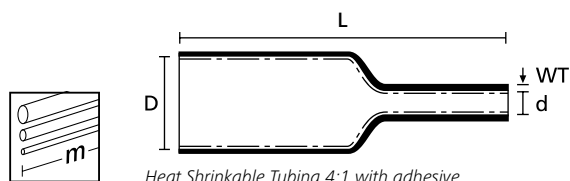
Designed for low voltage cable joints and terminations in shipbuilding. Insulates and protects against moisture.

Features and benefits

- Medium wall adhesive lined shrink tubing for low voltage power cables
- Designed for shipbuilding, Germanische Lloyd approved
- Flame retarded
- UV and weather resistant
- Excellent mechanical performance



MA40 medium wall, adhesive lined and flame retarded tubing for shipbuilding applications.



MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	up to 4:1
Operating Temperature	-55 °C to +110 °C
Min. Shrink Temperature	+120 °C
Softening Point Adhesive	+85 °C
Longitudinal Change After Shrinkage	-10% max.
Dielectric Strength	15 kV/mm
Flammability	self-extinguishing



TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Length (L)	Colour	Tools	Article-No.
MA40-8/2	8.0	2.0	1.70	1.0 m	Black (BK)	30;32	323-00100
MA40-12/3	12.0	3.0	2.00	1.0 m	Black (BK)	30;32	323-00101
MA40-16/5	16.0	5.0	2.00	1.0 m	Black (BK)	30;32	323-00103
MA40-22/6	22.0	6.0	2.40	1.0 m	Black (BK)	30;32	323-00104
MA40-33/8	33.0	8.0	2.50	1.0 m	Black (BK)	30;32	323-00105
MA40-40/12	40.0	12.0	2.60	1.0 m	Black (BK)	30;32	323-00106
MA40-55/16	55.0	16.0	2.70	1.0 m	Black (BK)	30;32	323-00107

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
30	32
H6100	CHG900
566	565

For more information on toolings please refer to the Application Tooling chapter.



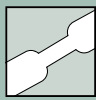
For product specific approvals and specifications please refer to the Appendix.



Add items to your watchlist!

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Heat Shrinkable Tubing up to 4:1 - 1 m lengths

MA47 - medium wall adhesive lined

Insulation and Protection of low voltage cable joints and terminations above and below ground.

Features and benefits

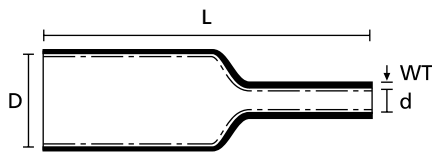
- Medium wall tubing with robust insulation characteristics
- Shrink tubing for above and underground cable applications
- Protects cable joints and terminations in low voltage applications
- Internally coated with a thermoplastic adhesive
- Protects against humidity and other environmental impacts after shrinking



www.HellermannTyton.co.uk/MA47-cat22



**Cut lengths available on request.
Please contact us!**



Heat Shrinkable Tubing 4:1 with adhesive



MA47 for above and below ground.

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	up to 4:1
Operating Temperature	-55 °C to +110 °C
Min. Shrink Temperature	+120 °C
Softening Point Adhesive	+85 °C
Longitudinal Change After Shrinkage	-10% max.
Dielectric Strength	15 kV/mm
Flammability	not flame-retardant
Insulation Class	A (VDE 0530)

RoHS

TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Length (L)	Colour	Tools	Article-No.
MA47-8/2	8.0	2.0	1.80	1.0 m	Black (BK)	30;32	323-20080
MA47-12/3	12.0	3.0	1.80	1.0 m	Black (BK)	30;32	323-20120
MA47-19/6	22.0	6.0	2.40	1.0 m	Black (BK)	30;32	323-20190
MA47-30/8	33.0	8.0	2.60	1.0 m	Black (BK)	30;32	323-20300
MA47-40/12	40.0	12.0	2.60	1.0 m	Black (BK)	30;32	323-20400
MA47-50/16	55.0	16.0	2.70	1.0 m	Black (BK)	30;32	323-20500
MA47-63/19	65.0	19.0	2.90	1.0 m	Black (BK)	30;32	323-20630
MA47-75/22	75.0	22.0	3.00	1.0 m	Black (BK)	30;32	323-20750
MA47-95/30	95.0	25.0	3.60	1.0 m	Black (BK)	30;32	323-20950
MA47-115/34	115.0	34.0	3.50	1.0 m	Black (BK)	30;32	323-21150
MA47-140/42	140.0	42.0	3.30	1.0 m	Black (BK)	30;32	323-21400

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools		
	30	32
	H6100	CHG900
	566	565

For more information on toolings please refer to the Application Tooling chapter.



Add items to your watchlist!

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Heat shrinkable tubing up to 4:1 - 1 m lengths in a Kit

MA47 - medium wall adhesive lined

MA47 heat shrinkable tubing in 4 sizes packed in a handy transportation tube. Insulation and protection of low voltage cable joints and terminations above and below ground.

Features and benefits

- Re-usable transportation tube in adjustable length
- 4 sizes of MA47 for different applications in 1 kit
- Medium wall tubing with robust insulation characteristics
- Shrink tubing for above and underground cable applications
- Protects against humidity and other environmental impacts after shrinking



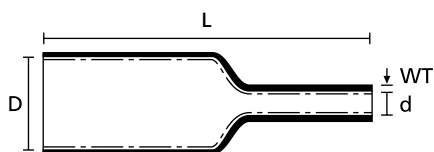
Heatshrink tubing MA47 in a handy, re-usable kit.



Detailed Information about Heatguns please refer to page 565.



Detailed information about MA47 please refer to page 252.



Heat Shrinkable Tubing 4:1 with adhesive

TYPE	Content	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Length (L)	Colour	Tools	Article-No.
MA47 Kit	-	-	-	-	-	Transparent (CL)	30;32	905-50026
MA47-12/3	2 pcs.	12.0	3.0	1.80	1.0 m	Black (BK)	30;32	
MA47-19/6	2 pcs.	22.0	6.0	2.40	1.0 m	Black (BK)	30;32	
MA47-30/8	2 pcs.	33.0	8.0	2.60	1.0 m	Black (BK)	30;32	
MA47-40/12	2 pcs.	40.0	12.0	2.60	1.0 m	Black (BK)	30;32	

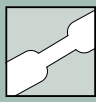
All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools		
	30	32
	H6100	CHG900
	566	565

For more information on toolings please refer to the Application Tooling chapter.



Add items to your watchlist!
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Heat Shrinkable Tubing up to 4:1 - 1 m lengths

MU47 - medium wall unlined

Insulation and production of low voltage cable joints and terminations.

Features and benefits

- Medium wall heat shrink tubing
- Not adhesive lined
- Provides good mechanical strength
- Resistant to solvents, acids and alkaline solutions



Medium wall tubing MA47 with shrink ratio 4:1 and adhesive liner.

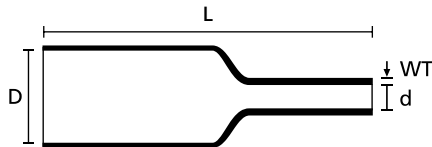


Detailed Information about Heatguns please refer to page 565.



Cut lengths available on request. Please contact us!

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	up to 4:1
Operating Temperature	-55 °C to +110 °C
Min. Shrink Temperature	+120 °C
Longitudinal Change After Shrinkage	-10% max.
Dielectric Strength	15 kV/mm
Flammability	not flame-retardant



Heat Shrinkable Tubing 4:1

HF ✓

RoHS ✓

TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Length (L)	Colour	Tools	Article-No.
MU47-12/3	12.0	3.0	1.80	1.0 m	Black (BK)	30;32	323-10120
MU47-19/6	22.0	6.0	2.40	1.0 m	Black (BK)	30;32	323-10190
MU47-30/8	33.0	8.0	2.60	1.0 m	Black (BK)	30;32	323-10300
MU47-40/12	40.0	12.0	2.60	1.0 m	Black (BK)	30;32	323-10400
MU47-50/16	55.0	16.0	2.90	1.0 m	Black (BK)	30;32	323-10500
MU47-63/19	65.0	19.0	2.90	1.0 m	Black (BK)	30;32	323-10630
MU47-75/22	75.0	22.0	3.00	1.0 m	Black (BK)	30;32	323-10750
MU47-95/30	95.0	25.0	3.60	1.0 m	Black (BK)	30;32	323-10950
MU47-115/34	115.0	34.0	3.50	1.0 m	Black (BK)	30;32	323-11150
MU47-140/42	140.0	42.0	3.30	1.0 m	Black (BK)	30;32	323-11400

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools		
	30	32
	H6100	CHG900
	566	565

For more information on toolings please refer to the Application Tooling chapter.





Cable repair kit

LVRK-L

The Cable Repair Kit LVRK-L is a solution for the fast and safe repair of damaged cable and wires in electrical installations. Damaged cable jackets and wires can be repaired safely and durably, saving time and labour

Features and benefits

- Fast, safe and labour-saving repair of cable and wires
- No need for concealed sockets or wire insertion, with subsequent cost savings
- Available as a kit for simple and easy handling
- 1x heat shrinkable tubing, length 200 mm, shrink ratio 4:1, excellent insulation and can be cut for installation
- 5x crimp connectors with heat shrinkable insulation and adhesive liner
- 4x Q-tie heat stabilised cable ties with innovative and time-saving open-head design



Low Voltage Cable Repair Kit - LVRK-L.

MATERIAL	Polyolefin, Chemically cross-linked (PO-X)
Shrink Ratio	4:1
Operating Temperature	-55 °C to +125 °C
Min. Shrink Temperature	+110 °C
Softening Point Adhesive	+110 °C
Longitudinal Change After Shrinkage	-15% max.
Dielectric Strength	15 kV/mm



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TYPE	Length (L)	Colour	Pack Cont.	Tools	Article-No.
LVRK-L-24/6-200	200.0	Black (BK)	1 pc.	30	380-04019

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
	30 H6100
	566

For more information on toolings please refer to the Application Tooling chapter.



Add items to your watchlist!
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Heat shrinkable cable repair sleeves

RMS

RMS wrap-around sleeves are easy to install.

Features and benefits

- Fast, moisture proof and permanent repair of cable jackets
- Only 6 sizes for a wide range of cable diameters: from 10 mm up to 160 mm
- Available in 4 standard lengths, custom lengths available on request
- Each RMS kit is ready for use and comes with instruction sheet, abrasive strip and cleaning sachet
- Weather resistant and halogen free
- TCP (thermo-chromatic paint) spots indicate the sleeve has been sufficiently heated



RMS wrap-around sleeves for rapid and secure cable repair.

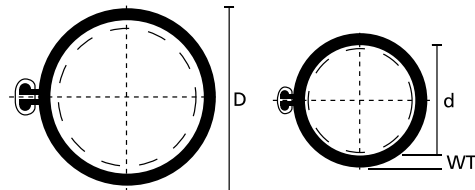
MATERIAL	Polyolefin, Chemically cross-linked (PO-X)
Shrink Ratio	up to 4.5:1
Operating Temperature	-40 °C to +120 °C
Min. Shrink Temperature	+110 °C
Softening Point Adhesive	+105 °C
Longitudinal Change After Shrinkage	-10% max.
Dielectric Strength	30 kV/mm
Flammability	not flame-retardant



RMS: Repair sleeve, steel closure, abrasive strip, cleaning sachet, instruction sheet.



www.HellermannTyton.co.uk/RMS-cat22



Cable Repair Sleeve RMS with adhesive

TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Suitable for Cable Ø from/to	Length (L)	Colour	Tools	Article-No.
RMS 43-10	43.0	10.0	2.30	15 - 35	250.0	Black (BK)	32	450-20000
	43.0	10.0	2.30	15 - 35	500.0	Black (BK)	32	450-20001
	43.0	10.0	2.30	15 - 35	750.0	Black (BK)	32	450-20004
	43.0	10.0	2.30	15 - 35	1,000.0	Black (BK)	32	450-20002
RMS 52-15	52.0	15.0	2.30	20 - 45	250.0	Black (BK)	32	450-20010
	52.0	15.0	2.30	20 - 45	500.0	Black (BK)	32	450-20011
	52.0	15.0	2.30	20 - 45	750.0	Black (BK)	32	450-20014
	52.0	15.0	2.30	20 - 45	1,000.0	Black (BK)	32	450-20012
RMS 76-22	76.0	22.0	2.50	28 - 65	500.0	Black (BK)	32	450-20021
	76.0	22.0	2.50	28 - 65	750.0	Black (BK)	32	450-20024
	76.0	22.0	2.50	28 - 65	1,000.0	Black (BK)	32	450-20022
RMS 100-30	100.0	30.0	2.54	35 - 85	500.0	Black (BK)	32	450-20030
	100.0	30.0	2.54	35 - 85	1,000.0	Black (BK)	32	450-20031
RMS 139-38	139.0	38.0	2.77	45 - 120	1,000.0	Black (BK)	32	450-20041
RMS 185-55	185.0	55.0	2.74	65 - 160	1,000.0	Black (BK)	32	450-20050

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.



Add items to your watchlist!

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Heat shrinkable straight-through joint

LVK

LVK is a heat shrinkable straight-through joint for universal connecting of unarmoured polymeric cables or conductors insulated with PVC, PE and XLPE. Suitable for compression and mechanical connectors on aluminium or copper cables. Voltage level 0.6/1.0 (1.2) kV.

Features and benefits

- Universally suitable to connect cables and conductors
- Immediately ready for use
- Using a high-quality thermoplastic inner adhesive
- Good corrosion protection properties with excellent abrasion resistance and weather resistance
- TCP (thermo chromatic paint) spots indicate the sleeve has been sufficiently heated
- Resistant to chemical agents and alkaline earths
- Excellent shrink behavior
- High UV resistance
- Halogen free

MATERIAL	Polyolefin, cross-linked (PO-X)
Colour	Black (BK)
Shrink Ratio	up to 4:1
Operating Temperature	-55 °C to +110 °C
Min. Shrink Temperature	+120 °C
Softening Point Adhesive	+105 °C
Longitudinal Change After Shrinkage	-10% max.
Dielectric Strength	20 kV/mm



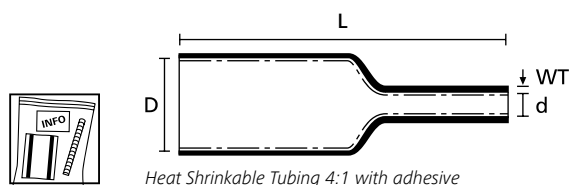
LVK - Heat shrinkable straight-through joint.



LVK: Outer sleeve, inner sleeves, cleaning cloth, emery cloth, installation instructions.

HF ✓

RoHS ✓



Recommended Tools	
	32 CHG900
	565

For more information on toolings please refer to the Application Tooling chapter.

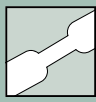
Without connector!

TYPE	No. of Inner sleeves	Conductor Size Range mm ²	Inner Tubing Supplied Ø D min.	Inner Tubing Recov. Ø d max.	Inner Tubing Length (L)	Outer Tubing Supplied Ø D min.	Outer Tubing Recov. Ø d max.	Outer Tubing Length (L)	Tools	Article-No.
LVK-4x16-50	4	16-50	22.0	6.0	170.0	55.0	16.0	550.0	32	380-04008
LVK-4x25-150	4	25-150	33.0	8.0	250.0	105.0	25.0	800.0	32	380-04010
LVK-4x25-95	4	25-95	33.0	8.0	250.0	75.0	20.0	800.0	32	380-04009
LVK-4x95-300	4	95-300	40.0	12.0	280.0	130.0	35.0	900.0	32	380-04011
LVK-5x1.5-16	5	1.5-16	19.0	3.2	125.0	48.0	12.0	450.0	32	380-04006
LVK-5x1.5-6	5	1.5-6	12.0	3.0	70.0	48.0	12.0	250.0	32	380-04005
LVK-5x6-25	5	6-25	22.0	6.0	125.0	55.0	16.0	500.0	32	380-04007

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.



Add items to your watchlist!
www.HT.click/49-257



Heat shrinkable straight-through joint with mechanical connectors

LVK-C - adhesive lined

LVK-C is a heat shrinkable straight-through joint for universal connecting of unarmoured polymeric cables or conductors insulated with PVC, PE and XLPE. With mechanical connectors for aluminium or copper cables. Voltage level 0.6/1.0 (1.2) kV.

