



## Helagaine HEGP and HEGPX Braided Sleeving

### Features and Benefits

Helagaine HEGP and HEGPX braided sleeving offer flexible cable protection, high abrasion resistance and ease of application. Helagaine sleeves are specially woven to expand when compressed and contract when pulled apart.

HEGP provides a high level of surface coverage as well as a high rate of expansion for easy slip-over application. To achieve an optimal fit, HEGP braided sleeving is available in 13 different sizes for application diameters of 1 mm to 66 mm.

Where higher expansion or easier application is important and less surface coverage is acceptable, HEGPX offers an expansion ratio of 3:1. Only seven sleeve sizes cover an application range of 2 mm to 70 mm.

### Application

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.

### Application Method

To prevent fraying, the sleeve is cut with a hot-knife, which melts and cleanly fuses the ends of the yarn.



**For more information on the HSG0 hot-cutting tool, please turn to page 274.**



Helagaine HEGP braided sleeving.



Helagaine HEGPX braided sleeving.

Technical Table

Article-No.	Type	Bundle Ø min.	Bundle Ø max.	Reel Length (m)
HEGP				
170-10300	HEGP03	1	5	200
170-10400	HEGP04	2	7	200
170-10500	HEGP05	3	9	200
170-10600	HEGP06	4	11	100
170-10800	HEGP08	5	12	100
170-11000	HEGP10	7	15	100
170-11200	HEGP12	8	17	100
170-11500	HEGP15	10	20	100
170-12000	HEGP20	14	26	50
170-12500	HEGP25	18	34	50
170-13000	HEGP30	20	40	50
170-14000	HEGP40	30	50	50
170-15000	HEGP50	40	66	50
HEGPX				
170-00060	HEGPX06	3	9	100
170-00090	HEGPX09	5	16	100
170-00120	HEGPX12	6	19	100
170-00200	HEGPX20	12	32	100
170-00300	HEGPX30	19	45	50
170-00400	HEGPX40	32	70	50

All dimensions in mm. Subject to technical changes.

Colour grey available on request.

Cuts in any lengths.

Material Data

Material	<b>Polyester (PET)</b>
Colour	<b>Black (BK)</b>
Operating Temperature	<b>-50 °C to +150 °C, Intermittent +220 °C</b>
Melting Point	<b>+250 °C</b>
Braid Density	<b>ca. 81%</b>
Flammability	<b>UL94 V2, FMVSS 302</b>





## Helagaine HEGPV0 and HEGPV0X Braided Sleeving

### Features and Benefits

Due to its flame-retardant additives, Helagaine HEGPV0 and HEGPV0X braided sleeving is self-extinguishing according to UL94 V0 and should be used wherever fire protection is important. HEGPV0X offers a higher expansion ratio of 3:1.

The special structure of the Polyester braiding keeps out moisture and dirt. HEGPV0 and HEGPV0X are also resistant to acids.

### Application

Helagaine HEGPV0 and HEGPV0X braided sleeving offers superior cable protection for car and railway vehicle manufacturing as well as machine tools, robotics and automatic equipment.

### Application Method

To prevent fraying, the sleeve is cut with a hot-knife, which melts and cleanly fuses the ends of the yarn.



Helagaine HEGPV0X braided sleeving.

Material Data	
Material	<b>Polyester (PBT)</b>
Colour	<b>Black (BK)</b>
Operating Temperature	<b>-50 °C to +150 °C, Intermittent +200 °C</b>
Melting Point	<b>+225 °C</b>
Flammability	<b>UL94 V0, FMVSS 302</b>



