



Pushing Performance

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 32 subsidiary companies and worldwide distributors employing a total of approximately 3,000 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 14001:2004 are key elements here. We take a proactive stance to new requirements, which is why **HARTING** ranks among the first companies worldwide to have obtained the new 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.

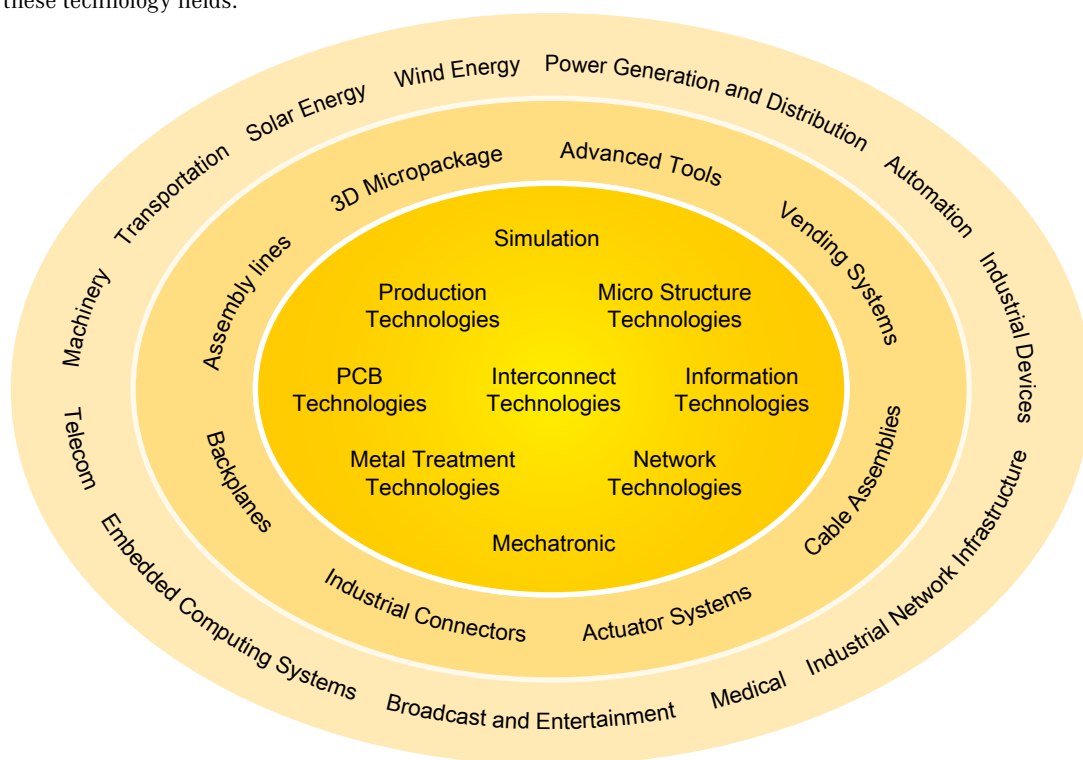
In order to ensure the future proof design of RF- and EMC-compatible interface solutions, the central HARTING laboratory (certified to EN 45001) provides simulation tools, as well as experimental, testing and diagnostics facilities all the way through to scanning electron microscopes. In the selection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



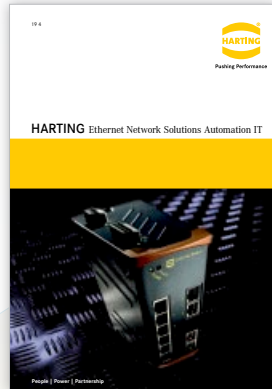
HARTING knowledge is practical know-how generating synergy effects.

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.



Automation IT

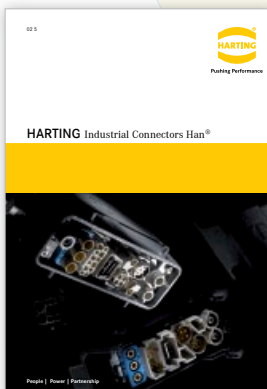


ETHERNET NETWORK SOLUTIONS

The Automation IT catalogue offers a consistent range of Ethernet network components and cabling products, which form the communication platform of convergent Automation IT

networks. The performance of network components opens up access to a wide range of applications for industrial buildings, manufacturing plants and machines in industrial environments.

