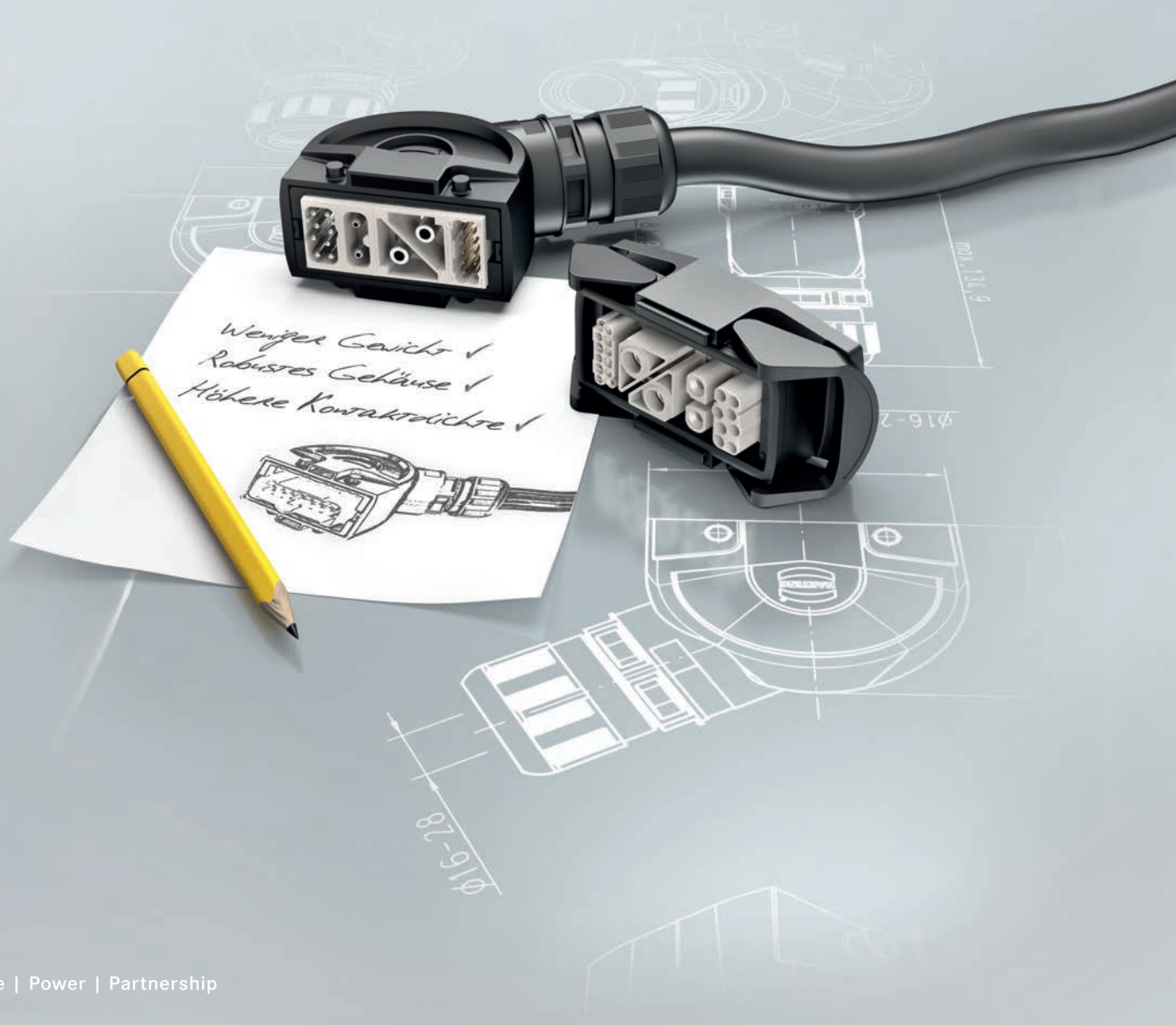


CONEL



People | Power | Partnership

HARTING Han-Eco® Series

christian.rybar@conel.sk

Transforming customer wishes into concrete solutions



The HARTING Technology Group is skilled in the fields of electrical, electronic and optical connection, transmission and networking, as well as in manufacturing, mechatronics and software creation. The Group uses these skills to develop customized solutions and products such as connectors for energy and data transmission applications including, for example, mechanical engineering, rail technology, wind energy plants, factory automation and the telecommunications sector. In addition, HARTING also produces electro-magnetic components for the automobile industry and offers solutions in the field of Enclosures and Shop Systems.

The HARTING Group currently comprises 51 sales companies and production plants worldwide employing a total of about 4,200 staff.



HARTING Subsidiary company



HARTING Representatives

We aspire to top performance.

Connectors ensure functionality. As core elements of electrical and optical wiring, connection and infrastructure technologies, they are essential in enabling the modular construction of devices, machines and systems across a very wide range of industrial applications. Their reliability is a crucial factor guaranteeing smooth functioning in the manufacturing area, in telecommunications, applications in medical technology – in fact, connectors are at work in virtually every conceivable application area. Thanks to the consistent further development of our technologies, customers enjoy investment security and benefit from durable, long term functionality.

Always at hand, wherever our customers may be.

Increasing industrialization is creating growing markets characterized by widely diverging demands and requirements. The search for perfection, increasingly efficient processes and reliable technologies is a common factor in all sectors across the globe.

HARTING is providing these technologies – in Europe, America and Asia. The **HARTING** professionals at our international subsidiaries engage in close, partnership based interaction with our customers, right from the very early product development phases, in order to realize customer demands and requirements in the best possible manner.

Our people on location form the interface to the centrally coordinated development and production departments. In this way, our customers can rely on consistently high, superior product quality – worldwide.

Our claim: pushing performance.

HARTING provides more than optimally attuned components. In order to serve our customers with the best possible solutions, **HARTING** is able to contribute a great deal more and play a closely integrative role in the value creation process.

From ready assembled cables through to control racks or ready-to-go control desks: Our aim is to generate the maximum benefits for our customers – without compromise!

Quality creates reliability – and warrants trust.

The **HARTING** brand stands for superior quality and reliability – worldwide. The standards we set are the result of consistent, stringent quality management that is subject to regular certifications and audits.

EN ISO 9001, the EU Eco-Audit and ISO 14001 are key elements here. We take a proactive stance towards new requirements, which is why **HARTING** is the first company worldwide to have obtained the IRIS quality certificate for rail vehicles.



HARTING technology creates added value for customers. Technologies by HARTING are at work worldwide. HARTING's presence stands for smoothly functioning systems, powered by intelligent connectors, smart infrastructure solutions and mature network systems. In the course of many years of close, trust-based cooperation with its customers, the HARTING Technology Group has advanced to one of the worldwide leading specialists for connector technology. Extending beyond the basic functionalities demanded, we offer individual customers specific and innovative solutions. These tailored solutions deliver sustained effects, provide investment security and enable customers to achieve strong added value.

Opting for HARTING opens up an innovative, complex world of concepts and ideas.

In order to develop connectivity and network solutions serving an exceptionally wide range of connector applications and task scopes in a professional and cost optimized manner, HARTING not only commands the full array of conventional tools and basic technologies. Over and beyond these capabilities, HARTING is constantly harnessing and refining its broad base of knowledge and experience to create new solutions that ensure continuity at the same time. In securing this know-how lead, HARTING draws on a wealth of sources from both in-house research and the world of applications alike.

Salient examples of these sources of innovative knowledge include microstructure technologies, 3D design and construction technology, as well as high temperature

or ultrahigh frequency applications that are finding use in telecommunications or automation networks, in the automotive industry, or in industrial sensor and actuator applications, RFID and wireless technologies, in addition to packaging and housing made of plastics, aluminum or stainless steel.

HARTING solutions extend across technology boundaries.

Drawing on the comprehensive resources of the group's technology pool, HARTING devises practical solutions for its customers. Whether this involves industrial networks for manufacturing automation, or hybrid interface solutions for wireless telecommunication infrastructures, 3D circuit carriers with microstructures, or cable assemblies for high-temperature applications in the automotive industry – HARTING technologies offer far more than components, and represent mature, comprehensive solutions attuned to individual customer requirements and wishes. The range covers ready-to-use cable configurations, completely assembled backplanes and board system carriers, as well as fully wired and tested control panels.

