

3.1 Protective Tubing and Spiral Binding

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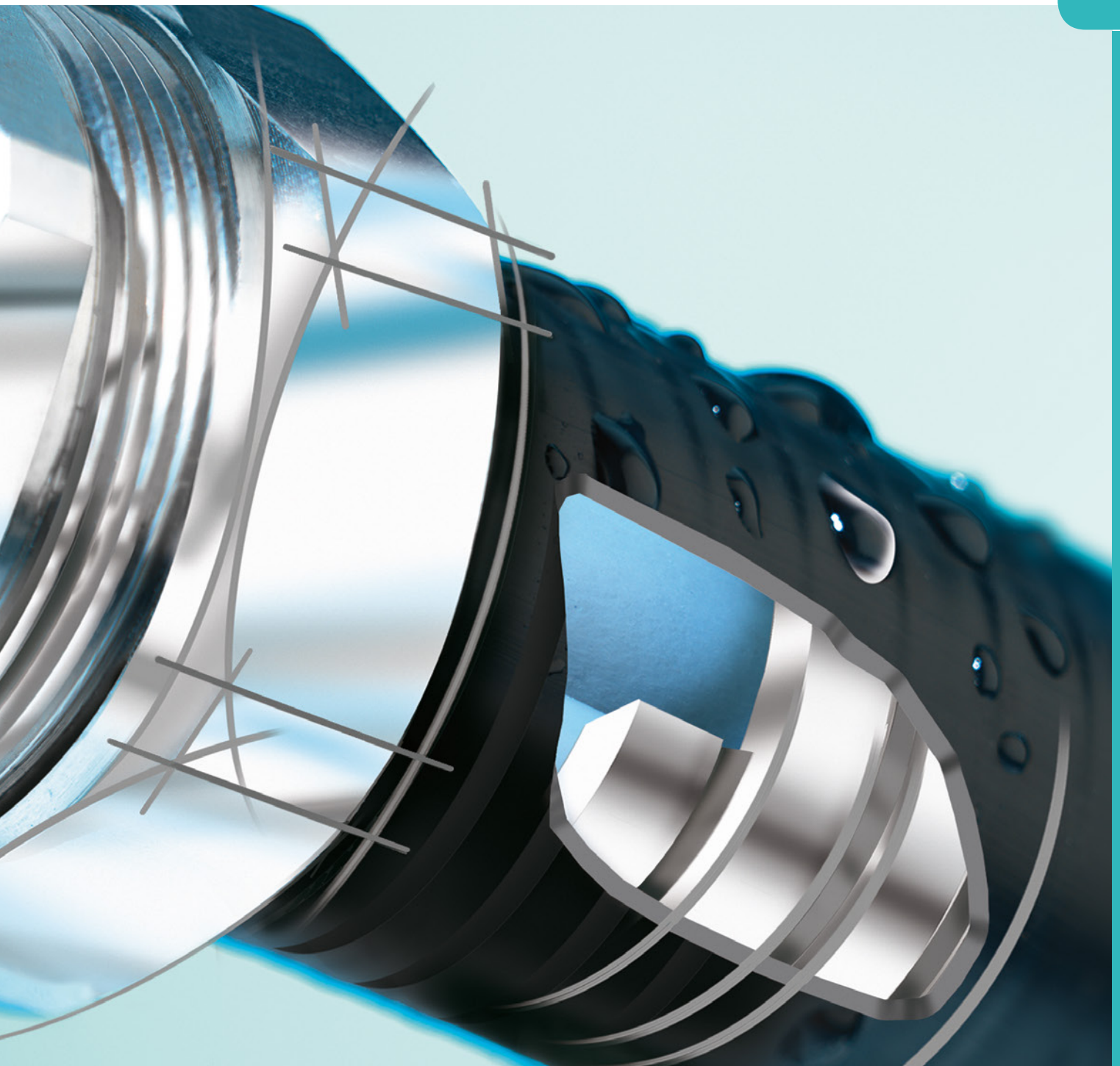
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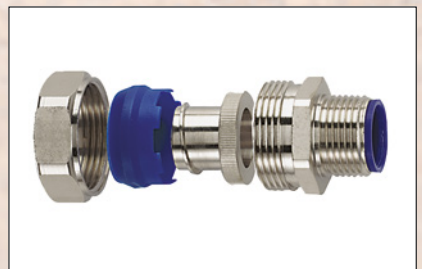
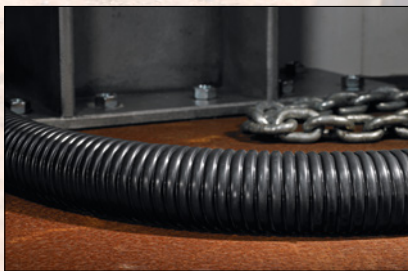
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HelaGuard Flexible Conduits and Fittings

Non-Metallic Conduit Systems



Metallic Conduit Systems



Spiral-Reinforced Conduit Systems



Find more information in our Engineered Solutions Catalogue in chapter 3.

www.HellermannTyton.co.uk

HellermannTyton



One Step to the Web!



Helawrap Cable Cover

- Helawrap HWPP

Helawrap is used to bundle and protect cables in the electrical industry, panel building, machine, automotive and truck manufacturing. Helawrap in 25m lengths is the time-saving solution for industrial applications.

Helawrap in practical 2m lengths is designed for domestic and office use. It puts an end to the cable chaos associated with PCs, TVs and Hi-Fi systems.

Features and Benefits

- Ideal solution for bundling, protecting, mounting and routing cables
- Quick and effortless to apply
- Good abrasion protection
- Special profile enables branching off cable at any point
- Can be removed and reapplied often
- Available in several colours and sizes
- Handy applicator tool included

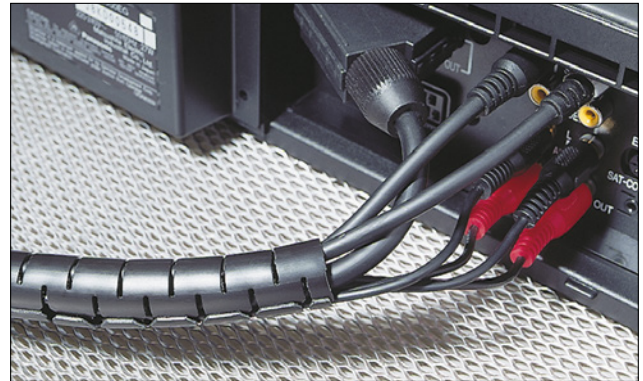
MATERIAL	Polypropylene (PP)
Operating Temperature	-60 °C to +110 °C, intermittent +140 °C
Flammability	UL94 HB



Helawrap made of flame-retardant polyamide 6 can be found in the Engineered Solutions Catalogue.



One Step to the Web!



Complete cable management for home and office.



Helawrap, the fast and easy solution to your cable chaos, available in 2 sizes and 3 colours!



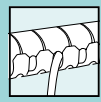
Insert one or more cables into the insertion slot of the applicator tool.



Place the applicator tool in one end of the Helawrap cable cover.



Simply slide the applicator tool through the Helawrap cover.