Installation Connectivity

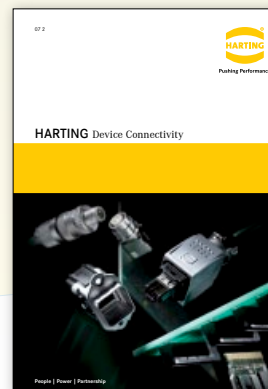


INDUSTRIAL CONNECTORS Han®

This catalogue documents the worldwide standard for industrial connectors. Han® connectors represent the preferential solution in the cable-to-cable interconnection of data, signal and power applications operating under the most

demanding conditions and meeting stringent requirements with regard to safe and detachable electrical connections with high degree of protection IP 65 / IP 67. Installations making use of Han® connectors impress with their rugged design, convenient handling and modularity of data, signal and power connections. Han® connectors represent the worldwide standard in industry, railway technology, as well as in power generation and distribution.

Device Connectivity



DEVICE CONNECTIVITY

The DeviceCon catalogue provides a universal, innovative product portfolio of PCB connections and of termination technology. The product range comprises board-to-board and cable-to-board connectors for industrial

electronic devices with degree of protection IP 20 to IP 65 / IP 67. These HARTING solutions offer appropriate device connectivity for a wide range of devices, ranging from sensors to industrial computers and their respective data, signal and power interfaces.

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Description of the Han-Eco® system



Han-Eco® – a new hood and housing series made of thermoplastic 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. Depending on size, versions of the hoods with straight or angled entries and housings, bulkhead mounting, can be supplied. The cable exits 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. 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.

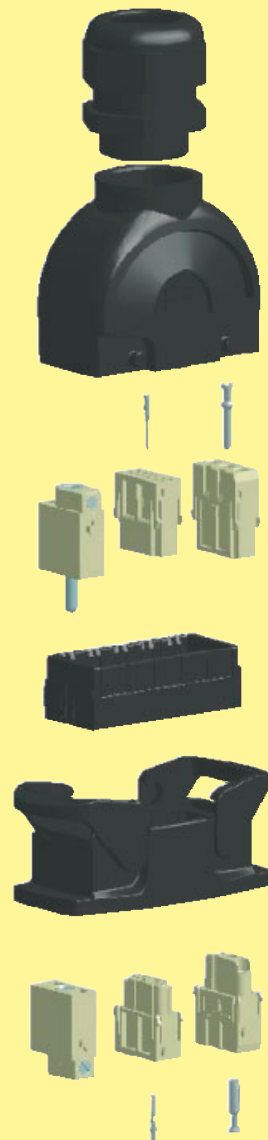
The Han-Eco® hoods and housings is compatible with the range of modules from the Han-Modular® series. One extra module fits into the Han-Eco® hoods and housing compared to the equivalent product in the Han® B Standard series. This special feature applies to all four sizes.

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
- Fast assembly process without tools
- Highly resistant to environmental stress, suitable for use in outdoor applications
- Complete range of modules from Han-Modular® series usable

Assembly details



Plastic hoods/housings for industrial applications / 2 lever locking system

Identification	Part number	Cable entry	Drawing	Dimensions in mm
Hood with integrated cable gland side entry	19 41 106 0522	M32		
Hood with integrated cable gland top entry	19 41 106 0422	M32		

Plastic hoods/housings for industrial applications / 2 lever locking system

Identification	Part number	Cable entry	Drawing	Dimensions in mm
Housings, bulkhead mounting	19 41 006 0301			

PE contact modules

Identification	Part number	Drawing	Dimensions in mm
Han-Eco® PE contact module with screw terminal Termination wire gauge 1.5 mm² ... 16 mm²			
Male insert	19 41 001 2600		
Female insert	19 41 001 2700		

Plastic hoods/housings for industrial applications / 2 lever locking system

Identification	Part number	Cable entry	Drawing	Dimensions in mm
Hood with integrated cable gland side entry	19 41 110 0522	M32		
Hood with integrated cable gland top entry	19 41 110 0422	M32		

Plastic hoods/housings for industrial applications / 2 lever locking system

Identification	Part number	Cable entry	Drawing	Dimensions in mm
Housings, bulkhead mounting	19 41 010 0301			

PE contact modules

Identification	Part number	Drawing	Dimensions in mm
Han-Eco® PE contact module with screw terminal Termination wire gauge 1.5 mm² ... 16 mm²			
Male insert	19 41 001 2600		
Female insert	19 41 001 2700		

