



## Helvin P

### Features and Benefits

A thin wall section makes P sleeving ideal for minimising the overall diameter of loom assemblies.

### Application

These high-grade PVC sleeves (P) have a thin wall that makes them ideal for insulating wire in areas where space is at a premium. They can be supplied as continuous tubing or cut lengths.

The tubing is available in international resistor colour code, pink and transparent.



Helvin P tubing.



### Material Data

Material	<b>Polyvinylchloride (PVC)</b>
Operating Temperature	<b>-65 °C to +105 °C, Intermittent +135 °C</b>
Flammability	<b>UL94 V0 at 1mm thickness</b>
Specification	<b>UL224, BS 3858 Type 3, IEC 684-3-101 / 104, DEF STAN 59-15</b>



**Other colours and cut lengths available on request. Please contact us!**

### Technical Table

Article-No.	Type	Colour	Ø D	Wall (WT) nom.	Reel Length (m)
172-03001	<b>P10</b>	Black (BK)	1.0	0.35	250
172-03036	<b>P15</b>	Black (BK)	1.5	0.35	250
172-03108	<b>P30</b>	Black (BK)	3.0	0.35	100
172-03123	<b>P40</b>	Black (BK)	4.0	0.35	50
172-03158	<b>P55</b>	Black (BK)	5.5	0.40	200
172-03170	<b>P75</b>	Black (BK)	7.5	0.50	100
172-03013	<b>P100</b>	Black (BK)	10.0	0.50	150
172-03048	<b>P150</b>	Black (BK)	15.0	0.50	50

All dimensions in mm. Subject to technical changes.



Please note! Not every product listed carries these approvals! For Product Specific Approvals please refer to the Appendix.



### Helvin XY

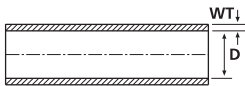
#### Features and Benefits

These high-grade PVC sleeves (XY) have a heavier wall that makes them ideal for insulating wire in areas where greater protection is required. They can be supplied as continuous tubing or cut lengths.

The tubing is available in new phase colours.



Helvin XY tubing.



Material Data	
Material	<b>Polyvinylchloride (PVC)</b>
Operating Temperature	<b>-65 °C to +105 °C, Intermittent +135 °C</b>
Flammability	<b>UL94 V0 at 1mm thickness</b>
Specification	<b>DEF STAN 59-15 Type D1b, BS2848 Type 3, IEC 684-3-101 / 104, UL224</b>



**Other Colours available on request. Please contact us!**

Technical Table

Article-No.	Type	Colour	Ø D	Wall (WT) nom.	Reel Length (m)
172-04003	<b>XY10</b>	Black (BK)	1.0	0.40	500
172-04032	<b>XY15</b>	Black (BK)	1.5	0.50	300
172-04052	<b>XY20</b>	Black (BK)	2.0	0.50	300
172-04040	<b>XY150</b>	Black (BK)	15.0	0.85	100

All dimensions in mm. Subject to technical changes.



Please note! Not every product listed carries these approvals! For Product Specific Approvals please refer to the Appendix.

## 2.3 Insulation Non Shrinkable Tubing



### Helvin PVCB

#### Features and Benefits

Commercial grade, highly flexible tubing that provides insulation and protection for cable and wire.

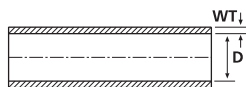
#### Application

These commercial grade PVC sleeves (PVCB) have a heavier wall that makes them ideal for insulating wire in areas where greater protection is required. They can be supplied as continuous tubing or cut lengths.

The tubing is available in black only.



Helvin PVCB tubing.



#### Material Data

Material	<b>Polyvinylchloride (PVC)</b>
Colour	<b>Black (BK)</b>
Operating Temperature	<b>-65 °C to +105 °C, Intermittent +135 °C</b>
Flammability	<b>UL94 HB</b>
Specification	<b>BS2848 Type 3</b>



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

#### Technical Table

Article-No.	Type	Colour	Supplied Ø D	Wall (WT) nom.	Reel Length (m)
172-00051	<b>PVCB15</b>	Black (BK)	1.5	0.50	100
172-00055	<b>PVCB20</b>	Black (BK)	2.0	0.50	100
172-00064	<b>PVCB30</b>	Black (BK)	3.0	0.50	100
172-00071	<b>PVCB40</b>	Black (BK)	4.0	0.50	100
172-00077	<b>PVCB50</b>	Black (BK)	5.0	0.50	100
172-00081	<b>PVCB60</b>	Black (BK)	6.0	0.50	100
172-00088	<b>PVCB90</b>	Black (BK)	9.0	0.65	100
172-00047	<b>PVCB120</b>	Black (BK)	12.0	0.85	100
172-00061	<b>PVCB250</b>	Black (BK)	25.0	0.85	50

All dimensions in mm. Subject to technical changes.