Helawrap Cable Cover

- Helawrap HWPP

TYPE	Bundle Ø max.	Colour	Reel Length	Application Tool	Article-No.
HWPP8	9	Black (BK)	25 m	HAT8	161-64101
	9	Grey (GY)	25 m	HAT8	161-64102
	9	Silver (SR)	25 m	HAT8	161-64103
	9	White (WH)	25 m	HAT8	161-64104
HWPP16	16	Black (BK)	25 m	HAT16	161-64201
	16	Grey (GY)	25 m	HAT16	161-64202
	16	Silver (SR)	25 m	HAT16	161-64203
	16	White (WH)	25 m	HAT16	161-64207
HWPP20	21	Black (BK)	25 m	HAT20	161-64301
	21	Grey (GY)	25 m	HAT20	161-64302
	21	Silver (SR)	25 m	HAT20	161-64303
	21	White (WH)	25 m	HAT20	161-64304
HWPP25	27	Black (BK)	25 m	HAT25	161-64401
	27	Grey (GY)	25 m	HAT25	161-64402
	27	Silver (SR)	25 m	HAT25	161-64403
	27	White (WH)	25 m	HAT25	161-64407
HWPP30	32	Black (BK)	25 m	HAT30	161-64501
	32	Grey (GY)	25 m	HAT30	161-64502
	32	Silver (SR)	25 m	HAT30	161-64503
	32	White (WH)	25 m	HAT30	161-64504

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

TYPE	Bundle Ø max.	Colour	Length (L)	Application Tool	Article-No.
HWPP16L2	16	Black (BK)	2 m	HAT16	161-64204
	16	Grey (GY)	2 m	HAT16	161-64205
	16	Silver (SR)	2 m	HAT16	161-64206
HWPP25L2	27	Black (BK)	2 m	HAT25	161-64404
	27	Grey (GY)	2 m	HAT25	161-64405
	27	Silver (SR)	2 m	HAT25	161-64406

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



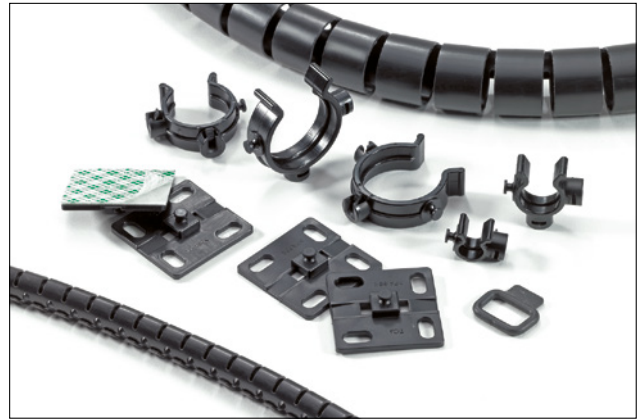
Accessories for retaining Helawrap Open Cable Cover

- **HWClips**

Helawrap clips and mounting plates can be linked into chains to bundle, protect and fix any number of cables on industrial machines. They can also be used in wiring cabinets, particularly in the door area where movement is a requirement. Helawrap accessories are also used to manage cables in the office or home.

Features and Benefits

- Mounts and routes Helawrap cable cover flexibly and efficiently
- Fit snugly around the cable cover and holds it tight
- Each clip can be joined to mounting plate or other clips of any size
- Each clip rotates freely
- Easily released and re-used
- Mounting plates fixed with screws, cable ties or adhesive



The Helawrap accessory set for bundling, fixing and protecting multiple cable runs.

MATERIAL	Polyamide 6.6 High Imp. Mod., Heat Stab. (PA66HIRHS)	Flexible Polyvinyl Chloride, cadmium free (PVC)
Operating Temperature	-40 °C to +105 °C	-35 °C to +85 °C
Flammability	UL94 HB	UL94 V2



Multiple clips can be joined. Clips swivel freely.



For secure hold, R1 loop can be used (for HWClip25 and HWClip30 only).

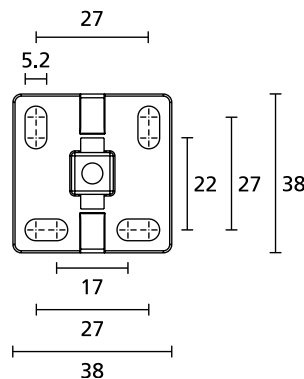
TYPE	for Helawrap size	Material	Colour	Article-No.
HWCLIP08	8	PA66HIRHS	Black (BK)	161-64002
HWCLIP16	16	PA66HIRHS	Black (BK)	161-64004
HWCLIP20	20	PA66HIRHS	Black (BK)	161-64006
HWCLIP25	25	PA66HIRHS	Black (BK)	161-64008
R1	25, 30	PVC	Black (BK)	201-20010
HWCLIP30	30	PA66HIRHS	Black (BK)	161-64010

Subject to technical changes.

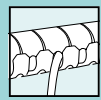
- **HWBase**

TYPE	Colour	Article-No.
HWBASEA	Black (BK)	161-64012
HWBASE	Black (BK)	161-64014

Subject to technical changes.



Helawrap HWBase/HWBaseA



Application Tools for Helawrap Cable Cover

- **HAT Tools**

Features and Benefits

- Bundle cable rapidly and effortlessly
- Glides smoothly and securely through cover
- Easy insertion of cable



Applicator tools HAT are available for every Helawrap cover size.

TYPE	Colour	Pack Cont.	Article-No.
HAT8	Blue (BU)	10 pcs.	161-60001
HAT16	Blue (BU)	10 pcs.	161-60002
HAT20	Blue (BU)	10 pcs.	161-60003
HAT25	Blue (BU)	10 pcs.	161-60004
HAT30	Blue (BU)	10 pcs.	161-60005

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

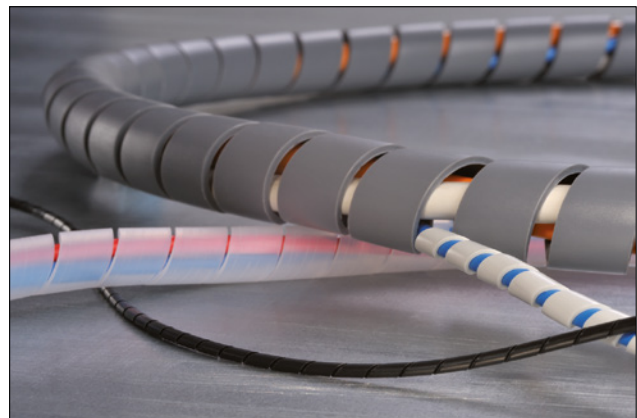
Standard Polyethylene Spiral Binding for general applications

- **SBPE**

SBPE spiral binding is suitable for standard electrical applications and panel building and plant engineering. Sizes 4 and 9 are also available in practical 5 metre lengths.

Features and Benefits

- Organises and protects cables and hoses
- Suitable for retro-fitting
- Cables branch out at any point
- Wide range of diameters and colours



Spiral binding SBPE.

MATERIAL	Polyethylene (PE)
Operating Temperature	-60 °C to +90 °C, intermittent +120 °C
Flammability	UL94 HB



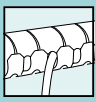
Spiral binding made of flame-retardant polyethylene can be found in the Engineered Solutions Catalogue.



One Step to the Web!

