HARTING

Component Range

HARTING People | Power | Partnership

Quality – made in Germany

This is the basis of the HARTING Technology Group's fundamental principle: to supply the market and therefore our customers only with top quality products which meet the highest international standards. Our organisation is certificated to EN ISO 9001 and CECC 00114, part 1. Our central laboratory is accredited according to EN 45 001.

Throughout the electronic and electrical industries, due to a large investment in automatic high volume production machinery, HARTING is a reliable supplier.

Constant high quality volume production is maintained by stringent quality control systems.

HARTING products are used throughout the electrical and electronic industries wherever connectors, inter-connection systems and solenoids are required and specifically where data processing, control and measurement applications are involved, e.g. from microprocessors to automatic car assembly lines.

Our marketing structure is based on the theory of proximity to the customer: you will find subsidiaries in 23 countries around the world and agencies in many other countries.

Find out more about HARTING products.

We will be pleased to advise you on existing products and our development programme. Information is freely available in full colour, comprehensive, easy to use catalogues.

To obtain your detailed information please use the detachable reply coupon.

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Industrial connectors Han®

HARTING industrial connectors, with degree of protection IP 65/68 for secure, robust and pluggable electrical connections for use in the most demanding industrial environments. The product range also has inserts for sensitive signal transmissions through to modular contacts for energy transmissions up to 650 A.

Distinct features/ advantages :	On-the-spot-installation of machines and plants
	Disassembly and reassembly of production lines when moved
	Quick exchange of cables (i.e. in case of cable break)
	Connection of test and diagnostic devices (i.e. on vehicles)
	Exchange of production units for a model change etc.
Numbers of contacts:	1 – 216 poles + PE
Rated voltage:	25 V up to 5000 V
Rated current:	5 A up to 650 A
Terminations:	Screw terminal Crimp terminal HARAX® insulation displacement contact (IDC) Cage clamp terminal Axial screw terminal PCB solder terminal Solder and wrap terminal
Accessories:	Protection covers and cable glands/clamps
Approvals:	UL, CSA for inserts Nema 4/12 for hoods and housings CCC

EN ISO 9001 and 14001 certified

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Components for cabinets and boxes

Connectors

Series:	Han-Snap®
	Series for connectors within closed electrical operating environments

Frontpanel interfaces

Series:	Han-Port®
	Single- and double frames for power and signals
	Plug sockets for European and international markets
	Data inserts using standard interfaces

PCB Adaptor

Series:	Han® Q ; Han DD®; Han E®; Han-Modular®
Type:	Han® Q 5/0, Han® Q 7/0 Han DD® Han E® Han DD® module, Han® axial screw module

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Components for energy transfer and distribution

Energy distribution

Series:	Han-Power®
Types:	Han-Power® S Han-Power® T

Connectors

Series:	Han® Q, Han-Compact®
Types:	Han® Q 5/0 Han® Q 7/0 Han® Q 8/0 Han® Q 17 Han® Q 4/2

System cables

Number of contacts:	5 – 17
Working voltage:	max. 500 V
Working current:	max. 40 A
Fields of application:	Transfer of power
Approvals:	UL, CSA

EN ISO 9001 and 14001 certified

Fibre optic data link systems and components

Electro-optic converters:	Solutions for optical wavelengths 660 nm, 850 nm and 1300 nm
	Optical transmitter and receiver for F-ST and F-SMA
	Special versions with up to 16 optical elements
	Optical transceivers for M12 connectors
Connectors:	Simplex and multipole connectors for glass and polymer optical fibres
	Quick assembly connectors for polymer optical fibres
	Contacts for glass and polymer optical fibres for use in Industrial Han® connectors
	Connectors up to IP 68
	M12 connectors for fibre optic
Cables:	For in- and outdoor applications
	Hybrid cables
Cable assemblies:	Cable assemblies with fibre optic and hybrid cables
	Customer specific harnesses
Accessories:	Tools for connector assembly
	and test equipment for service purposes

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Devices and system components for automation

M8- and M12-connectors with *HARAX*® rapid termination technique

Types:	M8-, M12-connectors, sensor-/actuator boxes, panel feed through, valve connector
Number of contacts:	3 – 4
Working voltage:	max. 250 V
Working current:	max. 6 A
Fields of application:	Electrical sensors and actuators, automation technology

***HARAX*® M12-L**

Types:	This robust family of connectors is based on the standard M12 connector pattern. It is specially developed for two cores Ethernet cabling.
Assembly:	One-site assembly for cables with diameters from AWG 22 to AWG 24 is possible without special tools. *HARAX*® IDC termination technology allows multiple use of the connector.
Variants:	Data IP 67 shielded, with D coding
Specifications:	Transmission properties in accordance with Category 5, ISO/IEC 11801:2002 PROFINET approval for Industrial Ethernet

EN ISO 9001 and 14001 certified

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Solutions for PROFIBUS®

Our network components for PROFIBUS® are designed to be used directly in the field. The high degree of protection up to IP 65 / IP 67 and the implementation of robust metal housings make our components suitable for rough industrial environment. The cabling system is *DESINA*® conform.