**LFH tubing LFPT**

**Features and Benefits**

LFPT has been designed for use where limited fire hazard or zero halogen insulations are required.

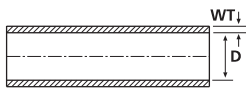
**Application**

These limited fire hazard (LFH) sleeves are zero halogen, making them ideal for protecting wire and cable in areas where smoke and fume emissions must be minimised. They are supplied as continuous tubing on reels.

The tubing is available in new phase colours.



LFH tubing LFPT.



**Material Data**

Material	<b>Polyolefin</b>
Operating Temperature	<b>-40 °C to +90 °C, Intermittent +120 °C</b>
Flammability	<b>UL94 V0 at 3mm thickness</b>
Specification	<b>RSE STD 013 London Underground, IEC 684-3-165</b>



**Other colours and cut lengths available on request. Please contact us!**

**Technical Table**

Article-No.	Type	Colour	Ø D	Wall (WT) nom.	Reel Length (m)
179-00009	<b>LFPT10</b>	Black (BK)	1.0	0.40	100
179-00018	<b>LFPT15</b>	Black (BK)	1.5	0.50	100
179-00027	<b>LFPT20</b>	Black (BK)	2.0	0.50	100
179-00004	<b>LFPT30</b>	Black (BK)	3.0	0.50	100
179-00036	<b>LFPT40</b>	Black (BK)	4.0	0.50	100
179-00046	<b>LFPT60</b>	Black (BK)	6.0	0.50	100
179-00001	<b>LFPT100</b>	Black (BK)	10.0	0.85	100
179-00002	<b>LFPT150</b>	Black (BK)	15.0	0.85	100

All dimensions in mm. Subject to technical changes.



Please note! Not every product listed carries these approvals! For Product Specific Approvals please refer to the Appendix.



## Helsyn rubber tubing H

### Features and Benefits

The high elasticity of the material ensures many cable diameters can be covered with one size of sleeve.

Can withstand up to 120°C intermittent temperature.

### Application

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

As the material is highly elastic, its 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 K, S and SS three prong tools (see Chapter 6.3) and the Hellerine lubricant (see Chapter 2.3), which are specially designed for use with HellermannTyton chloroprene tubing.



H rubber tubing is highly flexible and easy to apply.

**Other colours and cut lengths available on request. Please contact us!**

### Material Data

Material	<b>Chloroprene (CR)</b>
Operating Temperature	<b>-65 °C to +95 °C, Intermittent 120 °C</b>
Flammability	<b>UL94 HB</b>
Specification	<b>BS 3858 Type 1, IEC 684-3-116, BS 4 G 198 Part 1 Type 1, DEF STAN 59-15 D2</b>



### Technical Table

Article-No.	Type	Colour	Ø D	Wall (WT) nom.	Length (L)	Pack Cont. (pcs./bag)
600-01520	H12	Black (BK)	1.2	0.70	20	1000
600-01600	H15	Black (BK)	1.5	0.80	20	1000
600-01700	H20	Black (BK)	2.0	0.80	20	1000
600-01841	H30	Black (BK)	3.0	0.80	25	1000
600-01982	H50	Black (BK)	5.0	1.00	25	1000
600-02063	H75	Black (BK)	7.5	1.30	25	1000
600-02105	H100	Black (BK)	10.0	1.50	25	1000
600-02155	H150	Black (BK)	15.0	1.70	25	1000

All dimensions in mm. Subject to technical changes.



Please note! Not every product listed carries these approvals! For Product Specific Approvals please refer to the Appendix.



### Helsyn HS, HT

#### Features and Benefits

Chloroprene tubing and grommets are highly elastic in nature. They have very good insulating characteristics and are easy to fit.