Features and benefits

- Universally suitable to connect cables and conductors
- Immediately ready for use
- Using a high-quality thermoplastic inner adhesive
- Good corrosion protection properties with excellent abrasion resistance and weather resistance
- TCP (thermo chromatic paint) spots indicate the sleeve has been sufficiently heated
- Resistant to chemical agents and alkaline earths
- Excellent shrink behavior
- High UV resistance
- With mechanical connectors
- Halogen free



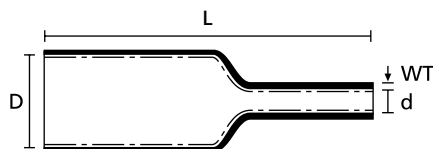
LVK-C - Heat shrinkable straight-through joint with connectors.



LVK-C: Outer sleeve, inner sleeves, mechanical connectors, cleaning cloth, emery cloth, installation instructions.



With connector!



Heat Shrinkable Tubing 4:1 with adhesive

MATERIAL	Polyolefin, cross-linked (PO-X)
Colour	Black (BK)
Shrink Ratio	up to 4:1
Operating Temperature	-55 °C to +110 °C
Min. Shrink Temperature	+120 °C
Softening Point Adhesive	+105 °C
Longitudinal Change After Shrinkage	-10% max.
Dielectric Strength	20 kV/mm



TYPE	No. of Inner sleeves	Conductor Size Range mm ²	Inner Tubing Supplied Ø D min.	Inner Tubing Recov. Ø d max.	Inner Tubing Length (L)	Outer Tubing Supplied Ø D min.	Outer Tubing Recov. Ø d max.	Outer Tubing Length (L)	Tools	Article-No.
LVK-C-4x16-50	4	16-50	22.0	6.0	170.0	55.0	16.0	550.0	32	380-04016
LVK-C-4x25-150	4	25-150	33.0	8.0	250.0	105.0	25.0	800.0	32	380-04018
LVK-C-4x25-95	4	25-95	33.0	8.0	250.0	75.0	20.0	800.0	32	380-04017
LVK-C-5x1.5-16	5	1.5-16	19.0	3.2	125.0	48.0	12.0	450.0	32	380-04014
LVK-C-5x1.5-6	5	1.5-6	12.0	3.0	70.0	48.0	12.0	250.0	32	380-04013
LVK-C-5x6-25	5	6-25	22.0	6.0	125.0	55.0	16.0	500.0	32	380-04015

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.





Heat shrinkable tubing 4:1 - Flame retardant

HA40 - thick wall adhesive lined

Designed for low voltage cable joints and terminations in shipbuilding. Insulates and protects against moisture.

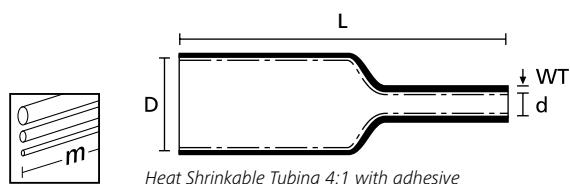
Features and benefits

- Thick wall adhesive lined shrink tubing for low voltage power cables
- Designed for shipbuilding, Germanische Lloyd approved
- Flame retarded
- UV and weather resistant
- Excellent mechanical performance



HA40 thick wall, adhesive lined and flame retarded tubing for shipbuilding applications.

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	up to 4:1
Operating Temperature	-55 °C to +110 °C
Min. Shrink Temperature	+120 °C
Softening Point Adhesive	+85 °C
Longitudinal Change After Shrinkage	-10% max.
Dielectric Strength	15 kV/mm
Flammability	self-extinguishing



LFH ✓

RoHS ✓

TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Length (L)	Colour	Tools	Article-No.
HA40-9/3	9.0	3.0	2.00	1.0 m	Black (BK)	32	321-00100
HA40-13/4	13.0	4.0	2.20	1.0 m	Black (BK)	32	321-00101
HA40-22/6	22.0	6.0	2.70	1.0 m	Black (BK)	32	321-00102
HA40-33/8	33.0	8.0	3.20	1.0 m	Black (BK)	32	321-00103
HA40-40/12	40.0	12.0	4.10	1.0 m	Black (BK)	32	321-00104
HA40-55/16	55.0	16.0	4.10	1.0 m	Black (BK)	32	321-00105
HA40-75/22	75.0	22.0	4.10	1.0 m	Black (BK)	32	321-00106
HA40-92/25	92.0	25.0	4.20	1.0 m	Black (BK)	32	321-00107

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
	32 CHG900
	565

For more information on toolings please refer to the Application Tooling chapter.

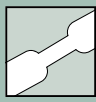


For product specific approvals and specifications please refer to the Appendix.



Add items to your watchlist!

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Heat Shrinkable Tubing up to 3,5:1 - 1 m lengths

HA47 - thick wall adhesive lined

The toughness and weatherability makes it well suited for exposed applications and underground cable joints and cable terminations.

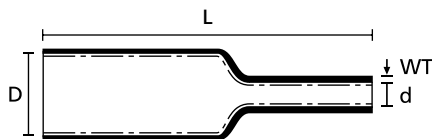
Features and benefits

- Thick wall polyolefin adhesive-lined sleeving
- Thermoplastic adhesive protects against moisture and weathering
- Used for low voltage power applications



HA47 - Halogenfree 4:1 Heavy Dual Wall Heat Shrink Tubing.

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	up to 4:1
Operating Temperature	-55 °C to +110 °C
Min. Shrink Temperature	+120 °C
Softening Point Adhesive	+85 °C
Longitudinal Change After Shrinkage	-10% max.
Dielectric Strength	15 kV/mm
Flammability	not flame-retardant
Insulation Class	A (VDE 0530)



Heat Shrinkable Tubing 3.5:1 with adhesive

RoHS

TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Length (L)	Colour	Tools	Article-No.
HA47-9/3	9.0	3.0	2.00	1.0 m	Black (BK)	32	321-20090
HA47-13/4	13.0	4.0	2.40	1.0 m	Black (BK)	32	321-20130
HA47-19/6	19.0	6.0	2.70	1.0 m	Black (BK)	32	321-20180
HA47-33/8	33.0	8.0	3.20	1.0 m	Black (BK)	32	321-20280
HA47-45/12	45.0	12.0	4.00	1.0 m	Black (BK)	32	321-20450
HA47-51/16	51.0	16.0	4.00	1.0 m	Black (BK)	32	321-20510
HA47-68/22	68.0	22.0	4.00	1.0 m	Black (BK)	32	321-20680
HA47-85/25	85.0	25.0	4.20	1.0 m	Black (BK)	32	321-20850
HA47-105/30	105.0	30.0	4.20	1.0 m	Black (BK)	32	321-20900
HA47-130/36	130.0	36.0	4.20	1.0 m	Black (BK)	32	321-21300
HA47-160/50	165.0	50.0	4.20	1.0 m	Black (BK)	32	321-21600
HA47-180/50	180.0	50.0	4.20	1.0 m	Black (BK)	32	321-21850

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
	32 CHG900
	565

For more information on toolings please refer to the Application Tooling chapter.





Heat Shrinkable Tubing 6:1, adhesive lined in 1.2 m cuts

HA67

Insulates, seals and protects large size differences between connectors and cables.

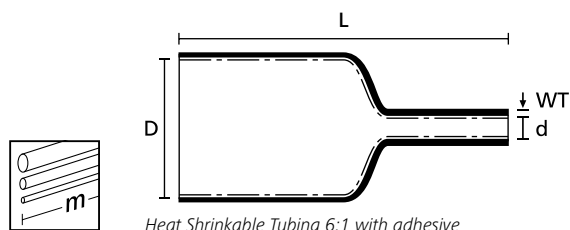
Features and benefits

- High shrink ratio, heavy-duty heat shrinkable tubing
- Thermoplastic adhesive-lined tubing
- Conforms well to highly variable substrate dimensions
- Simplifies cable repair
- Passes over large connectors and shrinks onto much smaller cable jackets
- Environmental sealing and excellent insulation
- Resistant to impact and abrasion



Due to the high shrink ratio HA67 is suitable for complex shapes and dimensions.

MATERIAL	Polyolefin, Chemically cross-linked (PO-X)
Shrink Ratio	6:1
Operating Temperature	-55 °C to +110 °C
Min. Shrink Temperature	+120 °C
Softening Point Adhesive	+85 °C
Longitudinal Change After Shrinkage	-10% max.
Dielectric Strength	20 kV/mm
Flammability	not flame-retardant



Heat Shrinkable Tubing 6:1 with adhesive



TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Length (L)	Colour	Tools	Article-No.
HA67-19.0/3.2	19.0	3.2	3.20	1.2 m	Black (BK)	32	321-30000
HA67-33.0/5.5	33.0	5.5	3.40	1.2 m	Black (BK)	32	321-30100
HA67-44.4/7.4	44.4	7.4	3.60	1.2 m	Black (BK)	32	321-30200
HA67-50.8/8.3	50.8	8.3	4.80	1.2 m	Black (BK)	32	321-30300
HA67-69.8/11.7	69.8	11.7	4.80	1.2 m	Black (BK)	32	321-30400
HA67-88.9/17.1	88.9	17.1	4.80	1.2 m	Black (BK)	32	321-30500
HA67-119.4/22.9	119.4	22.9	4.80	1.2 m	Black (BK)	32	321-30600

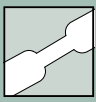
All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
	32 CHG900
	565

For more information on toolings please refer to the Application Tooling chapter.



Add items to your watchlist!
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Heat Shrinkable Tubing 2:1 - Flame retardant

TR27

TR27 is used in applications where toxic emissions evolved in a fire must be minimised, e.g. heavily populated buildings or safety sensitive areas like tunnels, hospitals, schools, theatres, mass transit vehicles and computer centres.

Features and benefits

- Thin wall, flexible polyolefin tubing
- Optional available with adhesive or as thick wall version (SR27)
- Halogen free and excellent flame-retardant properties
- Meets various industrial standards

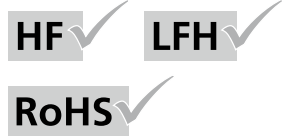


TR27 is ideal for safety sensitive areas.

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	2:1
Operating Temperature	-40 °C to +105 °C, (+105 °C for 500 h)
Min. Shrink Temperature	+115 °C
Longitudinal Change After Shrinkage	+5%/-10% max.
Dielectric Strength	15 kV/mm
Flammability	Limited Fire Hazard, Halogen free, Low generation of toxic gases and corrosive acid, Low smoke generation



Heat Shrinkable Tubing 2:1



TYPE	Supplied Ø D min.	Size (imperial)	Recov. Ø d max.	Wall (WT)	Reel Length	Colour	Tools	Article-No.
TR27-3.2/1.6	3.2	1/8 "	1.6	0.51	150 m	Black (BK)	30	315-50320
TR27-4.8/2.4	4.8	3/16 "	2.4	0.51	60 m	Black (BK)	30	315-50480
TR27-6.4/3.2	6.4	1/4 "	3.2	0.64	60 m	Black (BK)	30	315-50640
TR27-9.5/4.8	9.5	3/8 "	4.8	0.64	60 m	Black (BK)	30	315-50950
TR27-12.7/6.4	12.7	1/2 "	6.4	0.64	60 m	Black (BK)	30	315-51270
TR27-19.1/9.5	19.1	3/4 "	9.5	0.76	60 m	Black (BK)	30	315-51900
TR27-25.4/12.7	25.4	1 "	12.7	0.51	60 m	Black (BK)	30	315-52540
TR27-38.1/19.1	38.1	1-1/2 "	19.1	1.02	60 m	Black (BK)	30	315-53810
TR27-50.8/25.4	50.8	2 "	25.4	1.14	60 m	Black (BK)	30	315-55100

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
	30 H6100
	566

For more information on toolings please refer to the Application Tooling chapter.

EN 45545-2

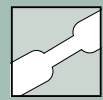
For product specific approvals and specifications please refer to the Appendix.



Add items to your watchlist!

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Heat shrinkable tubing 3:1 - Flame retardant

TA37 – thin wall adhesive lined

TA37 shrink tubing has a low smoke index and excellent flame retardant properties to meet strict fire security standards in electrical insulation.

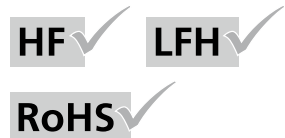
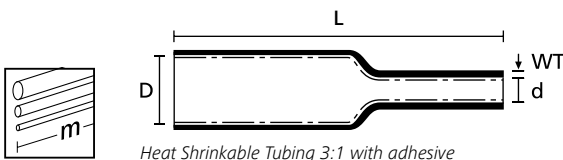
Features and benefits

- Thin wall adhesive lined heat shrink tubing
- Halogen free
- Flame retardant
- Combination of these three (halogen free, adhesive lined and flame retardant) product properties is unique



TA37 - Halogenfree and self-extinguishing 3:1 Thin Dual Wall Heat Shrink Tubing.

MATERIAL	Polyolefin, Chemically cross-linked (PO-X)
Shrink Ratio	3:1
Operating Temperature	-40 °C to +105 °C, (+105 °C for 500 h)
Min. Shrink Temperature	+120 °C
Softening Point Adhesive	+85 °C
Longitudinal Change After Shrinkage	+3%/-15%
Dielectric Strength	19.7 kV/mm
Flammability	self-extinguishing, Low smoke generation, Low generation of toxic gases and corrosive acid



TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Length (L)	Colour	Tools	Article-No.
TA37 3-1	3.2	1.0	0.95	1.2 m	Black (BK)	30	315-13000
TA37 4.5-1.5	4.8	1.5	1.10	1.2 m	Black (BK)	30	315-13001
TA37 6-2	6.4	2.0	1.20	1.2 m	Black (BK)	30	315-13002
TA37 9-3	9.5	3.0	1.30	1.2 m	Black (BK)	30	315-13003
TA37 12-4	12.7	4.0	1.40	1.2 m	Black (BK)	30	315-13004
TA37 19-6	19.1	6.0	2.20	1.2 m	Black (BK)	30	315-13005
TA37 24-8	24.0	8.0	2.50	1.2 m	Black (BK)	30	315-13006
TA37 40-13	40.0	13.0	2.50	1.2 m	Black (BK)	30	315-13007
TA37 50-19	50.0	19.0	4.00	1.2 m	Black (BK)	30	315-13008
TA37 75-25	75.0	25.0	3.00	1.2 m	Black (BK)	30	315-13009
TA37 120-45	120.0	45.0	4.00	1.2 m	Black (BK)	30	315-13011

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content.

EN 45545-2

For product specific approvals and specifications please refer to the Appendix.



Add items to your watchlist!

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Heat shrinkable tubing 4:1 - 1.2 m lengths

SA47-LA - standard wall adhesive lined for perfect corrosion protection

SA47-LA is a semi-rigid halogen free polyolefin tubing with an inner liner of hot melt adhesive. It has excellent tensile strength and strain relief. The adhesive liner provides superb moisture protection. Ideal for electrical connections and splices in automobiles. Tubing is transparent and hot melt adhesive is black.

SA47-LA is specially designed with less adhesive for cable connections.

Features and benefits

- Flexible, standard wall polyolefin heat shrink tubing
- Industry leading corrosion protection
- Excellent tensile strength and strain relief
- Provides excellent moisture protection
- Tubing is clear and hot melt adhesive black
- Provides environmental sealing of complex parts
- Halogen free



**Cut lengths available on request.
Please contact us!**

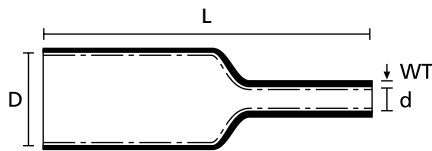


SA47-LA - High performance heat shrink tubing.

MATERIAL	Polyolefin, cross-linked (PO-X)
Shrink Ratio	4:1
Operating Temperature	-40 °C to +125 °C
Min. Shrink Temperature	+130 °C
Melting Point	+110 °C
Longitudinal Change After Shrinkage	-10% max.
Dielectric Strength	>20 kV/mm

HF ✓

RoHS ✓



Heat Shrinkable Tubing 4:1 with adhesive



Available with transparent inner adhesive on request.

TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Length (L)	Colour	Tools	Article-No.
SA47-LA 5.75/1.25	5.75	1.25	1.15	1.2 m	Transparent (CL), Black (BK)	30	301-10020
SA47-LA 7.5/1.65	7.5	1.65	1.40	1.2 m	Transparent (CL), Black (BK)	30	301-10021
SA47-LA 11.0/2.4	11.0	2.4	1.80	1.2 m	Transparent (CL), Black (BK)	30	301-10022
SA47-LA 18.3/4.35	18.3	4.35	2.20	1.2 m	Transparent (CL), Black (BK)	30	301-10023
SA47-LA 24/6	24.0	6.0	2.54	1.2 m	Transparent (CL), Black (BK)	30	301-10024
SA47-LA 32/8	32.0	8.0	2.54	1.2 m	Transparent (CL), Black (BK)	30	301-10025
SA47-LA 52/13	52.0	13.0	3.00	1.2 m	Transparent (CL), Black (BK)	30	301-10026

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
	30 H6100
	566

For more information on toolings please refer to the Application Tooling chapter.





Heat Shrinkable Tubing 2:1 - Elastomer

SE28

SE28 is used for long-term protection of cables and wire harnesses in military equipment, motor sports, and aviation.

Features and benefits

- Flexible, high performance elastomeric heat shrink tubing
- Used in aerospace, defence, railway and automotive applications
- Resistant to diesel fuel, aviation and hydraulic fluids
- Provides a reliable protection against abrasion and mechanical damage
- Very suitable for protecting cables and wire harnesses
- For high temperature applications up to 150 °C



SE28 - Diesel resistant 2:1 high performance elastomer heat shrink tubing.



www.HellermannTyton.co.uk/SE28-cat22



**Product also available with thin wall (TE28).
See more info on our internet page.**

MATERIAL	Elastomer, cross-linked (POA)
Shrink Ratio	2:1
Operating Temperature	-75 °C to +150 °C
Min. Shrink Temperature	+170 °C
Longitudinal Change After Shrinkage	-10% max.
Dielectric Strength	20 kV/mm
Flammability	self-extinguishing



Heat Shrinkable Tubing 2:1



TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Reel Length	Colour	Designation as per VG-Norm	Tools	Article-No.
SE28 3.2/1.6	3.2	1.6	0.75	150 m	Black (BK)	VG 95343 T05 D 001 A	30	342-20000
SE28 4.8/2.4	4.8	2.4	0.85	60 m	Black (BK)	VG 95343 T05 D 002 A	30	342-20010
SE28 6.4/3.2	6.4	3.2	0.90	60 m	Black (BK)	VG 95343 T05 D 003 A	30	342-20020
SE28 9.5/4.8	9.5	4.8	1.00	60 m	Black (BK)	VG 95343 T05 D 004 A	30	342-20030
SE28 12.7/6.4	12.7	6.4	1.20	60 m	Black (BK)	VG 95343 T05 D 005 A	30	342-20040
SE28 19.0/9.5	19.0	9.5	1.45	30 m	Black (BK)	VG 95343 T05 D 006 A	30	342-20050
SE28 25.4/12.7	25.4	12.7	1.80	30 m	Black (BK)	VG 95343 T05 D 007 A	30	342-20060
SE28 38.0/19.0	38.0	19.0	2.40	30 m	Black (BK)	VG 95343 T05 D 008 A	30	342-20070
SE28 51.0/25.4	51.0	25.4	2.80	30 m	Black (BK)	VG 95343 T05 D 009 A	30	342-20080
SE28 76.0/38.0	76.0	38.0	3.20	15 m	Black (BK)	VG 95343 T05 D 010 A	30	342-20090
SE28 101.2/51.0	102.0	51.0	3.60	10 m	Black (BK)	VG 95343 T05 D 011 A	30	342-20100

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
	30 H6100
	566

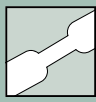
For more information on toolings please refer to the Application Tooling chapter.



For product specific approvals and specifications please refer to the Appendix.



Add items to your watchlist!
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Heat shrinkable tubing 2:1 - PVDF

TK20

Typical applications of this translucent tubing are where high-temperature performance is required. Also very suitable for applications that ask for visual inspection of covered components, or if a low friction surface is needed. TK20 is also used as oil stop for energy cables.

This thin walled, translucent heat shrink tubing is often used for chemical applications.

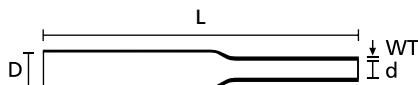
Features and benefits

- Semi-rigid heat shrinkable tubing made of PVDF
- Thin wall and tough
- For higher temperature applications
- Very good mechanical strength, abrasion resistance and chemical resistance
- Meets various industrial standards
- Self extinguishing, UL 224 VW1 listed



This thin walled, translucent heat shrink tubing is often used for chemical applications.

MATERIAL	Polyvinylidene Fluoride (PVDF)
Shrink Ratio	2:1
Operating Temperature	-55 °C to +175 °C
Min. Shrink Temperature	+170 °C
Longitudinal Change After Shrinkage	+/-10% max
Dielectric Strength	30 kV/mm
Flammability	UL 224 VW-1, self-extinguishing



Heat Shrinkable Tubing 2:1



TYPE	Supplied Ø D min.	Size (imperial)	Recov. Ø d max.	Wall (WT)	Length (L)	Colour	Designation as per VG-Norm	Tools	Article-No.
TK20-1.2/0.6	1.2	3/64 "	0.6	0.25	1.2 m	Transparent (CL)	VG 95343 T05 F 001 M	30	331-00129
TK20-1.6/0.8	1.6	1/16 "	0.8	0.25	1.2 m	Transparent (CL)	VG 95343 T05 F 002 M	30	311-00169
TK20-2.4/1.2	2.4	3/32 "	1.2	0.25	1.2 m	Transparent (CL)	VG 95343 T05 F 003 M	30	311-00249
TK20-3.2/1.6	3.2	1/8 "	1.6	0.25	1.2 m	Transparent (CL)	VG 95343 T05 F 004 M	30	311-00329
TK20-4.8/2.4	4.8	3/16 "	2.4	0.25	1.2 m	Transparent (CL)	VG 95343 T05 F 005 M	30	311-00489
TK20-6.4/3.2	6.4	1/4 "	3.2	0.30	1.2 m	Transparent (CL)	VG 95343 T05 F 006 M	30	311-00649
TK20-9.5/4.8	9.5	3/8 "	4.75	0.30	1.2 m	Transparent (CL)	VG 95343 T05 F 007 M	30	311-00959
TK20-12.7/6.4	12.7	1/2 "	6.4	0.30	1.2 m	Transparent (CL)	VG 95343 T05 F 008 M	30	311-01279
TK20-19.1/9.5	19.1	3/4 "	9.5	0.43	1.2 m	Transparent (CL)	VG 95343 T05 F 009 M	30	311-01909
TK20-25.4/12.7	25.4	1 "	12.7	0.48	1.2 m	Transparent (CL)	VG 95343 T05 F 010 M	30	311-02549
TK20-38.1/19.1	38.1	1-1/2 "	19.1	0.51	1.2 m	Transparent (CL)	-	30	311-03819
TK20-50.8/25.4	50.8	2 "	25.4	0.51	1.2 m	Transparent (CL)	-	30	311-05089

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
	30 H6100
	566

For more information on toolings please refer to the Application Tooling chapter.

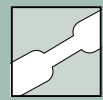


For product specific approvals and specifications please refer to the Appendix.



Add items to your watchlist!

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Heat Shrinkable Tubing 2:1 - Fluoroelastomer

Viton®-E

Viton®-E is used for reliable protection against aggressive chemicals in high temperature environments like engine compartments and turbines. It is also used when protective tubings are required to remain flexible at low temperatures.

Features and benefits

- High temperature resistant fluoroelastomeric heat shrink tubing
- Very good electrical, chemical and mechanical features
- Resistant to many fuels, oils and lubricants
- Flexible even at very low temperatures



Viton®-E for flexibility and protection against aggressive chemicals.

MATERIAL	Fluoropolymer, cross-linked (FPMX)
Shrink Ratio	2:1
Operating Temperature	-55 °C to +200 °C
Min. Shrink Temperature	+170 °C
Longitudinal Change After Shrinkage	-10% max.
Dielectric Strength	8 kV/mm
Flammability	self-extinguishing
Insulation Class	C (VDE 0530)



Heat Shrinkable Tubing 2:1



TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Reel Length	Colour	Designation as per VG-Norm	Tools	Article-No.
VITON®-E-3.2/1.6	3.2	1.6	0.70	50 m	Black (BK)	VG 95343 T05 E 001 A	30	330-00320
VITON®-E-4.8/2.4	4.8	2.4	0.80	50 m	Black (BK)	VG 95343 T05 E 002 A	30	330-00480
VITON®-E-6.4/3.2	6.4	3.2	0.90	50 m	Black (BK)	VG 95343 T05 E 003 A	30	330-00640
VITON®-E-9.5/4.8	9.5	4.8	1.00	25 m	Black (BK)	VG 95343 T05 E 004 A	30	330-00950
VITON®-E-12.7/6.4	12.7	6.4	1.20	25 m	Black (BK)	VG 95343 T05 E 005 A	30	330-01270
VITON®-E-19.0/9.5	19.0	9.5	1.40	25 m	Black (BK)	VG 95343 T05 E 006 A	30	330-01900
VITON®-E-25.4/12.7	25.4	12.7	1.80	25 m	Black (BK)	VG 95343 T05 E 007 A	30	330-02540
VITON®-E-38.0/19.0	38.0	19.0	2.40	15 m	Black (BK)	VG 95343 T05 E 008 A	30	330-03810
VITON®-E-50.8/25.4	50.8	25.4	2.80	15 m	Black (BK)	VG 95343 T05 E 009 A	30	330-05080

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
	30 H6100
	566

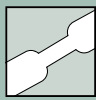
For more information on toolings please refer to the Application Tooling chapter.



For product specific approvals and specifications please refer to the Appendix.



Add items to your watchlist!
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Heat Shrinkable Tubing - PTFE

TFE2 2:1

TFE is ideal for high temperature applications, when resistance to aggressive fluids is required or a very thin walled tubing is needed, for example in pH-measuring instruments. TFE tubing is also used to reduce movement due to friction, covering cylinders for example.

Features and benefits

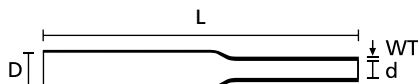
- PTFE heat shrink tubing
- Very high temperature resistance
- Extra thin wall translucent tubing
- High abrasion resistance and good resistance against aggressive chemicals
- Available in either 2:1 (TFE2) or 4:1 (TFE4) shrink ratios



TFE is available in either 2:1 or 4:1 shrink ratios.



**Cut lengths available on request.
Please contact us!**



Heat Shrinkable Tubing 2:1

MATERIAL	Polytetrafluoroethylene (PTFE)
Operating Temperature	-65 °C to +260 °C
Min. Shrink Temperature	+330 °C
Longitudinal Change After Shrinkage	-20% max.
Dielectric Strength	40 kV/mm
Flammability	Non burning

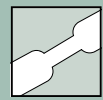
RoHS ✓

TYPE	Supplied Ø D min.	Recov. Ø d max.	Wire Size (AWG)	Wall (WT)	Length (L)	Colour	Shrink Ratio	Tools	Article-No.
TFE2-30	0.86	0.38	30	0.23	1.2 m	Transparent (CL)	2:1	30	336-00079
TFE2-28	0.96	0.46	28	0.23	1.2 m	Transparent (CL)	2:1	30	336-00099
TFE2-26	1.17	0.56	26	0.23	1.2 m	Transparent (CL)	2:1	30	336-00109
TFE2-24	1.27	0.69	24	0.25	1.2 m	Transparent (CL)	2:1	30	336-00139
TFE2-22	1.39	0.82	22	0.25	1.2 m	Transparent (CL)	2:1	30	336-00149
TFE2-20	1.52	0.99	20	0.30	1.2 m	Transparent (CL)	2:1	30	336-00159
TFE2-18	1.93	1.25	18	0.30	1.2 m	Transparent (CL)	2:1	30	336-00199
TFE2-16	2.36	1.55	16	0.30	1.2 m	Transparent (CL)	2:1	30	336-00249
TFE2-14	3.05	1.83	14	0.30	1.2 m	Transparent (CL)	2:1	30	336-00319
TFE2-12	3.81	2.26	12	0.30	1.2 m	Transparent (CL)	2:1	30	336-00399
TFE2-10	4.85	2.85	10	0.30	1.2 m	Transparent (CL)	2:1	30	336-00489
TFE2-8	6.10	3.58	8	0.38	1.2 m	Transparent (CL)	2:1	30	336-00619
TFE2-6	7.67	4.52	6	0.38	1.2 m	Transparent (CL)	2:1	30	336-00779
TFE2-4	9.40	5.69	4	0.38	1.2 m	Transparent (CL)	2:1	30	336-00949
TFE2-2	10.92	7.06	2	0.38	1.2 m	Transparent (CL)	2:1	30	336-01109
TFE2-0	11.94	8.81	0	0.38	1.2 m	Transparent (CL)	2:1	30	336-01209

All dimensions in mm. Subject to technical changes.

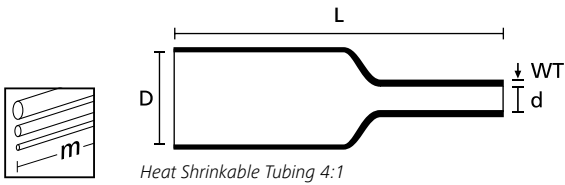
AWG: American Wire Gauge Minimum Order Quantity (MOQ) may differ from package content.





Heat Shrinkable Tubing - PTFE

TFE4 4:1



TYPE	Supplied Ø D min.	Recov. Ø d max.	Size (imperial)	Wall (WT)	Length (L)	Colour	Shrink Ratio	Tools	Article-No.
TFE4-5/64	1.98	0.64	5/64 "	0.22	1.2 m	Transparent (CL)	4:1	30	339-00209
TFE4-1/8	3.17	0.94	1/8 "	0.25	1.2 m	Transparent (CL)	4:1	30	339-00329
TFE4-3/16	4.75	1.27	3/16 "	0.30	1.2 m	Transparent (CL)	4:1	30	339-00340
TFE4-1/4	6.35	1.60	1/4 "	0.30	1.2 m	Transparent (CL)	4:1	30	339-00649
TFE4-3/8	9.52	2.44	3/8 "	0.30	1.2 m	Transparent (CL)	4:1	30	339-00959
TFE4-1/2	12.7	3.66	1/2 "	0.38	1.2 m	Transparent (CL)	4:1	30	339-01279
TFE4-5/8	15.87	4.52	5/8 "	0.38	1.2 m	Transparent (CL)	4:1	30	339-01599
TFE4-3/4	19.05	5.69	3/4 "	0.38	1.2 m	Transparent (CL)	4:1	30	339-01909
TFE4-1	25.4	7.06	1 "	0.38	1.2 m	Transparent (CL)	4:1	30	339-02549
TFE4-1 1/4	31.80	8.82	1-1/4 "	0.38	1.2 m	Transparent (CL)	4:1	30	339-03189

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.

Recommended Tools	
	30 H6100
	566

For more information on toolings please refer to the Application Tooling chapter.

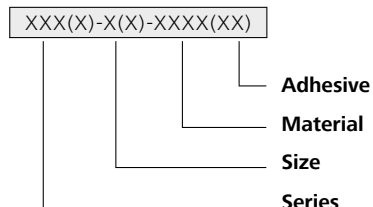


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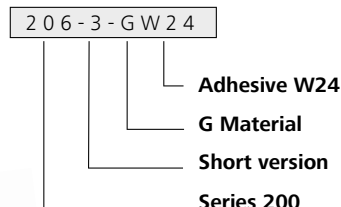
Product Selection for Heat Shrinkable Moulded Shapes

Order Example

Type:



Example:



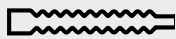
i Other product styles are available. Please refer to Moulded Shapes catalogue.