Advantages:	Reduced termination for setting up industrial networks
	No need of add. termination box
	Space-saving, can be mounted directly within machines and installations
	Plug & Play installation
PROFIBUS®:	Media converter PROFIBUS® / F.O. PROFIBUS®-repeater
	Transmission rates up to 12 Mbit/s Standard Han-Brid® Hybrid connection Degree of protection up to IP 65 / IP 67
Accessories:	Panel feed-through

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Solutions for Industrial Ethernet

Our network components for Industrial Ethernet are designed to be used directly in the field. The high degree of protection up to IP 65 / IP 67 and the implementation of robust metal and plastic housings make our components suitable for rough industrial environment and almost all applications without switch cabinets or termination boxes.

Advantages:	Reduced termination for setting up industrial networks
	No need of add. termination boxes
	Space saving, can be mounted directly within machines and installations
	Plug & Play installation
Ethernet Switches:	Fast Ethernet (data transmission rate up to 100 Mbit/s)
	Ethernet interfaces according to the PROFINET standard (conformance class A up to E) and ODVA standard
	Active network components (IP 30) for control cabinets; up to IP 67 for applications directly in the field
	Extended temperature range and mechanical stability for highest industrial requirements
Industrial Outlets:	For structured industrial building network according to the ISO/IEC 11801:2002 standard
	Data transmission capacity acc. to Category 5 and 6, ISO/IEC 11801:2002 and EN 50 173-1
	Ethernet interfaces according to the PROFINET and ODVA standard. Interfaces in acc. to the standard for generic building cabling (ISO/IEC 24702)
	Optimized termination technology with high data security. Outlets (IP 30) for control cabinets; up to IP 67 for applications directly in the field

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Solutions for Industrial Ethernet

Connectors

HARTING RJ Industrial®:	This modular family of connectors is based on the standard RJ45 connector pattern. It is specially developed for two cores Ethernet cabling.
Assembly:	On-site assembly for cables with diameters from AWG 22 to AWG 24 is possible without special tools. *HARAX*® IDC termination technology allows multiple use of the connector.
Variants:	Data IP 20 Data IP 67 integrated in a Han® 3A hood Data IP 67 integrated in a Push Pull hood Hybrid IP 67 integrated in a Han® 3A hood
Specifications:	Transmission properties in accordance with Category 5 and Category 6, ISO/IEC 11801:2002 PROFINET approval for Industrial Ethernet
***HARAX*® M12:**	This robust family of connectors is based on the standard M12 connector pattern. It is specially developed for two cores Ethernet cabling.
Assembly:	One-site assembly for cables with diameters from AWG 22 to AWG 24 is possible without special tools. *HARAX*® IDC termination technology allows multiple use of the connector.
Variants:	Data IP 67 shielded, with D coding
Specifications:	Transmission properties in accordance with Category 5, ISO/IEC 11801:2002 PROFINET approval for Industrial Ethernet

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Solutions for Industrial Ethernet

Cable and cable assemblies

Cable

Fields of application:	Robust Ethernet cables, specially designed for industrial applications. Specified for Ethernet cabling according to PROFINET specifications, if applicable.
Cable types:	2 cores, for fixed, flexible, power chain and outdoor installations
	4 cores, for flexible and outdoor installations
	Hybrid cables with 4 data cores and 4 power supply cores, for flexible installations
Assembly:	Specially designed for assembly to the HARTING RJ Industrial® family of connectors.
Transmission properties:	Category 5 and 6 in accordance with ISO/IEC 11801:2002

Cable assemblies

Fields of application:	Assembled and tested system cables for the structured cabling of Industrial Ethernet networks, based on RJ45 connectors. In accordance with the PROFINET guideline, if applicable.
Cable type:	All HARTING RJ Industrial® Ethernet Twisted Pair Cables
Transmission properties:	Class D and E in accordance with ISO/IEC 11801:2002, 100 % tested
Connectors:	All HARTING RJ Industrial® connectors. IP 20 data variant is available overmoulded as well.
Cable length:	1.5 m, 3 m, 5 m, 10 m, 20 m, 50 m, 100 m