Plastic hoods/housings for industrial applications / 2 lever locking system

Identification	Part number	Cable entry	Drawing	Dimensions in mm
Hood with integrated cable gland side entry	19 41 116 0523	M40		
Hood with integrated cable gland top entry	19 41 116 0423	M40		

Plastic hoods/housings for industrial applications / 2 lever locking system

Identification	Part number	Cable entry	Drawing	Dimensions in mm
Housings, bulkhead mounting	19 41 016 0301			

PE contact modules

Identification	Part number	Drawing	Dimensions in mm
Han-Eco® PE contact module with screw terminal Termination wire gauge 1.5 mm² ... 16 mm²			
Male insert	19 41 001 2600		
Female insert	19 41 001 2700		

Plastic hoods/housings for industrial applications / 2 lever locking system

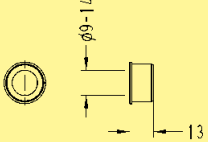
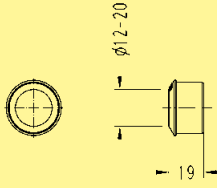

Identification	Part number	Cable entry	Drawing	Dimensions in mm
Hood with integrated cable gland side entry	19 41 124 0523	M40		
Hood with integrated cable gland top entry	19 41 124 0423	M40		



Plastic hoods/housings for industrial applications / 2 lever locking system




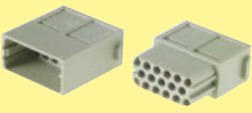
Identification	Part number	Cable entry	Drawing	Dimensions in mm
Housings, bulkhead mounting	19 41 024 0301			



PE contact modules





Identification	Part number	Drawing	Dimensions in mm
Han-Eco® PE contact module with screw terminal Termination wire gauge 1.5 mm² ... 16 mm²			
Male insert	19 41 001 2600		
Female insert	19 41 001 2700		






Identification	Part number	Drawing	Dimensions in mm
Han-Eco® Reduction sealing insert			
Size of cable gland M32	19 41 000 5132		
Size of cable gland M40	19 41 000 5142		
	09 99 000 0331		





Series	Han® 100 A Axial module	Han® 100 A Crimp module	Han® 70 A Axial module	Han® 40 A Axial module
Number of contacts	2	2	2	2
Modules	Axial screw terminal 	Crimp terminal 	Axial screw terminal 	Axial screw terminal 
Rated current	100 A	100 A	70 A	40 A
Rated voltage	1000 V	1000 V	1000 V	1000 V
Wire gauge	10 ... 38 mm ²	10 ... 35 mm ²	6 ... 22 mm ²	2.5 ... 10 mm ²
Series	Han® 40 A Crimp module	Han® C Axial module	Han® C module	Han® CC Protected module
Number of contacts	2	3	3	4
Modules	Crimp terminal 	Axial screw terminal 	Crimp terminal 	Crimp terminal 
Rated current	40 A	40 A	40 A	40 A
Rated voltage	1000 V	690 V	400 / 690 V	830 V
Wire gauge	1.5 ... 10 mm ²	2.5 ... 10 mm ²	1.5 ... 10 mm ²	1.5 ... 6 mm ²
Series	Han® CD module	Han E® module	Han® EE module	Han® EE Quick Lock module
Number of contacts	3	6	8	8
Modules	Crimp terminal 	Crimp terminal 	Crimp terminal 	Quick Lock termination 
Rated current	40 A	16 A	16 A	16 A
Rated voltage	830 V	500 V	400 V	400 V
Wire gauge	1.5 ... 6 mm ²	0.14 ... 4 mm ²	0.14 ... 4 mm ²	0.5 ... 2.5 mm ²
Series	Han E® Protected module	Han® EEE module	Han® ES module	Han® HV module
Number of contacts	6	20	5	2
Modules	Crimp terminal 	Crimp terminal 	Cage-clamp terminal 	Crimp terminal 
Rated current	16 A	16 A	16 A	16 A
Rated voltage	830 V	500 V	400 V	2900 / 5000 V
Wire gauge	0.14 ... 4 mm ²	0.14 ... 4 mm ²	0.14 ... 2.5 mm ²	0.5 ... 4 mm ²