**Low Profile Boots
Product Overview**

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Convolute Boots

Helashrink 313C Series, with adapter lip



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Shim Boots

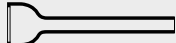
Helashrink 313E Series, without adapter lip



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Straight Boots

Helashrink 313F Series, with adapter lip



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Right Angle Boots

Helashrink 333F Series, with adapter lip, 90° angle



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**Low Profile Boots
Product Overview**

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Transition Boots

Helashrink 412H Series, side breakout



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Transition Boots

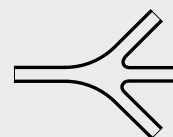
Helashrink 492H Series, 1 to 2 cables



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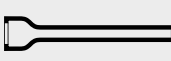
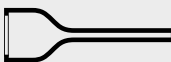

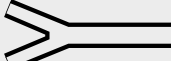

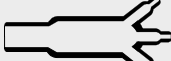
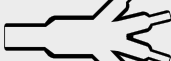



Transition Boots

Helashrink 573H Series, 1 to 3 cables









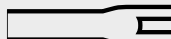
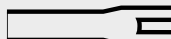
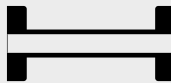




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**Bulbous Boots
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Materials for Heat Shrinkable Moulded Shapes

Material Specifications						
	-9	H	G	B7	B8	L
Material	Modified elastomer blend	Flexible limited fire hazard material	Fluid resistant elastomer	Semi-rigid flame retarded polyolefin	Semi-rigid flame retarded polyolefin	Flexible flame retarded fluoroelastomer
Operating Temperature	-55 °C to 120 °C	-55 °C to +105 °C	-75 °C to +150 °C	-55 °C to +135 °C	-55 °C to +100 °C	-55 °C to +200 °C
Min. Shrink Temperature	+135 °C	+135 °C	+135 °C	+135 °C	+135 °C	+175 °C
Specifications	SCX15112	DEF STAN 59-97, BSG198 Part 5, VG 95343 NAVSEA 5617649	DEF STAN 59-97, BSG198 Part 5, VG 95343 Part 6, 18	MIL-I-81765/1 Type 1, DEF STAN 59-97, BSG198 Part 5	EA-TS 09-11	DEF STAN 59-97, BSG198 Part 5, MIL-81765/4
Tensile Strength	12 MPa	10 MPa	15 MPa	13 MPa	15 MPa	12 MPa
Elongation at break	500%	450%	580%	500%	500%	300%
Dielectric Strength	20 kV/mm	15 kV/mm	14 kV/mm	14 kV/mm	15 kV/mm	8 kV/mm
Flammability for Material	excellent	excellent	excellent	excellent	good	excellent
Typical Application	Military and general high performance harnessing	Ships, submarines & railways	Military and general high performance harnessing	Military and general high performance harnessing	Power/utility shapes	Military and high performance harnessing

Adhesive for Heat Shrinkable Moulded Shapes

Adhesive Specifications							
	W / W2	W8	W21	W24	WM250	V9500	HMT200A
Adhesive	Hot melt adhesive	Hot melt adhesive	Hot melt adhesive	High performance, pre-coat, 1 part epoxy	Hot melt adhesive	Two part, black, epoxy adhesive	Hot melt adhesive tape
Operating Temperature	-55 °C to +80 °C	-55 °C to +105 °C	-55 °C to 120 °C	-75 °C to +200 °C	-55 °C to +80 °C	-75 °C to +150 °C	-55 °C to +105 °C
Softening Point Adhesive	+95 °C	+110 °C	+120 °C	+80 °C	+95 °C		+110 °C
Supplied Form	pre-applied	pre-applied	pre-applied	pre-applied	pre-applied	cartridge	tape
Shelf Life	5 years	5 years	5 years	5 years	5 years	18 months	5 years
Solvent Resistance	Fair under splash conditions	Fair under splash conditions	Saline: Very good De-icing fluid: Good Diesel: Excellent Lubricating Oil: Good Hydraulic Oil: Excellent Aviation Fuel: Good Automotive Fuel: Good	De-icing fluid: Excellent Petrol: Excellent Lubricating Oil: Excellent Hydraulic Oil: Excellent	Fair under splash conditions	De-icing fluid: Excellent, Petrol: Excellent, Lubricating Oil: Excellent, Hydraulic Oil: Excellent	Fair under splash conditions



i A wider range of material / adhesive combinations are available in the Moulded Shapes catalogue.



Low Profile Convolute Boots

Helashrink 313C Series, with adapter lip

Features and benefits

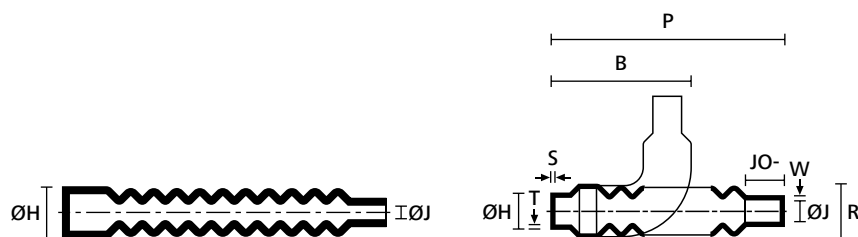
- For circular grooved adapters to provide strain relief
- Excellent environmental sealing with adhesive
- Convoluted design grants flexibility for different cable outlet angles



For Material / Adhesive information please refer to page 272, 273.



313C722-774 Series supplied / fully recovered.



a: Expanded form (supplied)

b: Fully recovered form (after heating)

TYPE	ØH min. a	ØH max. b	ØJ min. a	ØJ max. b	P ± 10%	R max.	JO ± 10 %	W min	B nom	T ± 0.5	S ± 0.5	Article-No.
313C722-9	14.2	6.9	11.1	4.8	120.6	21.1	17.3	1.5	62.4	1.3	1.5	422-00001
313C732-9	22.4	11.7	17.7	8.1	133.3	26.5	19.8	1.5	67.8	1.3	1.5	422-00101
313C743-9	34.0	17.5	26.9	12.7	146.0	32.7	22.3	1.5	73.4	1.3	1.8	422-00201
313C753-9	44.2	22.3	36.5	17.5	158.7	37.8	25.4	1.5	78.2	1.3	1.8	422-00302
313C764-9	53.8	40.6	45.7	22.3	171.4	42.9	28.4	1.5	82.8	2.0	1.8	422-00400
313C774-9	77.2	40.6	54.6	22.8	236.2	62.2	25.4	1.5	138.4	2.0	2.0	422-00501

All dimensions in mm. Subject to technical changes.

For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.



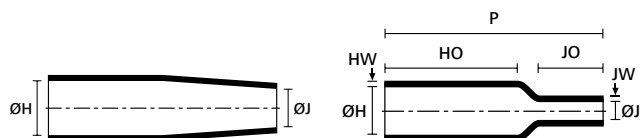


Low Profile Shim Boots

Helashrink 313E Series, without adapter lip

Features and benefits

- Used to build up or shim a cable diameter
- Facilitates better fit for components in cable harness



a: Expanded form (supplied)

b: Fully recovered form (after heating)



313E445-457 Series supplied / fully recovered.

TYPE	ØH min. a	ØH max. b	ØJ min. a	ØJ max. b	P ± 10%	HO ± 10%	HW ± 25%	JW ± 25%	JO ± 10%	Article-No.
313E445-9	12.7	12.7	11.1	3.3	63.5	41.1	1.5	1.5	15.7	422-10000
313E447-9	20.8	14.7	20.6	9.9	63.5	41.1	1.5	1.5	16.5	422-10100
313E455-9	22.1	22.1	11.2	3.3	53.3	27.9	2.3	1.5	15.7	422-10200
313E457-9	22.1	22.1	20.6	9.9	53.3	27.9	2.3	1.5	14.0	422-10300

All dimensions in mm. Subject to technical changes.

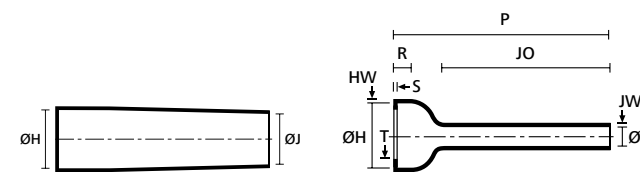
For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.

Low Profile Straight Boots

Helashrink 313F Series, with adapter lip

Features and benefits

- Lightweight strain relief for small cable diameters requiring high shrink ratio



a: Expanded form (supplied)

b: Fully recovered form (after heating)



313F322-396 Series supplied / fully recovered.

TYPE	ØH min. a	ØH max. b	ØJ min. a	ØJ max. b	P ± 10%	R ± 15%	T ± 0.8	JO ± 10%	HW ± 1.5	JW ± 0.8	S ± 1.5	Article-No.
313F322-9	23.8	9.9	17.2	6.6	105.9	11.6	1.3	86.3	1.5	1.5	1.5	422-20000
313F332-9	27.1	13.2	20.8	7.6	121.1	12.1	1.3	98.5	1.5	1.5	1.5	422-20100
313F343-9	30.9	18.5	24.3	8.9	138.6	12.1	1.3	112.7	1.7	1.5	1.7	422-20200
313F353-9	35.6	22.1	28.7	10.1	159.5	12.1	1.3	130.8	1.7	1.5	1.7	422-20300
313F364-9	38.8	28.2	31.4	10.9	177.8	13.9	1.8	142.2	1.7	1.5	1.7	422-20400
313F374-9	42.2	32.2	38.3	12.7	203.2	15.2	1.8	163.0	1.7	1.5	1.7	422-20500
313F385-9	51.5	45.4	45.4	14.9	203.2	15.2	1.8	157.7	1.7	1.7	1.7	422-20600
313F396-9	62.7	45.4	53.3	16.7	228.6	16.0	1.8	153.1	1.7	1.7	1.7	422-20700

All dimensions in mm. Subject to technical changes.

For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.



Add items to your watchlist!

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Low Profile Right Angle Boots

Helashrink 333F-Series, with adapter lip, 90° angle

Features and benefits

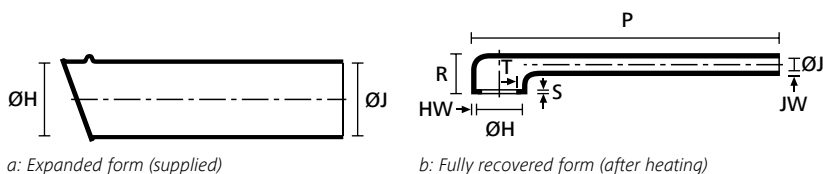
- Lightweight strain relief for small cable diameters requiring high shrink ratio
- Right angle connector housing with long cable entry and inner lip



333F322-385 series as supplied / recovered.



For Material / Adhesive information please refer to page 272, 273.



TYPE	ØH min. a	ØH max. b	ØJ min. a	ØJ max. b	P ± 10%	R ± 15%	T ± 0.8	HW ± 1.5	JW ± 0.8	S ± 1.5	Article-No.
333F322-9	23.8	9.9	17.2	6.6	105.1	18.5	1.3	1.5	1.5	1.5	422-30000
333F332-9	27.1	13.2	20.8	7.6	115.8	19.8	1.3	1.5	1.5	1.5	422-30004
333F343-9	30.9	18.5	24.3	8.9	146.3	20.8	1.3	1.7	1.5	1.7	422-30100
333F353-9	35.3	21.6	28.7	10.1	172.2	21.8	1.3	1.7	1.5	1.7	422-30200
333F364-9	38.8	27.9	31.4	10.9	185.1	24.1	1.8	1.7	1.5	1.7	422-30301
333F374-9	45.2	34.0	38.3	12.1	213.6	27.4	1.8	1.7	1.5	1.7	422-30400
333F385-9	51.5	41.1	44.4	15.0	224.5	29.4	1.7	1.7	1.7	1.7	422-30500

All dimensions in mm. Subject to technical changes.

For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.





Low Profile Transition Boots

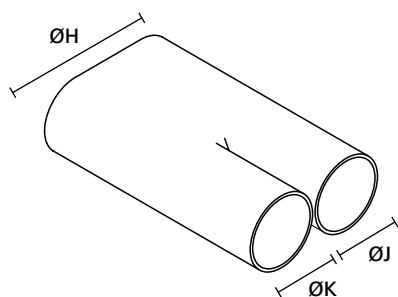
Helashrink 412H Series, side breakout

Features and benefits

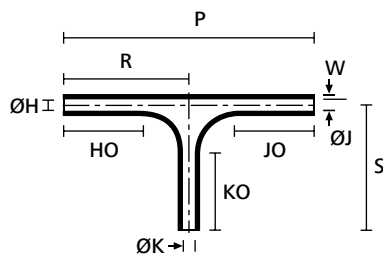
- Connector cable strain relief
- Used with circular adaptors



412H622-625 Series supplied / fully recovered.



a: Expanded form (supplied)



b: Fully recovered form (after heating)

TYPE	ØH min. a	ØH max. b	ØJ/K min. a	ØJ/K max. b	HO/JO/KO ± 10%	P ± 10%	W min	R/S nom	Article-No.
412H622-9	19.8	6.6	13.2	6.6	25.4	80.7	1.0	40.3	422-40000
412H623-9	34.2	11.4	22.8	11.4	41.1	120.3	1.3	60.1	422-40100
412H624-9	60.1	20.0	40.1	20.0	63.5	175.7	1.5	87.8	422-40200
412H625-9	83.3	33.2	54.8	33.2	88.9	242.3	1.7	121.1	422-40300

All dimensions in mm. Subject to technical changes.

For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.



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Low Profile Transition Boots

Helashrink 492H Series, 1 to 2 cables

Features and benefits

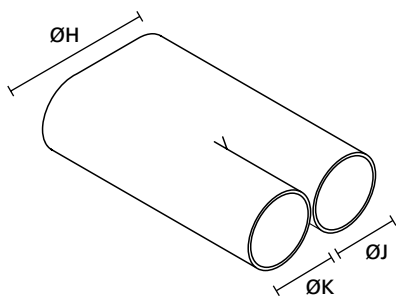
- For cable harness breakouts or transitions
- Strain relief, sealing and mechanical protection



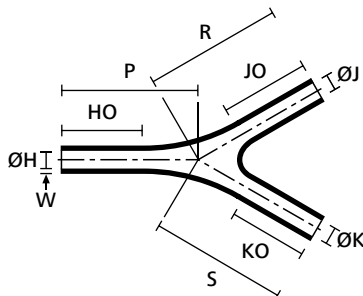
For Material / Adhesive information please refer to page 272, 273.



492H412-415 Series supplied / fully recovered.



a: Expanded form (supplied)



b: Fully recovered form (after heating)

TYPE	ØH min. a	ØH max. b	ØJ/K min. a	ØJ/K max. b	HO/JO/KO ± 15%	W min	P/R/S nom	Article-No.
492H412-9	19.8	6.6	13.2	6.6	25.4	1.0	40.6	422-50000
492H413-9	34.2	11.4	22.8	11.4	41.1	1.3	62.9	422-50101
492H414-9	60.1	20.0	40.1	20.0	63.5	1.5	94.7	422-50202
492H415-9	83.3	33.2	54.8	33.2	49.7	1.7	133.8	422-50302

All dimensions in mm. Subject to technical changes.

For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.





Low Profile Transition Boots

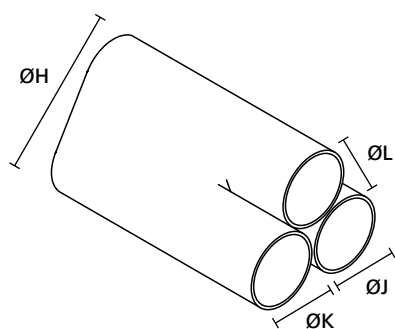
Helashrink 573H Series, 1 to 3 cables

Features and benefits

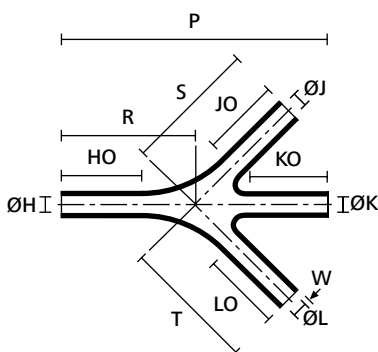
- For cable harness breakouts or transitions
- Strain relief, sealing and mechanical protection



573H532-535 Series supplied / fully recovered.



a: Expanded form (supplied)



b: Fully recovered form (after heating)

TYPE	ØH min. a	ØH max. b	ØJ/K/L min. a	ØJ/K/L max. b	P nom	R/S/T nom	W min	HO/JO/KO/LO ± 15%	Article-No.
573H532-9	19.8	6.6	13.2	6.6	85.8	42.9	1.0	25.4	422-60000
573H533-9	34.2	11.4	20.5	11.4	135.6	67.8	1.3	41.1	422-60100
573H534-9	60.1	20.0	36.0	20.0	207.2	103.6	1.5	63.5	422-60202
573H535-9	99.8	33.2	54.8	33.2	294.6	147.3	1.7	88.9	422-60302

All dimensions in mm. Subject to technical changes.