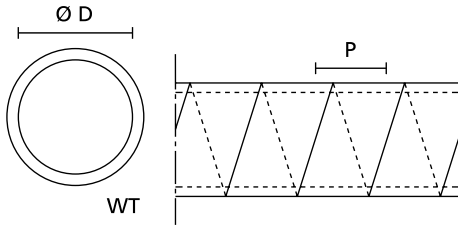


SBPE spiral binding is also available in practical 5m lengths.



Standard Polyethylene Spiral Binding for general applications

- SBPE



TYPE	Nominal Ø	Wall (WT)	Pitch (P)	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
SBPE1.5	1.5	0.8	6.0	1.6	8	Black (BK)	30 m	161-41001
	1.5	0.8	6.0	1.6	8	Grey (GY)	30 m	161-41002
	1.5	0.8	6.0	1.6	8	Natural (NA)	30 m	161-41000
SBPE4	4	1.0	7.8	5	20	Black (BK)	30 m	161-41101
	4	1.0	7.8	5	20	Grey (GY)	30 m	161-41102
	4	1.0	7.8	5	20	Natural (NA)	30 m	161-41100
SBPE9	9	1.4	12.5	10	100	Black (BK)	30 m	161-41201
	9	1.4	12.5	10	100	Grey (GY)	30 m	161-41202
	9	1.4	12.5	10	100	Natural (NA)	30 m	161-41200
SBPE16	16	1.6	16.0	20	150	Black (BK)	30 m	161-41301
	16	1.6	16.0	20	150	Grey (GY)	30 m	161-41302
	16	1.6	16.0	20	150	Natural (NA)	30 m	161-41300

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

TYPE	Nominal Ø	Wall (WT)	Pitch (P)	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
SBPE4D	4	1.0	7.8	5	20	Black (BK)	5 m	161-41104
	4	1.0	7.8	5	20	Grey (GY)	5 m	161-41105
	4	1.0	7.8	5	20	Natural (NA)	5 m	161-41103
SBPE9D	9	1.4	12.5	10	100	Black (BK)	5 m	161-41204
	9	1.4	12.5	10	100	Grey (GY)	5 m	161-41205
	9	1.4	12.5	10	100	Natural (NA)	5 m	161-41203

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



Polyamide Spiral Binding for added strength and protection against abrasion

- SBPA

SBPA spiral binding is used for cable harnesses in the automobile industry and for many demanding industrial applications.

Features and Benefits

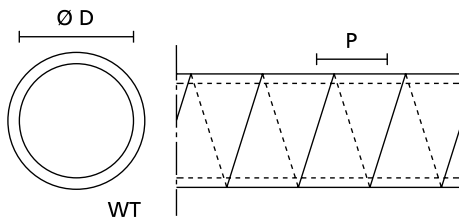
- Organises and protects cables and hoses
- Very good protection against abrasion
- Suitable for retro-fitting
- Cables branch out at any point
- Wide range of diameters and colours



SPBA spiral binding offers good protection against abrasion.

Spiral binding made of flame-retardant polyamide 6 can be found in the Engineered Solutions Catalogue.

MATERIAL	Polyamide 6 (PA6)
Operating Temperature	-60 °C to +95 °C, intermittent +130 °C
Flammability	UL94 HB



TYPE	Nominal Ø	Wall (WT)	Pitch (P)	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
SBPA1.5	1.5	0.4	6.0	1.6	8	Natural (NA)	30 m	161-42000
SBPA4	4	0.6	7.8	5	20	Natural (NA)	30 m	161-42100
SBPA9	9	1.0	12.5	10	100	Natural (NA)	30 m	161-42200
SBPA16	16	1.2	16.0	20	150	Natural (NA)	30 m	161-42300

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



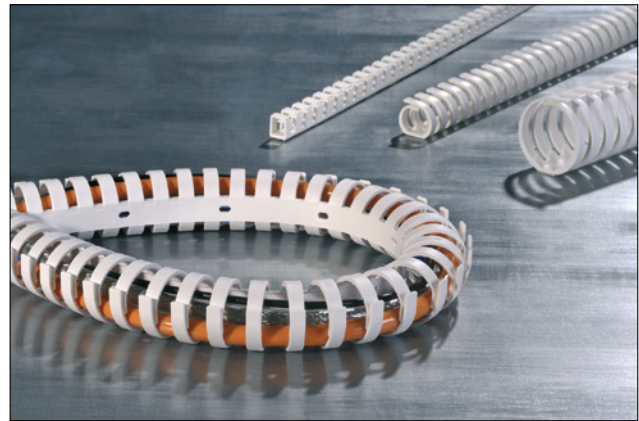
Flexible Cable Support

- **Heladuct Flex**

Heladuct flexible cable supports are commonly used in switching cabinets. They are also used in the furniture industry, where cables need to be routed rapidly and attractively.

Features and Benefits

- Space-saving wiring system
- Highly flexible, can be installed at angles of 90° and higher
- Cable clearly open to view
- Rapid mounting with screws or adhesive strip with high-quality foam bonding layer



Heladuct Flex- clearly and space-saving arrangement of wiring, even at angles above 90°.

MATERIAL	Polypropylene (PP)
Operating Temperature	-20 °C to +70 °C
Adhesive	Synthetic rubber with base of polyethylene foam
Flammability	UL94 V0 (excluding adhesive)

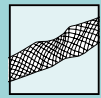


TYPE	Nominal Ø	No. of Wires			Max. load on a length of 500 mm at 70 °C (g)	Colour	Length (L)	Article-No.
		9 x 0,75 mm ²	6 x 1,50 mm ²	4 x 2,50 mm ²				
Heladuct Flex10	10	9 x 0,75 mm ²	6 x 1,50 mm ²	4 x 2,50 mm ²	100	White (WH)	500	164-11008
Heladuct Flex20	20	32 x 0,75 mm ²	22 x 1,50 mm ²	14 x 2,50 mm ²	300	White (WH)	500	164-21008
Heladuct Flex30	30	67 x 0,75 mm ²	50 x 1,50 mm ²	34 x 2,50 mm ²	650	White (WH)	500	164-31008
Heladuct Flex40	40	-	81 x 1,50 mm ²	60 x 2,50 mm ²	1,100	White (WH)	500	164-41008

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

TYPE	Nominal Ø	No. of Wires			Max. load on a length of 500 mm at 70 °C (g)	Colour	Length (L)	Article-No.
		9 x 0,75 mm ²	6 x 1,50 mm ²	4 x 2,50 mm ²				
Heladuct Flex10SK	10	9 x 0,75 mm ²	6 x 1,50 mm ²	4 x 2,50 mm ²	100	White (WH)	500	164-11108
Heladuct Flex20SK	20	32 x 0,75 mm ²	22 x 1,50 mm ²	14 x 2,50 mm ²	300	White (WH)	500	164-21108
Heladuct Flex30SK	30	67 x 0,75 mm ²	50 x 1,50 mm ²	34 x 2,50 mm ²	500	White (WH)	500	164-31108
Heladuct Flex40SK	40	-	81 x 1,50 mm ²	60 x 2,50 mm ²	400	White (WH)	500	164-41108

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



Standard polyester braided sleeving

- **Helagain HEGP**

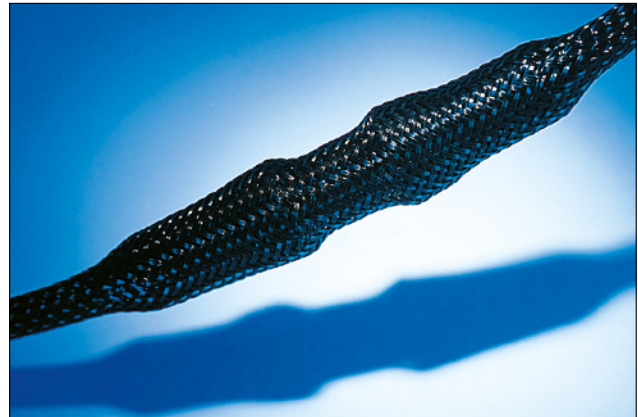
Helagain HEGP braided sleeving is used in the automotive industry and in machine construction. It is also used for smaller electrical appliances to avoid pockets of high temperature. HEGP fulfils the strict requirement of DIN5510-2 and is therefore also optimal for railway applications.