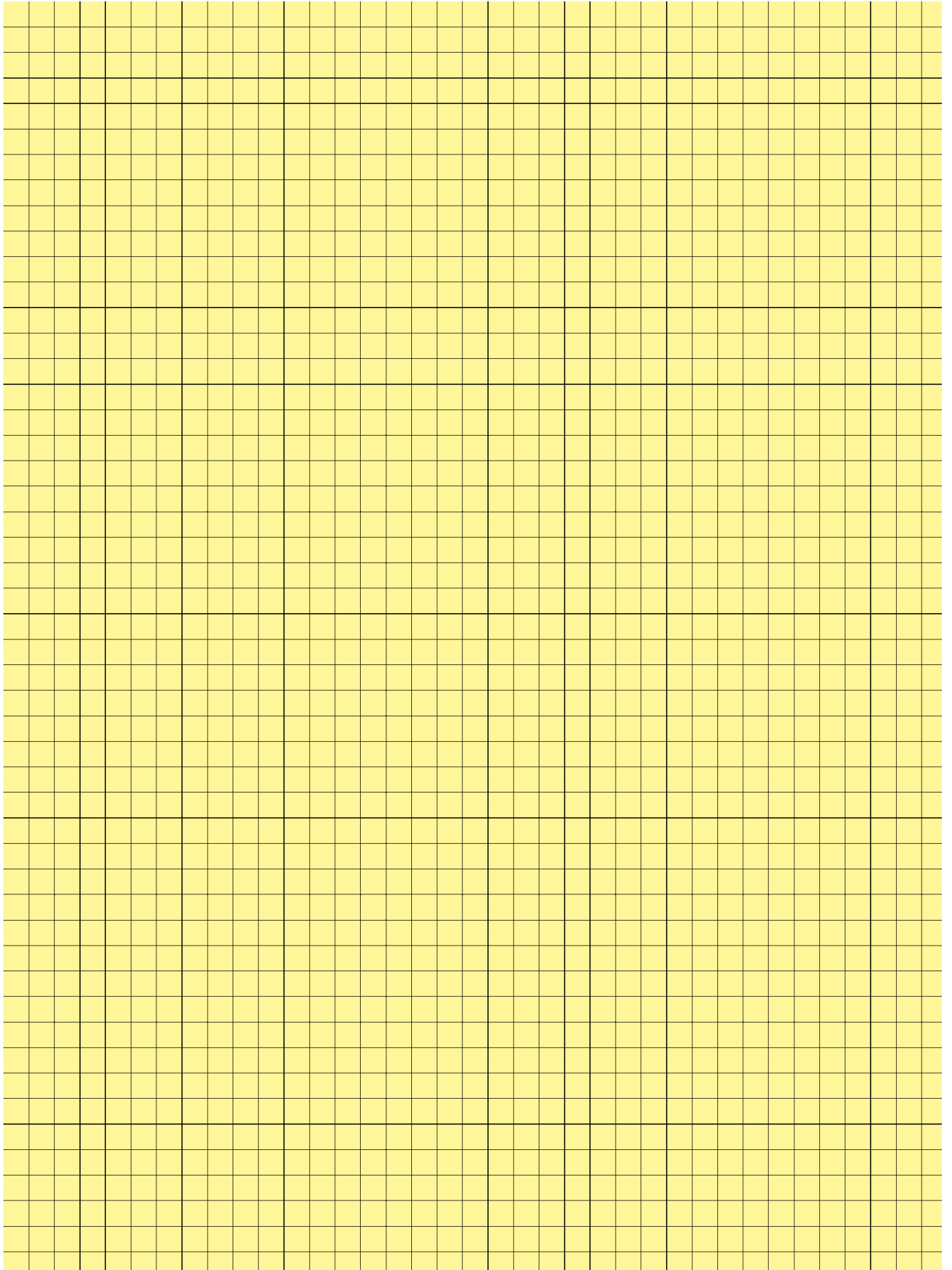
Series	Han® HV module	Han DD® module	Han DD® Quick Lock module	Han® DDD module
Number of contacts	2	12	12	17
Modules	Crimp terminal 	Crimp terminal 	Quick Lock termination 	Crimp terminal 
Rated current	40 A	10 A	10 A	10 A
Rated voltage	2900 / 5000 V	250 V	250 V	160 V
Wire gauge	1.5 ... 10 mm ²	0.14 ... 2.5 mm ²	0.25 ... 1.5 mm ²	0.14 ... 2.5 mm ²