For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.



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Bottle Shapes, VG style

Helashrink 150 Series, with rib

Features and benefits

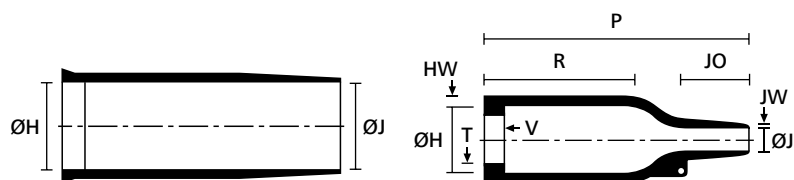
- Use in conjunction with circular grooved adaptors
- Strengthened strain relief by usage of an additional inner lip
- Excellent protection against environment impacts
- Eliminates moisture ingress to harness



150 Series boot recovered onto a connectors.



For Material / Adhesive information please refer to page 272, 273.



a: Expanded form (supplied)

b: Fully recovered form (after heating)



150 Series supplied.

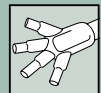
TYPE	$\varnothing H$ min. a	$\varnothing H$ max. b	$\varnothing J$ min. a	$\varnothing J$ max. b	$P \pm$ 10%	$R \pm$ 10%	$JO \pm$ 10%	$HW \pm$ 20%	$JW \pm$ 20%	V max	T \pm 20%	Designation as per VG-Norm	Article-No.
152-41-G	24.0	10.5	24.0	6.0	26.0	9.0	10.0	1.6	0.5	3.3	1.0	VG 95343 T06 A 001 A	401-52780
152-42-G	24.0	10.5	24.0	6.0	38.0	21.0	10.0	1.6	0.5	3.3	1.0	VG 95343 T06 B 001 A	401-52880
153-41-G	25.0	14.0	9.0	3.5	40.0	13.0	16.0	1.8	0.5	3.3	1.0	VG 95343 T06 A 002 A	401-53780
153-42-G	25.0	14.0	9.0	3.5	55.0	28.0	16.0	1.8	0.5	3.3	1.0	VG 95343 T06 B 002 A	401-53880
154-41-G	30.0	14.0	30.0	6.0	43.0	20.0	13.0	1.8	1.0	3.3	1.0	VG 95343 T06 A 003 A	401-54780
154-42-G	30.0	14.0	30.0	6.0	55.0	32.0	13.0	1.8	1.0	3.3	1.0	VG 95343 T06 B 003 A	401-54880
155-42-G	31.0	18.0	31.0	7.0	67.0	35.0	18.0	1.8	1.0	3.3	1.0	VG 95343 T06 B 004 A	401-55880
156-41-G	36.0	22.5	36.0	8.5	60.0	22.0	20.0	2.0	1.0	3.3	1.0	VG 95343 T06 A 005 A	401-56780
156-42-G	36.0	22.5	36.0	8.5	80.0	42.0	20.0	2.0	1.0	3.3	1.0	VG 95343 T06 B 005 A	401-56880
157-41-G	43.0	28.0	43.0	10.0	60.0	21.0	20.0	2.2	1.0	3.3	1.7	VG 95343 T06 A 006 A	401-57780
157-42-G	43.0	28.0	43.0	10.0	79.0	41.0	20.0	2.2	1.0	3.3	1.7	VG 95343 T06 B 006 A	401-57880
157-43-G	43.0	28.0	43.0	10.0	99.0	61.0	20.0	2.2	1.0	3.3	1.7	VG 95343 T06 C 001 A	401-57980
158-41-G	60.0	35.0	60.0	16.0	90.0	32.0	38.0	3.2	1.5	3.3	1.7	VG 95343 T06 A 007 A	401-58780
158-42-G	60.0	35.0	60.0	16.0	110.0	52.0	38.0	3.2	1.5	3.3	1.7	VG 95343 T06 B 007 A	401-58880
158-43-G	60.0	35.0	60.0	16.0	130.0	72.0	38.0	3.2	1.5	3.3	1.7	VG 95343 T06 C 002 A	401-58980
159-41-G	66.0	45.0	66.0	17.0	130.0	50.0	50.0	3.8	2.0	3.3	2.0	VG 95343 T06 A 008 A	401-59780
159-42-G	66.0	45.0	66.0	17.0	150.0	70.0	50.0	3.8	2.0	3.3	2.0	VG 95343 T06 B 008 A	401-59880
159-43-G	66.0	45.0	66.0	17.0	171.0	90.0	50.0	3.8	2.0	3.3	2.0	VG 95343 T18 C 003 A	401-59980
160-41-G	82.0	58.0	82.0	27.0	137.0	37.0	62.0	3.8	3.8	3.3	2.0	VG 95343 T06 A 009 A	401-60780
160-42-G	82.0	58.0	82.0	27.0	158.0	58.0	62.0	3.8	3.8	3.3	2.0	VG 95343 T06 B 009 A	401-60880
160-43-G	82.0	58.0	82.0	27.0	213.0	113.0	62.0	3.8	3.8	3.3	2.0	VG 95343 T06 C 004 A	401-60980

All dimensions in mm. Subject to technical changes. For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.



For product specific approvals and specifications please refer to the Appendix.





Bottle Shapes, MIL-Style

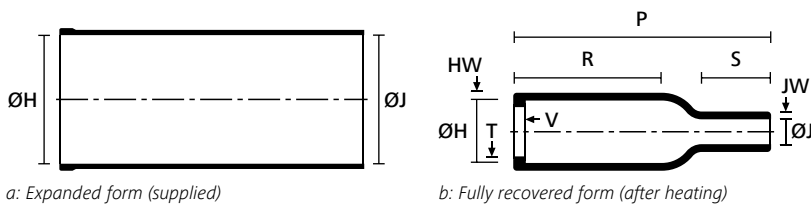
Helashrink 100 Series, with rib

Features and benefits

- With circular grooved adaptor for strain relief
- Combine with complementary adhesives for environmental sealing
- Suitable for small cable diameters



100 series supplied / fully recovered.



TYPE	ØH min. a	ØH max. b	ØJ min. a	ØJ max. b	P ± 10%	R ± 10%	HW ± 20%	JW ± 20%	V ± 10%	T ± 20%	S nom	Article-No.
113-4-G	10.7	7.9	4.6	2.0	25.4	14.5	1.3	1.0	3.0	1.0	4.6	401-13480

All dimensions in mm. Subject to technical changes. For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.

Bottle Shapes

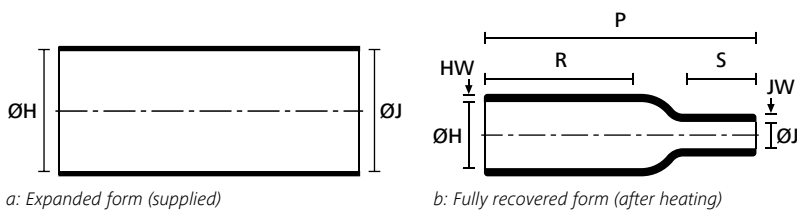
Helashrink 100 Series, without rib

Features and benefits

- Strain relief for connector cable
- Easy re-entry for repair when combined with hot melt adhesive
- For mechanical protection and protection against environment impacts



100 series supplied / fully recovered.



TYPE	ØH min. a	ØH max. b	ØJ min. a	ØJ max. b	P ± 10%	R max.	HW ± 20%	JW ± 30%	S nom	Article-No.
113-1-G	10.7	7.9	4.6	2.0	25.4	14.5	1.3	1.0	4.6	401-13180

All dimensions in mm. Subject to technical changes. For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.



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Long Outlet Shape, VG style

Helashrink 130 Series, with rib, low profile

Features and benefits

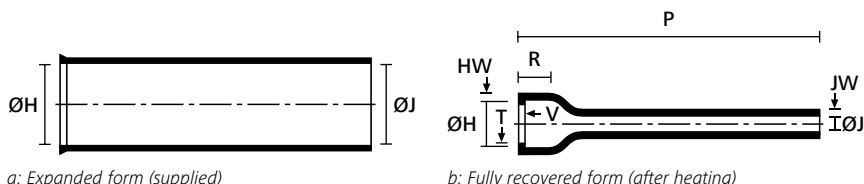
- Low profile and lightweight
- Typically used on airborne harnesses
- Rib locates on circular backshell



For Material / Adhesive information please refer to page 272, 273.



135-1-G as supplied / fully recovered.



a: Expanded form (supplied)

b: Fully recovered form (after heating)

TYPE	ØH min. a	ØH max. b	ØJ min. a	ØJ max. b	P ± 10%	R ± 10%	HW ± 20%	JW ± 20%	V max	T ± 10%	Designation as per VG-Norm	Article-No.
129-1-G	22.0	12.0	22.0	6.5	76.0	12.0	1.5	1.1	3.3	1.0	VG 95343 T06 D 001 A	401-29180
130-1-G	25.5	15.0	25.5	7.5	83.0	12.0	1.5	1.1	3.3	1.0	VG 95343 T06 D 002 A	401-30180
131-1-G	29.0	19.0	29.0	8.5	89.0	12.0	1.8	1.1	3.3	1.0	VG 95343 T06 D 003 A	401-31180
132-1-G	34.0	23.0	34.0	10.0	102.0	12.0	1.8	1.1	3.3	1.0	VG 95343 T06 D 004 A	401-32180
133-1-G	37.0	30.0	37.0	11.0	108.0	14.0	2.0	1.1	3.3	1.7	VG 95343 T06 D 005 A	401-33180
134-1-G	43.5	34.0	43.5	12.0	114.0	15.0	2.0	1.1	3.3	1.7	VG 95343 T06 D 006 A	401-34180
135-1-G	50.0	41.0	50.0	14.5	118.0	15.0	2.3	1.4	3.3	1.7	VG 95343 T06 D 007 A	401-35180
136-1-G	62.5	47.0	62.5	18.0	121.0	16.0	2.5	1.4	3.3	2.0	VG 95343 T06 D 008 A	401-36180
138-1-G	69.0	60.0	69.0	20.0	127.0	16.0	2.5	1.4	3.3	2.0	VG 95343 T06 D 009 A	401-38180

All dimensions in mm. Subject to technical changes.

For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.



For product specific approvals and specifications please refer to the Appendix.





Bottle Shapes, VG style

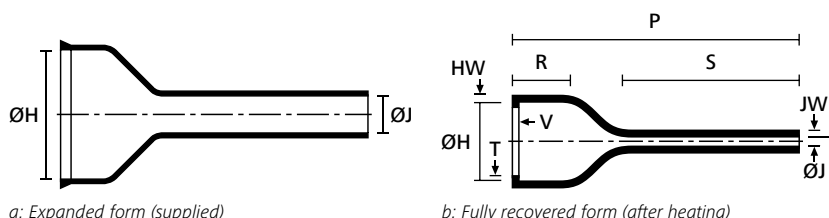
Helashrink 170 Series, with rib

Features and benefits

- Cable strain relief for partially loaded connectors
- Small cable diameters
- Use with our W24 adhesive for excellent chemical resistance



177-1-G as supplied / fully recovered.



TYPE	ØH min. a	ØH max. b	ØJ min. a	ØJ max. b	P ± 10%	R ± 10%	T ± 20%	HW ± 20%	JW nom.	V max	S nom	Designation as per VG-Norm	Article-No.
176-1-G	19.3	13.0	6.3	2.1	60.0	11.7	1.0	1.5	1.1	3.3	38.0	VG 95343 T06 D 011 A	401-76180
177-1-G	26.1	19.1	7.6	2.6	74.0	12.2	1.0	1.8	1.1	3.3	45.0	VG 95343 T06 D 012 A	401-77180
178-1-G	34.2	26.0	9.6	3.1	84.0	12.2	1.0	1.8	1.1	3.3	51.0	VG 95343 T06 D 013 A	401-78180
179-1-G	43.6	34.1	11.4	3.6	100.0	12.2	1.7	1.8	1.1	3.3	58.0	VG 95343 T06 D 014 A	401-79180

All dimensions in mm. Subject to technical changes.

For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.



For product specific approvals and specifications please refer to the Appendix.



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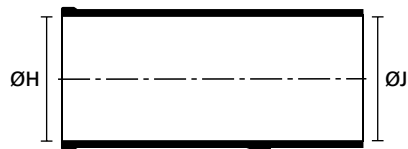


Bottle Shapes, VG style

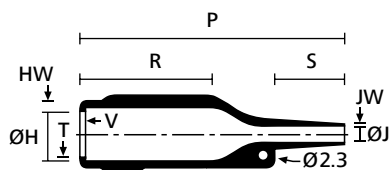
Helashrink 190 Series, with external ribs

Features and benefits

- Specifically for small audio connectors
- Multiple external ribs to improve grip in harsh conditions



a: Expanded form (supplied)



b: Fully recovered form (after heating)



199-4-G supplied / fully recovered.

TYPE	ØH min. a	ØH max. b	ØJ min. a	ØJ max. b	P ± 10%	R ± 10%	HW ± 20%	JW ± 20%	V ± 10%	T ± 20%	S nom	Designation as per VG-Norm	Article-No.
199-4-G	17.5	14.0	7.0	4.3	70.0	35.0	1.8	0.5	1.5	1.0	20.0	VG 95343 T06 A 010 A	401-99480

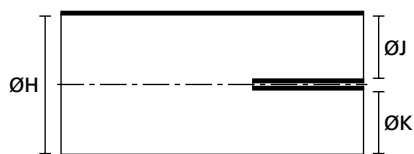
All dimensions in mm. Subject to technical changes. For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.

2-Way Outlet Shapes

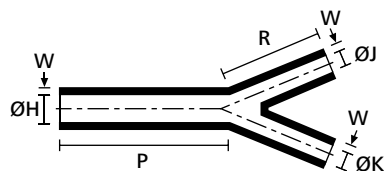
Helashrink 200 Series, low profile

Features and benefits

- For harnesses which route multi-core cables in different directions
- High ratio expansion for quick and easy installation
- Mechanical tension relief



a: Expanded form (supplied)



b: Fully recovered form (after heating)



200 series supplied / fully recovered.

TYPE	ØH min. a	ØH max. b	ØJ min. a	ØJ max. b	ØK min. a	ØK max. b	P ± 10%	R ± 10%	W ± 20%	Article-No.
201-1-G	19.0	9.4	14.0	6.4	14.0	6.4	50.8	30.5	1.5	402-01180
201-2-G	31.8	9.4	15.7	6.4	15.7	6.4	50.8	30.5	1.5	402-01220

All dimensions in mm. Subject to technical changes. For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.



For product specific approvals and specifications please refer to the Appendix.





2-Way Outlet Shapes, VG style

Helashrink 200 Series

Features and benefits

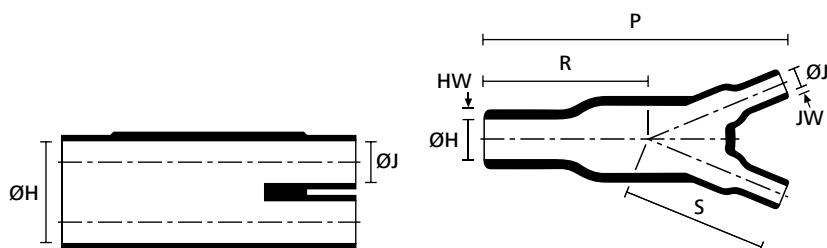
- Mechanical tension relief in cable harnesses



Two-way outlet shape 223-2 supplied / fully recovered.