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PCB connectors
Contact spacing 2.54 mm

Connectors DIN 41612	acc. to IEC 60 603-2 contact spacing 2.54 mm
Types:	B, C, D, E, F, FM, H, MH, M, Q, R, R (HE 11), short types 2B, 2C, 3C, 2F, F9, H 3, 2Q, 2R, ***har-bus® 64*** for VME 64x (acc. to IEC 61 076-4-113)
Number of contacts:	3 – 160
Working current:	2 – 15 A max. 40 A (special contacts)
Terminations:	Straight and angled solder pins Solder lugs Press-in technique SMC (Surface Mount Compatible) types Crimp terminal Wrap posts 0.6 x 0.6 and 1 x 1 mm Insulation displacement terminal Faston blade Cage-clamp terminal
Accessories:	Extensive range of complementary hoods made from plastic, metallized plastic or full metal Fixing brackets and interfaces Shrouds Tooling for press-in and crimp termination
Service:	Concepts for SMC and press-in technique
Approvals:	UL, VDE, IEC, CECC

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Metric connectors
Contact spacing 2.5 and 2 mm

Metric connectors

har-bus® HM/HM+	acc. to IEC 61 076-4-101
with 5 resp. 8 rows	contact spacing 2 mm / CompactPCI
Types:	A, AB19, AB22, AB25, B19, B22, B25, C, D, DE, E, Monoblock 47 (A + B22)
	SMC (Surface Mount Compatible) types
Number of contacts:	max. 308, incl. shielding
	max. 220 signal contacts
har-bus® HM 6 row	Extension of IEC 61 076-4-101
	contact spacing 2 mm
Types:	Modules with optional features as guiding, coding and end wall
	SMC types
Number of contacts:	72 or 144 signal contacts
har-bus® HM Power	
Types:	Straight female press-fit modules
	Angled male press-fit and SMC modules
	Lagging / leading contacts
Working current:	max. 23 A at 70 °C
har-pak®	acc. to DIN 41 642 / IEC 61 076-4-100
	contact spacing 2.5 mm
Types:	1 SU, 2 SU, 2.3 SU, 4 SU, 5.4 SU, 9 SU and 10 SU (1 System Unit = 25 mm)
Number of contacts:	1 up to 475
Working current:	max. 4 A

All connector families

Accessories:	Tooling for press-in termination
Service:	Shielding effectiveness measurements
	Signal integrity analysis
	Computer simulations (3D-FEM)
	SPICE modelling
	Concepts for SMC technique
Approvals:	UL, CSA, VDE, IEC, CECC

EN ISO 9001 and 14001 certified

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Telecom Computing Architecture (TCA) connectors acc. to PICMG specification

AdvancedMC™ connector for AdvancedTCA®

According to:	PICMG AMC.0 specification
Type:	B+ Right angled card edge connector for direct mating with Advanced Mezzanine Cards (AdvancedMC™). The connector is mounted on an AdvancedTCA® carrier board.
Number of contacts:	170
Contact spacing:	0.75 mm
Termination:	Press-in needle-eye contacts, 0.55 mm pcb hole diameter
High speed transmission:	Suitable for 12.5 Gbps applications

AdvancedMC™ connector for MicroTCA™

According to:	PICMG MicroTCA.0 specification
Type:	Standard signal connector Straight card edge connector for direct mating with Advanced Mezzanine Cards (AdvancedMC™). The connector is mounted on the MicroTCA™ backplane.
Number of contacts:	170
Contact spacing:	0.75 mm
Termination:	Press-in needle-eye contacts, 0.55 mm pcb hole diameter
High speed transmission:	Suitable for 12.5 Gbps applications

Both connector families

Accessories:	Tooling for press-in termination
Design-in support:	Signal integrity data (S-parameter, TDR, eye-diagrams) Simulation data and models (e.g. SPICE) Test boards and 3D models (STEP, IGES)

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Mini Coax
connector system

Mini Coax

Types:	1 SU, 1.25 SU, 1.5 SU (1 System Unit = 25 mm)
Number of contacts:	2, 4, 6, 8 and 10 (other loadings on request)
Frequency range:	0 – 2.5 GHz
Nominal impedance:	50 Ω
Termination:	Press-in technique

