



Pushing Performance  
Since 1945



PEOPLE. POWER. PARTNERSHIP.

**HARTING** System cabling for Allen-Bradley® Armor™  
PowerFlex® AC Drives

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## Transforming customer wishes into concrete solutions



The HARTING Technology Group is skilled in the fields of electrical, electronic and optical connection, transmission and networking technology, 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/data-networking 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 housing technology and shop systems.

The HARTING Group currently comprises 53 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 termination, connection and infrastructure technologies, they are essential in enabling the modular construction of devices, machines and systems across an extremely wide range of industrial applications. Their reliability is a crucial factor guaranteeing smooth functioning in the manufacturing area, telecommunications, applications in medical technology – in short, connectors are at work in virtually every conceivable application area. Thanks to the ongoing development of our technologies, our customers enjoy investment security and benefit from durable, long-term functionality.

### **Wherever our customers are, we're there.**

Increasing industrialization is creating growing markets that are characterized by widely diverging demands and requirements. What these markets all share in common is the quest for perfection,

increasingly efficient processes and reliable technologies. **HARTING** is providing these technologies – in Europe, the Americas and Asia. In order to implement customer requirements in the best

possible manner, the **HARTING** professionals at our international subsidiaries engage in up-close, partnership-based interaction with our customers, right from the very early product development phase.

Our on-site staff 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 offer our customers the best possible solutions, on

request **HARTING** contributes a great deal more and is tightly integrated into the value-creation process.

From ready-assembled cables through to control racks or ready-to-go control desks. Our aim is to generate maximum benefit for our customers – with no compromises!

### **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 sophisticated network systems. Over the course of many years of

close, trust-based cooperation with its customers, the **HARTING** Technology Group has become one of the leading specialists globally for connector technology. We offer individual customers specific and innovative solutions that go beyond the basic standard functionalities. These tailored solutions deliver sustained results, ensure investment security and enable customers to achieve significant added value.

#### **Opting for HARTING opens up an innovative, complex world**

##### **of concepts and ideas.**

In order to develop and produce connectivity and network solutions serving an exceptionally wide range of connector applications in a

professional and cost-effective manner, **HARTING** not only commands the full array of conventional tools and basic technologies. Above and

beyond these capabilities, **HARTING** is constantly harnessing and refining its broad base of knowledge and experience to create new solutions that also ensure continuity. To secure its lead in know-how,

**HARTING** draws on a wealth of sources from its in-house research and applications.

Salient examples of these sources of innovative knowledge include microstructure technologies, 3D design and connection technology, high-temperature and ultrahigh-frequency applications that are

finding use in telecommunications and 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, aluminium and stainless steel.

#### **HARTING overcomes technological limitations.**

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 not only components, but comprehensive solutions attuned to individual customer requirements and preferences. The range of cost-effective solutions 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 (accredited according to DIN EN ISO/IEC 17025) employs simulation tools, as well as experimental, testing and diagnostics facilities all the way to Industrial computed tomography. In addition to product and process suitability considerations, lifecycle and environmental aspects play a key role in the selection of materials and processes.



**HARTING's knowledge is practical know-how that generates synergy effects.**

HARTING commands decades of experience with regard to the applications conditions involved in connections in telecommunications, computer, network and medical technologies, as well as industrial automation technologies, e.g. in the mechanical engineering and plant engineering areas, in addition to the power generation industry and the transportation sector. HARTING is

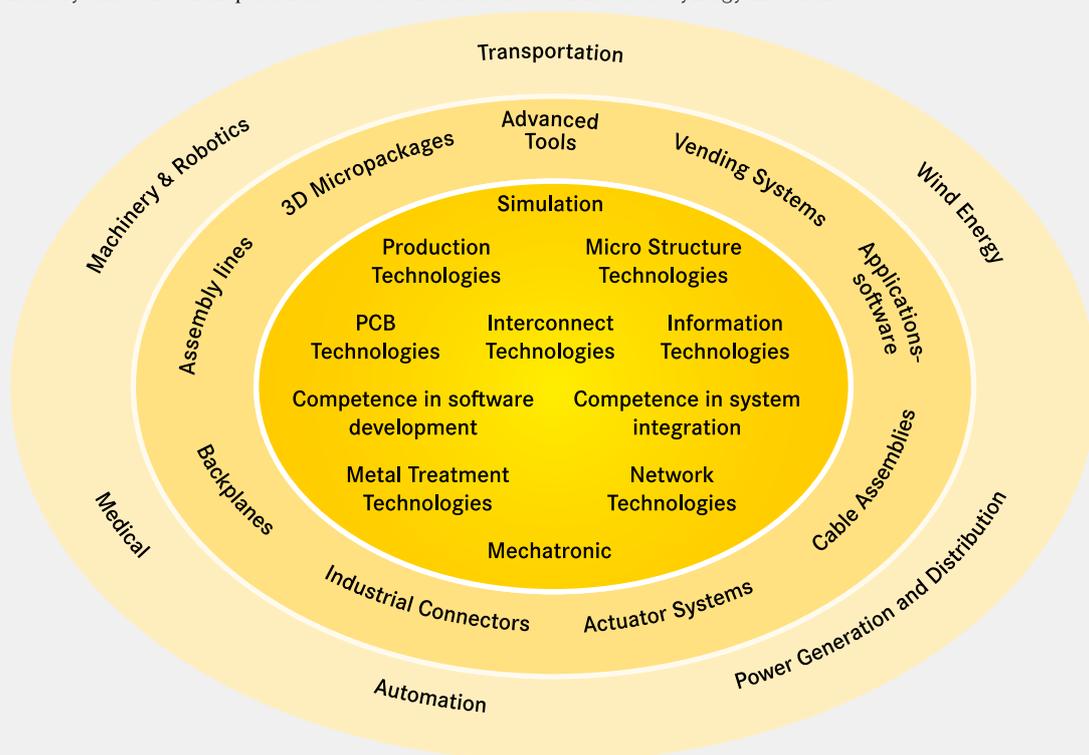
highly conversant with the specific application areas in all of these

