

HARTING Han-Eco® Series

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.



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 inhouse 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.

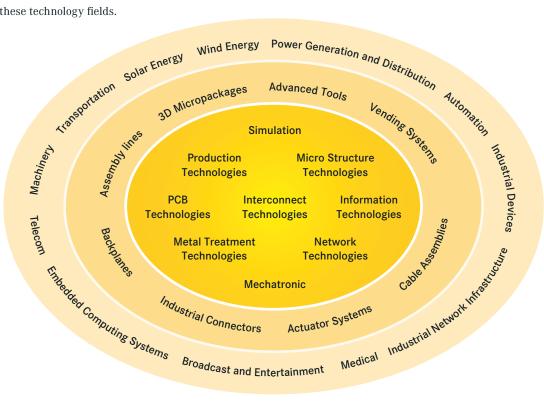
In order to ensure the future proof design of RF- and EMC-compatible interface solutions, the central HARTING laboratory (certified to EN 45001) provides simulation tools, as well as experimental, testing and diagnostics facilities all the way through to scanning electron microscopes. In the selection 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.

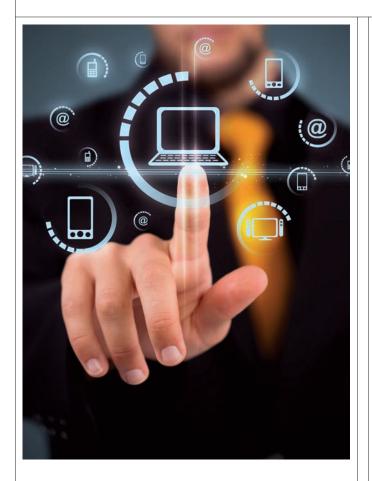
HARTING commands decades of experience with regard to the applications conditions of connectors in telecommunications, computer and network technologies and medical technologies, as well as industrial automation technologies, such as the mechanical engineering and plant engineering areas, in addition 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.



HARTING eCatalogue





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Description of the Han-Eco® system

Han-Eco



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®



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 Rated voltage Wire gauge	100 A 1000 V 10 38 mm²	100 A 1000 V 10 35 mm²	100 A 830 V 10 35 mm²	70 A 1000 V 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
	00		3 9	
Rated current Rated voltage Wire gauge	70 A 1000 V 6 22 mm ²	70 A / 16 A 1000 V / 400 V 6 22 mm² / 0.14 4 mm²	40 A 1000 V 2.5 10 mm²	40 A 1000 V 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 Rated voltage Wire gauge	40 A 690 V 2.5 10 mm ²	40 A 400 / 690 V 1.5 10 mm²	40 A 830 V 1.5 6 mm²	40 A 830 V 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 Rated voltage Wire gauge	16 A 500 V 0.5 2.5 mm ²	16 A 500 V 0.14 4 mm²	16 A 230 V / 400 V 0.5 2.5 mm²	16 A 400 V 0.14 4 mm²

Module overview for applications with Han-Eco®

Han® EE Quick Lock module

8

16 A

2500 V

 $0.5\;...\;4\;mm^2$

Series

Number of contacts

Rated current

Rated voltage

Wire gauge



Han® ES module

5

16 A

400 V

0.14 ... 2.5 mm²

12

Crimp terminal

10 A

250 V

0.14 ... 2.5 mm²

Han-Modules Quick Lock termination Crimp terminal Crimp terminal Cage-clamp terminal Eco Rated current 16 A 16 A 16 A 400 V 830 V 500 V Rated voltage Wire gauge 0.5 ... 2.5 mm² 0.14 ... 4 mm² 0.14 ... 4 mm² Han® HV module* Han® HV module* Han DD® module Series Han® HV Single module* Number of contacts 2 2 2 Crimp terminal Crimp terminal Crimp terminal Modules