For Material / Adhesive information please refer to page 272, 273.



a: Expanded form (supplied)

b: Fully recovered form (after heating)

TYPE	ØH min. a	ØH max. b	ØJ min. a	ØJ max. b	P ± 10%	R ± 10%	HW ± 20%	JW nom.	S nom	Designation as per VG-Norm	Article-No.
206-1-G	13.0	6.0	7.0	3.0	41.0	22.0	1.5	1.0	19.0	VG 95343 T08 C 001 A	402-06180
212-1-G	14.5	8.0	8.5	5.5	136.0	83.0	2.5	2.0	63.0	VG 95343 T08 C 005 A	402-12180
213-1-G	17.3	7.9	11.1	7.9	140.0	83.1	2.3	-	64.0	-	402-13180
203-1-G	27.0	12.0	13.0	6.0	80.0	38.0	2.5	1.5	43.0	VG 95343 T08 C 002 A	402-03180
204-1-G	39.0	18.0	27.0	12.0	-	-	3.0	2.5	81.0	VG 95343 T08 C 003 A	402-04180

All dimensions in mm. Subject to technical changes. For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.



For product specific approvals and specifications please refer to the Appendix.



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3-Way Outlet Shapes, VG style

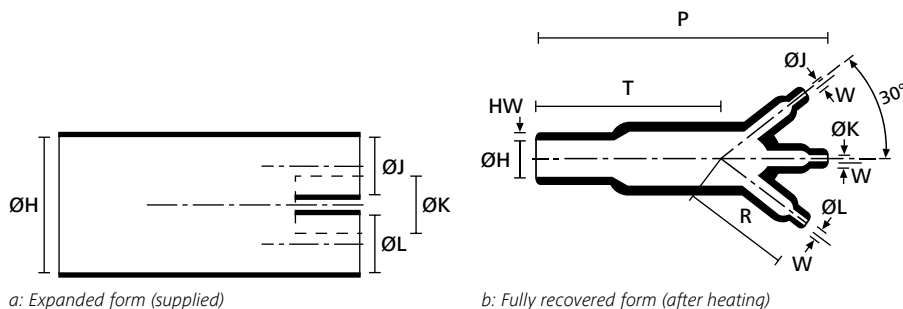
Helashrink 300 Series

Features and benefits

- Cable strain relief and mechanical protection at harness transition points
- All outlets clearly marked to aid orientation during installation



304-1-G supplied / fully recovered.



a: Expanded form (supplied)

b: Fully recovered form (after heating)

TYPE	ØH min. a	ØH max. b	ØJ/K/L min. a	ØJ/K/L max. b	P ± 10%	R ± 10%	HW ± 30%	W ± 20%	T ± 10%	Designation as per VG-Norm	Article-No.
306-1-G	13.0	6.5	6.5	3.5	46.0	21.0	1.5	1.0	20.3	VG 95343 T08 D 001 A	403-06180
304-1-G	27.0	13.5	13.0	7.0	93.0	43.0	2.5	1.5	42.9	VG 95343 T08 D 002 A	403-04180
310-1-G	38.5	19.0	19.0	10.0	135.0	62.0	3.0	1.8	61.0	VG 95343 T08 D 003 A	403-10180
311-1-G	55.5	25.5	27.0	12.5	192.0	89.0	4.5	3.1	88.9	VG 95343 T08 D 004 A	403-11180

All dimensions in mm. Subject to technical changes.
For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.



For product specific approvals and specifications please refer to the Appendix.





4-Way Outlet Shapes, VG style

Helashrink 400 Series

Features and benefits

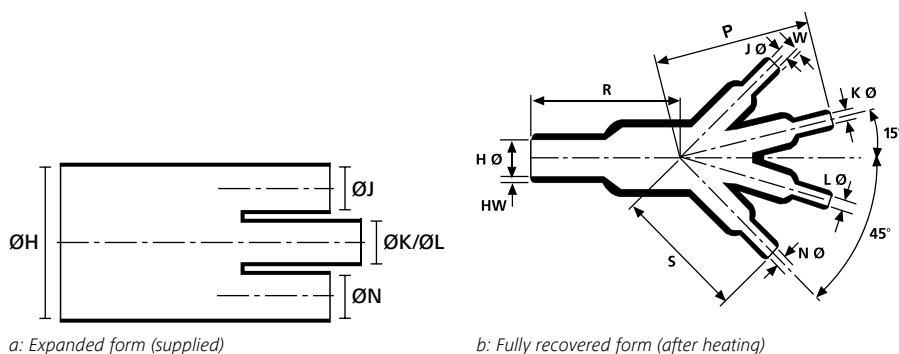
- All outlets clearly marked to aid orientation during installation
- Cable strain relief and mechanical protection at harness transition points



442-1 supplied / fully recovered.



For Material / Adhesive information please refer to page 272, 273.



TYPE	ØH min. a	ØH max. b	ØJ/K/L/N min. a	ØJ/K/L/N max. b	P ± 10%	R ± 10%	HW ± 20%	W ± 10%	S nom	Designation as per VG-Norm	Article-No.
411-1-G	19.0	10.0	9.5	5.5	-	35.6	2.0	1.0	32.0	VG 95343 T08 E 002 A	404-11180
403-1-G	27.0	13.0	13.0	7.0	102.0	49.0	2.5	1.5	45.0	VG 95343 T08 E 004 A	404-03180
413-1-G	38.5	19.0	19.0	10.0	-	72.0	3.0	2.0	65.0	VG 95343 T08 E 005 A	404-13180

All dimensions in mm. Subject to technical changes.

For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.



For product specific approvals and specifications please refer to the Appendix.



Add items to your watchlist!

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Right-Angle Shapes, VG-Style

Helashrink 1100 Series, with rib

Features and benefits

- Used in conjunction with a circular grooved adaptor
- Provides strain relief and an environmental seal



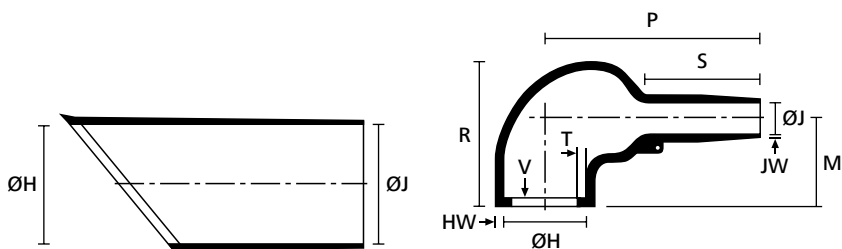
1152-4-G recovered on to a connector.



For Material / Adhesive information please refer to page 272, 273.



1155-4 supplied.



a: Expanded form (supplied)

b: Fully recovered form (after heating)

TYPE	ØH min. a	ØH max. b	ØJ min. a	ØJ max. b	P ± 10%	R ± 10%	HW ± 20%	JW ± 20%	V max	T ± 20%	M nom	S nom	Designation as per VG-Norm	Article-No.
1152-4-G	24.0	10.5	24.0	6.0	32.0	25.0	1.3	0.5	3.3	1.0	19.0	10.0	VG 95343 T06 E 001 A	411-52480
1154-4-G	30.0	14.5	30.0	6.0	41.0	27.0	1.5	0.8	3.3	1.0	19.0	12.0	VG 95343 T06 E 002 A	411-54480
1155-4-G	31.0	18.0	31.0	7.0	51.0	31.0	1.8	1.0	3.3	1.0	21.0	15.0	VG 95343 T06 E 003 A	411-55480
1156-4-G	36.0	22.5	36.0	8.5	59.0	38.0	1.8	1.0	3.3	1.0	26.0	15.0	VG 95343 T06 E 004 A	411-56480
1157-4-G	43.0	28.5	43.0	10.0	71.0	45.0	2.0	1.0	3.3	1.7	30.0	16.0	VG 95343 T06 E 005 A	411-57480
1158-4-G	60.0	35.0	60.0	16.0	-	54.0	3.3	1.5	3.3	1.7	35.0	30.0	VG 95343 T06 E 006 A	411-58480
1159-4-G	66.0	45.0	66.0	17.0	-	68.0	3.8	2.0	3.3	2.0	42.0	51.0	VG 95343 T06 E 007 A	411-59480
1160-4-G	82.0	61.0	82.0	25.0	-	84.0	4.0	4.0	3.3	2.0	52.0	39.0	VG 95343 T06 E 008 A	411-60480

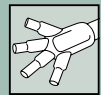
All dimensions in mm. Subject to technical changes.

For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.



For product specific approvals and specifications please refer to the Appendix.



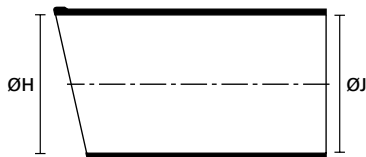


Right-Angle Shapes, MIL style

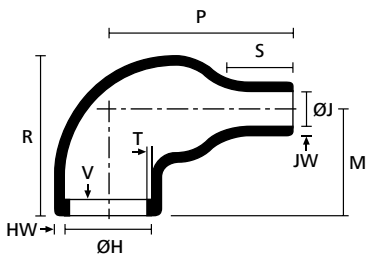
Helashrink 1100 Series, with rib

Features and benefits

- Used in conjunction with a circular grooved adaptor for strain relief



a: Expanded form (supplied)



b: Fully recovered form (after heating)



1108-4 supplied / fully recovered.

TYPE	ØH min. a	ØH max. b	ØJ min. a	ØJ max. b	P ± 10%	R ± 10%	HW ± 20%	JW ± 30%	V max	T ± 20%	M nom	S nom	Article-No.
1108-4-G	16.5	7.9	16.5	3.8	17.3	20.1	1.0	1.6	3.3	1.0	15.2	5.1	411-08480

All dimensions in mm. Subject to technical changes.

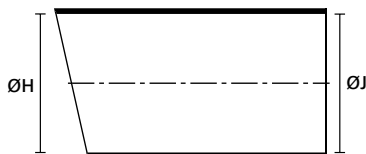
For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.

Right-Angle Shapes

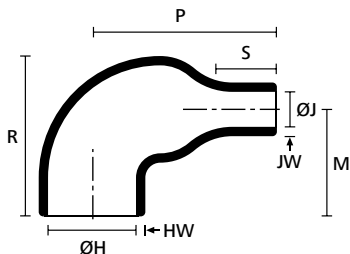
Helashrink 1100 Series, without rib

Features and benefits

- Strain relief for connector cable
- Easy re-entry for repair when combined with hot melt adhesive



a: Expanded form (supplied)



b: Fully recovered form (after heating)



1108-1 supplied / fully recovered.

TYPE	ØH min. a	ØH max. b	ØJ min. a	ØJ max. b	P ± 10%	R ± 10%	HW ± 20%	JW ± 30%	M nom	S nom	Article-No.
1108-1-G	16.5	7.9	16.5	2.5	18.3	20.1	1.0	1.6	15.2	5.1	411-08180

All dimensions in mm. Subject to technical changes.

For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.



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Right-Angle Shapes, VG style/MIL style

Helashrink 1100 Series, with rib, low profile

Features and benefits

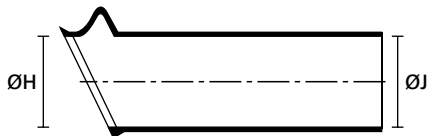
- Lightweight, low profile, compact strain relief and mechanical protection
- Typically used on airborne harnesses



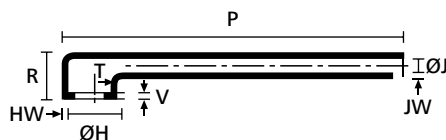
For Material / Adhesive information please refer to page 272, 273.



1123-1-G Supplied and recovered.



a: Expanded form (supplied)



b: Fully recovered form (after heating)

TYPE	ØH min. a	ØH max. b	ØJ min. a	ØJ max. b	P ± 10%	R ± 10%	HW ± 20%	JW ± 30%	T ± 10%	V ± 10%	Designation as per VG-Norm	Article-No.
1121-1-G	22.0	12.0	22.0	6.5	70.0	19.0	1.5	1.1	1.0	3.0	VG 95343 T06 F 001 A	411-21180
1122-1-G	25.5	15.0	25.5	7.5	79.0	20.0	1.5	1.1	1.0	3.0	VG 95343 T06 F 002 A	411-22180
1123-1-G	29.0	19.0	29.0	8.5	89.0	21.0	1.8	1.1	1.0	3.0	VG 95343 T06 F 003 A	411-23180
1124-1-G	34.0	23.0	34.0	10.0	102.0	22.0	1.8	1.1	1.0	3.0	VG 95343 T06 F 004 A	411-24180
1125-1-G	37.0	30.0	37.0	11.0	108.0	24.0	2.0	1.1	1.7	3.0	VG 95343 T06 F 005 A	411-25180
1126-1-G	43.5	34.0	43.5	12.0	121.0	27.0	2.0	1.1	1.7	3.0	VG 95343 T06 F 006 A	411-26180
1127-1-G	50.0	41.5	50.0	14.5	132.0	30.0	2.3	1.4	1.7	3.0	VG 95343 T06 F 007 A	411-27180
1128-1-G	62.5	47.0	62.5	1.0	133.0	33.0	2.5	1.4	2.0	3.0	VG 95343 T06 F 008 A	411-28180
1129-1-G	69.0	60.0	69.0	20.0	137.0	35.0	2.5	1.4	2.0	3.0	VG 95343 T06 F 009 A	411-29180

All dimensions in mm. Subject to technical changes.

For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.



For product specific approvals and specifications please refer to the Appendix.





Right-Angle Shapes, VG style

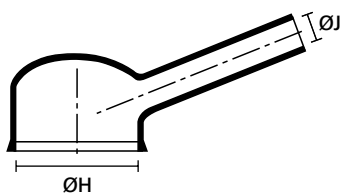
Helashrink 1100 Series, with rib, low profile, high ratio

Features and benefits

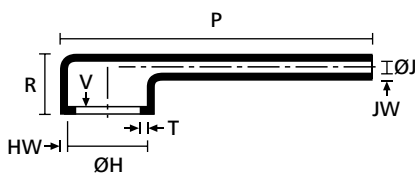
- Use in applications of partially loaded connectors with small cable diameters
- Tail design for easy orientation prior to cooling
- Strain relief for connector cable



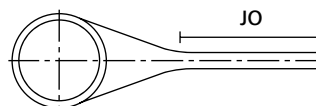
1135-1-G Supplied and recovered.



a: Expanded form (supplied)



b: Fully recovered form (after heating)



Fully recovered form (after heating)

TYPE	ØH min. a	ØH max. b	ØJ min. a	ØJ max. b	P ± 10%	R ± 10%	HW ± 20%	JW ± 20%	JO ± 10%	V max	T ± 20%	Designation as per VG-Norm	Article-No.
1133-1-G	19.0	13.0	6.0	2.0	45.0	16.0	1.5	1.1	21.8	3.3	1.0	VG 95343 T06 F 011 A	411-33180
1134-1-G	26.0	19.0	7.5	2.5	67.0	18.0	1.8	1.1	29.2	3.3	1.0	VG 95343 T06 F 012 A	411-34180
1135-1-G	34.0	26.0	9.5	3.0	81.0	19.0	1.8	1.1	35.3	3.3	1.0	VG 95343 T06 F 013 A	411-35180
1136-1-G	43.5	34.0	11.5	3.5	116.0	21.0	1.8	1.1	47.0	3.3	1.7	VG 95343 T06 F 014 A	411-36180

All dimensions in mm. Subject to technical changes.

For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.



For product specific approvals and specifications please refer to the Appendix.



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T-Shapes, VG style/MIL style

Helashrink 1200 Series

Features and benefits

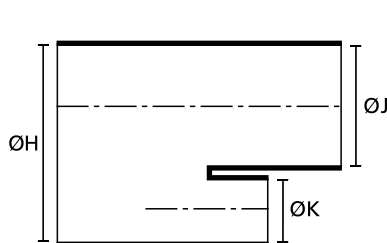
- Strain relief, sealing and mechanical protection on cable harnesses



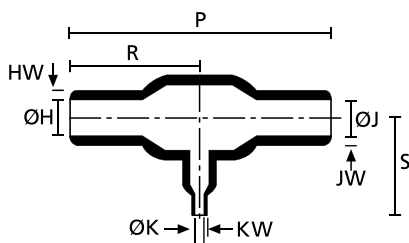
For Material / Adhesive information please refer to page 272, 273.