technology fields. In every solution approach, the key focus is on the application. In this context, uncompromising, superior quality is our hallmark. Every new solution found invariably flows 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.

HARTING is synergy in action.



## *Order note*

*The articles and order numbers listed in this overview are customer specific part numbers.  
A binding quotation with your conditions you will receive via your responsible HARTING subsidiary company.  
If you don't find the right products for your application, please contact our technical support.*

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Publisher: HARTING*

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HARTING

Han® Q 4/2 Cordsets

## Features

**Cordset:** 4G6 mm<sup>2</sup> TC ER

**Design:**

- stranded bare conductor made of Cu
- stranded structure according to VDE 0295 cl. 5 / IEC 60228 cl. 5
- core insulation: PVC
- green-yellow protective conductor
- cores stranded in layers with optimal lay length
- outer jacket material: PVC, flame retardant
- outer jacket color: black
- unshielded
- oil-resistant

**Electrical and Technical Data:**

- nominal voltage: 600 V (UL)
- test voltage: 3000 V
- bending radius:
  - moved 7,5x outer diameter
  - unmoved 4,0x outer diameter

## Technical characteristics

- temperature range:
  - moved -5°C to +75°C
  - unmoved -25°C to +75°C
- Self-extinguishing and flame retardant acc. to CSA FT4
- IP Code: IP65

**Cable standards:**

- UL 1277
- AWM-Style 2587
- CSA-Std. C22.2 No. 210 I/II A/B
- NFPA 79

**Component materials:**

- Housing: PC
- Insert: PC
- Contact: Silver plated copper alloy
- Gland: PA6
- Sealing: TPE

**Compliance**

- RoHS compliant with exemption 6(c)

Identification	Part number	Product
Cordset Han® Q 4/2 one-sided socket straight	61 04 201 2741 LXXX	

**XXX: Cable length**

010 = 1,0 m    020 = 2,0 m    030 = 3,0 m    040 = 4,0 m    060 = 6,0 m    080 = 8,0 m    100 = 10 m    150 = 15 m

HARTING  
Han® Q 4/2 Cordsets

Identification

Part number

Product image

Cordset  
Han® Q 4/2 one-sided  
socket angled

61 04 201 2740 LXXX



**XXX: Cable length**

010 = 1,0 m    020 = 2,0 m    030 = 3,0 m    040 = 4,0 m    060 = 6,0 m    080 = 8,0 m    100 = 10 m    150 = 15 m

HARTING

Han® Q 4/2 Patchcords

## Features

**Cordset:** 4G6 mm<sup>2</sup> TC ER

**Design:**

- stranded bare conductor made of Cu
- stranded structure according to VDE 0295 cl. 5 / IEC 60228 cl. 5
- core insulation: PVC
- green-yellow protective conductor
- cores stranded in layers with optimal lay length
- outer jacket material: PVC, flame retardant
- outer jacket color: black
- unshielded
- oil-resistant

**Electrical and Technical Data:**

- nominal voltage: 600 V (UL)
- test voltage: 3000 V
- bending radius:
  - moved 7,5x outer diameter
  - unmoved 4,0x outer diameter

## Technical characteristics

- temperature range:
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- NFPA 79

**Component materials:**

- Housing: PC
- Insert: PC
- Contact: Silver plated copper alloy
- Gland: PA6
- Sealing: TPE

**Compliance**

- RoHS compliant with exemption 6(c)