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 Rated voltage Wire gauge	10 A 250 V 0.25 1.5 mm²	10 A 160 V 0.14 2.5 mm²	4 A 50 V 0.08 0.52 mm²	5 A 50 V 0.08 0.52 mm²

16 A

2900 / 5000 V

0.5 ... 4 mm²

Han E® Protected module

Han® EEE module

20

40 A

2900 / 5000 V

1.5 ... 10 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
			MI	

Han-

Module overview for applications with Han-Eco®

Series	Han® MegaBit module*	Han-Quintax® module				
Number of contacts	2 x 4	2				
Modules	Ethernet Cat. 5e		No.	60		
Contacts	d Edit 4	Han-Quintax® contact 4 + shielding	High Density Quintax contact 8 + shielding	Han D [®] Coax contact 75 Ω 1 + shielding	Han E [®] Coax contact 50 Ω 1 + shielding	
		3 2 1			S. Common of the	
				75 Ω	50 Ω	

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

Han-Eco® Monoblocks



Features

Han-Eco

- 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

10, 14, 20, 28 16 A 500 V 6 kV 3

Electrical data acc. to IEC

61984

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 ≥10¹⁰ Ohm

Limiting temperatures

V 0

Mating cycles ≥500 Material (insert) polycarbonate RAL 7032 (light grey) Colour (insert)

-40 °C ... 125 °C Flammability (insert) acc. to UL 94

Specifications and approvals

IEC 60664-1 IEC 61984



Number of contacts

10+

500 V 16 A

Identification	Wire cross section (mm²)	Part n male	umber female	Drawing Dimensions in mm
Han-Eco®, Screw terminal, with wire protection	0.75 – 2.5	19 41 010 2601	19 41 010 2701	male 8. E. J.
Coding element, plastic		09 12 000 9901	09 12 000 9902	12.7 23.5 28.6



Han-Eco Number of contacts

14+ 😩

500 V 16 A

	NA II	Part n	ımher	
Identification	Wire cross section (mm²)	male	female	Drawing Dimensions in mm
Han-Eco®, Screw terminal, with wire protection	0.75 – 2.5	19 41 014 2601	19 41 014 2701	male -34,234,3
				female -34,2 - 35,8 - 3
Coding element, plastic		09 12 000 9901	09 12 000 9902	12.7 28.5 2 20.5 28.6



Number of contacts

20+ 😩

500 V 16 A

Identification	Wire cross section (mm²)	Part n male	umber female	Drawing Dimensions in mm
Han-Eco®, Screw terminal, with wire protection	0.75 – 2.5	19 41 020 2601	19 41 020 2701	male -34,234,3
				34,2 — 35,8 — 35
Coding element, plastic		09 12 000 9901	09 12 000 9902	12.7 28.6 29 30 30 30 30 30 30 30 30 30 30 30 30 30



Han-Eco Number of contacts

28+ 😩

500 V 16 A

Identification	Wire cross section (mm²)	Part n	umber female	Drawing Dimensions in mm
Han-Eco®, Screw terminal, with wire protection	0.75 – 2.5	19 41 028 2601	19 41 028 2701	female - 34,2 35,8 35,8 35,8 35,8 35,8 35,8 35,8 -
Coding element, plastic		09 12 000 9901	09 12 000 9902	12.7 78.6 5 4 2 23.5 23.6 2 28.6



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 V 0

Flammability (hoods/housings) acc. to UL 94

Flammability acc. to NFF 16 101 / 16 102

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

Degree of protection acc. to IEC IP65

60529

Material (hoods/housings) polyamide, fibre-glass rein-

forced

F2 / I3

RAL 9005 (black) Colour (hoods/housings)

Material (locking lever) polyamide, fibre-glass rein-

forced

Colour (locking lever) RAL 9005 (black)

Material (seal) NBR

Colour (seal) RAL 9005 (black)