Features and Benefits

- Made of sturdy polyester
- Highly flexible
- High abrasion resistance
- Very high surface coverage
- 13 sizes for diameters from 1 - 66 mm for an optimal fit

To prevent fraying, the sleeve can be cut with the hot cutting tool HSG0, see page 180.

Braided sleeving made of flame-retardant polyethylene can be found in the Engineered Solutions Catalogue.



Helagain HEGP braided sleeving.

MATERIAL	Polyester (PET)
Operating Temperature	-50 °C to +150 °C, intermittent +220 °C
Melting Point	+250 °C
Flammability	UL94 V2, FMVSS 302
Specifications	DIN 5510-2



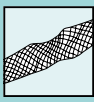
TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
HEGP03	1	5	Black (BK)	200 m	170-10300
HEGP04	2	7	Black (BK)	200 m	170-10400
HEGP05	3	9	Black (BK)	200 m	170-10500
HEGP06	4	11	Black (BK)	100 m	170-10600
HEGP08	5	12	Black (BK)	100 m	170-10800
HEGP10	7	15	Black (BK)	100 m	170-11000
HEGP12	8	17	Black (BK)	100 m	170-11200
HEGP15	10	20	Black (BK)	100 m	170-11500
HEGP20	14	26	Black (BK)	50 m	170-12000
HEGP25	18	34	Black (BK)	50 m	170-12500
HEGP30	20	40	Black (BK)	50 m	170-13000
HEGP40	30	50	Black (BK)	50 m	170-14000
HEGP50	40	66	Black (BK)	50 m	170-15000

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Cuts in any lengths. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Standard polyester braided sleeving, expansion rate: 3:1

- Helagaine HEGPX

Helagaine HEGP and HEGPX braided sleeving is used in the automobile sector and in machine construction. It is also used for smaller electrical appliances to avoid pockets of high temperature. HEGP and HEGPX can be supplied in pre-cut lengths on request.

Features and Benefits

- Made of sturdy polyester
- Highly flexible
- Expansion rate of 3:1
- Easy to apply over irregular shapes
- Good abrasion resistance
- 7 sizes for diameters from 3 - 70 mm for an optimal fit

To prevent fraying, the sleeve can be cut with the hot cutting tool HSG0, see page 180.

Braided sleeving made of flame-retardant polyethylene can be found in the Engineered Solutions Catalogue.



Helagaine HEGPL Braided Sleeving.

MATERIAL	Polyester (PET)
Operating Temperature	-50 °C to +150 °C, intermittent +220 °C
Melting Point	+250 °C
Flammability	UL94 V2, FMVSS 302
Specifications	DIN 5510-2, UL-Recognised

HF ✓

RoHS ✓

TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
HEGPX06	3	10	Black (BK)	200 m	170-00060
HEGPX09	5	16	Black (BK)	100 m	170-00090
HEGPX12	6	19	Black (BK)	100 m	170-00120
HEGPX20	13	32	Black (BK)	100 m	170-00200
HEGPX30	19	45	Black (BK)	50 m	170-00300
HEGPX40	32	70	Black (BK)	50 m	170-00400

All dimensions in mm. Subject to technical changes.

Colour grey available on request. Cuts in any lengths. Minimum Order Quantity (MOQ) may differ from package content.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Standard braided sleeving in dispenser boxes

- **Helagaine HLB**

Helagaine HLB is supplied in practical dispenser boxes and covers a wide range of applications with only a few sizes. It is ideal for both the professional and the home user. Helagaine HLB bundles and effectively protects cables and wires, for instance in HiFi systems and in industrial plants. Helagaine HLB also provides good resistance to abrasion.

Features and Benefits

- In practical, space-saving 10m dispenser boxes
- Expansion rate of 3:1
- Bundling diameters from 5mm to 54mm
- Three sizes for very wide range of applications
- Extraction of sleeves

To prevent fraying, the sleeve can be cut with the hot cutting tool HSG0, see page 180.



One Step to the Web!



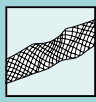
Helagaine HLB: The expansion rate makes it possible. Only three sizes in a handy dispenser box for almost all standard diameters.

MATERIAL	Polyester (PET)
Operating Temperature	-50 °C to +150 °C, intermittent +220 °C
Melting Point	+250 °C



TYPE	Ø D	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
HLB15	15	5	21	Black (BK)	10.0 m	170-80150
HLB25	25	10	30	Black (BK)	10.0 m	170-80250
HLB35	35	18	54	Black (BK)	10.0 m	170-80350

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



Polyester self-closing sleeving

- Helagaine Twist-In

Helagaine Twist-In has many applications in engineering, electronics and electrical installations. Twist-In in the practical 2m and 5m lengths, used at home and office, provide perfect cable protection for PC, TV- and HiFi-equipment.

Features and Benefits

- Self-closing sleeve made of polyester
- Very good protection against abrasion
- Ideal for retro-fitting
- Quick and easy installation and removal
- Allows to bundle for inspection, maintenance and assembly
- Small range of sizes covers a wide range of applications



Helagaine Twist-In gives easy access to cables and wires for inspection, maintenance and assembly.

To prevent fraying, the sleeve can be cut with the hot cutting tool HSG0, see page 180.

MATERIAL	Polyester (PET)
Operating Temperature	-70 °C to +125 °C
Melting Point	+255 °C
Flammability	FMVSS 302, Self extinguishing



Twist-In made of flame-retardant polyester can be found in the Engineered Solutions Catalogue.



One Step to the Web!



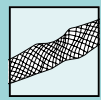
Twist-In Distribution-Pack for smaller installations.

TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
Twist-In 05	4	5	Black (BK)	150 m	170-01000
Twist-In 08	5	8	Black (BK)	100 m	170-01001
Twist-In 13	10	13	Black (BK)	50 m	170-01002
Twist-In 19	16	19	Black (BK)	25 m	170-01004
Twist-In 25	19	25	Black (BK)	25 m	170-01005
Twist-In 29	25	29	Black (BK)	15 m	170-01006
Twist-In 32	29	32	Black (BK)	15 m	170-01007
Twist-In 38	32	38	Black (BK)	15 m	170-01008
Twist-In 50	38	50	Black (BK)	15 m	170-01010

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

TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
Twist-In 05	4	5	Black (BK)	5 m	170-01011
Twist-In 08	5	8	Black (BK)	5 m	170-01012
Twist-In 13	10	13	Black (BK)	5 m	170-01013
Twist-In 19	16	19	Black (BK)	2 m	170-01014
Twist-In 25	19	25	Black (BK)	2 m	170-01015
Twist-In 29	25	29	Black (BK)	2 m	170-01016
Twist-In 32	29	32	Black (BK)	2 m	170-01017
Twist-In 38	32	38	Black (BK)	2 m	170-01018

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



Re-sealable protective sleeving for post-termination cable organisation

- HELAHOOK

HELAHOOK is used in industrial machines, electrical appliances, shipbuilding, railway vehicles and in the aerospace industry. HELAHOOK is also employed in automobiles or commercial vehicles. It is the ideal solution for post-termination cable organisation and wherever repeated use is a necessity.

Features and Benefits

- Re-sealable cable protection made of polyester
- Very elastic, fits snugly around the cables
- Hook and loop sealing system can be used for retro-fitting
- High abrasion-resistance



HELAHOOK protective sleeving allows for retrospective fitting and repeated use.



One Step to the Web!

MATERIAL	Polyester (PET)
Operating Temperature	-50 °C to +150 °C
Flammability	UL94 V2, FMVSS 302
Specifications	NF F 16-101

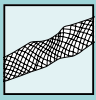


TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
HELAHOOK10	3	15	Black (BK)	25 m	170-05100
HELAHOOK15	10	20	Black (BK)	25 m	170-05150
HELAHOOK20	15	30	Black (BK)	25 m	170-05200
HELAHOOK25	20	40	Black (BK)	25 m	170-05250
HELAHOOK30	25	50	Black (BK)	25 m	170-05300

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



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



Hot cutting tool

- HSG0

The HSG0 hand tool is used to cut braided sleeving cleanly and without fraying.

Features and Benefits

- Light and sturdy
- Heats up quickly with the press of button and cuts in seconds
- The yarn melts and fuses together
- No fraying of the sleeving



The HSG0 hot cutting tool prevents the braided sleeving from fraying.

TYPE	Weight	Colour	Article-No.
HSG0	1.15 kg	Blue (BU)	170-99001

Subject to technical changes.



Cable Protection for sharp-edged cut-out-sections

- **Flexiform Edge Protection grommet strip**

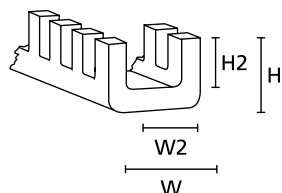
Flexiform grommet strip is used to protect cables routed through sharp-edged cutout sections.

Features and Benefits

- Very flexible
- Easily and securely applied without adhesives
- Excellent resistance to high temperatures and most chemicals
- Close-fitting rail for effective, orderly-looking protection



Optimal protection of cables and wires at panel edges.



MATERIAL	Polyethylene (PE)
Operating Temperature	-30 °C to +80 °C, (+120 °C, 200 h)
Flammability	UL94 HB

HF ✓

RoHS ✓

TYPE	Panel Thickness	Width (W)	Width (W2)	Height (H)	Height (H2)	Material	Colour	Pack Cont.	Article-No.
G51PA	0.40 - 1.30	3.9	1.5	4.3	2.7	PE	Natural (NA)	25 m	251-10109
G51PB	1.30 - 2.10	4.6	2.4	4.3	2.7	PE	Natural (NA)	25 m	251-10209
G51PC	2.10 - 3.30	5.7	3.5	4.3	2.7	PE	Natural (NA)	25 m	251-10309
G51PAA	3.30 - 4.80	2.3	0.9	2.7	1.8	PE	Natural (NA)	25 m	251-10009
G51PD	3.30 - 4.80	8.4	5.1	6.2	4.3	PE	Natural (NA)	25 m	251-10409
G51PE	4.80 - 6.50	9.9	6.7	6.4	4.5	PE	Natural (NA)	25 m	251-10509
G51PF	6.50 - 8.10	11.4	8.3	6.8	4.8	PE	Natural (NA)	25 m	251-10609
G51PG	8.10 - 9.70	13.2	10.1	6.8	4.8	PE	Natural (NA)	25 m	251-10709
G51PH	9.70 - 12.90	16.4	13.2	6.8	4.8	PE	Natural (NA)	25 m	251-10809

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Flexiform grommet strips are not self-adhesive and therefore not suitable for outer edges.



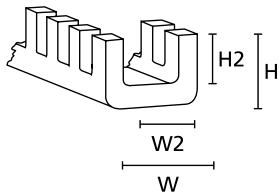
Cable Protection for sharp-edged cut-out-sections

- **Flexiform Edge Protection grommet strip**

Flexiform grommet strip is used to protect cables routed through sharp-edged cutout sections.

Features and Benefits

- Very flexible
- Easily and securely applied without adhesives
- Very high abrasion resistance
- Close-fitting rail for effective, orderly-looking protection



MATERIAL	Polyamide 6 (PA6)
Operating Temperature	-60 °C to +95 °C, (+130 °C, 200 h)
Flammability	UL94 HB
Specifications	PAN 6480-A

HF ✓

RoHS ✓

TYPE	Panel Thickness	Width (W)	Width (W2)	Height (H)	Height (H2)	Material	Colour	Pack Cont.	Article-No.
G51NA	0.40 - 1.30	3.9	1.5	4.3	2.7	PA6	Natural (NA)	25 m	251-21109
G51NB	1.30 - 2.10	4.6	2.4	4.3	2.7	PA6	Natural (NA)	25 m	251-21209
G51NC	2.10 - 3.30	5.7	3.5	4.3	2.7	PA6	Natural (NA)	25 m	251-21309
G51ND	3.30 - 4.80	8.4	5.1	6.2	4.3	PA6	Natural (NA)	25 m	251-21409
G51NE	4.80 - 6.50	9.9	6.7	6.4	4.5	PA6	Natural (NA)	25 m	251-21509
G51NF	6.50 - 8.10	11.4	8.3	6.8	4.8	PA6	Natural (NA)	25 m	251-21609
G51NG	8.10 - 9.70	13.2	10.1	6.8	4.8	PA6	Natural (NA)	25 m	251-21709
G51NH	9.70 - 12.90	16.4	13.2	6.8	4.8	PA6	Natural (NA)	25 m	251-21809

All dimensions in mm. Subject to technical changes. Minimum Order Quantity (MOQ) may differ from package content. Flexiform grommet strips are not self-adhesive and therefore not suitable for outer edges.



Please note! Not all products listed on this page may have this approval. For product specific approvals please refer to the Appendix.