Series	Han® High Density module	Han® D-Sub module		
Number of contacts	25	9		
Modules	Crimp terminal 	Crimp terminal 		
Rated current	4 A	5 A		
Rated voltage	50 V	50 V		
Wire gauge	0.08 ... 0.52 mm ²	0.08 ... 0.52 mm ²		

Series	Han® USB module	Han® FireWire module	Han® RJ45 module	Han® GigaBit module
Number of contacts	4	6	8	8
Modules	USB 2.0 	IEEE 1394 	Ethernet Cat. 5e 	Ethernet Cat. 6 

Series	Han-Quintax® module					
Number of contacts	2					
Modules						
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	<p>SC contact for GI 50; 62.5 / 125 µm</p> 	<p>Temperature I/O modules ID module</p>			



HARKIS® is the abbreviation for **HARTING-Katalog-Informationen-System** (HARTING catalogue information system).

HARKIS® is an electronic catalogue with part configuration and 3D components library. Here you can choose a connector according to your demands. Afterwards you are able to send your inquiry created with the listed parts. The drawings to every single part are available in PDF-format. The parts are downloadable in 2D-format (DXF) and 3D-format (IGES, STEP). The 3D-models can be viewed with a VRML-viewer.

You can find **HARKIS®** at www.HARKIS.HARTING.com. It is also available on CD-ROM and DVD.

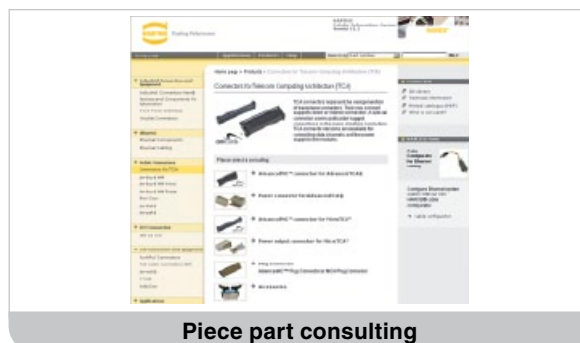
Product samples:
Fast-track delivery to your desk, free of charge

With immediate effect, the new express sample dispatching service in the HARTING catalogue information system (**HARKIS®**) allows customers to order samples immediately, easily and free of charge on express delivery. A broad selection from the device connectivity product portfolio is now available. In the case of unavailable items the system offers alternative products with similar features that can be requested at a mouse click.

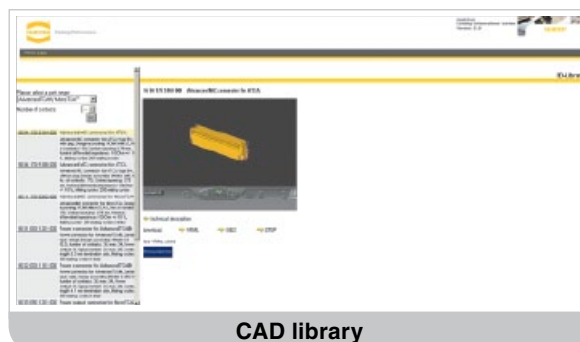
The samples are shipped within 48 hours after your order, free of charge. This service enables tremendous flexibility, especially in the design phase of projects.



HARKIS®



Piece part consulting



CAD library

Identification	Part number	
<p>HARKIS® CD-ROM Basic product catalogue</p>	<p>98 40 000 0405</p>	
<p>HARKIS® DVD Basic product catalogue 2D and 3D CAD files inclusive</p>		

General information

It is the customer's responsibility to check whether the components illustrated in this catalogue comply with different regulations from those stated in special fields of application which we are unable to foresee.

We reserve the right to modify designs in order to improve quality, keep pace with technological advancement or meet particular requirements in production.