Specifications and approvals

IEC 61984



Han-

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

Size 10 A



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

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	

Size 16 A



Identification	Cable entry	Part number	Drawing Dimensions in mm	
Han-Eco®, Surface mounted housings with integrated cable gland, with cover, side entry	1xM20 1xM25 2xM20 2xM25	19 46 116 0252 19 46 116 0253 19 46 116 0292 19 46 116 0293		Han- Eco
Han-Eco®, Cable to cable housings, top entry	1xM20 1xM25	19 46 116 0435 19 46 116 0436		
				29 15



double locking lever

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	89 00 0
Han-Eco®, Hood with integrated cable gland, top entry	1xM32	19 41 106 0422	Ø13-21
Han-Eco®, Protection cover for hoods		19 41 006 5406	
Han-Eco®, Protection cover for hoods, with securing flex		19 41 006 5407	61 24



Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-Eco®, Bulkhead mounted housings		19 41 006 0301	panel cut out 70 14,2
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	12,2 — 84 — 37,4 — 68 — 72,2 — 68 — 72,2 — 68 — 72,2 — 68 — 73,4 — 68 — 68 — 68 — 68 — 68 — 68 — 68 — 6
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	9, 811. xou 82. xou 18. xou 18

Size 6 B



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

Han-

Eco



double locking lever

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	7, 89
Han-Eco*, Hood with integrated cable gland, top entry	1xM32	19 41 110 0422	Ø13-21
Han-Eco®, Protection cover for hoods		19 41 010 5406	
Han-Eco®, Protection cover for hoods, with securing flex		19 41 010 5407	79 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0



Drawing Dimensions in mm Identification Cable entry Part number Han-Eco®, 19 41 010 0301 -58,3 Bulkhead mounted housings 93 panel cut out Han-Eco®, 1xM32 19 41 010 0232 Surface mounted housings, 2xM32 19 41 010 0272 side entry 19 41 110 0232 19 41 110 0272 1xM32 Han-Eco®, Surface mounted housings with integrated 2xM32 cable gland, side entry 1xM32 19 41 010 0722 Han-Eco®, Cable to cable housings, top entry 19 41 110 0722 1xM32 -SW36-Ø13-21 → Cable to cable housings with integrated cable gland, top entry max.119,6 79,7

Han-

Eco



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



double locking lever

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	57
Han-Eco [®] , Hood with integrated cable gland, top entry	1xM40	19 41 116 0423	Ø16-28 - 94 - 94
Han-Eco®, Protection cover for hoods		19 41 016 5406	
Han-Eco®, Protection cover for hoods, with securing flex		19 41 016 5407	10 10 10 10 10 10 10 10 10 10 10 10 10 1



			Drawing
Identification Han-Eco®, Bulkhead mounted housings	Cable entry	Part number 19 41 016 0301	Drawing Dimensions in mm
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	11,2 105 105 50,2 82-91 50,2 105 50,2 105 50,2 105 50,2 105 50,2
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	80. SWL6 - SWL6
Han-Eco®, Protection cover for housings, with securing flex		19 41 016 5404	34 22 22 23 23 24 25 25 27 27 27 27 27 27 27 27 27 27 27 27 27

Size 16 B



	Identification	Cable entry	Part number	Drawing Dimensions in mm
Han- Eco	Identification Han-Eco*, Protection cover for housings		Part number 19 41 016 5405	Drawing Dimensions in mm
29 24				



double locking lever

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	57—121
Han-Eco®, Hood with integrated cable gland, top entry	1xM40	19 41 124 0423	Ø16-28
Han-Eco®, Protection cover for hoods		19 41 024 5406	
Han-Eco®, Protection cover for hoods, with securing flex		19 41 024 5407	125 125 121 121 121 121 121 121