Identification

Part number

Product image

Patchcord  
Han® Q 4/2 two-sided  
socket / post straight

61 04 202 2953 LXXX



**XXX: Cable length**

010 = 1,0 m    020 = 2,0 m    030 = 3,0 m    040 = 4,0 m    060 = 6,0 m    080 = 8,0 m    100 = 10 m    150 = 15 m

HARTING  
Han® Q 4/2 Patchcords

Identification

Part number

Product image

Patchcord  
Han® Q 4/2 two-sided  
socket / post angled

61 04 202 2952 LXXX



**XXX: Cable length**

010 = 1,0 m    020 = 2,0 m    030 = 3,0 m    040 = 4,0 m    060 = 6,0 m    080 = 8,0 m    100 = 10 m    150 = 15 m

## HARTING

### Han-Power® Field Attachable Connector Kits

Identification	Part number	Product image
<p>HARTING Han-Power® Field Attachable Connector Kit</p> <p><b>Kit Han Q 4/2 socket ang. Axial Screw</b></p> <ul style="list-style-type: none"> <li>• <b>Cross section:</b> 2,5 mm<sup>2</sup> - 6 mm<sup>2</sup> / 10-14 AWG</li> <li>• <b>Cable diameter:</b> 12-16 mm</li> <li>• <b>Rated current:</b> 40 A per contact</li> <li>• <b>Rated voltage:</b> 400 V / 690 V</li> <li>• <b>Number of contacts:</b> 4+PE</li> </ul>	<p>61 04 401 2726</p>	
<p><b>Kit Han Q4/2 socket str. Axial Screw</b></p> <ul style="list-style-type: none"> <li>• <b>Cross section:</b> 2,5 mm<sup>2</sup> - 6 mm<sup>2</sup> / 10 -14 AWG</li> <li>• <b>Cable diameter:</b> 12 -16 mm</li> <li>• <b>Rated current:</b> 40 A per contact</li> <li>• <b>Rated voltage:</b> 400 / 690V</li> <li>• <b>Number of contacts:</b> 4+PE</li> </ul>	<p>61 04 401 2727</p>	

HARTING

Han-Power® Energy Distributors

Identification	Part number	Product image
<p>HARTING Han-Power® Energy Distributor</p> <p><b>Han-Power® T Metall Han Q 4/2</b> Number of contacts 4 +  + 2 signal</p> <p><b>maximum input:</b> 40 A per power contact 400 / 690 V + 2 additional signal contacts 10 A 250 V</p>	<p>09 12 008 4720</p>	
<p><b>Han-Power® T Multi Han® Q 4/2</b> 4 power +  + 2 signal</p> <p><b>maximum input:</b> 17A per power contact 400 / 690 V + 2 additional signal contacts 2 A 24 V</p>	<p>61 12 203 0007</p>	

HARTING

Han-Power® Bulkhead housing for internal wiring

Identification	Part number	Product image												
<p>HARTING Han-Power® Bulkhead housing for internal wiring</p> <p><b>Han® Q 4/2 socket bulkhead AWG10 180 mm</b></p> <table border="0"> <tr><td>1</td><td>L1</td><td>1</td></tr> <tr><td>2</td><td>L2</td><td>2</td></tr> <tr><td>3</td><td>L3</td><td>3</td></tr> <tr><td></td><td>PE</td><td>gn/ye</td></tr> </table>	1	L1	1	2	L2	2	3	L3	3		PE	gn/ye	<p>61 04 201 2753</p>	
1	L1	1												
2	L2	2												
3	L3	3												
	PE	gn/ye												
<p><b>Han® Q 4/2 post bulkhead AWG10 180 mm</b></p> <table border="0"> <tr><td>1</td><td>L1</td><td>1</td></tr> <tr><td>2</td><td>L2</td><td>2</td></tr> <tr><td>3</td><td>L3</td><td>3</td></tr> <tr><td></td><td>PE</td><td>gn/ye</td></tr> </table>	1	L1	1	2	L2	2	3	L3	3		PE	gn/ye	<p>61 04 201 2754</p>	
1	L1	1												
2	L2	2												
3	L3	3												
	PE	gn/ye												
<p><b>Han®- Compact Screw-in adapter M25</b></p> <p>With this adapter, a Han® compact bulkhead can be mounted on a motor with M25 thread.</p>	<p>61 04 000 0039</p>													