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DVD HARKIS®



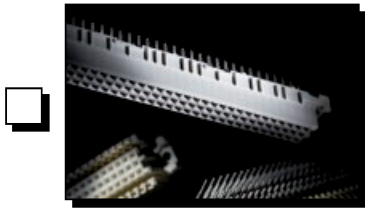
Interface Connectors



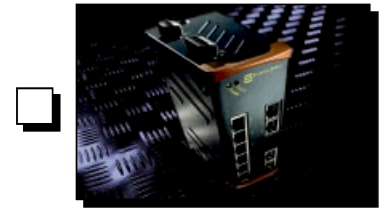
Device Connectivity



Industrial Connectors Han®



Connectors
DIN 41612



Ethernet
Network Solutions



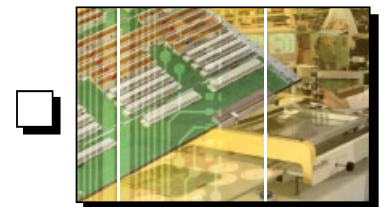
Coaxial and Metric
Connectors



Application
brochure



TCA Connectors



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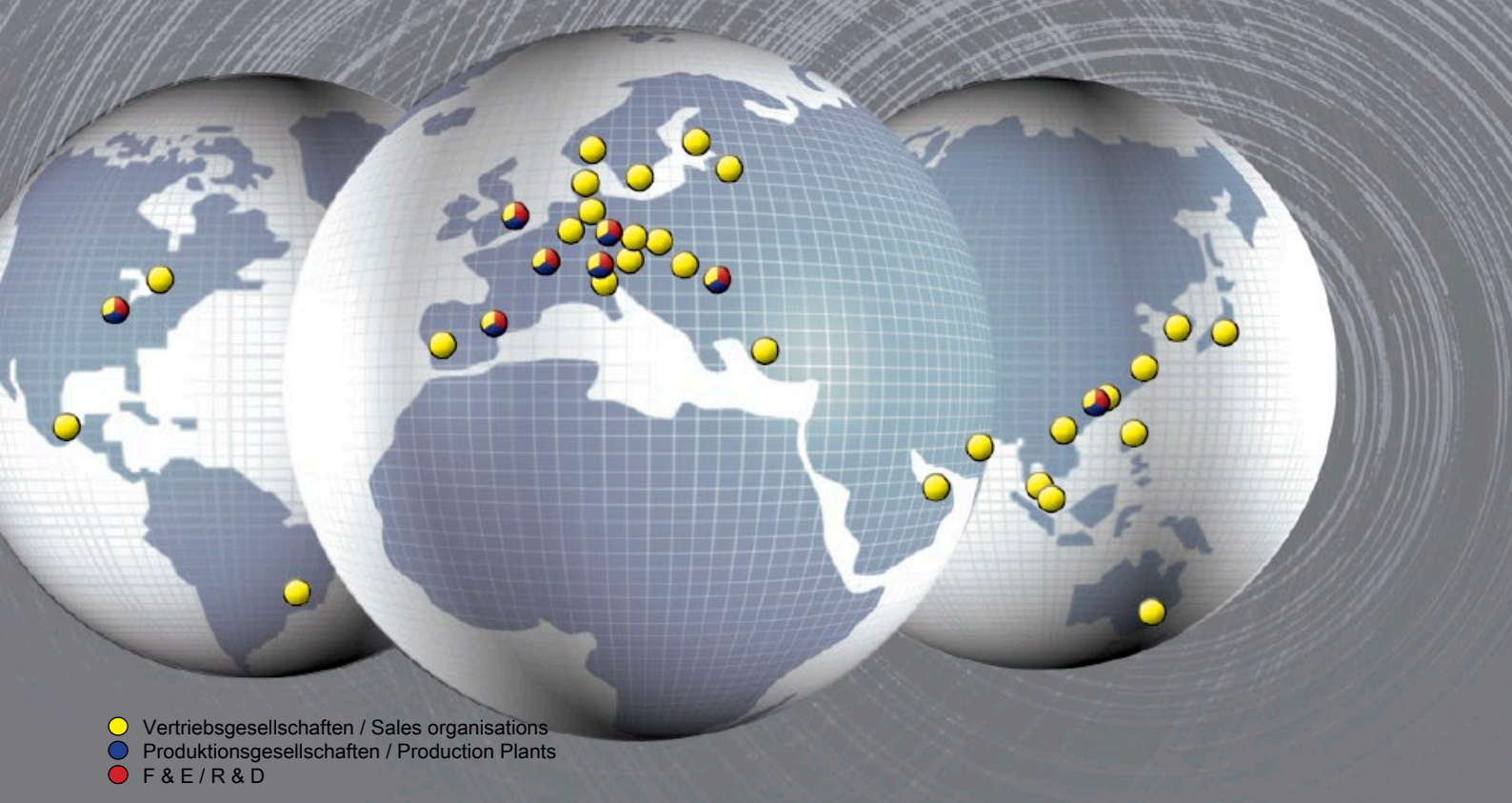
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