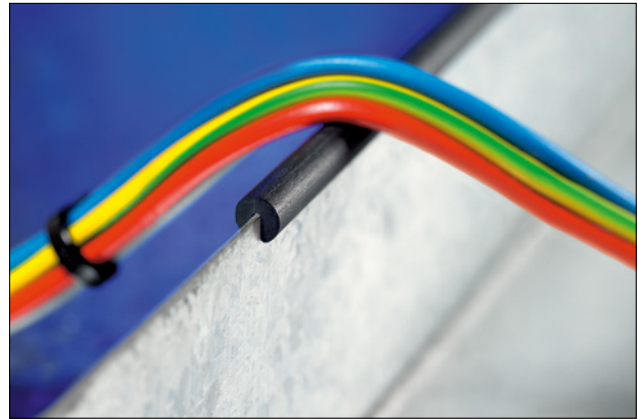
Beading Edge Protection

- **EdgeGuard**

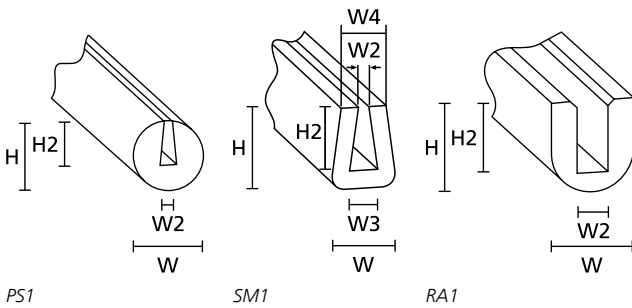
PVC Beading strip is used to protect cables routed through sharp-edged cutout sections. It can also be used to provide an attractive finish to panel edges.

Features and Benefits

- Very flexible
- Easy to apply
- Protects cables from chafing on bulkheads



EdgeGuard.

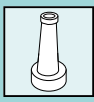


MATERIAL	Flexible Polyvinyl Chloride, cadmium free (PVC)
Operating Temperature	-65 °C to +105 °C
Flammability	UL94 HB

RoHS ✓

TYPE	Width (W)	Width (W2)	Width (W3)	Width (W4)	Height (H)	Height (H2)	Colour	Pack Cont.	Article-No.
PS1	1.2	0.6	-	-	5.0	3.15	Black (BK)	75 m	800-00200
SM1	5.0	1.0	1.8	4.2	6.3	4.9	Black (BK)	75 m	800-00004
RA1	6.4	2.4	-	-	7.1	5.6	Black (BK)	75 m	800-00001

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



Push-on Caps

The protective push-on caps and elbow grommets are specially constructed to insulate and protect flat pin bushings. The caps and grommets are used in all areas of automotive electronics and in electrical connection systems.

Features and Benefits

- Protects effectively against spraying water
- Flexible and easy to apply
- High resistance to chemicals and environmental influences



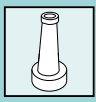
Push-on caps and elbow grommets in various dimensions.

MATERIAL	Polyvinylchloride (PVC)	Polyvinylchloride, flame-retardant (PVC-FR)	Polyethylene (PE)
Operating Temperature	-30 °C to +60 °C		-10 °C to +70 °C
Shore Hardness A	70±5	56±5	Nom. 45
Flammability	UL94 HB	UL94 V0	UL94 HB

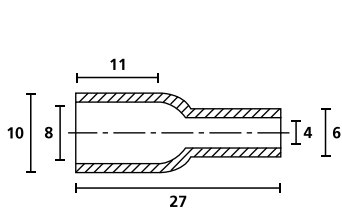


TYPE	Drawing	Material	Colour	Article-No.
HV4819		PVC-FR	Black (BK)	631-08190
		PVC-FR	Natural (NA)	631-08199
HV4820		PVC	Black (BK)	631-08200
		PVC	Natural (NA)	631-08209
HV4823		PVC	Black (BK)	631-08230
		PVC	Natural (NA)	631-08239
HV4825		PVC	Natural (NA)	631-08259
OP4827		PE	Natural (NA)	631-58279
OP4828		PE	Natural (NA)	631-58289

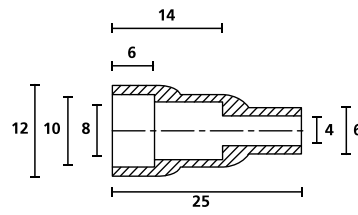
All dimensions in mm. Subject to technical changes.



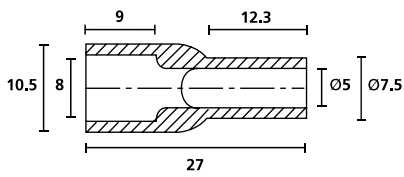
Push-on Caps



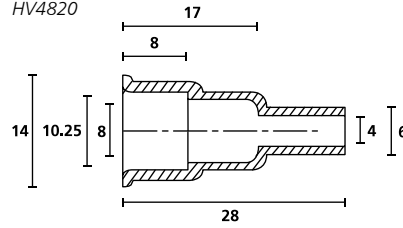
HV4819



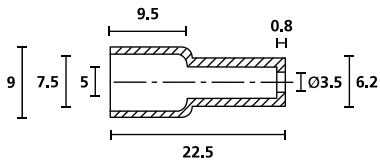
HV4820



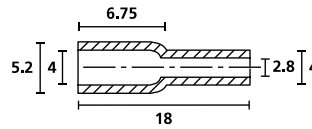
HV4823



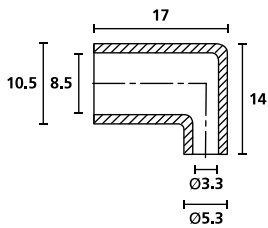
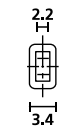
HV4825



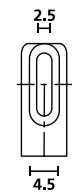
OP4827



OP4828



HV4821



TYPE	Drawing	Material	Colour	Article-No.
HV4821		PVC-FR	Black (BK)	631-08210
		PVC-FR	Natural (NA)	631-08219

All dimensions in mm. Subject to technical changes.



Bend protection grommets

Bend protection grommets are typically used for protection of cables at apertures in casings.

Features and Benefits

- Routes cables free of kinks and breakage
- Provides strain relief
- Flexible and easy to apply
- High resistance to chemicals und environmental influences

MATERIAL	Polyvinylchloride, flame-retardant (PVC-FR)
Operating Temperature	-30 °C to +60 °C
Shore Hardness A	56±5
Flammability	UL94 V0

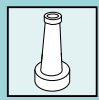


Protection of cables and routing free of kinks and breakage.

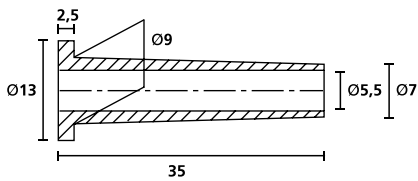


TYPE	Drawing	Colour	Article-No.
HV2101		Black (BK)	632-01010
		Grey (GY)	632-01017
		White (WH)	632-01019
HV2101A		Black (BK)	632-01020
HV2103		Black (BK)	632-01030
HV2104		Black (BK)	632-01040
HV2107		Black (BK)	632-01070
HV2206		Black (BK)	632-02060
HV2209		Black (BK)	632-02090
HV2210		Black (BK)	632-02100
HV2213		Black (BK)	632-02130
HV2228		Black (BK)	632-02280

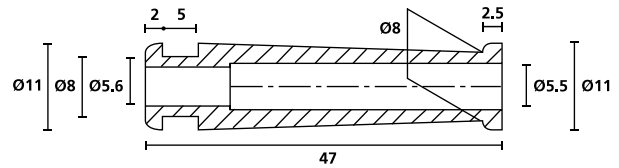
All dimensions in mm. Subject to technical changes.