Mini Coax+

Frequency range:	0 – 4 GHz
Nominal impedance:	50 Ω
Termination:	SMT / SMC (Surface Mount Compatible)

Both connector families

Accessories:	Tooling for press-in termination Pre-assembled cables Termination loads
Service:	Shielding effectiveness measurements Signal integrity analysis Computer simulations (3D-FEM) SPICE modelling
Approvals:	UL, VDE, IEC, CECC

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Standard, IP 67
subminiature D connectors

D-Sub	acc. to CECC 75 301-802
Number of contacts:	9, 15, 25, 37, 50
Working current:	2 – 7.5 A
Fields of application:	Industrial electronics, office electronics, information and telecommunication technology.
Terminations:	Solder buckets Straight and angled solder pins European, US and low-profile footprint SMC (Surface Mount Compatible) types Wrap terminals Crimp terminals Insulation displacement termination Press-in technique
Accessories:	Extensive range of hoods: plastic, metallized plastic, plastic with internal metal plate and full metal with a large choice of locking systems.
Approval:	UL

D-Sub IP 67	acc. to DIN 40 050, IEC 529
Number of contacts:	9, 15, 25, 37, 50
Working current:	5 A
Fields of application:	Any market where liquid ingress is forbidden like Industrial, Medical, Machinery and Transportation.
Terminations:	Rear panel mount straight and angled for pcb application Rear and front panel mount solder cup Solder cup for cable inside application in conjunction with IP 67 hood range
Accessories:	IP 67 hoods black or metallized thermoplastic with a large range of screws Front sealing rubber for full IP 67 mated system application
Approval:	UL

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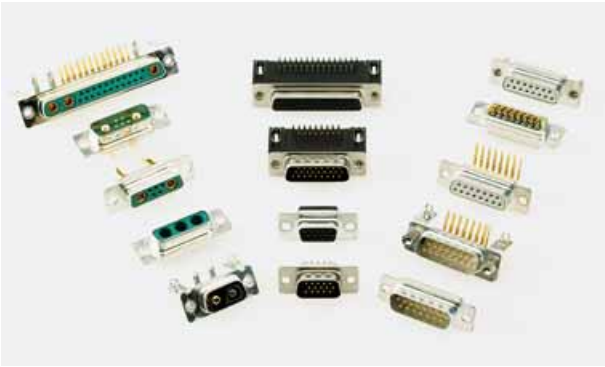
Mixed, high density, filter subminiature D connectors



D-Sub mixed	acc. to DIN 41 652 T1 MIL-C 24 308
Versions:	2W2C, 3W3, 3W3C, 5W1, 5W5, 7W2, 7W7, 8W8, 9W4, 13W3, 13W6, 17W2, 21W1, 21WA4, 24W7, 25W3, 27W2, 36W4
Working current:	Signal 5 A; power up to 40 A
Terminations:	Solder cup Crimp terminals SMC (Surface Mount Compatible) types on request
Accessories:	Wide range of special contacts, like coaxial, power and high voltage Special accessories like blind mating kits

D-Sub high density	
Number of contacts:	15, 26, 44, 62, 78
Working current:	2 A max.
Terminations:	Straight and angled solder pins Crimp terminals

D-Sub filter	acc. to IEC 1000
Number of contacts:	9, 15, 25, 37
Working current:	7.5 A max.
Terminations:	Solder buckets Straight and angled solder pins SMC (Surface Mount Compatible) types
Accessories:	Various integrated filters possible with 47 pF, 470 pF, 1000 pF and 3900 pF ... All custom design possible (based on a contact by contact approach) D-Sub filter with mixed contacts available on request

All connector families	
Accessories:	Extensive range of hoods Tooling for crimp termination Special configurations on request
Fields of application:	Industrial, medical, telecom, computer and aerospace applications
Approval:	UL
	EN ISO 9001 and 14001 certified

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Compact Push Pull Power interfaces
EMI protected subminiature D interfaces

Push Pull Power

Fields of application:	Factory and building automation, industrial electronics, transportation, lighting and display technology, telecommunication and wireless networks
	Ideal for compact devices in harsh environments
Number of contacts:	4 or 2 + PE
Working current:	12 – 16 A
Working voltage:	48 V or 250 V
Protection class:	IP 67 and 65
Locking mechanism:	Push Pull one-hand locking
Housing material:	Plastic
Wire terminations:	Crimp terminal Solder terminal Cage clamp terminal
Accessories:	Protective caps, cable assemblies, tools