**For more information on the HSG0 hot-cutting tool, please turn to page 274.**

Technical Table				
Article-No.	Type	Bundle Ø min.	Bundle Ø max.	Reel Length (m)
<b>HEGPV0</b>				
170-30400	<b>HEGPV004</b>	3	7	100
170-30600	<b>HEGPV006</b>	5	11	100
170-30800	<b>HEGPV008</b>	7	13	100
170-31200	<b>HEGPV012</b>	11	17	50
170-31500	<b>HEGPV015</b>	13	20	50
170-32000	<b>HEGPV020</b>	18	25	50
170-33000	<b>HEGPV030</b>	27	40	50
170-34000	<b>HEGPV040</b>	35	50	50
<b>HEGPV0X</b>				
170-50030	<b>HEGPV0X03</b>	2	6	200
170-50060	<b>HEGPV0X06</b>	3	9	200
170-50090	<b>HEGPV0X09</b>	5	16	100
170-50120	<b>HEGPV0X12</b>	6	19	100
170-50200	<b>HEGPV0X20</b>	12	32	100
170-50300	<b>HEGPV0X30</b>	19	45	50
170-50400	<b>HEGPV0X40</b>	32	70	50
170-50500	<b>HEGPV0X50</b>	38	76	50

All dimensions in mm. Subject to technical changes.

Colour grey available on request.

Cuts in any lengths.



Please Note for Product Specific Approvals please refer to the Appendix



## Helagain HEGPA66 Braided Sleeving

### Features and Benefits

The thread diameter of the Polyamide 6.6 is approximately 10% larger than that of Polyester. This results in tougher sleeving with excellent resistance to abrasion.

Despite its toughness, Helagain HEGPA66 can be easily applied even over very irregular shapes.

### Application

Helagain HEGPA66 is particularly suitable for vehicle manufacturing as well as plant construction.

### Application Method

Fraying of the braided sleeving can be avoided by using a hot-knife to cut the sleeving. Braided sleeving can also be supplied in pre-cut lengths on request.



Various types of Helagain braided sleeving.

### Material Data

Material	<b>Polyamide 6.6 (PA66)</b>
Operating Temperature	<b>-60 °C to +150 °C, Intermittent +200 °C</b>
Melting Point	<b>+255 °C</b>
Braid Density	<b>ca. 85%</b>
Flammability	<b>UL94 V2, FMVSS 302</b>



### Technical Table

Article-No.	Type	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length (m)
170-40400	<b>HEGPA6604</b>	3	6	Black (BK)	200
170-40600	<b>HEGPA6606</b>	4	8	Black (BK)	100
170-40800	<b>HEGPA6608</b>	5	10	Black (BK)	100
170-41000	<b>HEGPA6610</b>	7	12	Black (BK)	100
170-41200	<b>HEGPA6612</b>	8	14	Black (BK)	100
170-41600	<b>HEGPA6616</b>	12	18	Black (BK)	50
170-42000	<b>HEGPA6620</b>	15	23	Black (BK)	50
170-42500	<b>HEGPA6625</b>	18	28	Black (BK)	50
170-43000	<b>HEGPA6630</b>	25	32	Black (BK)	50
170-44000	<b>HEGPA6640</b>	30	44	Black (BK)	50
170-45000	<b>HEGPA6650</b>	40	55	Black (BK)	50
170-46000	<b>HEGPA6660</b>	50	65	Black (BK)	50

All dimensions in mm. Subject to technical changes.

Colour grey available on request.

Cuts in any lengths.



## Helagain HEGSAS Braided Sleeving

### Features and Benefits

Its special yarn structure gives Helagain HEGSAS braided polyester sleeving outstanding noise reduction characteristics. Due to its excellent surface coverage and high abrasion resistance, HEGSAS is especially suitable for mechanical protection of cables. HEGSAS can be expanded to 3 times its original diameter and fits easily over irregular shapes.

### Application

Helagain HEGSAS is used primarily in the automotive sector and wherever vibration noise must be reduced. Helagain HEGSAS can be supplied in pre-cut lengths on request.