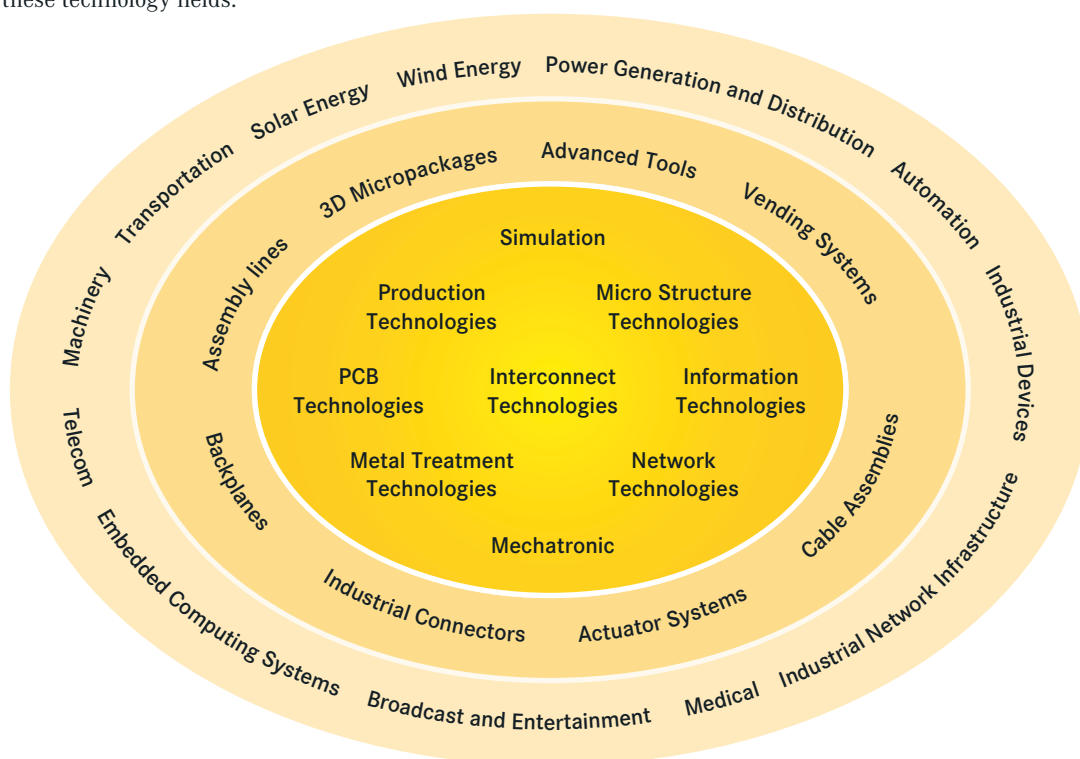
In order to ensure the future proof design of RF- and EMC-compatible interface solutions, the central HARTING laboratory (certified to EN 45001) provides simulation tools, as well as experimental, testing and diagnostics facilities all the way through to scanning electron microscopes. In the selection of materials and processes, lifecycle and environmental aspects play a key role, in addition to product and process capability considerations.



HARTING knowledge is practical know-how generating synergy effects.

HARTING commands decades of experience with regard to the applications conditions of connectors in telecommunications, computer and network technologies and medical technologies, as well as industrial automation technologies, such as the mechanical engineering and plant engineering areas, in addition to the power generation industry or the transportation sector. **HARTING** is highly conversant with the specific application areas in all of these technology fields.

The key focus is on applications in every solution approach. In this context, uncompromising, superior quality is our hallmark. Every new solution found will invariably flow back into the **HARTING** technology pool, thereby enriching our resources. And every new solution we go on to create will draw on this wealth of resources in order to optimize each and every individual solution. In this way, **HARTING** is synergy in action.





The **HARTING eCatalogue / eShop** can be found on our homepage at **www.HARTING.com** or at the direct link **www.eCatalogue.HARTING.com**.

The HARTING e-Catalogue is your platform for conveniently selecting individual products as well as configuring complete solutions. Our comprehensive product pages provide you with all necessary technical information and CAD files in various formats for downloading. You may also contact our technical sales department directly.

Find out about **product innovations and news** on the start page of the HARTING e-Catalogue or go directly to **www.product-news.HARTING.com**.

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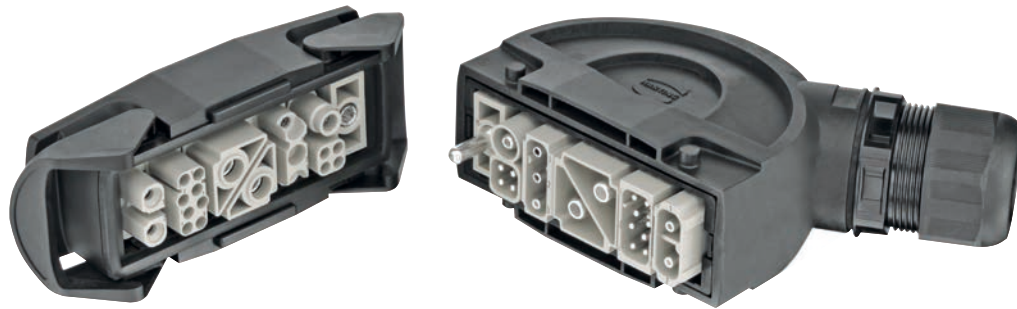
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Hoods/housings for outdoor applications
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Description of the Han-Eco® system



Han-Eco® – a new hood and housing series made of high-performance plastic material.

Han-Eco® is the ideal solution for applications that do not require the full range of product features offered by the Han® B series of hoods and housings, and users want to take advantage of the weight and cost advantages.

Like the Han® B standard series, the Han-Eco® series is available in the following sizes: 6 B, 10 B, 16 B and 24 B. The cable entries are available with metric threading, a cable gland is implemented. For housing sizes 6 B and 10 B size of the cable gland is M32, for 16 B and 24 B cable gland M40 is used.

Han-Eco® hoods and housings are made of high-performance plastic that is highly resistant to environmental stress and – in combination with the design - provides very good mechanical stability. When the connector is closed and locked, it provides degree of protection IP 65 as defined in DIN EN 60 529. With seals made of high UV- and ozone-resistant material FPM (Fluororubber) the Han-Eco® hoods and housings are fit for outdoor use. The material also meets demanding flammability requirements of UL 94 Class V 0.

Fast, simple assembly is another outstanding product feature. Click-and-mate design totally eliminates the need for tools during assembly of the Han-Eco® hoods and housings.

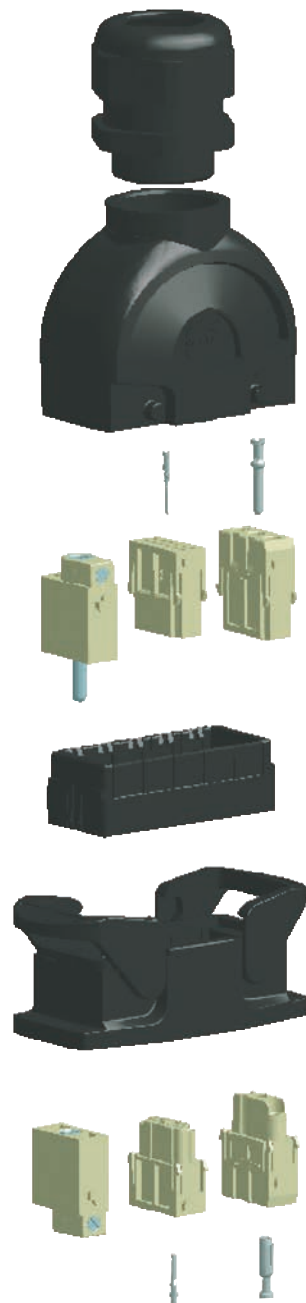
The Han-Eco® hoods and housings are compatible with the range of modules from the Han-Modular® series. One extra module fits into the Han-Eco® hoods and housing compared to the equivalent product in the Han® B Standard series. This special feature applies to all four sizes.

A optional PE module has been developed specifically for the Han-Eco® hoods and housings to hold the protective ground conductor.

Advantages:

- Weight reduction combined with mechanical strength
- Quick and easy assembly without tools – also possible to mount the modules from the rear side of the cabinet
- Highly resistant to environmental stress, suitable for use in outdoor applications
- Complete range of modules from Han-Modular® series usable (with exception of modules with imperative guiding pins [male and female])



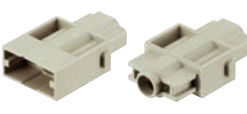









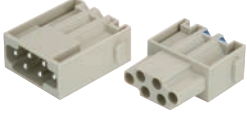

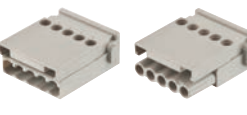
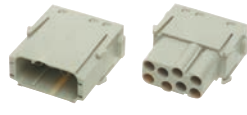
Assembly details



Module overview for applications with Han-Eco®











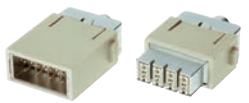
Han-
Eco







Series	Han® 100 A Axial module	Han® 100 A Crimp module	Han® 100 A Single module	Han® 70 A Crimp module
Number of contacts	2	2	1	2
Modules	Axial screw terminal 	Crimp terminal 	Axial screw terminal 	Crimp terminal 
Rated current	100 A	100 A	100 A	70 A
Rated voltage	1000 V	1000 V	830 V	1000 V
Wire gauge	10 ... 38 mm²	10 ... 35 mm²	10 ... 35 mm²	10 ... 25 mm²
Series	Han® 70 A Axial module	Han® 70 A Hybrid module	Han® 40 A Axial module	Han® 40 A Crimp module
Number of contacts	2	1 / 4	2	2
Modules	Axial screw terminal 	Axial screw terminal 	Axial screw terminal 	Crimp terminal 
Rated current	70 A	70 A / 16 A	40 A	40 A
Rated voltage	1000 V	1000 V / 400 V	1000 V	1000 V
Wire gauge	6 ... 22 mm²	6 ... 22 mm² / 0.14 ... 4 mm²	2.5 ... 10 mm²	1.5 ... 10 mm²
Series	Han® C Axial module	Han® C module	Han® CC Protected module	Han® CD module
Number of contacts	3	3	4	3
Modules	Axial screw terminal 	Crimp terminal 	Crimp terminal 	Crimp terminal 
Rated current	40 A	40 A	40 A	40 A
Rated voltage	690 V	400 / 690 V	830 V	830 V
Wire gauge	2.5 ... 10 mm²	1.5 ... 10 mm²	1.5 ... 6 mm²	1.5 ... 6 mm²
Series	Han® E Quick Lock module	Han E® module	Han E® Screw module	Han® EE module
Number of contacts	6	6	5	8
Modules	Quick Lock terminal 	Crimp terminal 	Screw terminal 	Crimp terminal 
Rated current	16 A	16 A	16 A	16 A
Rated voltage	500 V	500 V	230 V / 400 V	400 V
Wire gauge	0.5 ... 2.5 mm²	0.14 ... 4 mm²	0.5 ... 2.5 mm²	0.14 ... 4 mm²

