

## EMI Protection

HellermannTyton products to ensure Electromagnetic Compatibility  
EMC and effective grounding

MADE FOR REAL<sup>®</sup>



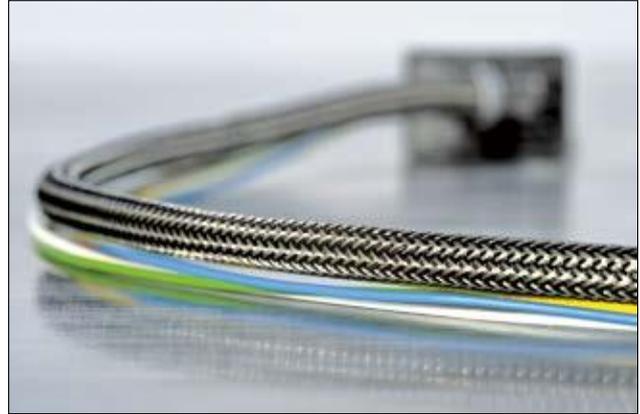
### Braided sleeving for electromagnetic protection

#### Helagaine HEGEMIP

Helagaine HEGEMIP braided sleeving is used for highly sensitive electronics, such as in machines, military equipment and automobiles.

#### Features and benefits

- Excellent electromagnetic protection
- Extremely flexible, expandable and easy to apply
- No kinks or ruptures even when bent at sharp angles
- Superior abrasion protection
- Particularly suitable for applications with restricted space or requiring movement
- Inner disposable tube protects sleeve from deformation and allows for easy insertion of cables
- Fulfils the requirements of IEC CISPR25 for radio disturbances in vehicles, boats and engines



HEGEMIP braided sleeving: reliable protection from electromagnetic radiation.

<b>MATERIAL</b>	Polyester, halogen free (PET), Tin-plated copper (SNCU)
<b>Operating Temperature</b>	-40 °C to +150 °C
<b>EMI requirements</b>	10 kHz to 1 GHz according to CISPR25 (DIN VDE 0879-2)
<b>Flammability</b>	UL 94 V2, FMVSS 302



TYPE	Ø (D)	Bundle Ø min.	Bundle Ø max.	Colour	Weight	Reel Length	Article-No.
HEGEMIP04	4.0	4.0	6.0	Metal (ML), Black (BK)	22 g/m	100 m	173-00400
HEGEMIP06	6.0	5.0	10.0	Metal (ML), Black (BK)	29 g/m	100 m	173-00600
HEGEMIP08	8.0	8.0	11.0	Metal (ML), Black (BK)	36 g/m	100 m	173-00800
HEGEMIP10	10.0	8.0	13.0	Metal (ML), Black (BK)	44 g/m	50 m	173-01000
HEGEMIP12	12.0	10.0	15.0	Metal (ML), Black (BK)	48 g/m	50 m	173-01200
HEGEMIP14	14.0	12.0	18.0	Metal (ML), Black (BK)	58 g/m	100 m	173-01400
HEGEMIP16	16.0	14.0	20.0	Metal (ML), Black (BK)	73 g/m	100 m	173-01600
HEGEMIP18	18.0	16.0	22.0	Metal (ML), Black (BK)	79 g/m	50 m	173-01800
HEGEMIP20	20.0	18.0	25.0	Metal (ML), Black (BK)	100 g/m	50 m	173-02000

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



### Electromagnetic protection braided sleeving for hybrid automobiles

#### Helagaine HEGEMIP-HY

Helagaine HEGEMIP-HY provides electromagnetic protection in hybrid automobiles.

#### Features and benefits

- Excellent electromagnetic protection
- Extremely flexible, expandable and easy to apply
- No kinks or ruptures even when bent at sharp angles
- Superior abrasion protection
- Special copper alloy for enhanced protection against salt spray
- Particularly suitable for applications with restricted space or requiring movement
- Fulfils the requirements of IEC CISPR25 for radio disturbances in vehicles, boats and engines



HEGEMIP-HY braided sleeving: EMI protection for hybrid automobiles.

<b>MATERIAL</b>	Polyester (PET), Tin-plated copper (SNCU)
<b>Operating Temperature</b>	-40 °C to +150 °C
<b>EMI requirements</b>	10 kHz to 1 GHz according to CISPR25 (DIN VDE 0879-2)
<b>Flammability</b>	UL 94 V2, FMVSS 302



TYPE	Ø (D)	Bundle Ø min.	Bundle Ø max.	Colour	Weight	Reel Length	Article-No.
HEGEMIP-HY20	20.0	19.0	27.0	Silver (SR), Orange (OG)	72 g/m	50 m	173-02001
HEGEMIP-HY30	30.0	25.0	35.0	Silver (SR), Orange (OG)	101 g/m	50 m	173-03000
HEGEMIP-HY35	35.0	30.0	40.0	Silver (SR), Orange (OG)	120 g/m	50 m	173-03501
HEGEMIP-HY40	40.0	30.0	50.0	Silver (SR), Orange (OG)	180 g/m	50 m	173-04000
HEGEMIP-HY50	50.0	40.0	60.0	Silver (SR), Orange (OG)	204 g/m	50 m	173-05000
HEGEMIP-HY60	60.0	50.0	70.0	Silver (SR), Orange (OG)	299 g/m	25 m	173-06000

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



### Electromagnetic protection braided sleeving for defence applications

#### Helagain HEGEMIP-VG

Helagain HEGEMIP-VG provides electromagnetic protection for the defence industry.