*With its special yarn structure, Helagain HEGSAS is very effective in reducing vibration noise.*

### Material Data

Material	<b>Polyester (PET)</b>
Colour	<b>Black (BK)</b>
Operating Temperature	<b>-50 °C to +150 °C, Intermittent +200 °C</b>
Melting Point	<b>ca. +260 °C</b>
Flammability	<b>FMVSS 302</b>



### Technical Table

Article-No.	Type	Bundle Ø min.	Bundle Ø max.	Reel Length (m)
170-60401	<b>HEGSAS04</b>	2	6	200
170-60600	<b>HEGSAS06</b>	4	11	200
170-60900	<b>HEGSAS09</b>	6	16	100
170-61200	<b>HEGSAS12</b>	8	20	100
170-61500	<b>HEGSAS15</b>	10	24	50
170-62000	<b>HEGSAS20</b>	13	30	50
170-63000	<b>HEGSAS30</b>	20	40	25
170-64000	<b>HEGSAS40</b>	30	50	25

All dimensions in mm. Subject to technical changes.

Colour grey available on request.

Cuts in any lengths.



## Helagaine HEGEMIP and HEGEMIPV0 Braided Sleeving

### Features and Benefits

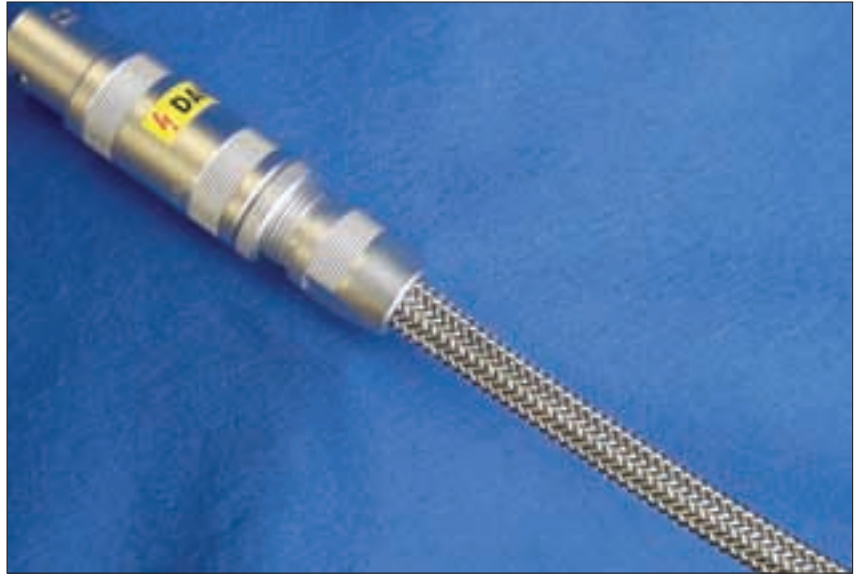
Made of tin-plated copper and polyester threads, Helagaine HEGEMIP and HEGEMIPV0 braided sleeves offer electromagnetic protection as well as secure cable bundling. The mix of materials makes the sleeves expandable and easy to apply. In contrast to purely copper braids, the HEGEMIP and HEGEMIPV0 sleeves can be bent and twisted and still return to their original form.

As a result, HEGEMIP and HEGEMIPV0 are particularly suitable for applications where there is movement.

The supporting inner tube makes insertion of cables easier and protects the sleeves from deformation during transport. Besides their excellent electromagnetic protection ratings, they are very resistant to abrasion. Both sleeves fulfill the requirements of the international EMI norm CISPR25 (10KHz to 1GHz).

### Application

Helagaine EMI braided sleeving is used for highly sensitive electronics, such as electrical appliances and machines, radio equipment and automobiles.



Helagaine HEGEMIP braided sleeving is made of tin-plated copper and polyester yarn.

Material Data	
Material	<b>Polyester (PET), Tin Plated copper</b>
Colour	<b>Tin coloured and Black</b>
Operating Temperature	<b>-40 °C to +175 °C, Intermittent +200 °C</b>
Flammability	<b>UL94 V2, FMVSS 302</b>
EMI requirements	<b>10 KHz to 1 GHz according to CISPR25 (DIN VDE 0879-2)</b>



Material Data	
Material	<b>Polyester (PBT), Tin Plated copper</b>
Colour	<b>Tin coloured and Black</b>
Operating Temperature	<b>-40 °C to +175 °C, Intermittent +200 °C</b>
Flammability	<b>UL94 V0, FMVSS 302</b>
EMI requirements	<b>10 KHz to 1 GHz according to CISPR25 (DIN VDE 0879-2)</b>