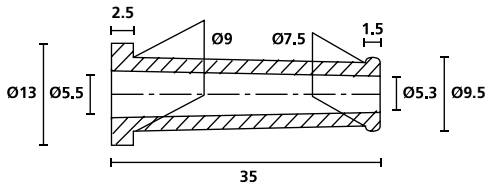
Bend protection grommets



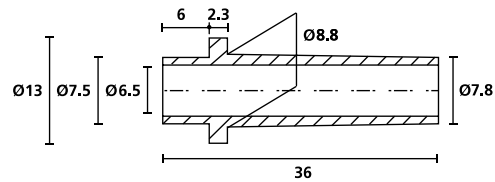
HV2101



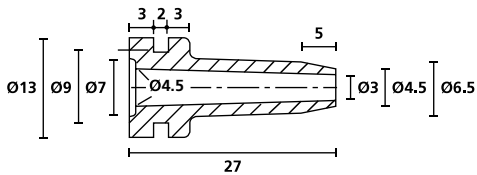
HV2206



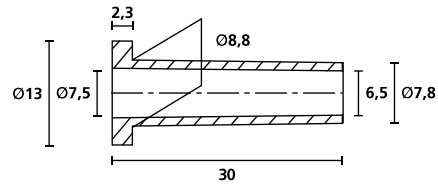
HV2101A



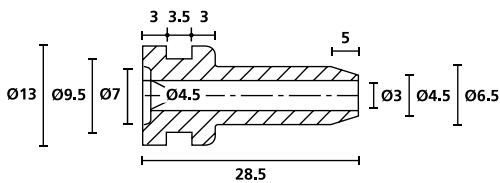
HV2209



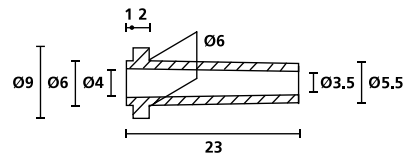
HV2103



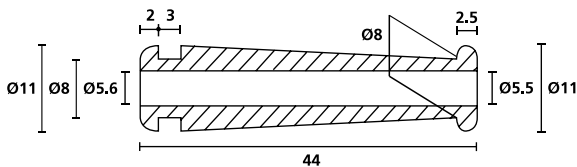
HV2210



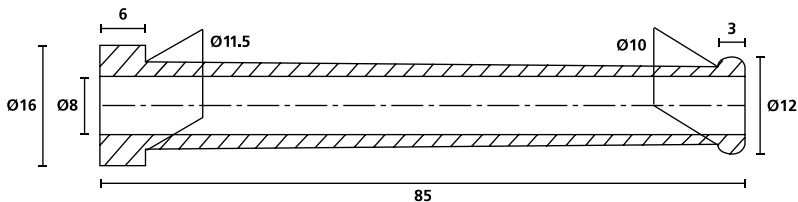
HV2104



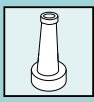
HV2213



HV2228



HV2107



Strain protection grommets

Straining protection grommets are used as protection for cables and wires from pulling. They are also used for bend protection in casing apertures. They are especially useful in electrical equipment, for instance in electrical drills.

The use of Hellerine is recommended when working with grommets.

Features and Benefits

- Provides excellent strain relieve
- Flexible and easy to apply
- High resistance to chemicals and environmental influences

MATERIAL	Polyvinylchloride, flame-retardant (PVC-FR)	Flexible Polyvinyl Chloride, cadmium free (PVC)
Operating Temperature	-30 °C to +60 °C	
Shore Hardness A	56±5	63±5
Flammability	UL94 V0	UL94 HB



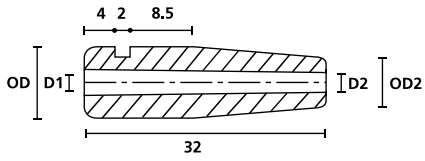
Bend and strain protection on casings.

TYPE	Drawing	Outside Ø (OD)	Outside Ø (OD2)	Outside Ø (OD3)	Ø D	Ø D2	Material	Colour	Article-No.
H125		9.0	6.0	-	4.0	3.5	PVC	Black (BK)	634-31250
H126		9.0	6.0	-	5.0	4.5	PVC	Black (BK)	634-31260
		9.0	6.0	-	5.0	4.5	PVC	Grey (GY)	634-31268
H321		8.5	7.0	8.5	6.0	5.5	PVC-FR	Black (BK)	634-03210
H3A		9.0	5.0	8.0	4.5	3.0	PVC-FR	Black (BK)	634-00310
H4202		-	-	-	-	-	PVC-FR	Black (BK)	634-04200
H119		7.0	4.5	6.5	4.5	3.0	PVC-FR	Black (BK)	634-01190
H120		8.0	6.0	8.0	4.5	3.0	PVC-FR	Black (BK)	634-01200
H121		11.0	8.5	-	8.0	7.0	PVC-FR	Black (BK)	634-01210

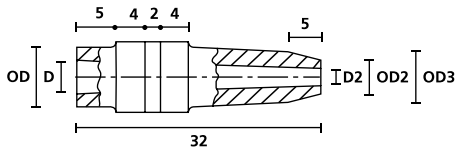
All dimensions in mm. Subject to technical changes.



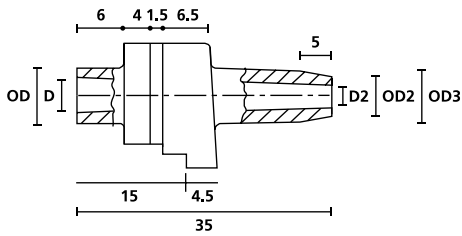
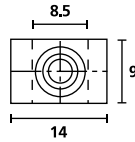
Strain protection grommets



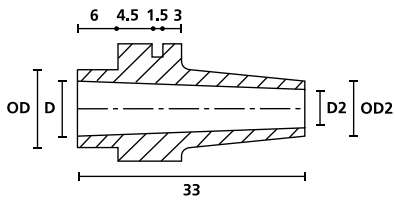
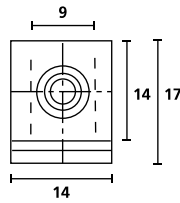
H125/H126



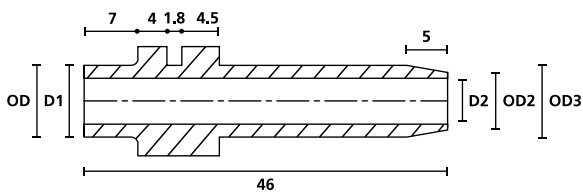
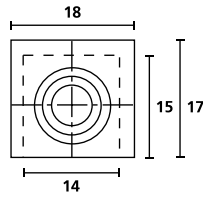
H119



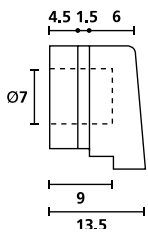
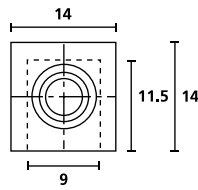
H120



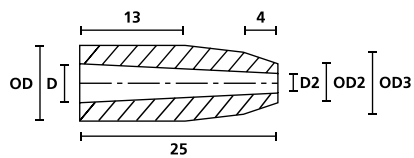
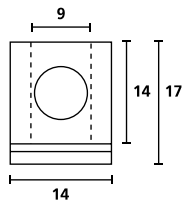
H121



H321



H4202



H3A



Edge protection grommets

Edge protection grommets are used wherever cable and wires are routed through outlets and apertures. HellermannTyton grommets offer excellent mechanical protection.