Drawing Dimensions in mm Identification Cable entry Part number Han-Eco®, 19 41 024 0301 Bulkhead mounted housings panel cut out 19 41 024 0233 19 41 024 0273 Han-Eco®, Surface mounted housings, 1xM40 2xM40 side entry 1xM40 19 41 124 0233 Surface mounted housings with integrated 2xM40 19 41 124 0273 cable gland, side entry 137 -146 -- 50,2 - Han-Eco®, Cable to cable housings, 19 41 024 0723 1xM40 top entry 19 41 124 0723 1xM40 - Ø16-28 Cable to cable housings with integrated cable gland, top entry 19 41 024 5404 Han-Eco®, Protection cover for housings, with securing flex

Han-

Eco

Size 24 B



Identification	Cable entry	Part number	Drawing Dimensions in mm	
Identification Han-Eco®, Protection cover for housings	Cable entry	Part number 19 41 024 5405	Drawing Dimensions in mm	Han-Eco
				29 27

Hoods/housings for outdoor applications



Features

Han-Eco

- · 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 Flammability (hoods/housings) acc. to UL 94

-40 °C ... 125 °C V 0

Flammability acc. to NFF 16

F2 / I3

101 / 16 102

Flammability acc. to EN 45 545- Class R22: HL1, HL2, Class R23: HL1, HL2, HL3, Class R23: HL1, HL2, HL3, Class

R24: HL1, HL2, HL3

Flammability (locking lever) acc. V 0

to UL 94

Degree of protection acc. to IEC IP65

60529

Material (hoods/housings)

polyamide, fibre-glass rein-

Colour (hoods/housings)

RAL 9005 (black)

Material (locking lever)

polyamide, fibre-glass rein-

forced

Colour (locking lever)

RAL 9005 (black) FPM

Material (seal) Colour (seal)

RAL 7001 (silver-grey)

Specifications and approvals

IEC 61984





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

Hoods/housings for outdoor applications

Size 10 A



	Identification	Cable entry	Part number	Drawing Dimensions in mm
-	Han-Eco®, Surface mounted housings with integrated cable gland, with cover, side entry	1xM20 1xM25 2xM20 2xM25	19 46 310 0252 19 46 310 0253 19 46 310 0292 19 46 310 0293	
	Han-Eco*, Cable to cable housings, top entry	1xM20 1xM25	19 46 110 0435 19 46 110 0436	
9				



Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-Eco®, Hood with integrated cable gland, top entry	M20 M25	19 46 316 0445 19 46 316 0446	
Han-Eco®, Hood with integrated cable gland, side entry	M20 M25	19 46 316 0545 19 46 316 0546	
Han-Eco®, Bulkhead mounted housings		19 46 216 0301	
Han-Eco®, Bulkhead mounted housings, with cover		19 46 216 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	

Size 16 A



	Identification	Cable entry	Part number	Drawing Dimensions in mm
	Han-Eco®, Surface mounted housings with integrated cable gland, with cover, side entry	1xM20 1xM25 2xM20 2xM25	19 46 316 0252 19 46 316 0253 19 46 316 0292 19 46 316 0293	
	Han-Eco*, Cable to cable housings, top entry	1xM20 1xM25	19 46 116 0435 19 46 116 0436	
9				



double locking lever

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	-57 - 61 -
Han-Eco®, Hood with integrated cable gland, top entry	1xM32	19 41 106 0422	Ø13-21 - 1.52 61 - 61
Han-Eco®, Protection cover for hoods		19 41 206 5406	
Han-Eco®, Protection cover for hoods, with securing flex		19 41 206 5407	58,3



Drawing Dimensions in mm Identification Cable entry Part number Han-Eco®, 19 41 206 0301 ----58,3---- Bulkhead mounted housings -80 -14,2 panel cut out Han-Eco®, Surface mounted housings, 1xM32 19 41 206 0232 19 41 206 0272 2xM32 side entry 19 41 306 0232 19 41 306 0272 1xM32 Han-Eco®, Surface mounted housings with integrated 2xM32 side entry Han-Eco®, 1xM32 19 41 206 0722 Cable to cable housings, top entry Han-Eco®, 1xM32 19 41 306 0722 Cable to cable housings with integrated top entry max.118,6