## Helagaine HEGEMIP and HEGEMIPV0 Braided Sleeving

Technical Table

Article-No.	Type	Material	Ø D	Bundle Ø min.	Bundle Ø max.	Weight (g)/m	Reel Length (m)
173-00400	<b>HEGEMIP04</b>	CU, PET	4	4	6.5	21.5 g/m	100
173-00600	<b>HEGEMIP06</b>	CU, PET	6	5	10	28.5 g/m	100
173-00800	<b>HEGEMIP08</b>	CU, PET	8	8	11.5	26.5 g/m	100
173-01000	<b>HEGEMIP10</b>	CU, PET	10	8	13	43.5 g/m	50
173-01200	<b>HEGEMIP12</b>	CU, PET	12	10	15	48.0 g/m	50
173-01400	<b>HEGEMIP14</b>	CU, PET	14	12	18	58.0 g/m	100
173-01600	<b>HEGEMIP16</b>	CU, PET	16	14	20	72.5 g/m	100
173-01800	<b>HEGEMIP18</b>	CU, PET	18	16	22	78.6 g/m	50
173-02000	<b>HEGEMIP20</b>	CU, PET	20	18	25	100.0 g/m	50

All dimensions in mm. Subject to technical changes.

Cuts in any lengths.

Technical Table

Article-No.	Type	Material	Ø D	Bundle Ø min.	Bundle Ø max.	Weight (g)/m	Reel Length (m)
173-60400	<b>HEGEMIPV004</b>	CU, PBT	4	4	6.5	21.5 g/m	100
173-60600	<b>HEGEMIPV006</b>	CU, PBT	6	5	10	28.5 g/m	100
173-60800	<b>HEGEMIPV008</b>	CU, PBT	8	8	11.5	26.5 g/m	100
173-61000	<b>HEGEMIPV010</b>	CU, PBT	10	8	13	43.5 g/m	50
173-61200	<b>HEGEMIPV012</b>	CU, PBT	12	10	15	48.0 g/m	50
173-61400	<b>HEGEMIPV014</b>	CU, PBT	14	12	18	58.0 g/m	100
173-61600	<b>HEGEMIPV016</b>	CU, PBT	16	14	20	72.5 g/m	100
173-61800	<b>HEGEMIPV018</b>	CU, PBT	18	16	22	78.6 g/m	50
173-62000	<b>HEGEMIPV020</b>	CU, PBT	20	18	25	100.0 g/m	50

All dimensions in mm. Subject to technical changes.

Cuts in any lengths.



## Helagaine Braided Sleeving

### Features and Benefits

Helagaine HLB polyester braided sleeving has an expansion ratio of 3:1. With diameters running from 5 mm to 54 mm, just 3 sizes of the versatile Helagaine HLB covers a very wide range of applications. Large differences in diameter, for instance due to cable jacks and connectors, are easy to handle.

The sleeves are supplied in practical 10m reels in dispenser boxes. The boxes protect the sleeves and can be efficiently stocked. The dispenser opening also guarantees easy extraction of the sleeves.

### Application

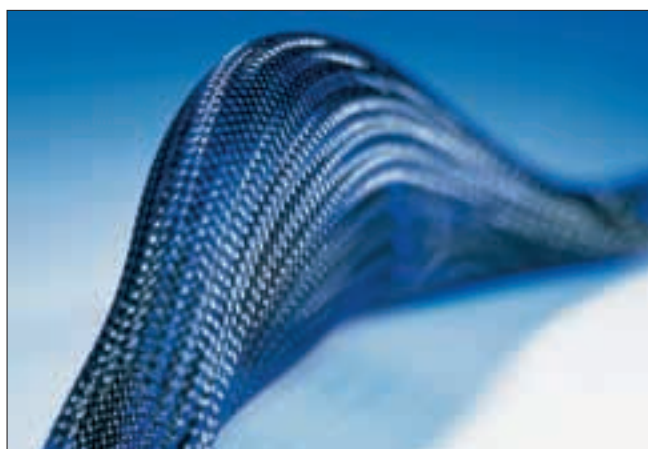
Helagaine HLB is supplied in practical dispenser boxes and covers a wide range of applications with only a few sizes. It is ideal for both the professional and the home user. Helagaine HLB bundles and effectively protects cables and wires, for instance in HiFi systems and in industrial plants. Helagaine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

