

2.3 Insulation Non Shrinkable Tubing



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



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	P10	Black (BK)	1.0	0.35	250
172-03036	P15	Black (BK)	1.5	0.35	250
172-03108	P30	Black (BK)	3.0	0.35	100
172-03123	P40	Black (BK)	4.0	0.35	50
172-03158	P55	Black (BK)	5.5	0.40	200
172-03170	P75	Black (BK)	7.5	0.50	100
172-03013	P100	Black (BK)	10.0	0.50	150
172-03048	P150	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

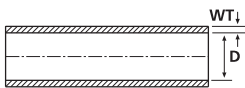
Features and Benefits

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



Other Colours available on request. Please contact us!

Technical Table

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

All dimensions in mm. Subject to technical changes.



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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.

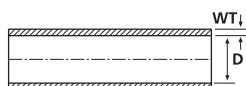
Application

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



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	PVCB15	Black (BK)	1.5	0.50	100
172-00055	PVCB20	Black (BK)	2.0	0.50	100
172-00064	PVCB30	Black (BK)	3.0	0.50	100
172-00071	PVCB40	Black (BK)	4.0	0.50	100
172-00077	PVCB50	Black (BK)	5.0	0.50	100
172-00081	PVCB60	Black (BK)	6.0	0.50	100
172-00088	PVCB90	Black (BK)	9.0	0.65	100
172-00047	PVCB120	Black (BK)	12.0	0.85	100
172-00061	PVCB250	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.

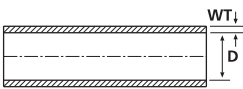
Application

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



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	LFPT10	Black (BK)	1.0	0.40	100
179-00018	LFPT15	Black (BK)	1.5	0.50	100
179-00027	LFPT20	Black (BK)	2.0	0.50	100
179-00004	LFPT30	Black (BK)	3.0	0.50	100
179-00036	LFPT40	Black (BK)	4.0	0.50	100
179-00046	LFPT60	Black (BK)	6.0	0.50	100
179-00001	LFPT100	Black (BK)	10.0	0.85	100
179-00002	LFPT150	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	Chloroprene (CR)
Operating Temperature	-65 °C to +95 °C, Intermittent 120 °C
Flammability	UL94 HB
Specification	BS 3858 Type 1, IEC 684-3-116, BS 4 G 198 Part 1 Type 1, DEF STAN 59-15 D2



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.



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



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
Tubing						
608-00100	HS0	1.25	0.50	2.0	100	Black (BK)
608-00150	HS1	1.75	0.50	3.5	100	Black (BK)
608-00200	HS1K	2.50	0.90	4.0	100	Black (BK)
608-00250	HS2	3.00	0.60	6.0	100	Black (BK)
608-00300	HS2K	4.00	1.50	8.5	50	Black (BK)
608-00350	HS3	5.00	0.70	9.0	100	Black (BK)
608-00400	HS4	7.50	0.80	13.0	25	Black (BK)
608-00450	HS5	10.00	1.00	20.0	25	Black (BK)
608-00500	HS8	12.00	1.00	23.0	25	Black (BK)
608-00550	HS9	14.00	1.00	25.0	20	Black (BK)
608-00600	HS10	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
Grommets						
600-10200	HT0	1.25	0.50	2.0	20	Black (BK)
600-15200	HT1	1.75	0.50	3.5	20	Black (BK)
600-20250	HT1K	2.50	0.90	4.0	25	Black (BK)
600-25250	HT2	3.00	0.60	6.0	25	Black (BK)
600-30300	HT2K	4.00	1.50	8.0	30	Black (BK)
600-35250	HT3	5.00	0.70	9.0	25	Black (BK)
600-40300	HT4	7.50	0.80	13.0	30	Black (BK)
600-45350	HT5	10.00	1.00	20.0	35	Black (BK)
600-50500	HT8	12.00	1.00	23.0	50	Black (BK)
600-55500	HT9	14.00	1.00	25.0	50	Black (BK)
600-60500	HT10	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	Silicone (SI)
Operating Temperature	-65 °C to +180 °C, Intermittent 250 °C
Flammability	UL94 HB
Specification	BS 2848 Type 5 Class 180T, BS 3858 Type 5 , BS 3G 198 Type 4



Technical Table

Article-No.	Type	Colour	Ø D	Wall (WT) nom.	Length (L)	Pack Cont. (pcs./bag)
606-00381	SLP15	Black (BK)	1.5	0.50	15	1000
606-00471	SLP30	Black (BK)	3.0	0.50	20	1000
606-00493	SLP40	Black (BK)	4.0	0.50	20	1000
606-00714	SLP50	Black (BK)	5.0	0.50	20	1000
606-00523	SLP70	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	Polytetrafluoroethylene (PTFE)
Operating Temperature	-65 °C to +250 °C, Intermittent +350 °C
Flammability	UL94 V0
Specification	DEF STAN 59-15 Type D6, BS 2848 Type 6 250T



Technical Table

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