Han-

Eco



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



double locking lever

Cable entry	Part number	Drawing Dimensions in mm
1xM32	19 41 010 0522	2
1xM32	19 41 010 0422	
1xM32	19 41 110 0522	7, 89
1xM32	19 41 110 0422	Ø13-21
	19 41 210 5406	
	19 41 210 5407	79 1 1 1 24 24 58,3 - 74
	1xM32 1xM32	1xM32 19 41 010 0522 1xM32 19 41 110 0522 1xM32 19 41 110 0422 1xM32 19 41 110 0422



Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-Eco®, Bulkhead mounted housings		19 41 210 0301	93 - 14,2 panel cut out 83 - 57 - 60 - 60
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	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
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	SW36



	Identification	Cable entry	Part number	Drawir Dimensions	ng i in mm
	Han-Eco®, Protection cover for housings, with securing flex		19 41 010 5404	220 co. 250 los	74
	Han-Eco®, Protection cover for housings		19 41 010 5405		
9					



double locking lever

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	57 — 94
Han-Eco®, Hood with integrated cable gland, top entry	1xM40	19 41 116 0423	Ø16-28
Han-Eco®, Protection cover for hoods		19 41 216 5406	
Han-Eco®, Protection cover for hoods, with securing flex		19 41 216 5407	94 1 00 00 00 00 00 00 00 00 00 00 00 00 00



Drawing Dimensions in mm Identification Cable entry Part number Han® B, 19 41 216 0301 Bulkhead mounted housings 113 - 14,2 panel cut out -103-Han-Eco®, 1xM40 19 41 216 0233 Surface mounted housings, 2xM40 19 41 216 0273 side entry Han-Eco®, 1xM40 19 41 316 0233 Surface mounted housings with integrated cable gland, 2xM40 19 41 316 0273 side entry - 50,2 — 1**1**9 — **-** 50,2 **-**1xM40 19 41 216 0723 Han-Eco®, Cable to cable housings, top entry Han-Eco®, 1xM40 19 41 316 0723 --- Ø16-28 Cable to cable housings with integrated cable gland, top entry 138,3 -58,25 Han-Eco®, 19 41 016 5404 Protection cover for housings, with securing flex

Han-

Eco

Size 16 B



Identification	Cable entry	Part number	Drawing Dimensions in mm	
Identification Han-Eco®, Protection cover for housings	Cable entry	Part number 19 41 016 5405		Han-Eco
				29 41
				4 I



double locking lever

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	57 — 121
Han-Eco®, Hood with integrated cable gland, top entry	1xM40	19 41 124 0423	916-28 6.671 XDM
Han-Eco®, Protection cover for hoods		19 41 224 5406	
Han-Eco®, Protection cover for hoods, with securing flex		19 41 224 5407	126 7 08 00 00 00 00 00 00 00 00 00 00 00 00



Identification	Cable entry	Part number	Drawing Dimensions in mm
Han-Eco®, Bulkhead mounted housings		19 41 224 0301	- 58,2 58,2 58,2
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	11,2 11,2
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	\$16-28 \$\frac{16-28}{5000}\$\$ \$\frac{16-28}{5000}\$\$ \$\frac{1}{121}\$\$ \$\frac{1}{24-1}\$\$ \$\frac{1}{121}\$\$ \$\frac{1}{24-1}\$\$ \$\frac{1}{121}\$\$ \$\frac{1}{24-1}\$\$ \$\frac{1}{121}\$\$ \$\f
Han-Eco®, Protection cover for housings, with securing flex		19 41 024 5404	57 125

Size 24 B



	Identification	Cable entry	Part number	Drawing Dimensions in mm
Han- Eco	Han-Eco®, Protection cover for housings		19 41 024 5405	
	, (m			
29 44				