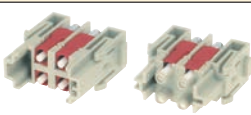



Module overview for applications with Han-Eco®



Han-Eco

Series	Han® EE Quick Lock module	Han E® Protected module	Han® EEE module	Han® ES module
Number of contacts	8	6	20	5
Modules	Quick Lock termination 	Crimp terminal 	Crimp terminal 	Cage-clamp terminal 
Rated current	16 A	16 A	16 A	16 A
Rated voltage	400 V	830 V	500 V	400 V
Wire gauge	0.5 ... 2.5 mm²	0.14 ... 4 mm²	0.14 ... 4 mm²	0.14 ... 2.5 mm²
Series	Han® HV Single module*	Han® HV module*	Han® HV module*	Han DD® module
Number of contacts	2	2	2	12
Modules	Crimp terminal 	Crimp terminal 	Crimp terminal 	Crimp terminal 
Rated current	16 A	16 A	40 A	10 A
Rated voltage	2500 V	2900 / 5000 V	2900 / 5000 V	250 V
Wire gauge	0.5 ... 4 mm²	0.5 ... 4 mm²	1.5 ... 10 mm²	0.14 ... 2.5 mm²
Series	Han DD® Quick Lock module	Han® DDD module	Han® High Density module	Han® D-Sub module
Number of contacts	12	17	25	9
Modules	Quick Lock termination 	Crimp terminal 	Crimp terminal 	Crimp terminal 
Rated current	10 A	10 A	4 A	5 A
Rated voltage	250 V	160 V	50 V	50 V
Wire gauge	0.25 ... 1.5 mm²	0.14 ... 2.5 mm²	0.08 ... 0.52 mm²	0.08 ... 0.52 mm²
Series	Han® USB module	Han® FireWire module	Han® RJ45 module	Han® GigaBit module*
Number of contacts	4 / 8	6	8	8
Modules	USB 2.0 / 3.0 	IEEE 1394 	Ethernet Cat. 6 	Ethernet Cat. 6 

Series	Han® MegaBit module*	Han-Quintax® module			
Number of contacts	2 x 4	2			
Modules	Ethernet Cat. 5e				
Contacts		Han-Quintax® contact 4 + shielding 	High Density Quintax contact 8 + shielding 	Han D® Coax contact 75 Ω 1 + shielding  75 Ω	Han E® Coax contact 50 Ω 1 + shielding  50 Ω

Series	Han® SC module	Han-Elisa®	Han® Dummy module
Number of contacts	4		
Modules			
Contacts	SC contact for GI 50; 62.5 / 125 µm  For the use with Han-Eco® please order female module 09 14 004 4713. Only for multimode fiber.	Temperature I/O modules ID module	



Han-Eco

Features

- Suitable for Han-Eco® hoods/housings and the Han-Modular® docking frame
- Higher contact density compared to Han E® standard screw inserts (up to 65%)
- Han-Eco® “click and mate” assembly concept
- 6 coding options

Technical characteristics

Contacts	10, 14, 20, 28
Electrical data acc. to IEC 61984	16 A 500 V 6 kV 3
Rated current	16 A
Rated voltage	500 V
Rated impulse voltage	6 kV
Pollution degree	3
Rated voltage acc. to UL	600 V
Rated voltage acc. to CSA	600 V
Insulation resistance	≥10 ¹⁰ Ohm
Limiting temperatures	-40 °C ... 125 °C
Flammability (insert) acc. to UL 94	V 0
Mating cycles	≥500
Material (insert)	polycarbonate
Colour (insert)	RAL 7032 (light grey)

Specifications and approvals

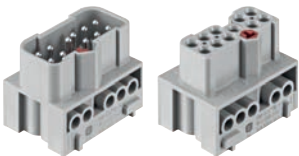
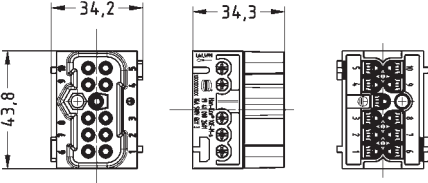
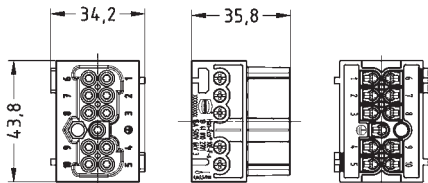

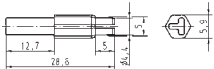
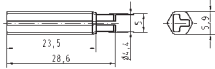
IEC 60664-1
IEC 61984



Number of contacts

10+

500 V
16 A

Identification	Wire cross section (mm²)	Part number		Drawing Dimensions in mm
		male	female	
<div>Han-Eco®, Screw terminal, with wire protection</div> <div></div>	0.75–2.5	19 41 010 2601	19 41 010 2701	<div>male</div> <div></div> <div>female</div> <div></div>
<div>Coding element, plastic</div> <div></div>		09 12 000 9901	09 12 000 9902	<div></div> <div></div>



Han-Eco

Number of contacts

14+

500 V
16 A


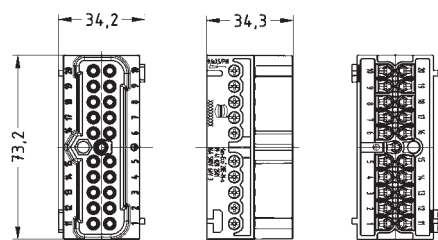
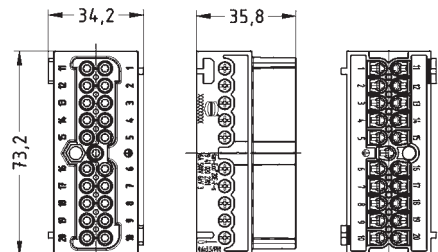

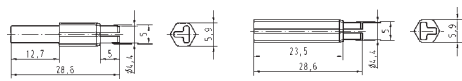
Identification	Wire cross section (mm²)	Part number		Drawing Dimensions in mm
		male	female	
<div>Han-Eco®, Screw terminal, with wire protection</div> <div></div>	0.75 – 2.5	19 41 014 2601	19 41 014 2701	<div>male</div> <div></div> <div>female</div> <div></div>
<div>Coding element, plastic</div> <div></div>		09 12 000 9901	09 12 000 9902	<div></div>



Number of contacts

20+

500 V
16 A

Identification	Wire cross section (mm²)	Part number		Drawing Dimensions in mm
		male	female	
<p>Han-Eco®, Screw terminal, with wire protection</p> 	0.75–2.5	19 41 020 2601	19 41 020 2701	<p>male</p>  <p>female</p> 
<p>Coding element, plastic</p> 		09 12 000 9901	09 12 000 9902	



Han-Eco

Number of contacts

28+

500 V
16 A

Identification	Wire cross section (mm²)	Part number		Drawing Dimensions in mm
		male	female	
<div>Han-Eco®, Screw terminal, with wire protection</div> <div></div>	0.75 – 2.5	19 41 028 2601	19 41 028 2701	<div>male</div> <div></div> <div>female</div> <div></div>
<div>Coding element, plastic</div> <div></div>		09 12 000 9901	09 12 000 9902	<div></div> <div></div>

Features

- Available with integrated cable gland
- Optional PE contact module to hold the protective ground conductor
- Not mating compatible with series Han® B
- Capable for applications according protection class II



Technical characteristics

Limiting temperatures	-40 °C ... 125 °C
Flammability (hoods/housings) acc. to UL 94	V 0
Flammability acc. to NFF 16 101 / 16 102	F2 / I3
Flammability acc. to EN 45 545-2:2013	Class R22: HL1, HL2, Class R23: HL1, HL2, HL3, Class R24: HL1, HL2, HL3
Flammability (locking lever) acc. to UL 94	V 0
Degree of protection acc. to IEC 60529	IP65
Material (hoods/housings)	polyamide, fibre-glass reinforced
Colour (hoods/housings)	RAL 9005 (black)
Material (locking lever)	polyamide, fibre-glass reinforced
Colour (locking lever)	RAL 9005 (black)
Material (seal)	NBR
Colour (seal)	RAL 9005 (black)