1202-1-G recovered onto a cable harness.



a: Expanded form (supplied)



b: Fully recovered form (after heating)

TYPE	ØH/J min. a	ØH/J max. b	ØK min. a	ØK max. b	P ± 10%	R ± 10%	HW ± 20%	JW ± 30%	KW ± 20%	S ± 10%	Designation as per VG-Norm	Article-No.
1206-1-G	6.5	3.5	6.5	3.5	30.0	15.0	1.0	1.0	1.0	15.0	VG 95343 T08 A 009 A	412-06180
1203-1-G	13.0	6.0	6.5	3.0	52.0	26.0	1.5	1.5	1.0	19.3	VG 95343 T08 A 001 A	412-03180
1202-1-G	13.0	7.0	13.0	7.0	59.0	29.5	1.5	1.5	1.5	29.2	VG 95343 T08 A 010 A	412-02180
1205-1-G	17.5	9.0	7.5	4.0	51.0	25.5	1.5	1.5	1.0	25.5	-	412-05180
1201-1-G	17.5	9.0	10.0	5.0	47.0	23.5	1.5	1.5	1.0	23.5	VG 95343 T08 A 007 A	412-01180
1207-1-G	27.0	12.4	27.0	13.5	120.0	60.0	2.5	2.5	2.5	59.9	VG 95343 T08 A 011 A	412-07180
1209-1-G	27.0	13.0	13.0	6.0	108.0	54.0	2.5	2.5	1.5	38.6	VG 95343 T08 A 002 A	412-09180

All dimensions in mm. Subject to technical changes. For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.



For product specific approvals and specifications please refer to the Appendix.



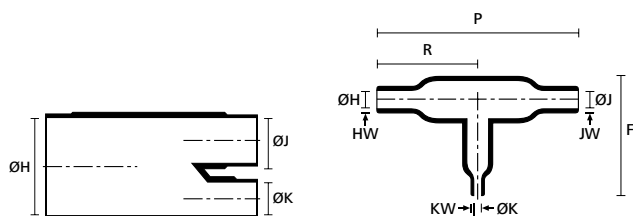


T-Shapes, VG-Style

Helashrink 1200 Series, off-set

Features and benefits

- For strain relief, sealing and mechanical protection
- Use adhesive for cable transition on harness, if environmental sealing is required



a: Expanded form (supplied)

b: Fully recovered form (after heating)



1204-1 supplied / fully recovered.

TYPE	ØH min. a	ØH max. b	ØJ min. a	ØJ max. b	ØK min. a	ØK max. b	P ± 10%	R ± 10%	HW ± 20%	JW ± 20%	KW ± 20%	F ± 15%	Designation as per VG-Norm	Article-No.
1204-1-G	13.0	7.5	6.5	4.0	6.5	4.0	56.0	33.0	1.5	1.0	1.0	27.0	VG 95343 T08 A 016 A	412-04180
1216-1-G	33.0	13.0	16.5	6.5	16.5	6.5	97.0	54.0	2.5	1.5	1.5	-	VG 95343 T08 A 017 A	412-16180

All dimensions in mm. Subject to technical changes. For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.



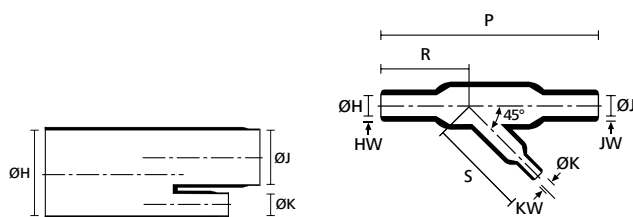
For product specific approvals and specifications please refer to the Appendix.

Angled T-Shapes, VG style

Helashrink 1300 Series, 30° & 45° angle

Features and benefits

- Strain relief, sealing and mechanical protection on cable harnesses
- Branching part 30° & 45° Y-joint
- Mechanical strain relief for cable harnesses



a: Expanded form (supplied)

b: Fully recovered form (after heating)



1303-1-G supplied / fully recovered.

TYPE	ØH min. a	ØH max. b	ØJ min. a	ØJ max. b	ØK min. a	ØK max. b	P ± 10%	R ± 10%	HW ± 30%	JW ± 30%	KW ± 20%	S ± 10%	Angle	Designation as per VG-Norm	Article-No.
1306-1-G	13.0	6.0	6.5	3.0	6.5	3.0	45.0	23.0	1.5	1.0	1.0	21.5	45°	VG 95343 T06 B 010 A	413-06180
1301-1-G	13.0	7.0	13.0	7.0	7.0	3.5	50.0	23.0	1.5	1.5	1.0	23.0	45°	VG 95343 T08 B 001 A	413-01180
1302-1-G	27.0	13.0	27.0	13.0	7.0	3.5	92.0	41.0	2.5	2.5	1.0	36.0	45°	VG 95343 T08 B 004 A	413-02180
1303-1-G	27.0	14.0	27.0	14.0	13.0	7.5	145.0	70.0	2.5	2.5	1.5	54.0	45°	VG 95343 T08 B 002 A	413-03180
1311-1-G	30.4	15.2	30.4	15.2	20.3	10.2	82.6	31.8	2.5	2.5	1.8	50.8	30°	VG 95343 T08 B 003 A	413-11180

All dimensions in mm. Subject to technical changes. For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.



For product specific approvals and specifications please refer to the Appendix.



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Angle Shapes

Helashrink 1800 Series, with rib, 30°, 45°, 60° angle

Features and benefits

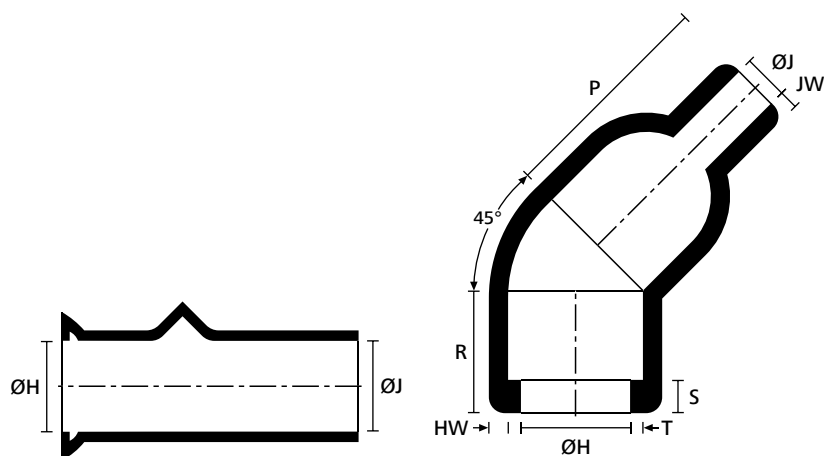
- Provides strain relief and mechanical protection for harness systems
- Use in conjunction with a circular grooved adaptor



For Material / Adhesive information please refer to page 272, 273.



1821-42 supplied / fully recovered.



a: Expanded form (supplied)

b: Fully recovered form (after heating)

TYPE	Angle	ØH min. a	ØH max. b	ØJ min. a	ØJ max. b	P ± 10%	R ± 10%	HW ± 20%	JW ± 20%	S ± 10%	T ± 10%	Article-No.
1830-4-G	30°	31.0	17.9	31.0	7.0	55.0	35.0	1.8	1.8	-	2.0	418-30003
1820-4-G	30°	36.0	21.4	36.0	8.3	46.0	26.0	1.8	1.0	26.0	8.6	418-20001
1821-42-G	45°	20.0	14.2	20.0	4.1	24.0	10.0	2.3	1.8	3.0	1.1	418-21013
1803-4-G	45°	24.0	17.8	12.0	5.6	28.0	14.0	2.8	2.3	3.0	1.0	418-03005
1807-4-G	45°	35.6	18.0	35.6	7.4	43.2	10.2	1.8	1.8	3.0	1.0	418-07003
1831-4-G	45°	36.0	22.1	36.0	8.4	60.0	40.0	2.0	2.0	-	2.0	418-31001
1805-4-G	45°	40.0	18.8	40.0	7.0	28.0	11.0	1.5	1.5	3.0	1.0	418-05003
1806-4-G	45°	42.6	27.9	42.6	9.7	85.0	17.8	2.0	2.0	3.0	1.7	418-06002
1832-4-G	45°	43.0	27.9	43.0	9.9	65.0	45.0	2.2	2.2	-	2.0	418-32000
1819-4-G	60°	43.0	28.2	43.0	9.9	55.0	18.0	2.0	1.0	18.0	3.0	418-19001
1817-4-G	60°	60.0	33.7	60.0	14.8	65.0	32.0	2.0	1.0	32.0	3.0	418-17001

All dimensions in mm. Subject to technical changes.

For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.





Angle Shapes

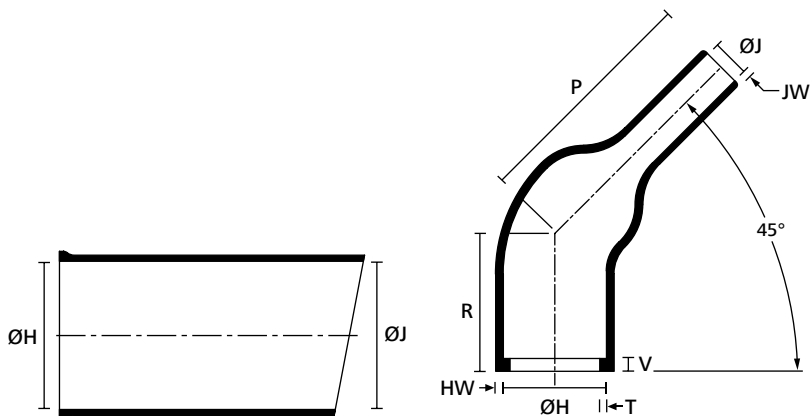
Helashrink 1800 Series, with rib, 45°angle

Features and benefits

- Provides strain relief and mechanical protection for harness systems
- Use in conjunction with a circular grooved adaptor



1837-4 supplied / fully recovered.



a: Expanded form (supplied)

b: Fully recovered form (after heating)

TYPE	ØH min. a	ØH max. b	ØJ min. a	ØJ max. b	P ± 10%	R nom	HW ± 20 %	JW ± 30 %	V max	T ± 20 %	Article-No.
1834-4-G	10.0	6.6	10.0	2.0	14.2	15.2	1.0	0.6	1.5	0.6	418-34001
1835-4-G	17.0	7.6	17.0	3.5	15.7	16.3	1.0	0.6	1.5	0.6	418-35001
1836-4-G	24.0	9.9	24.0	4.0	19.0	12.7	1.0	0.6	1.5	0.6	418-36001
1837-4-G	30.0	13.9	30.0	5.8	29.9	19.0	1.0	0.6	1.5	0.6	418-37001

All dimensions in mm. Subject to technical changes.

For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.



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Angle Shapes

Helashrink 1800 Series, with rib, 45° angle

Features and benefits

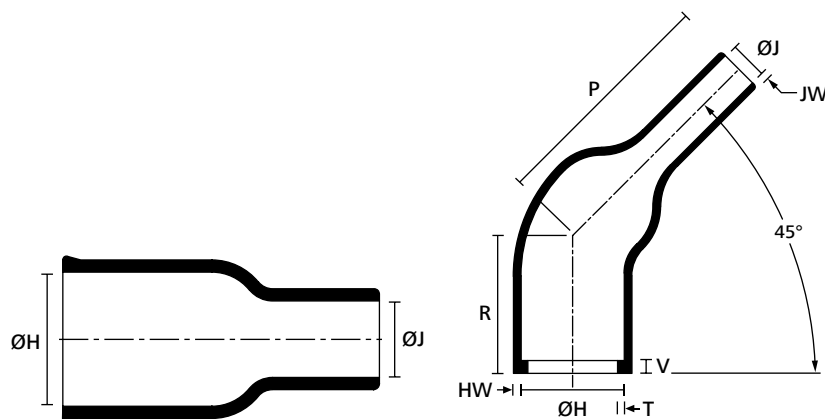
- Provides strain relief and mechanical protection for harness systems
- Use in conjunction with a circular grooved adaptor
- For use in elevated temperature scenarios



For Material / Adhesive information please refer to page 272, 273.



1837-5 supplied / fully recovered.



a: Expanded form (supplied)

b: Fully recovered form (after heating)

TYPE	ØH min. a	ØH max. b	ØJ min. a	ØJ max. b	P ± 10%	R nom	HW ± 20 %	JW ± 30 %	V max	T ± 20 %	Article-No.
1834-5-L	10.0	6.6	4.0	2.0	14.2	15.2	1.0	0.6	1.5	0.6	418-34002
1835-5-L	15.0	7.6	7.0	3.5	15.7	16.3	1.0	0.6	1.5	0.6	418-35002
1836-5-L	19.0	9.9	8.0	4.0	19.0	12.7	1.0	0.6	1.5	0.6	418-36002
1837-5-L	27.0	13.9	11.0	5.8	29.9	19.0	1.0	0.6	1.5	0.6	418-37002

All dimensions in mm. Subject to technical changes. For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.





2-Way Outlet Shapes, Breakout Boots

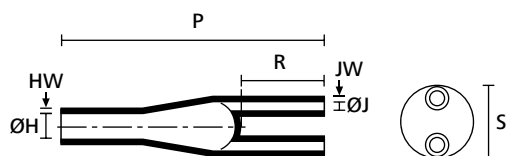
Helashrink 200 Series, in line, low voltage

Features and benefits

- Easy, time-saving insulation of cable branch point where it splits into single wires
- Adhesive is applied to relieve mechanical tension in cable harnesses



a: Expanded form (supplied)



b: Fully recovered form (after heating)



223-2 supplied / fully recovered.

TYPE	ØH min. a	ØH max. b	ØJ min. a	ØJ max. b	P ± 10%	R ± 10%	HW ± 20%	JW ± 20%	S nom	Article-No.
216-3-B8W	21.0	9.4	9.0	2.8	76.5	20.0	1.6	1.6	14.0	402-16039
223-2-B8W	33.0	9.4	17.5	4.1	94.0	30.0	1.5	1.2	20.0	402-23058
218-2-B8W	49.0	22.9	20.0	7.6	119.0	34.0	3.2	3.2	30.0	402-18051

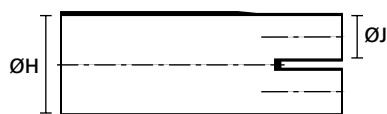
All dimensions in mm. Subject to technical changes. For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.

4-Way Outlet Shapes, Breakout Boots

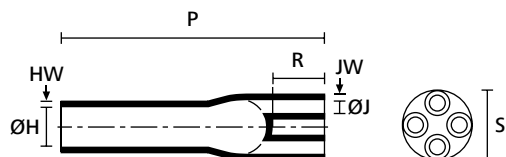
Helashrink 400 Series, in line, low voltage

Features and benefits

- Easy, time-saving insulation of cable branch point where it splits into single wires
- Made of tough, cross-linked, Polyolefin
- Adhesive is applied to relieve mechanical tension in cable harnesses



a: Expanded form (supplied)



b: Fully recovered form (after heating)



400 series supplied / fully recovered.

TYPE	ØH min. a	ØH max. b	ØJ min. a	ØJ max. b	P ± 10%	R ± 10%	HW ± 20%	JW ± 20%	S nom	Article-No.
442-1-B8WM250	28.0	9.0	9.0	1.8	78.0	17.0	2.7	2.0	20.0	404-42009
408-2-B8W2	35.0	12.0	15.0	3.0	95.0	24.0	2.5	2.0	22.0	404-08022
418-4-B8W2	60.0	22.9	30.0	6.4	202.0	38.1	4.1	3.3	38.1	404-18020

All dimensions in mm. Subject to technical changes. For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.



Add items to your watchlist!

www.HT.click/49-297





5-Way Outlet Shapes, Breakout Boots

Helashrink 500 Series, in line, low voltage

Features and benefits

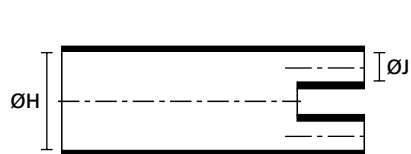
- Cable breakout boots for insulating and sealing cable crotch or conduit system
- Excellent resistance to abrasion and weathering



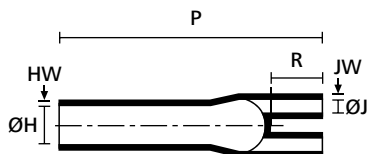
500 Series supplied / fully recovered.