Han-Eco

1 1

Identification	Wire cross section (mm²)	Part n male	umber female	Drawing Dimensions in mm
Han-Eco*, PE contact module, with screw terminal with 09 99 000 0830 HARTING	1.5 – 16	19 41 001 2600	19 41 001 2700	75 14,6
Crimping tool also cable up to 25 mm² with ferrule adaptable				14,6

Technical characteristics

Technical characteristics

Material (accessories)

plastic

Colour (accessories) blac

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	58,3
Han-Eco®, Reduction sealing insert	M32 M40	19 41 000 5132 19 41 000 5142	Ø12-20 12-20



Han-Eco

Technical characteristics

Technical characteristics

Material (accessories)

NBR

Colour (accessories)

black

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



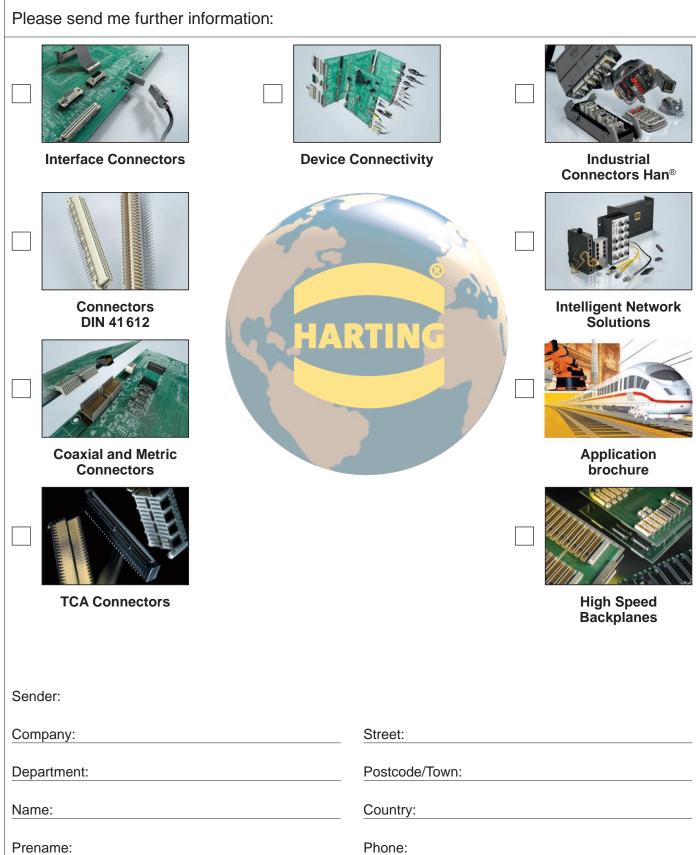
Photo courtesy: Robolights

Installation of multiple services through a single lightweight connector assembly

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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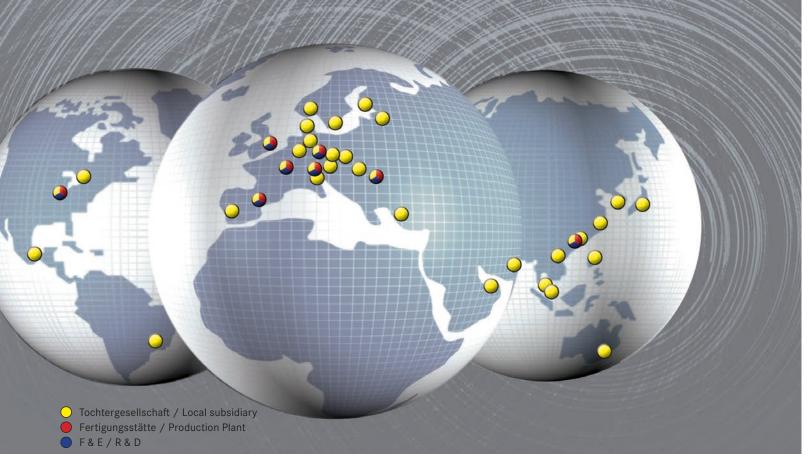


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