Specifications and approvals

IEC 61984



Identification	Cable entry	Part number	Drawing Dimensions in mm
<p>Han-Eco®, Hood with integrated cable gland, top entry</p> 	M20 M25	19 46 110 0445 19 46 110 0446	
<p>Han-Eco®, Hood with integrated cable gland, side entry</p> 	M20 M25	19 46 110 0545 19 46 110 0546	
<p>Han-Eco®, Bulkhead mounted housings</p> 		19 46 010 0301	
<p>Han-Eco®, Bulkhead mounted housings, with cover</p> 		19 46 010 0302	
<p>Han-Eco®, Surface mounted housings with integrated cable gland, side entry</p> 	1xM20 1xM25 2xM20 2xM25	19 46 110 0250 19 46 110 0251 19 46 110 0290 19 46 110 0291	



Identification	Cable entry	Part number	Drawing Dimensions in mm
<div><div><div>Han-Eco®, Surface mounted housings with integrated cable gland, with cover, side entry</div><div></div></div></div> <div><div>1xM20 1xM25 2xM20 2xM25</div><div><div>19 46 110 0252 19 46 110 0253 19 46 110 0292 19 46 110 0293</div></div></div>			
<div><div><div>Han-Eco®, Cable to cable housings, top entry</div><div></div></div></div> <div><div>1xM20 1xM25</div><div><div>19 46 110 0435 19 46 110 0436</div></div></div>			

Han-Eco

Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-Eco®, Hood with integrated cable gland, top entry 	M20 M25	19 46 116 0445 19 46 116 0446	
Han-Eco®, Hood with integrated cable gland, side entry 	M20 M25	19 46 116 0545 19 46 116 0546	
Han-Eco®, Bulkhead mounted housings 		19 46 016 0301	
Han-Eco®, Bulkhead mounted housings, with cover 		19 46 016 0302	
Han-Eco®, Surface mounted housings with integrated cable gland, side entry 	1xM20 1xM25 2xM20 2xM25	19 46 116 0250 19 46 116 0251 19 46 116 0290 19 46 116 0291	

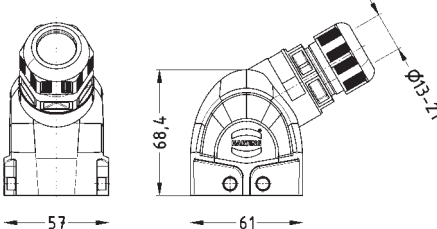
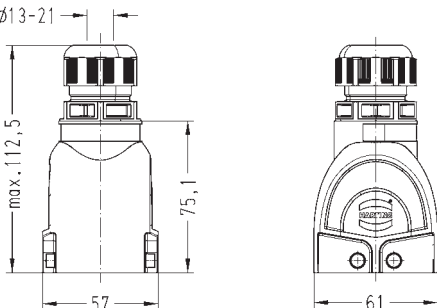
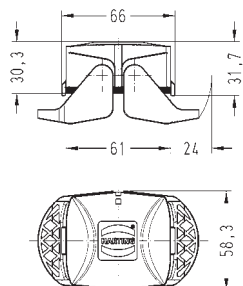



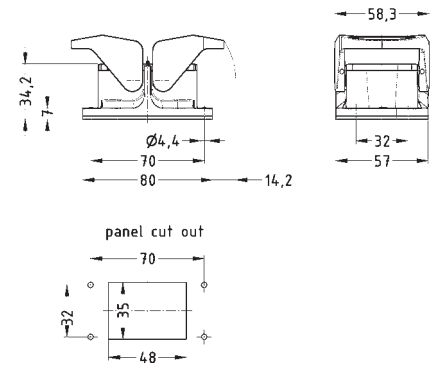

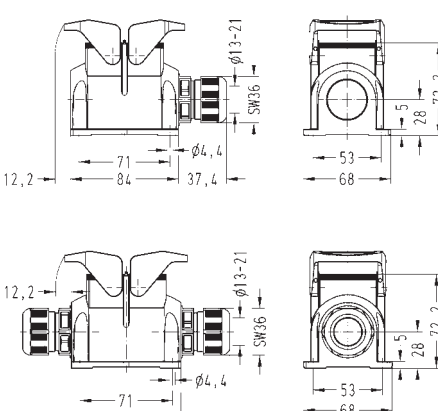

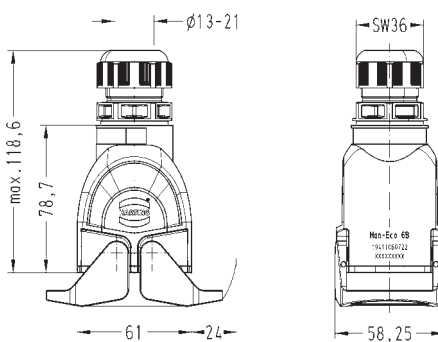
Identification	Cable entry	Part number	Drawing Dimensions in mm
<div><div><div>Han-Eco®, Surface mounted housings with integrated cable gland, with cover, side entry</div><div></div></div></div>	<div><div>1xM20</div><div>1xM25</div><div>2xM20</div><div>2xM25</div></div>	<div><div>19 46 116 0252</div><div>19 46 116 0253</div><div>19 46 116 0292</div><div>19 46 116 0293</div></div>	
<div><div><div>Han-Eco®, Cable to cable housings, top entry</div><div></div></div></div>	<div><div>1xM20</div><div>1xM25</div></div>	<div><div>19 46 116 0435</div><div>19 46 116 0436</div></div>	

Han-
Eco

double locking lever

Han-
Eco

Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-Eco®, Hoods, side entry	1xM32	19 41 006 0522	
Han-Eco®, Hoods, top entry	1xM32	19 41 006 0422	
Han-Eco®, Hood with integrated cable gland, side entry	1xM32	19 41 106 0522	
Han-Eco®, Hood with integrated cable gland, top entry	1xM32	19 41 106 0422	
Han-Eco®, Protection cover for hoods		19 41 006 5406	
Han-Eco®, Protection cover for hoods, with securing flex		19 41 006 5407	

Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-Eco®, Bulkhead mounted housings 		19 41 006 0301	
Han-Eco®, Surface mounted housings, side entry	1xM32 2xM32	19 41 006 0232 19 41 006 0272	
Han-Eco®, Surface mounted housings with integrated cable gland, side entry 	1xM32 2xM32	19 41 106 0232 19 41 106 0272	
Han-Eco®, Cable to cable housings, top entry	1xM32	19 41 006 0722	
Han-Eco®, Cable to cable housings with integrated cable gland, top entry 	1xM32	19 41 106 0722	



Han-
Eco

Identification

Cable entry

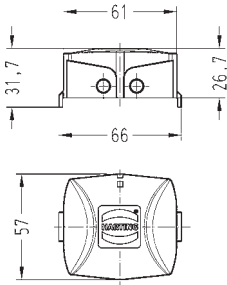
Part number

Drawing
Dimensions in mm

Han-Eco®,
Protection cover for housings,
with securing flex



19 41 006 5404



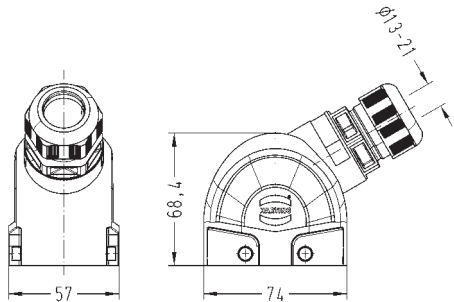
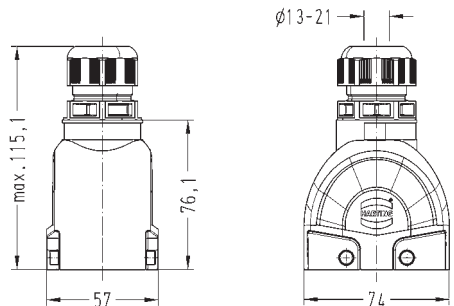
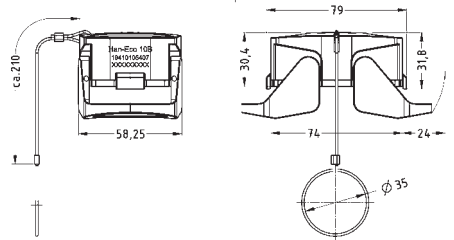
Han-Eco®,
Protection cover for housings



19 41 006 5405


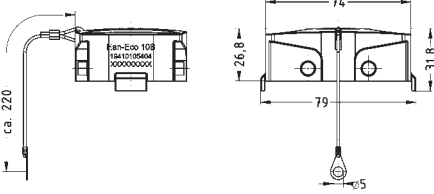

double locking lever

Han-
Eco

Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-Eco®, Hoods, side entry	1xM32	19 41 010 0522	
Han-Eco®, Hoods, top entry	1xM32	19 41 010 0422	
Han-Eco®, Hood with integrated cable gland, side entry	1xM32	19 41 110 0522	
Han-Eco®, Hood with integrated cable gland, top entry	1xM32	19 41 110 0422	
Han-Eco®, Protection cover for hoods		19 41 010 5406	
Han-Eco®, Protection cover for hoods, with securing flex		19 41 010 5407	

Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-Eco®, Bulkhead mounted housings		19 41 010 0301	<p>Technical drawing of the Han-Eco bulkhead mounted housing (part 19 41 010 0301). The drawing includes three views: a front view showing two cable ports with a height of 34.2 mm and a base width of 83 mm; a side view showing a total width of 58.3 mm and a mounting flange diameter of 57 mm; and a panel cut-out view showing a rectangular opening with a width of 60 mm and a height of 32 mm. A central hole has a diameter of 4.4 mm.</p>
Han-Eco®, Surface mounted housings, side entry	1xM32 2xM32	19 41 010 0232 19 41 010 0272	
Han-Eco®, Surface mounted housings with integrated cable gland, side entry	1xM32 2xM32	19 41 110 0232 19 41 110 0272	<p>Technical drawing of the Han-Eco surface mounted housings with integrated cable glands (parts 19 41 110 0232 and 19 41 110 0272). The drawing includes four views: two front views showing different cable gland configurations with heights of 11.2 mm and widths of 87 mm and 99 mm; two side views showing a total width of 68 mm and a mounting flange diameter of 53 mm. The cable glands have a diameter of 13-21 mm and a hex key size of SW36. A central hole has a diameter of 4.4 mm.</p>
Han-Eco®, Cable to cable housings, top entry	1xM32	19 41 010 0722	
Han-Eco®, Cable to cable housings with integrated cable gland, top entry	1xM32	19 41 110 0722	<p>Technical drawing of the Han-Eco cable to cable housings with integrated cable glands (part 19 41 110 0722). The drawing includes two views: a front view showing a housing with a width of 58.25 mm and a hex key size of SW36; and a side view showing a maximum height of 119.6 mm and a mounting flange diameter of 74 mm. The cable glands have a diameter of 13-21 mm and a hex key size of SW36.</p>



Identification	Cable entry	Part number	Drawing Dimensions in mm
<p>Han-Eco®, Protection cover for housings, with securing flex</p> 		19 41 010 5404	
<p>Han-Eco®, Protection cover for housings</p> 		19 41 010 5405	


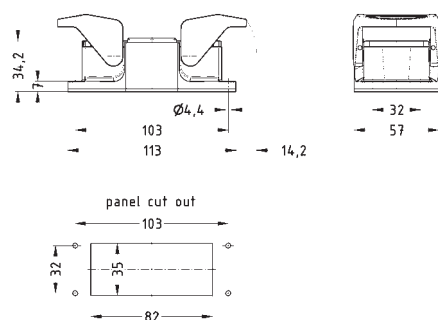

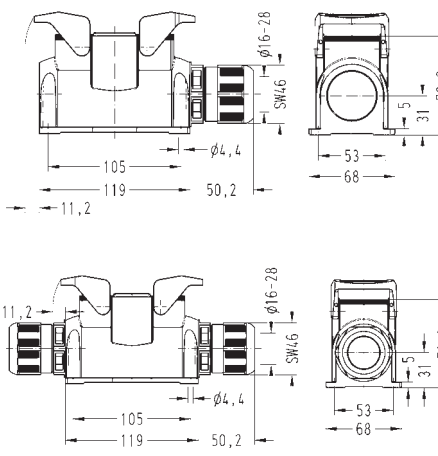

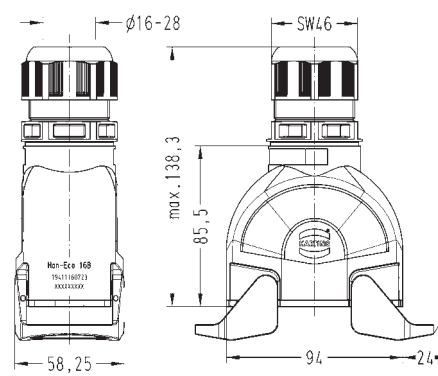

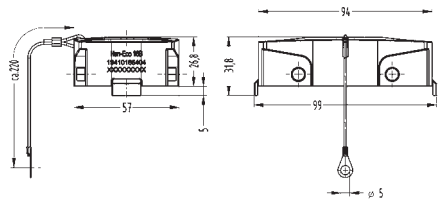
Han-Eco




double locking lever

Han-
Eco

Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-Eco®, Hoods, side entry	1xM40	19 41 016 0523	
Han-Eco®, Hoods, top entry	1xM40	19 41 016 0423	
Han-Eco®, Hood with integrated cable gland, side entry	1xM40	19 41 116 0523	
Han-Eco®, Hood with integrated cable gland, top entry	1xM40	19 41 116 0423	
Han-Eco®, Protection cover for hoods		19 41 016 5406	
Han-Eco®, Protection cover for hoods, with securing flex		19 41 016 5407	

Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-Eco®, Bulkhead mounted housings 		19 41 016 0301	
Han-Eco®, Surface mounted housings, side entry	1xM40 2xM40	19 41 016 0233 19 41 016 0273	
Han-Eco®, Surface mounted housings with integrated cable gland, side entry 	1xM40 2xM40	19 41 116 0233 19 41 116 0273	
Han-Eco®, Cable to cable housings, top entry	1xM40	19 41 016 0723	
Han-Eco®, Cable to cable housings with integrated cable gland, top entry 	1xM40	19 41 116 0723	
Han-Eco®, Protection cover for housings, with securing flex 		19 41 016 5404	




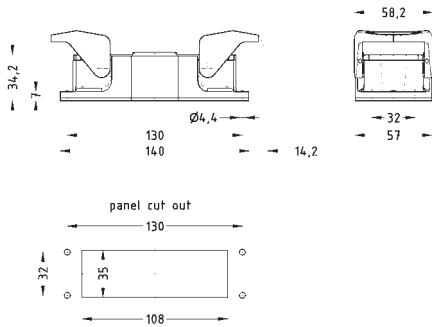

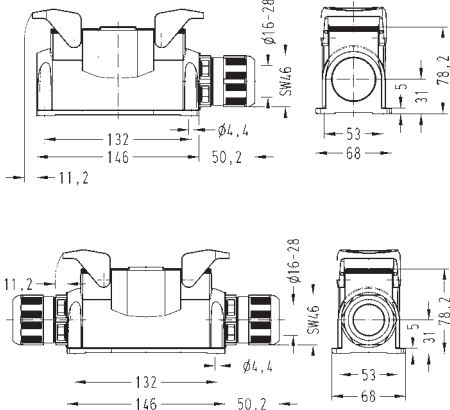

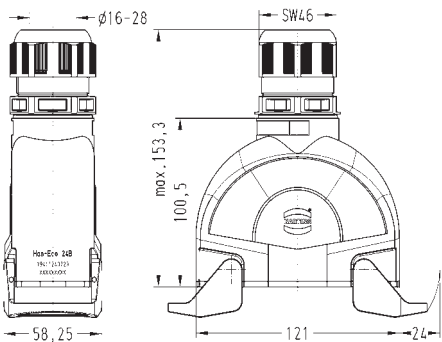

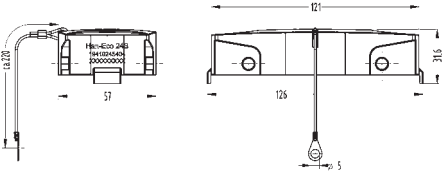
Identification	Cable entry	Part number	Drawing Dimensions in mm
<div>Han-Eco[®], Protection cover for housings</div> <div></div>		19 41 016 5405	

Han-Eco


double locking lever

Han-
Eco

Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-Eco®, Hoods, side entry	1xM40	19 41 024 0523	
Han-Eco®, Hoods, top entry	1xM40	19 41 024 0423	
Han-Eco®, Hood with integrated cable gland, side entry	1xM40	19 41 124 0523	
Han-Eco®, Hood with integrated cable gland, top entry	1xM40	19 41 124 0423	
Han-Eco®, Protection cover for hoods		19 41 024 5406	
Han-Eco®, Protection cover for hoods, with securing flex		19 41 024 5407	

Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-Eco® , Bulkhead mounted housings 		19 41 024 0301	
Han-Eco® , Surface mounted housings, side entry	1xM40 2xM40	19 41 024 0233 19 41 024 0273	
Han-Eco® , Surface mounted housings with integrated cable gland, side entry 	1xM40 2xM40	19 41 124 0233 19 41 124 0273	
Han-Eco® , Cable to cable housings, top entry	1xM40	19 41 024 0723	
Han-Eco® , Cable to cable housings with integrated cable gland, top entry 	1xM40	19 41 124 0723	
Han-Eco® , Protection cover for housings, with securing flex 		19 41 024 5404	



Identification	Cable entry	Part number	Drawing Dimensions in mm
<div>Han-Eco®, Protection cover for housings</div> <div></div>		19 41 024 5405	

Han-Eco



Han-
Eco

Features

- Available with integrated cable gland
- Optional PE contact module to hold the protective ground conductor
- Not mating compatible with series Han® B


Technical characteristics

Limiting temperatures	-40 °C ... 125 °C
Flammability (hoods/housings) acc. to UL 94	V 0
Flammability acc. to NFF 16 101 / 16 102	F2 / I3
Flammability acc. to EN 45 545-2:2013	Class R22: HL1, HL2, Class R23: HL1, HL2, HL3, Class R24: HL1, HL2, HL3
Flammability (locking lever) acc. to UL 94	V 0
Degree of protection acc. to IEC 60529	IP65
Material (hoods/housings)	polyamide, fibre-glass reinforced
Colour (hoods/housings)	RAL 9005 (black)
Material (locking lever)	polyamide, fibre-glass reinforced
Colour (locking lever)	RAL 9005 (black)
Material (seal)	FPM
Colour (seal)	RAL 7001 (silver-grey)