### Application Method

To prevent fraying, the sleeve is cut with a hot-cutting tool, which melts and cleanly fuses the ends of the yarn



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



*Helagaine HLB covers a wide range of applications with only three sizes.*



**For more information on the HSG0 hot-cutting tool, please turn to page 274.**

#### Material Data

Material	<b>Polyester (PET)</b>
Colour	<b>Black (BK)</b>
Operating Temperature	<b>-50 °C to +150 °C, Intermittent +200 °C</b>
Melting Point	<b>+250 °C</b>
Oxygen Index	<b>34 % (NF G 07-128)</b>



#### Technical Table

Article-No.	Type	Ø D	Bundle Ø min.	Bundle Ø max.	Reel Length (m)
170-80150	<b>HLB15</b>	15	5	21	10
170-80250	<b>HLB25</b>	25	10	30	10
170-80350	<b>HLB35</b>	35	18	54	10

All dimensions in mm. Subject to technical changes.



## HELAHOOK Re-Sealable Protective Sleeving

### Features and Benefits

HELAHOOK is a lightweight, abrasion resistant and re-sealable protective sleeving. Due to its hook-and-loop sealing system, HELAHOOK can be used to protect cables and hoses that are already fixed. It adapts to very irregular shapes and sizes. It permits quick and easy access to enclosed components and can be used repeatedly. It is therefore a sensible alternative to braided sleeving and corrugated tubing for many common applications.

HELAHOOK has good fire-protection properties. It complies with the standard NF F 16-101, Class F1 for smoke emission and gas toxicity and meets UL94 V2.

### Application

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.



HELAHOOK protective sleeving allows for retrospective fitting and repeated use.



HELAHOOK provides excellent abrasion resistance.

### Material Data

Material	<b>Polyester (PET)</b>
Colour	<b>Black (BK)</b>
Operating Temperature	<b>-50 °C to +150 °C</b>
Flammability	<b>UL94 V2, FMVSS 302</b>



### Technical Table

Article-No.	Type	Bundle Ø min.	Bundle Ø max.	Reel Length (m)
170-05100	<b>HELAHOOK10</b>	3	15	25
170-05150	<b>HELAHOOK15</b>	10	20	25
170-05200	<b>HELAHOOK20</b>	15	30	25
170-05250	<b>HELAHOOK25</b>	20	40	25
170-05300	<b>HELAHOOK30</b>	25	50	25

All dimensions in mm. Subject to technical changes.

Cuts in any lengths are available on request.



### Braided sleeve hot cutting tool – HSG0

The HSG0 hot cutting tool is a light, robust, hand-held device to cut synthetic fabrics such as braided sleeving. It heats up quickly with the press of a button and cuts the sleeving cleanly in a matter of seconds. The individual strands melt and fuse together, preventing the sleeving from fraying.



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

Technical Table

Article-No.	Type	Weight (Kg)	Colour
170-99001	HSG0	1.15	Blue (BU)

Subject to technical changes.



CABLE JOINTS, CABLE TERMINATIONS, CABLE GLANDS, CABLE CLEATS  
FEEDER PILLARS, FUSE LINKS, ARC FLASH, CABLE ROLLERS, CUT-OUTS

11KV 33KV CABLE JOINTS & CABLE TERMINATIONS  
FURSE EARTHING  
[www.cablejoints.co.uk](http://www.cablejoints.co.uk)  
**Thorne and Derrick UK**

Tel 0044 191 490 1547 Fax 0044 191 477 5371  
Tel 0044 117 977 4647 Fax 0044 117 9775582