#### Features and benefits

- Excellent electromagnetic protection
- Very flexible, expandable and easy to apply
- Especially suitable for applications in tight areas or requiring movement
- Inner disposable tube protects sleeve from deformation and allows for easy insertion of cables
- Very good abrasion resistance
- Approved to military norm VG 96936-10 / Type A



HEGEMIP-VG braided sleeving with VG approval for defence applications.

<b>MATERIAL</b>	Tin-plated copper (SNCU)
<b>Operating Temperature</b>	-65 °C to +150 °C
<b>Flammability</b>	UL 94 V2, FMVSS 302

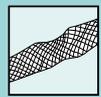


TYPE	Ø (D)	Bundle Ø min.	Bundle Ø max.	Colour	Weight	Reel Length	Article-No.
HEGEMIP-VG03	3.0	3.5	5.0	Metal (ML)	19 g/m	500 m	173-00200
HEGEMIP-VG04	4.0	4.5	7.0	Metal (ML)	30 g/m	500 m	173-00201
HEGEMIP-VG06	6.0	5.5	8.5	Metal (ML)	37 g/m	500 m	173-00202
HEGEMIP-VG07.5	7.5	7.5	13.5	Metal (ML)	71 g/m	500 m	173-00203
HEGEMIP-VG10	10.0	13.0	17.5	Metal (ML)	96 g/m	250 m	173-00204
HEGEMIP-VG12.5	12.5	15.0	19.5	Metal (ML)	100 g/m	200 m	173-00205
HEGEMIP-VG20	20.0	19.0	30.0	Metal (ML)	265 g/m	100 m	173-00206

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



Please note: Some or all of the products listed here have these approvals, or have one or more sustainable attributes. Please see our website for the latest details.



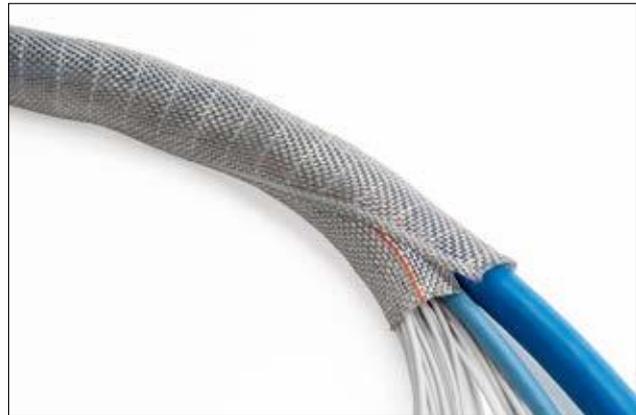
### Self-closing, EMI protective sleeving

#### Helagaine Twist-In-EMIZ

Helagaine Twist-In-EMIZ is used to bundle and protect cables against ElectroMagnetic Interferences (EMI). Designed specifically for the railway industry, Twist-In-EMIZ can also be used in many other sectors, such as the naval and automotive industries.

#### Features and benefits

- Self-closing sleeve made of tinned copper and polyester monofilament
- High-performance electromagnetic protection thanks to its patented System Z
- Its EMC shielding capabilities (> 60 dB) provide highly effective attenuation of electromagnetic interference, protecting people and systems
- Optimal fire protection
- Very good protection against abrasion, vibration, impact and salt spray
- Certified conformity with railway standard EN45545-2: R22 HL3, R23 HL3
- Lightweight, repositionable and very flexible
- Quick and easy installation
- Allows for inspection, maintenance and retro-fitting
- For effective EMI protection, we recommend grounding at both ends, ideally with 360° shielding, on metal connectors



Twist-In EMI-Z shielding cables from electromagnetic interference (EMI).

<b>MATERIAL</b>	Tin-plated copper (SNCU), Polyester (PET)
<b>Operating Temperature</b>	-65 °C to +150 °C
<b>EMI requirements</b>	Tested from 10 kHz to 100 MHz according to IEC 62153-4-3 (triaxial method) Results on request



TYPE	Bundle Ø min.	Bundle Ø max.	Colour	Reel Length	Article-No.
Twist-In-EMIZ_05	1.0	5.0	Metal (ML)	100 m	170-01250
Twist-In-EMIZ_08	5.0	8.0	Metal (ML)	100 m	170-01251
Twist-In-EMIZ_13	8.0	13.0	Metal (ML)	50 m	170-01252
Twist-In-EMIZ_19	13.0	19.0	Metal (ML)	25 m	170-01253
Twist-In-EMIZ_25	19.0	25.0	Metal (ML)	25 m	170-01254
Twist-In-EMIZ_32	25.0	32.0	Metal (ML)	15 m	170-01255
Twist-In-EMIZ_38	32.0	38.0	Metal (ML)	15 m	170-01256
Twist-In-EMIZ_50	38.0	50.0	Metal (ML)	15 m	170-01257
Twist-In-EMIZ_80	50.0	80.0	Metal (ML)	10 m	170-01258

All dimensions in mm. Subject to technical changes.

**EN 45545-2**

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