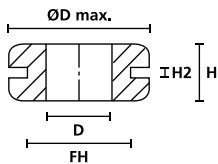
Features and Benefits

- Protects cables from sharp edges
- Provides additional strain relief
- Flexible and easy to apply
- High resistance to chemicals and environmental influences

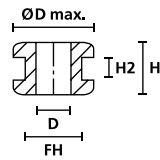


Edge protection grommets.

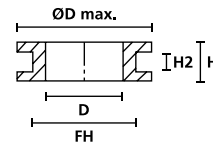
MATERIAL	Polyvinylchloride (PVC)	Polyvinylchloride, flame-retardant (PVC-FR)
Operating Temperature	-30 °C to +60 °C	
Shore Hardness A	70±5	56±5
Flammability	UL94 HB	UL94 V0



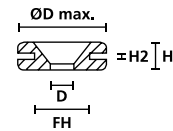
HV1101



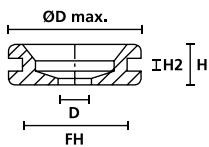
HV1201 to HV1218



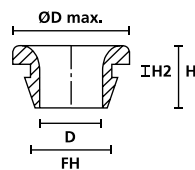
HV1301 to HV1305



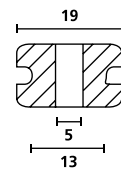
HV1401



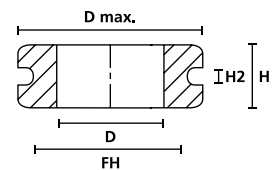
HV1402



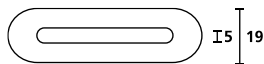
HV1502 to OP1503



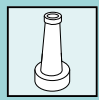
HV1606 to HV1608



HV1606 to HV1608



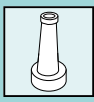
HV1606 to HV1608



Edge protection grommets

TYPE	Drawing	Bundle Ø max.	Hole Ø (FH)	Ø D	Height (H)	Height (H2)	Material	Colour	Article-No.
HV1101		25.5	19,0	12.0	10.0	1.6	PVC-FR	Black (BK)	633-01010
HV1212		9.0	6,0	4.0	7.0	1.0	PVC-FR	Black (BK)	633-02120
HV1201		9.5	6,4	4.0	5.6	1.6	PVC-FR	Black (BK)	633-02010
HV1201B		9.5	6,4	4.0	6.5	2.5	PVC-FR	Black (BK)	633-02020
HV1215		10.0	8,0	6.0	5.0	1.0	PVC-FR	Black (BK)	633-02150
HV1209		11.0	9,0	4.0	5.5	1.5	PVC-FR	Black (BK)	633-02090
HV1208		14.0	9,5	8.0	8.0	1.5	PVC-FR	Black (BK)	633-02080
HV1207		14.0	10,0	6.0	6.4	1.5	PVC-FR	Black (BK)	633-02070
HV1218		14.0	10,0	6.0	9.0	4.0	PVC-FR	Black (BK)	633-02180
HV1216		14.5	8,0	5.0	6.5	1.5	PVC-FR	Black (BK)	633-02160
HV1210		15.0	9,0	6.0	10.5	2.0	PVC-FR	Black (BK)	633-02100
HV1203		17.5	12,0	10.0	6.8	2.0	PVC-FR	Black (BK)	633-02030
HV1204		17.5	12,0	10.0	8.8	4.0	PVC-FR	Black (BK)	633-02040
HV1206		17.5	12,0	10.0	10.8	6.0	PVC-FR	Black (BK)	633-02060
HV1205		17.5	13,5	10.0	8.7	4.0	PVC-FR	Black (BK)	633-02050
HV1303		15.9	11,0	8.0	6.4	1.6	PVC-FR	Black (BK)	633-03030
HV1301		15.9	11,0	8.0	7.0	1.0	PVC-FR	Black (BK)	633-03010
HV1302		15.9	11,0	8.0	9.0	3.0	PVC-FR	Black (BK)	633-03020
HV1304		15.9	11,0	8.0	10.8	6.0	PVC-FR	Black (BK)	633-03040
HV1305		24.0	18,0	14.0	7.0	3.0	PVC-FR	Black (BK)	633-03050
		24.0	18,0	14.0	7.0	3.0	PVC-FR	White (WH)	633-03059
HV1401		15.9	9,5	5.0	4.8	0.8	PVC-FR	Black (BK)	633-04010
HV1402		23.0	18,5	6.0	7.0	2.0	PVC-FR	Black (BK)	633-04020
HV1502		11.5	8,0	6.5	8.0	1.5	PVC	Black (BK)	633-05020
HV1606		31.0	25,0	17.0	11.0	3.0	PVC-FR	Grey (GY)	633-06068
HV1607		43.0	37,0	29.0	11.0	3.0	PVC-FR	Grey (GY)	633-06078
HV1608		58.0	52,0	44.0	11.0	3.0	PVC-FR	Grey (GY)	633-06088

All dimensions in mm. Subject to technical changes.



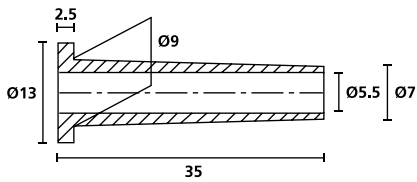
Set for Bend and Edge Protection

- HOT Kit

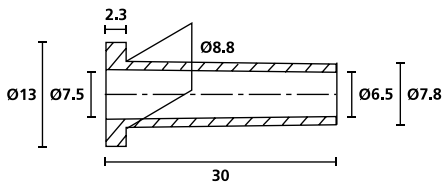
The practical mix of grommets for construction, repairs and home improvement.



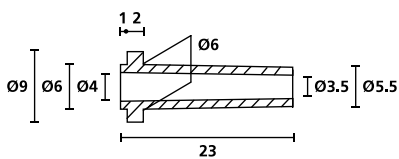
Small, but practical - the HOT Grommet Kit.



HV2101



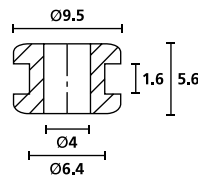
HV2210



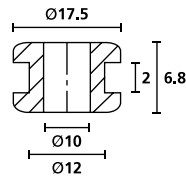
HV2213

MATERIAL	Polyvinylchloride, flame-retardant (PVC-FR)
Operating Temperature	-30 °C to +60 °C
Shore Hardness A	56±5
Flammability	UL94 V0

RoHS ✓



HV1201



HV1203

Description	Type	Content	Article-No.	Page
Set for Bend and Edge Protection	HOT Kit	-	639-60000	
Bend Protection Grommets	HV2101	15	632-01010	186
	HV2210	15	632-02100	186
	HV2213	20	632-02130	186
Edge Protection Grommets	HV1201	20	633-02010	191
	HV1203	15	633-02030	191
	HV1208	15	633-02080	190

Minimum Order Quantity (MOQ) may differ from package content.

For every need the perfect packaging size!



SBPE spiral binding is also available in practical 5m lengths.



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



ShrinkKit 321 Universal.

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HIS-A - with adhesive liner



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