InduCom

Fields of application:	Transportation, machinery, factory automation
	For high requirements reg. EMC and mechanical stability
Number of contacts:	9, 15, 25, 37, 50
Working current:	2 – 7.5 A
Housing material:	Zinc die-cast
Cable terminations:	Crimp flange or cable clamp
Wire terminations:	Crimp terminal Solder terminal
Accessories:	Crimp flanges and ferrules, cable clamps, blind plugs, D-Sub contacts, complete field bus interfaces, tools

EN ISO 9001 and 14001 certified

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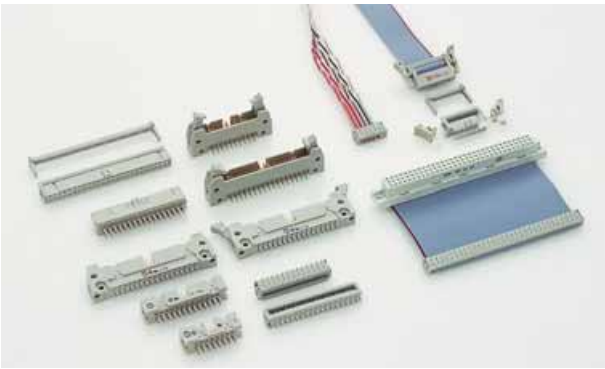
IDC connector systems for flat cables
Contact spacing 2.54 mm x 2.54 mm



Male and female connectors:	acc. to IEC 60 603-13, comply with MIL-C 83 503
Number of contacts:	6, 10, 14, 16, 20, 26, 30, 34, 40, 50, 60, 64
Working current:	1 A max.
Working voltage:	320 V
Terminations:	Female: IDC for flat cable Male standard and low profile: Straight and right angled solder pins Press-in technique SMC (Surface Mount Compatible) versions Wrap posts
Accessories:	Strain relief, locking lever, board lock, vacuum cover
Packaging:	Carton box, tape on reel, tube
Approval:	c UL us
Service:	Concepts for SMC and press-in technique

Transition:	2 rows, 4 rows, DIP
Number of contacts:	2 rows: 6, 8, 10, 14, 16, 20, 24, 26, 30, 34, 40, 50, 60, 64 4 rows: 10, 16, 20, 26, 34, 40, 50 DIP: 14, 16, 24, 28, 40
Working current:	1 A max.
Terminations:	IDC process for cable Direct solder to pcb Standard or kinked pin for 2 rows series
Assembly:	2 rows: pre-mounted cover 4 rows and DIP: separate cover

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Micro electronic connectors
Contact spacing 1.27 and 2 mm

har-mik®

Series I/O in accordance with:	• SCSI 2 – SCSI 3 • I.P.I.2 • HI.P.P.I • EIA/TIA 232 E (RS 232 E) • IEEE 1284 • IEEE 1496 (S-Bus)
Number of contacts:	20 – 100
Working current:	1 A
Fields of application:	Input/output interface for use in EDP, industrial and office electronics and telecommunication
Terminations:	Straight and right angled solder pins IDC for discrete wires IDC for flat cables Press-in technique SMC (Surface Mount Compatible) versions

har-link®	acc. to IEC 61076-4-107
Number of contacts:	10
Working current:	1.5 A
Fields of application:	Bus systems such as CompactPCI, S-Bus and VME
Terminations:	IDC (for male connector) Right angled solder pin (for female connector)

The *har-link®* connector system is a compact and robust pcb-to-cable interface with excellent data transmission properties for high speed networking and telecommunications (up to 2 Gbit/s per twisted pair).

Both connector families

Approval:	UL
	EN ISO 9001 and 14001 certified

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HARTING Integrated Solutions

HARTING Integrated Solutions (HIS) is the backplane and backplane system assembly facility for the HARTING group.

Manufacturing on three continents, in Northampton (England), Zhuhai (China) and Chicago (USA), HIS offers a complete 'Value Chain' of services for its customers, using common equipment, tooling and procedures.

Backplane design:	Cadence Allegro software Fast and accurate designs from our experienced team
Manufacturing:	Assembly standards to IPC610 Continuous in-house training Surface Mount – Pressfit – Wave Solder HARTING's own CPM range of presses Ability to handle large, high layer-count PCB's 'Fast-track' prototype service Vertical integration Cardframes, power supplies, thermal management
Test:	All assemblies fully tested and 'ready-to-run' State-of-the-Art robotic backplane test equipment Including optical inspection Cost-effective set-up
Project Management:	Full management of your backplane projects Design Prototypes Volume production

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