Specifications and approvals



IEC 61984



Identification	Cable entry	Part number	Drawing Dimensions in mm
<p>Han-Eco®, Hood with integrated cable gland, top entry</p> 	<p>M20 M25</p>	<p>19 46 310 0445 19 46 310 0446</p>	
<p>Han-Eco®, Hood with integrated cable gland, side entry</p> 	<p>M20 M25</p>	<p>19 46 310 0545 19 46 310 0546</p>	
<p>Han-Eco®, Bulkhead mounted housings</p> 		<p>19 46 210 0301</p>	
<p>Han-Eco®, Bulkhead mounted housings, with cover</p> 		<p>19 46 210 0302</p>	
<p>Han-Eco®, Surface mounted housings with integrated cable gland, side entry</p> 	<p>1xM20 1xM25 2xM20 2xM25</p>	<p>19 46 110 0250 19 46 110 0251 19 46 110 0290 19 46 110 0291</p>	





Han-
Eco

Identification	Cable entry	Part number	Drawing Dimensions in mm
<div><div><div>Han-Eco®, Surface mounted housings with integrated cable gland, with cover, side entry</div><div></div></div></div>	<div><div>1xM20</div><div>1xM25</div><div>2xM20</div><div>2xM25</div></div>	<div><div>19 46 310 0252</div><div>19 46 310 0253</div><div>19 46 310 0292</div><div>19 46 310 0293</div></div>	
<div><div><div>Han-Eco®, Cable to cable housings, top entry</div><div></div></div></div>	<div><div>1xM20</div><div>1xM25</div></div>	<div><div>19 46 110 0435</div><div>19 46 110 0436</div></div>	

Identification	Cable entry	Part number	Drawing Dimensions in mm
<p>Han-Eco®, Hood with integrated cable gland, top entry</p> 	<p>M20 M25</p>	<p>19 46 316 0445 19 46 316 0446</p>	
<p>Han-Eco®, Hood with integrated cable gland, side entry</p> 	<p>M20 M25</p>	<p>19 46 316 0545 19 46 316 0546</p>	
<p>Han-Eco®, Bulkhead mounted housings</p> 		<p>19 46 216 0301</p>	
<p>Han-Eco®, Bulkhead mounted housings, with cover</p> 		<p>19 46 216 0302</p>	
<p>Han-Eco®, Surface mounted housings with integrated cable gland, side entry</p> 	<p>1xM20 1xM25 2xM20 2xM25</p>	<p>19 46 116 0250 19 46 116 0251 19 46 116 0290 19 46 116 0291</p>	

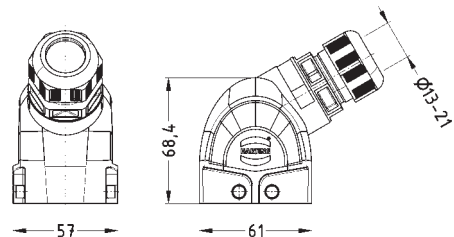
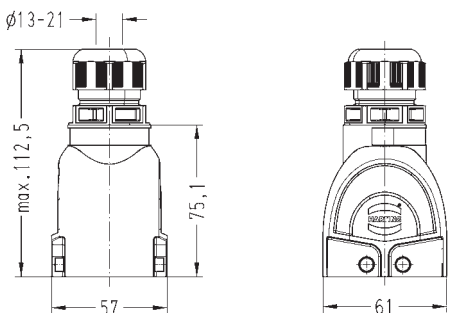
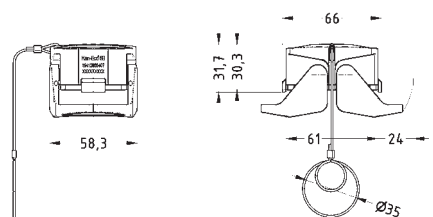


Han-
Eco


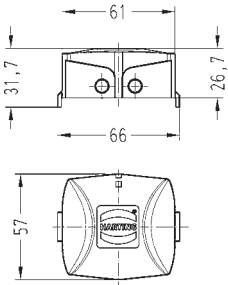

Identification	Cable entry	Part number	Drawing Dimensions in mm
<div><div><div>Han-Eco®, Surface mounted housings with integrated cable gland, with cover, side entry</div><div></div></div></div>	<div><div>1xM20</div><div>1xM25</div><div>2xM20</div><div>2xM25</div></div>	<div><div>19 46 316 0252</div><div>19 46 316 0253</div><div>19 46 316 0292</div><div>19 46 316 0293</div></div>	
<div><div><div>Han-Eco®, Cable to cable housings, top entry</div><div></div></div></div>	<div><div>1xM20</div><div>1xM25</div></div>	<div><div>19 46 116 0435</div><div>19 46 116 0436</div></div>	

double locking lever

Han-
Eco

Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-Eco®, Hoods, side entry	1xM32	19 41 006 0522	
Han-Eco®, Hoods, top entry	1xM32	19 41 006 0422	
Han-Eco®, Hood with integrated cable gland, side entry	1xM32	19 41 106 0522	
Han-Eco®, Hood with integrated cable gland, top entry	1xM32	19 41 106 0422	
Han-Eco®, Protection cover for hoods		19 41 206 5406	
Han-Eco®, Protection cover for hoods, with securing flex		19 41 206 5407	

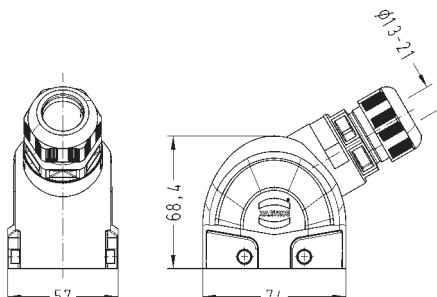
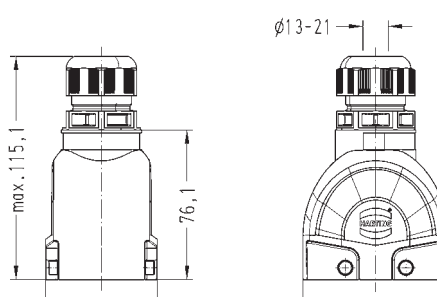
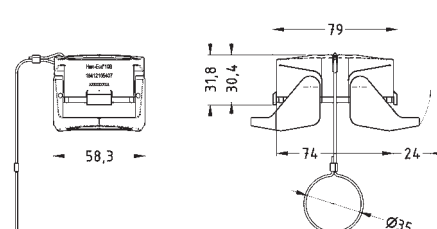



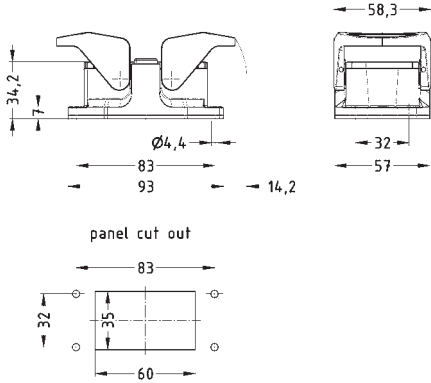


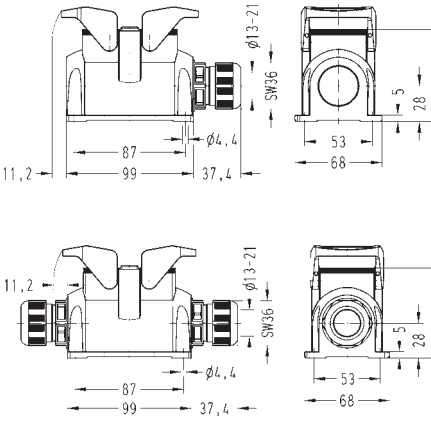


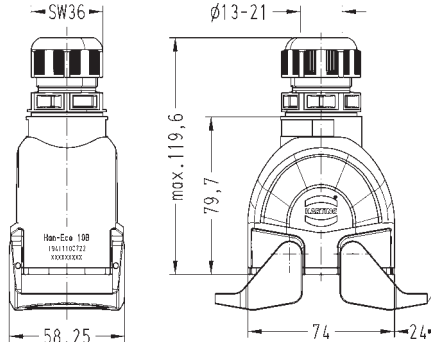
Identification	Cable entry	Part number	Drawing Dimensions in mm
<p>Han-Eco®, Protection cover for housings, with securing flex</p> 		19 41 006 5404	
<p>Han-Eco®, Protection cover for housings</p> 		19 41 006 5405	

Han-Eco

double locking lever

Han-
Eco

Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-Eco®, Hoods, side entry	1xM32	19 41 010 0522	
Han-Eco®, Hoods, top entry	1xM32	19 41 010 0422	
Han-Eco®, Hood with integrated cable gland, side entry	1xM32	19 41 110 0522	
Han-Eco®, Hood with integrated cable gland, top entry	1xM32	19 41 110 0422	
Han-Eco®, Protection cover for hoods		19 41 210 5406	
Han-Eco®, Protection cover for hoods, with securing flex		19 41 210 5407	

Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-Eco®, Bulkhead mounted housings 		19 41 210 0301	
Han® B, Surface mounted housings, side entry 	1xM32 2xM32	19 41 210 0232 19 41 210 0272	
Han® B, Surface mounted housings with integrated cable gland, side entry 	1xM32 2xM32	19 41 310 0232 19 41 310 0272	
Han-Eco®, Cable to cable housings, top entry 	1xM32	19 41 210 0722	
Han-Eco®, Cable to cable housings with integrated cable gland, top entry 	1xM32	19 41 310 0722	



Han-
Eco

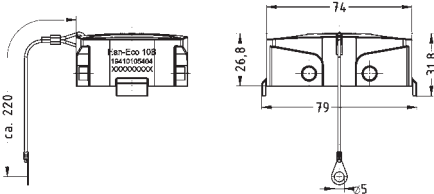
Identification

Cable entry

Part number

Drawing
Dimensions in mm

Han-Eco®,
Protection cover for housings,
with securing flex



19 41 010 5404

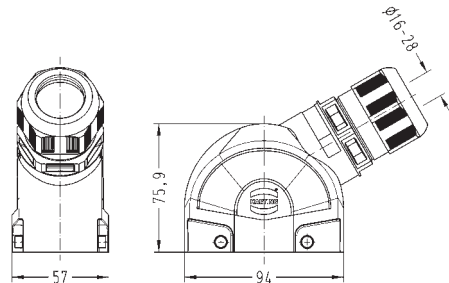
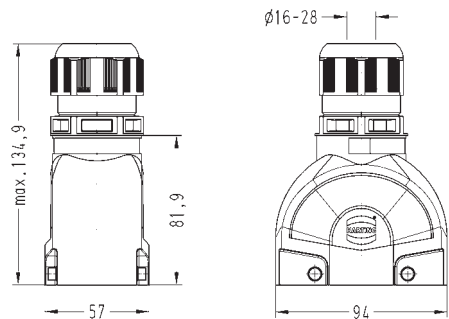
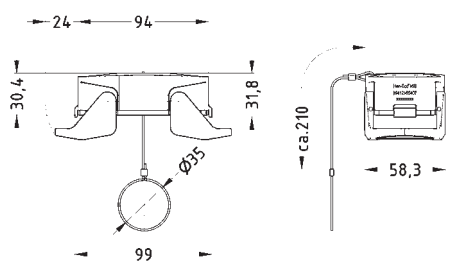
Han-Eco®,
Protection cover for housings


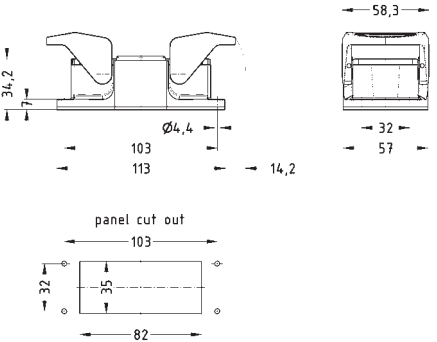

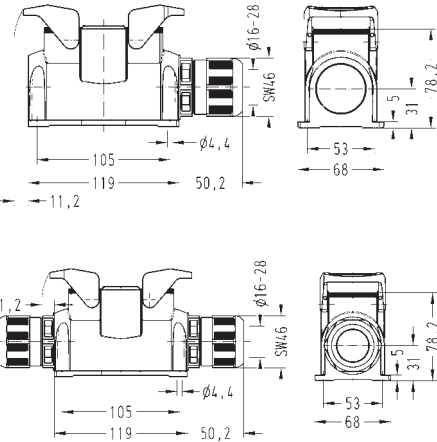

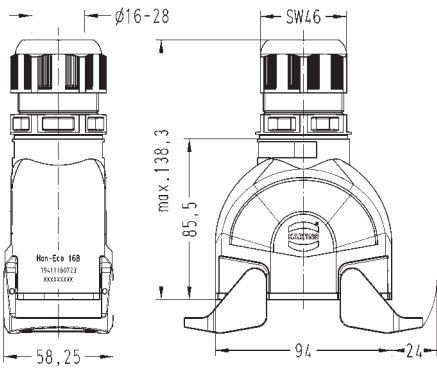

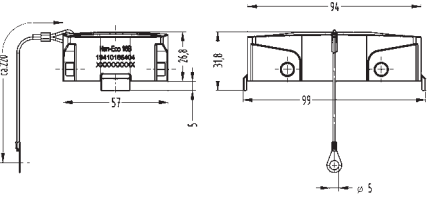


19 41 010 5405


double locking lever

Han-
Eco

Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-Eco®, Hoods, side entry	1xM40	19 41 016 0523	
Han-Eco®, Hoods, top entry	1xM40	19 41 016 0423	
Han-Eco®, Hood with integrated cable gland, side entry	1xM40	19 41 116 0523	
Han-Eco®, Hood with integrated cable gland, top entry	1xM40	19 41 116 0423	
Han-Eco®, Protection cover for hoods		19 41 216 5406	
Han-Eco®, Protection cover for hoods, with securing flex		19 41 216 5407	

Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-Eco Han® B, Bulkhead mounted housings 		19 41 216 0301	
Han-Eco®, Surface mounted housings, side entry	1xM40 2xM40	19 41 216 0233 19 41 216 0273	
Han-Eco®, Surface mounted housings with integrated cable gland, side entry 	1xM40 2xM40	19 41 316 0233 19 41 316 0273	
Han-Eco®, Cable to cable housings, top entry	1xM40	19 41 216 0723	
Han-Eco®, Cable to cable housings with integrated cable gland, top entry 	1xM40	19 41 316 0723	
Han-Eco®, Protection cover for housings, with securing flex 		19 41 016 5404	



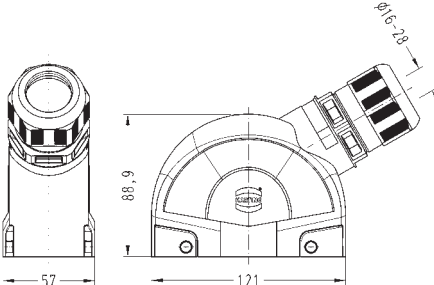
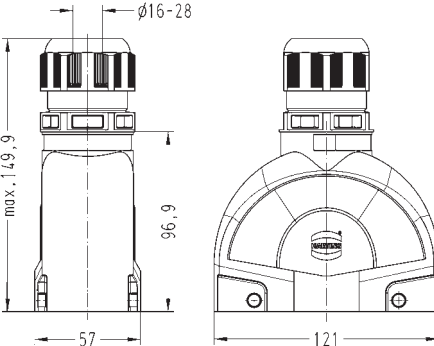
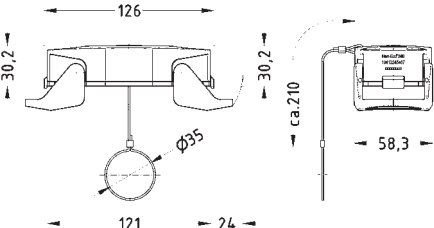
Identification	Cable entry	Part number	Drawing Dimensions in mm
<div>Han-Eco®, Protection cover for housings</div> <div></div>		19 41 016 5405	


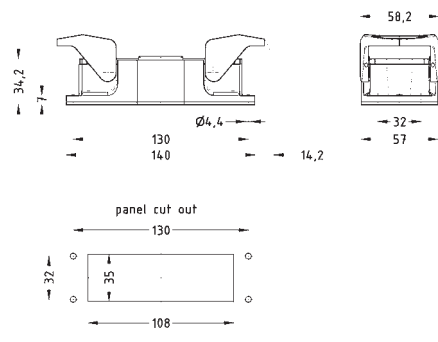

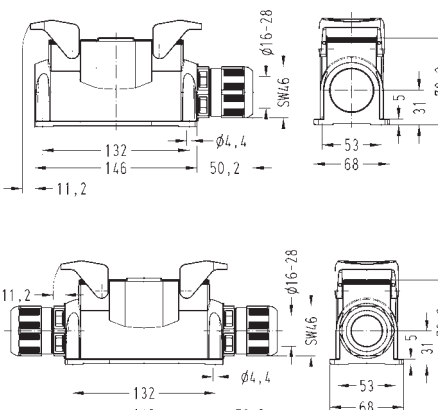

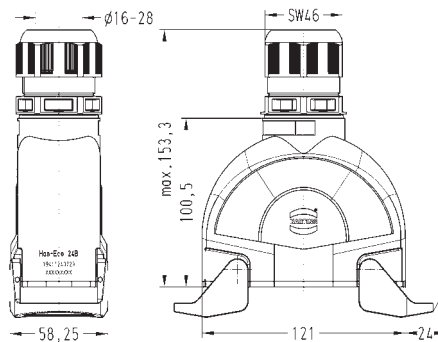

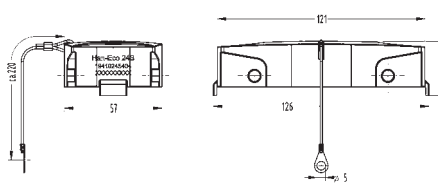
Han-Eco




double locking lever


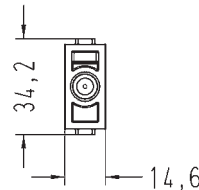
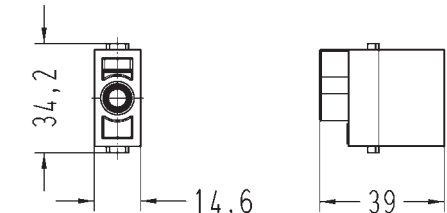
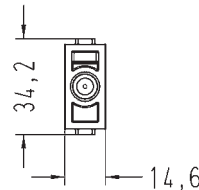
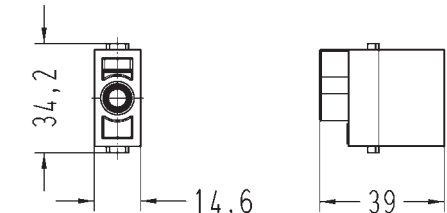
Han-
Eco

Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-Eco®, Hoods, side entry	1xM40	19 41 024 0523	
Han-Eco®, Hoods, top entry	1xM40	19 41 024 0423	
Han-Eco®, Hood with integrated cable gland, side entry	1xM40	19 41 124 0523	
Han-Eco®, Hood with integrated cable gland, top entry	1xM40	19 41 124 0423	
Han-Eco®, Protection cover for hoods		19 41 224 5406	
Han-Eco®, Protection cover for hoods, with securing flex		19 41 224 5407	

Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-Eco®, Bulkhead mounted housings 		19 41 224 0301	
Han® B, Surface mounted housings, side entry	1xM40 2xM40	19 41 224 0233 19 41 224 0273	
Han® B, Surface mounted housings with integrated cable gland, side entry 	1xM40 2xM40	19 41 324 0233 19 41 324 0273	
Han® B, Cable to cable housings, top entry	1xM40	19 41 224 0723	
Han® B, Cable to cable housings with integrated cable gland 	1xM40	19 41 324 0723	
Han-Eco®, Protection cover for housings, with securing flex 		19 41 024 5404	



Identification		Cable entry	Part number	Drawing Dimensions in mm
Han-Eco	Han-Eco®, Protection cover for housings		19 41 024 5405	
				


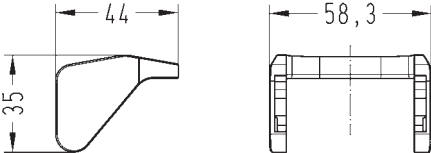

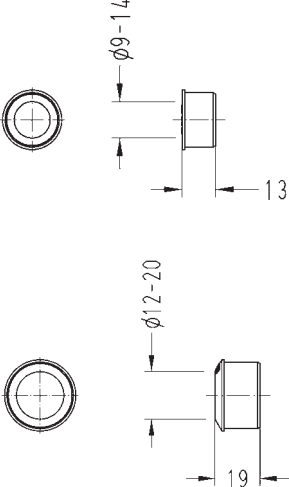

Identification	Wire cross section (mm²)	Part number		Drawing Dimensions in mm
		male	female	
<div><div><div>Han-Eco®, PE contact module, with screw terminal</div><div></div><div>with 09 99 000 0830 HARTING Crimping tool also cable up to 25 mm² with ferrule adaptable</div></div></div> <td>1.5 – 16</td> <td>19 41 001 2600</td> <td>19 41 001 2700</td> <td><div><div></div><div></div></div></td>	1.5 – 16	19 41 001 2600	19 41 001 2700	<div><div></div><div></div></div>

Technical characteristics

Material (accessories) plastic

Technical characteristics

Colour (accessories) black



Identification	Size	Part number	Drawing Dimensions in mm
Cable gland	M32 M40	19 41 000 5131 19 41 000 5141	
			
Han-Eco®, Locking lever, for all sizes		19 41 000 5201	
			
Han-Eco®, Reduction sealing insert	M32 M40	19 41 000 5132 19 41 000 5142	
			

Technical characteristics

Material (accessories) NBR

Technical characteristics

Colour (accessories) black

Identification	Size	Part number	Drawing Dimensions in mm
Han-Eco®, Flange gasket, NBR	6 B	19 41 000 9801	
	10 B	19 41 000 9802	
	16 B	19 41 000 9803	
	24 B	19 41 000 9804	
Han-Eco®, Profile gasket, NBR	6 B	19 41 000 9901	
	10 B	19 41 000 9902	
	16 B	19 41 000 9903	
	24 B	19 41 000 9904	

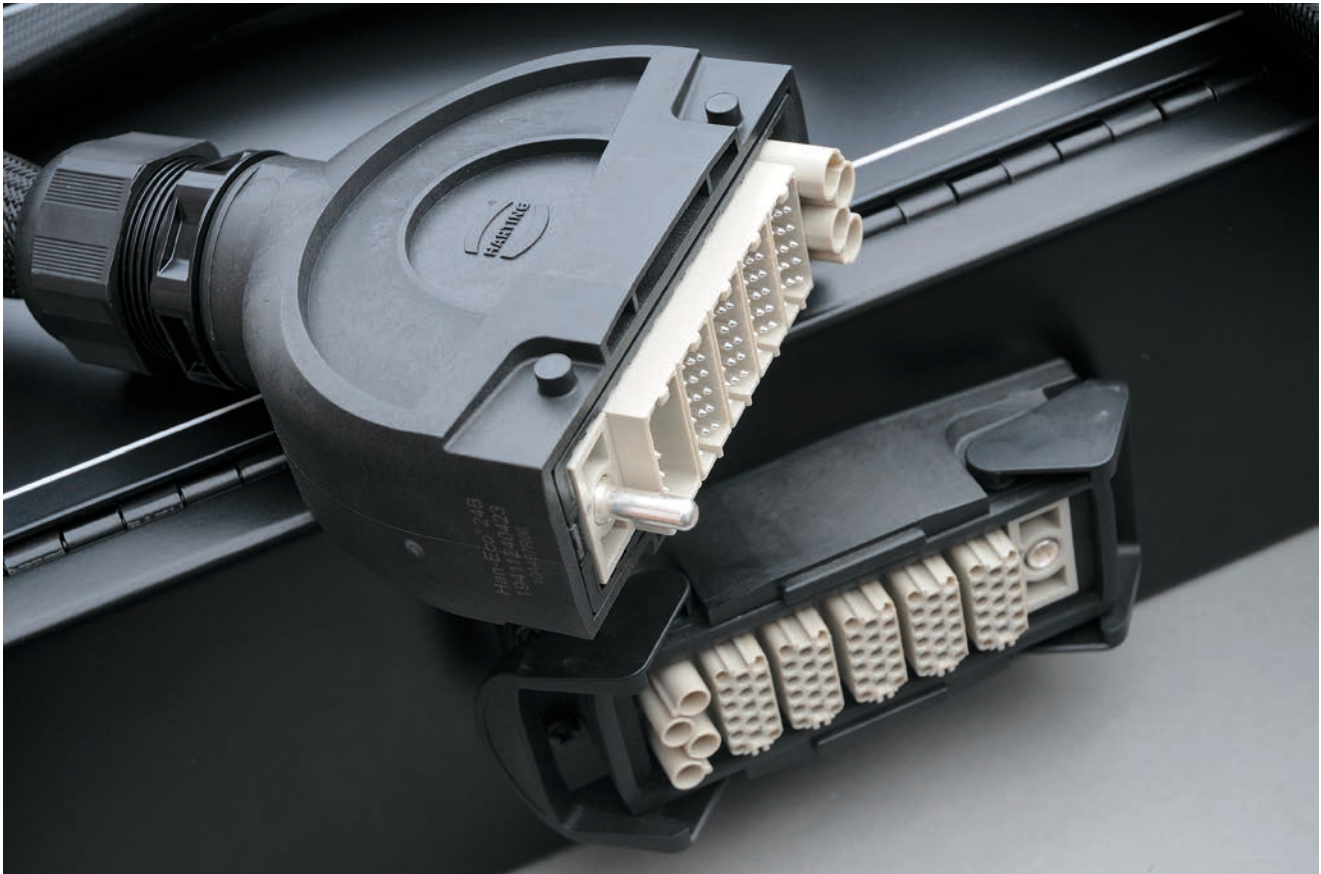
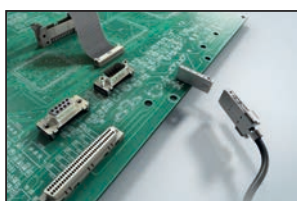


Photo courtesy: Robolights

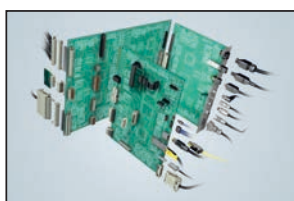
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When the Grand Opera House, York in the United Kingdom wanted to upgrade its 12 motorised hoists, drive system and control, a UK custom panel builder put together a design that would allow individual speed and direction control of each of the flying bars from a central console. They manufactured the control console, connection point and interconnecting cables along with a custom wheeled frame to allow easy movement of the console around the stage. This project made use of HARTING's recently introduced modular Han-Eco® system connectors which allow the integration of multiple services, contact types and ratings into a single connector assembly.

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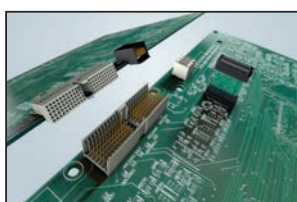

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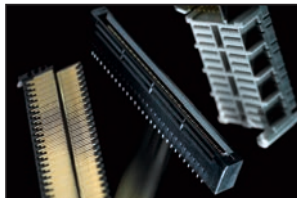

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