#### Application

For years, HellermannTyton tubing and grommets have been the engineer's preferred choice for electrical insulation and mechanical protection in a diverse range of electronic and electrical industries.

To save time and effort when fitting the tubing, try the HellermannTyton NA three pronged pliers (see Chapter 6.3) and the Hellerine lubricant (see end of Chapter), which are specially designed for use with HellermannTyton chloroprene tubing.



Chloroprene tubing

Material Data	
Material	<b>Chloroprene (CR)</b>
Operating Temperature	<b>-25 °C to +100 °C</b>
Flammability	<b>UL94 HB and FMVSS-302</b>
Elongation at break	<b>min. 400%</b>



**Other colours and cut lengths available on request. Please contact us!**



Chloroprene tubing

Technical Table

Article-No.	Type	Ø D	Wall (WT) nom.	Bundle Ø max.	Reel Length (m)	Colour
<b>Tubing</b>						
608-00100	<b>HS0</b>	1.25	0.50	2.0	100	Black (BK)
608-00150	<b>HS1</b>	1.75	0.50	3.5	100	Black (BK)
608-00200	<b>HS1K</b>	2.50	0.90	4.0	100	Black (BK)
608-00250	<b>HS2</b>	3.00	0.60	6.0	100	Black (BK)
608-00300	<b>HS2K</b>	4.00	1.50	8.5	50	Black (BK)
608-00350	<b>HS3</b>	5.00	0.70	9.0	100	Black (BK)
608-00400	<b>HS4</b>	7.50	0.80	13.0	25	Black (BK)
608-00450	<b>HS5</b>	10.00	1.00	20.0	25	Black (BK)
608-00500	<b>HS8</b>	12.00	1.00	23.0	25	Black (BK)
608-00550	<b>HS9</b>	14.00	1.00	25.0	20	Black (BK)
608-00600	<b>HS10</b>	17.00	1.00	28.0	20	Black (BK)

All dimensions in mm. Subject to technical changes.

Technical Table

Article-No.	Type	Ø D	Wall (WT) nom.	Bundle Ø max.	Length (L)	Colour
<b>Grommets</b>						
600-10200	<b>HT0</b>	1.25	0.50	2.0	20	Black (BK)
600-15200	<b>HT1</b>	1.75	0.50	3.5	20	Black (BK)
600-20250	<b>HT1K</b>	2.50	0.90	4.0	25	Black (BK)
600-25250	<b>HT2</b>	3.00	0.60	6.0	25	Black (BK)
600-30300	<b>HT2K</b>	4.00	1.50	8.0	30	Black (BK)
600-35250	<b>HT3</b>	5.00	0.70	9.0	25	Black (BK)
600-40300	<b>HT4</b>	7.50	0.80	13.0	30	Black (BK)
600-45350	<b>HT5</b>	10.00	1.00	20.0	35	Black (BK)
600-50500	<b>HT8</b>	12.00	1.00	23.0	50	Black (BK)
600-55500	<b>HT9</b>	14.00	1.00	25.0	50	Black (BK)
600-60500	<b>HT10</b>	17.00	1.00	28.0	50	Black (BK)

All dimensions in mm. Subject to technical changes.



Chloroprene tubing

# 2.3 Insulation Non Shrinkable Tubing



## Helsyn PVC-Nitrile rubber tubing NT

### Features and Benefits

The high elasticity of the material ensures many cable diameters can be covered with one size of sleeve.

Can withstand up to 150°C intermittent temperature.

### Application

The PVC nitrile sleeves (NT) are ideally suited to rigorous environments such as aerospace, mass transit and defence.

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

Sleeves are available in international resistor colour code and pink.



NT rubber tubing is highly flexible and easy to apply.

**Other colours and cut lengths available on request. Please contact us!**

### Material Data

Material	PVC / Nitrile
Operating Temperature	-65 °C to +120 °C, Intermittent 150 °C
Specification	BS 4G 198 Part 1 Type 2, BS 3858 Type 4, DEF STAN 59-15 Type D3, IEC 684-3-151



### Technical Table

Article-No.	Type	Colour	Ø D	Wall (WT) nom.	Length (L)	Pack Cont. (pcs./bag)
602-01912	NT75	Black (BK)	7.5	1.30	25	1000
602-02005	NT100	Black (BK)	10.0	1.40	25	1000
602-02103	NT150	Black (BK)	15.0	1.40	25	1000

All dimensions in mm. Subject to technical changes.