For Material / Adhesive information please refer to page 272, 273.



a: Expanded form (supplied)



b: Fully recovered form (after heating)



Fully recovered form (after heating)

TYPE	ØH min. a	ØH max. b	ØJ min. a	ØJ max. b	P ± 10%	R ± 10%	HW ± 20%	JW ± 20%	S nom	Article-No.
508-5-B8W	41.9	24.5	16.9	7.5	180.0	30.0	3.5	3.0	48.0	405-08049

All dimensions in mm. Subject to technical changes.

For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.





Locating Bushes

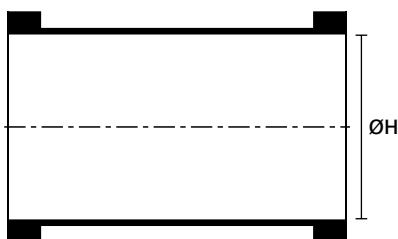
Helashrink 1760, 1790, 1820 Series

Features and benefits

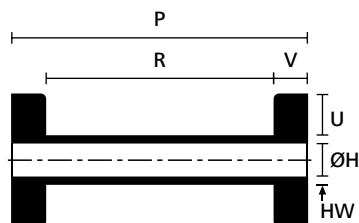
- Provides location, cushioning, shimming and protection on cable runs through bulk head or enclosure entry points
- Available in a range of materials and adhesives for most applications.
- Designed for use on aerospace engine applications



1793-1 supplied / fully recovered.



a: Expanded form (supplied)



b: Fully recovered form (after heating)

TYPE	ØH min. a	ØH max. b	P ± 10%	R ± 10%	HW ± 20%	V ± 10%	U ± 20%	Article-No.
1822-1-G	12.0	5.9	30.0	24.0	6.1	3.0	2.0	418-22001
1796-1-G	15.0	6.4	29.0	24.0	1.5	2.5	2.0	417-96001
1823-1-G	16.0	7.8	32.0	24.0	6.2	4.0	2.0	418-23001
1793-1-G	20.0	9.5	35.0	25.0	1.5	5.0	3.0	417-93001
1795-1-G	26.0	12.7	35.0	25.0	2.0	5.0	3.0	417-95001
1794-1-L	30.0	18.0	35.0	25.0	2.0	5.0	3.0	417-94002

All dimensions in mm. Subject to technical changes.

For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.



Add items to your watchlist!

www.HT.click/49-299





Pinched End Caps

Helashrink PEC Series, low voltage

Pinched End Caps can be used for mechanical and environmental protection of stub splices in electrical harnesses. Due to the fast and easy installation, these caps can be used for non-electrical applications as well.

Features and benefits

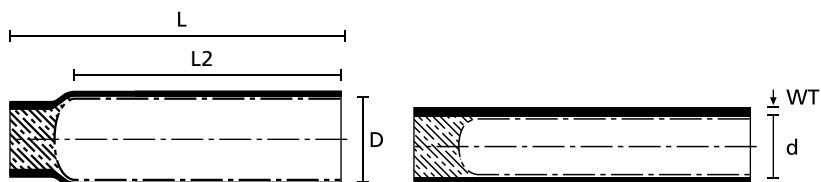
- Small size End Caps
- Fast and easy application
- With Inner adhesive layer for moisture sealing
- 3:1 shrink ratio
- Different diameters for wide application range
- Other lengths available on request



The appropriate end cap for every cable diameter, and cable types.

MATERIAL	Polyolefin, cross-linked (PO-X)
Colour	Black (BK)
Shrink Ratio	3:1
Min. Shrink Temperature	+120 °C
Operating Temperature	-45 °C to +125 °C
Dielectric Strength	15 kV/mm
Flammability	self-extinguishing in 30 seconds according to SAE-AMS-DTL-23053/4

RoHS



PEC-Series expanded

PEC-Series recovered

TYPE	Supplied Ø D min.	Recov. Ø d max.	Wall (WT)	Length (L)	Length (L2)	Pack Cont.	Article-No.
PEC-3/1	3.0	1.0	1.00	25.0	20.0	50 pcs.	416-00000
PEC-4.8/1.5	4.8	1.5	1.00	30.0	25.0	50 pcs.	416-00003
PEC-6/2	6.0	2.0	1.00	30.0	25.0	50 pcs.	416-00001
PEC-9/3	9.0	3.0	1.40	35.0	27.0	50 pcs.	416-00002

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content.





End Caps

Helashrink 1600 Series, low voltage

End caps are suitable for use on both polymeric and paper insulated, lead jacketed cables which may include aluminium or steel armouring.

Features and benefits

- Seal cables during storage or transportation
- Insulating cap for live LV cables (0.6/1kV)
- Adhesive lining for excellent environmental seal
- High shrink ratio to minimise number of sizes needed
- Can be fitted with air valves for pressurised cable applications
- High shrink ratio to minimise number of sizes needed



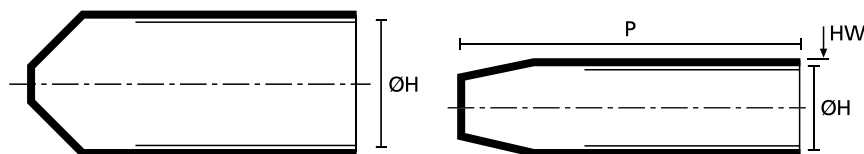
The appropriate end cap for every cable diameter, and cable types.



For Material / Adhesive information please refer to page 272, 273.

MATERIAL	Polyolefin, cross-linked (PO-X)
Colour	Black (BK)
Flexibility	Semi rigid
Shrink Ratio	up to 3:1
Min. Shrink Temperature	+135 °C
Operating Temperature	-55 °C to +80 °C
Dielectric Strength	15 kV/mm
Flammability	ASTM D635

RoHS



a: Expanded form (supplied)

b: Fully recovered form (after heating)

TYPE	Bundle Ø min.	Bundle Ø max.	ØH min. a	ØH max. b	P ± 10%	HW ± 20 %	Article-No.
1612-1-B5W2	4.0	8.0	12.0	4.0	40.0	2.6	416-12046
1613-1-B5W2	6.5	16.0	20.0	6.0	55.0	2.8	416-13060
1602-1-B5W2	10.0	20.0	25.0	8.5	65.0	2.8	416-02008
1614-1-B5W2	16.0	32.0	40.0	15.0	75.0	3.3	416-14047
1615-1-B5W2	26.0	51.0	62.0	23.0	132.0	3.8	416-15035
1617-1-B5W2	32.0	61.0	75.0	32.0	140.0	4.0	416-17033
1616-1-B5W2	48.0	80.0	105.0	45.0	135.0	4.0	416-16053
1609-1-B5W2	65.0	110.0	120.0	60.0	150.0	4.2	416-09000
1610-1-B5W2	90.0	135.0	160.0	82.0	135.0	4.5	416-10000

All dimensions in mm. Subject to technical changes.

For these moulded shapes a wide range of material / adhesive combinations are available. Please refer to the Moulded Shapes catalogue.



Add items to your watchlist!

www.HT.click/49-301





Hot Melt Tape for Heat Shrinkable Tubing and Shapes

HMT200A

Designed for use with heat shrink sleeving and mouldings.

Features and benefits

- Hot melt tape flows when heated to seal against moisture
- For heat shrink tubing and mouldings



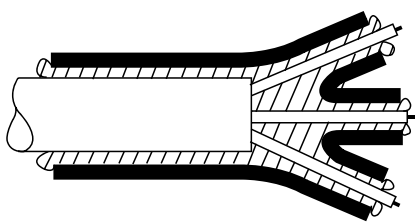
HMT200A-Tape.



www.HellermannTyton.co.uk/HMT200A-cat22



Adhesive tape HMT200A for sealing against humidity.



HMT200A

MATERIAL	Ethylenevinylacetate (EVA)
Operating Temperature	-55 °C to +105 °C



TYPE	Thickness (T)	Width (W)	Colour	Reel Length	Tools	Article-No.
HMT200A	0.25	25.0	Translucent (TT)	10 m	30;32	354-02260
	0.25	25.0	Translucent (TT)	50 m	30;32	354-02259

All dimensions in mm. Subject to technical changes.

Recommended Tools		
	30	32
	H6100	CHG900
	566	565

For more information on toolings please refer to the Application Tooling chapter.





Two-Component Adhesive for Heat Shrinkable Tubing and Shapes

V9500

Features and benefits

- High performance, two-part epoxy adhesive
- Very resistant to most solvents and fuels, even at elevated temperatures
- Two different packages available
- V9500 available in 10g bags for manual mixing
- Processing set: emery paper, small mixing bowl and wooden spatula
- High performance bonding
- Meets military requirements for heat shrinkable components for harnesses
- VG-approved



V9500 - VG 95343 approved 2K Epoxy Adhesive Kit.



www.HellermannTyton.co.uk/V9500-cat22



The V9500 applicator gun guarantees the clean and precise coating of special fittings.

MATERIAL	Epoxy resins (EP)
Colour	Black (BK)
Curing Temperature	+135 °C
Curing Time	24 hours at +25 °C, 2 hours at +85 °C
Operating Temperature	-75 °C to +150 °C

RoHS ✓

TYPE	Description	Designation as per VG-Norm	Tools	Article-No.
V9500 Epoxy Kit	5 x 10g sachets (50g), 5 x mixing pots, 5 x mixing sticks, 5 x emery papers	VG 95343 T15 A001 A	30	627-95000
	1 x dual cartridge (50g), 5 x mixing pots, 5 x mixing sticks, 5 x emery papers	VG 95343 T15 A 002 B	30	627-95001
V9500 Epoxy Cartridge	Two-component adhesive cartridge	VG 95343 T15 D 002 B	30	627-95002
V9500 Applicator Gun	Applicator gun	VG 95343 T15 DA	-	627-95003
V9500 Applicator Nozzle	Mixing nozzle	VG 95343 T15 MA	-	627-95004

All dimensions in mm. Subject to technical changes.

Recommended Tools	
	30 H6100
	566

For more information on toolings please refer to the Application Tooling chapter.



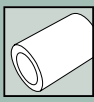
For product specific approvals and specifications please refer to the Appendix.



Add items to your watchlist!

www.HT.click/49-303





Rubber Tubing, Chloroprene

The chloroprene tubings are ideally suited to rigorous environments such as automotive, aerospace, mass transit and defence markets.

As the material is highly elastic, it's original size can be expanded 500% on application and 200% in continuous use.

To save time and effort when fitting the tubing, try the HellermannTyton three prong tools and the Hellerine lubricant, which are specially designed for use with HellermannTyton chloroprene tubing.

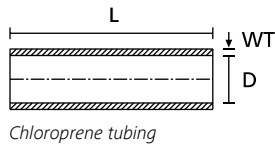
Features and benefits

- Highly elastic, easy to fit chloroprene tubing
- Withstands up to 120 °C intermittent temperature
- Covers many cable diameters with one size
- Available in cut lengths



H rubber tubing is highly flexible and easy to apply.

Helsyn H



MATERIAL	Chloroprene rubber (CR)
Operating Temperature	-65 °C to +95 °C, intermittent 120 °C
Flammability	UL 94 HB
Elongation at break	min. 500%



TYPE	Supplied Ø D min.	Wall (WT)	Bundle Ø max.	Reel Length	Pack Cont.	Colour	Tools	Article-No.
H12BKX100M	1.2	0.80	2.0	100 m	100 m	Black (BK)	35	608-01200
H15BKX100M	1.5	0.80	3.0	100 m	100 m	Black (BK)	35	608-01201
H25BKX100M	2.5	0.80	4.0	100 m	100 m	Black (BK)	36;39	608-01203
H30BKX100M	3.0	0.80	6.0	100 m	100 m	Black (BK)	36;39	608-01204
H40BKX100M	4.0	1.00	8.0	100 m	100 m	Black (BK)	36;39	608-01205
H50BKX100M	5.0	1.05	9.0	100 m	100 m	Black (BK)	36;39	608-01206
H75BKX25M	7.5	1.25	13.0	25 m	25 m	Black (BK)	37;39-40	608-01207

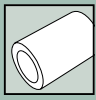
All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



TYPE	Supplied Ø D min.	Wall (WT)	Bundle Ø max.	Length (L)	Pack Cont.	Colour	Tools	Article-No.
H12X20BK	1.2	0.80	2.0	20.0	1,000 pcs.	Black (BK)	35	600-02498
H15X20BK	1.5	0.80	3.0	20.0	1,000 pcs.	Black (BK)	35	600-02929
H25X25BK	2.5	0.80	4.0	25.0	1,000 pcs.	Black (BK)	36;39	600-02934
H30X25BK	3.0	0.80	6.0	25.0	1,000 pcs.	Black (BK)	36;39	600-02938
H40X30BK	4.0	1.00	8.0	30.0	500 pcs.	Black (BK)	36;39	600-02947
H50X25BK	5.0	1.05	9.0	25.0	500 pcs.	Black (BK)	36;39	600-02949
H75X30BK	7.5	1.25	13.0	30.0	250 pcs.	Black (BK)	37;39-40	600-02198

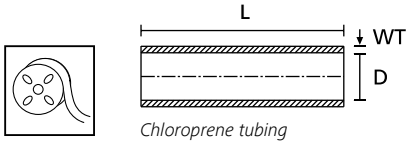
All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.





Chloroprene tubing and grommets

Helsyn TH - thin wall



TYPE	Supplied Ø D min.	Wall (WT)	Bundle Ø max.	Reel Length	Colour	Tools	Article-No.
TH100BKX25M	10.0	1.00	20.0	25 m	Black (BK)	37;39-40	608-01208
TH120BKX25M	12.0	1.00	23.0	25 m	Black (BK)	38-39;41	608-01209
TH140BKX20M	14.0	1.10	25.0	20 m	Black (BK)	38-39;41	608-01210
TH170BKX20M	17.0	1.20	28.0	20 m	Black (BK)	38-39;41	608-01202

All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.



TYPE	Supplied Ø D min.	Wall (WT)	Bundle Ø max.	Length (L)	Pack Cont.	Colour	Tools	Article-No.
TH100X35BK	10.0	1.00	20.0	35.0	100 pcs.	Black (BK)	37;39-40	600-02493
TH120X50BK	12.0	1.00	23.0	50.0	100 pcs.	Black (BK)	38-39;41	600-02495
TH140X50BK	14.0	1.10	25.0	50.0	100 pcs.	Black (BK)	38-39;41	600-02496
TH170X50BK	17.0	1.20	28.0	50.0	100 pcs.	Black (BK)	38-39;41	600-02497

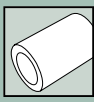
All dimensions in mm. Subject to technical changes.
Minimum Order Quantity (MOQ) may differ from package content. Other packaging options may also be available.

Recommended Tools							
	35	36	37	38	39	40	41
	NA0/1	NA1K/3	NA4/5	NA8/10	VA2.5/5	VA2.5/5+8	VA2.5/5+18
	565	565	565	565	566	566	566

For more information on toolings please refer to the Application Tooling chapter.



Add items to your watchlist!
www.HT.click/49-305



Installation aid for tubing and grommets

Hellerine

Hellerine lubricant for tubing and grommets installations.

Features and benefits

- Effective aid for affixing elastomer sleeves
- Universally employable
- Evaporates after installation
- Consists of 99% vegetable oils
- Discoloration-free
- Offered in 250 ml bottle or in cans of 5 lt or 20 lt



Hellerine lubricant in 284ml plastic bottle.

TYPE	Description	Article-No.
HELLERINE 0.25 LITER	Hellerine assembly aid, 0.25 litre	625-00250
HELLERINE 5 LITER	Hellerine assembly aid, 5 litre	625-05000
HELLERINE 20 LITER	Hellerine assembly aid, 20 litre	625-06000

Subject to technical changes.



Close for protection. Close to perfection.

The easy way to protect your cables. Our HelaGuard corrugated conduits offer flexible, abrasion resistant and durable protection for all your cabling needs. With a double-slit design, installing and retrofitting cables is complete in a matter of minutes, while a lateral opening provides easy access to your cables and allows you to stay flexible at all times. That's flexibility made simple.

www.HellermannTyton.co.uk/cable-protection

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