Please note! Not every product listed carries these approvals! For Product Specific Approvals please refer to the Appendix.



### Helsyn Silicone rubber tubing SLP

#### Features and Benefits

The high elasticity of the material ensures that many cable diameters can be recovered with one size of sleeve.

Can withstand up to 250°C intermittent temperature.

#### Application

The silicone sleeves (SLP) are halogen free and ideally suited to rigorous environments such as aerospace, mass transit and defence markets.

SLP can be used in areas where there will be large numbers of people in confined areas and sensitive equipment is housed.

Sleeves are available in international resistor colour code, pink and transparent



SLP rubber tubing is highly flexible and easy to apply.

**Other colours and cut lengths available on request. Please contact us!**

#### Material Data

Material	<b>Silicone (SI)</b>
Operating Temperature	<b>-65 °C to +180 °C, Intermittent 250 °C</b>
Flammability	<b>UL94 HB</b>
Specification	<b>BS 2848 Type 5 Class 180T, BS 3858 Type 5 , BS 3G 198 Type 4</b>



#### Technical Table

Article-No.	Type	Colour	Ø D	Wall (WT) nom.	Length (L)	Pack Cont. (pcs./bag)
606-00381	<b>SLP15</b>	Black (BK)	1.5	0.50	15	1000
606-00471	<b>SLP30</b>	Black (BK)	3.0	0.50	20	1000
606-00493	<b>SLP40</b>	Black (BK)	4.0	0.50	20	1000
606-00714	<b>SLP50</b>	Black (BK)	5.0	0.50	20	1000
606-00523	<b>SLP70</b>	Black (BK)	7.0	0.50	20	1000

All dimensions in mm. Subject to technical changes.

## 2.3 Insulation Non Shrinkable Tubing



### PTFE tubing FE

#### Features and Benefits

FE tubing is specified predominantly because of its very high temperature resistance. It is a thin walled transparent or coloured tubing that has both high abrasion resistance and good resistance against aggressive chemicals.

#### Application

FE is ideal for high temperature applications, when resistance to aggressive fluids is required for example in high performance hose applications. FE tubing is also used to reduce movement due to friction, covering cable or wire.



PTFE tubing FE.

**Other colours and cut lengths available on request. Please contact us!**

#### Material Data

Material	<b>Polytetrafluoroethylene (PTFE)</b>
Operating Temperature	<b>-65 °C to +250 °C, Intermittent +350 °C</b>
Flammability	<b>UL94 V0</b>
Specification	<b>DEF STAN 59-15 Type D6, BS 2848 Type 6 250T</b>



#### Technical Table

Article-No.	Type	Colour	Ø D	Wall (WT) nom.	Reel Length (m)
178-00005	<b>FE3</b>	Natural (NA)	0.33	0.20	500.0 m
178-00012	<b>FE4</b>	Natural (NA)	0.38	0.25	500.0 m
178-00020	<b>FE5</b>	Natural (NA)	0.51	0.25	500.0 m
178-00056	<b>FE9</b>	Natural (NA)	0.89	0.25	500.0 m
178-00068	<b>FE10</b>	Natural (NA)	1.02	0.30	500.0 m
178-00083	<b>FE11</b>	Natural (NA)	1.14	0.30	500.0 m
178-00119	<b>FE15</b>	Natural (NA)	1.58	0.30	500.0 m
178-00143	<b>FE19</b>	Natural (NA)	1.91	0.30	250.0 m

All dimensions in mm. Subject to technical changes.

**DEF STAN**

Please note! Not every product listed carries these approvals! For Product Specific Approvals please refer to the Appendix.



### Hellerine lubricant

Hellerine is an effective aid for installation of elastomer sleeves. It slowly evaporates after installation so that sleeves can still be manipulated if necessary. Hellerine is ideal for lubricating most rubber and plastic markers and sleeves. Hellerine is available in a 284 ml bottle or 5 l container.



Hellerine lubricant in 284ml plastic bottle.

#### Technical Table

Article-No.	Description
625-00001	Hellerine M, 284 ml
625-00004	Hellerine M, 5 l

Subject to technical changes.



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