- **Armenia:**  
refer to Russia
- **Australia**  
HARTING Pty. Ltd.  
Suite 11 / 2 Enterprise Drive Bundoora  
3083, University Hill Melbourne,  
Victoria  
Phone 1800 201 081  
(toll free calling within AUS)  
+61 3 9466 7088  
au@HARTING.com
- **Australia and Oceania:**  
refer to Australia
- **Austria**  
HARTING Ges.m.b.H.  
Deutschstraße 19  
1230 Wien  
Phone +43 161 621 21  
at@HARTING.com
- **Azerbaijan:**  
refer to Turkey
- **Baltic States:**  
refer to Finland
- **Belarus:**  
refer to Russia
- **Belgium**  
HARTING N.V.  
Z.3 Doornveld 23  
1731 Zellik  
Phone +32 2 466 0190  
be@HARTING.com
- **Bosnia Herzegovina:**  
refer to Austria
- **Brazil**  
HARTING Ltda.  
Alameda Caiapós, 643  
06460-110- Barueri - São Paulo  
Phone +55 11 5035 0073  
br@HARTING.com
- **Canada**  
HARTING Canada Inc.  
475 Dumont Avenue  
Suite 300  
Dorval, Quebec, H9S 5W2  
Phone +1 855 659-6653  
info.ca@HARTING.com
- **Central America and the Caribbean:**  
refer to USA
- **Central Asia:**  
refer to Russia
- **China**  
HARTING (Zhuhai) Sales Ltd.  
Room 3501, Grand Gateway I  
No. 1 Hong Qiao Road  
Xu Hui District  
Shanghai 200030  
Phone +86 21 3418 9758  
cn@HARTING.com
- **Croatia:**  
refer to Austria
- **Czech Republic**  
HARTING s.r.o.  
Mlýnská 2  
160 00 Praha 6  
Phone +420 220 380 495  
cz@HARTING.com
- **Denmark**  
HARTING ApS  
Resilience House  
Lysholt Allé 8  
7100 Vejle  
Phone +45 70 25 00 32  
dk@HARTING.com
- **Finland**  
HARTING Oy  
Teknobulevardi 3-5  
01530 Vantaa  
Phone +358 207 291 510  
fi@HARTING.com
- **France**  
HARTING France SAS  
ZAC Paris Nord 2  
181 avenue des Nations  
95934 ROISSY CDG  
Phone +33 1 4938 3400  
fr@HARTING.com
- **Germany**  
HARTING Deutschland  
GmbH & Co. KG  
Simeons carré 1, D-32427 Minden  
Phone +49 571 8896 0  
de@HARTING.com
- **Georgia:**  
refer to Russia
- **Great Britain**  
HARTING Limited  
Caswell Road  
Brackmills Industrial Estate  
NN4 7PW GB – Northampton  
Phone +44 1604 82 75 00  
salesuk@HARTING.com
- **Greece:**  
refer to Italy
- **Hong Kong**  
HARTING (HK) Limited  
Regional Office Asia Pacific  
3512, Metroplaza Tower 1  
223 Hing Fong Road  
Kwai Fong, N. T.  
Phone +852 2423 7338  
ap@HARTING.com
- **Hungary**  
HARTING Magyarország Kft.  
Fehérvári út 89-95  
1119 Budapest  
Phone +36 1 205 34 64  
hu@HARTING.com
- **India**  
HARTING (India) Private Limited  
7th Floor (West Wing)  
Central Square II  
Unit No.B 19 part, B 20 & 21  
TVK Industrial Estate  
Guindy, Chennai 600032  
Phone +91-44-43560415  
in@HARTING.com
- **Ireland:**  
refer to Great Britain
- **Israel:**  
refer to Turkey
- **Italy**  
HARTING S.R.L.  
Via dell' Industria 7  
20055 Vimodrone (MI)  
Phone +39 02 250801  
it@HARTING.com
- **Japan**  
HARTING K.-K.  
Yusen Shin-Yokohama  
1 Chome Bldg., 2F 1-7-9,  
Shin-Yokohama, Kohoku-ku  
Yokohama 222-0033  
Phone +81 45 476 3456  
jp@HARTING.com

- **Korean Republic**  
HARTING Korea Co. Ltd.  
B-B108, Woolim Lions Valley 5th  
302 Galmachi-ro, Jungwon-gu  
Seongnam-si, Gyeonggi-do 13201  
Phone +82 31 750 0380  
kr@HARTING.com
- **Kosovo:**  
refer to Austria
- **Macedonia:**  
refer to Austria
- **Malta:**  
refer to Italy
- **Mexico**  
HARTING Mexico S.A. de C.V.  
IOS Torre Virreyes  
Pedregal No. 24, Co. Molino Del Rey  
Suites 357 A, B, C  
Del Miguel Hidalgo, Mexico D.F. 11600  
Phone +1 800 123 0415  
HARTING.mexico@HARTING.com
- **Middle East:**  
refer to United Arab Emirates
- **Montenegro:**  
refer to Austria
- **Netherlands**  
HARTING B.V.  
Larenweg 44  
5234 's-Hertogenbosch  
Phone +31 736 410 404  
nl@HARTING.com
- **Norway**  
HARTING A/S  
Østensjøveien 36  
0667 Oslo  
Phone +47 22 700 555  
no@HARTING.com
- **Pakistan:**  
refer to United Arab Emirates
- **Poland**  
HARTING Polska Sp. z o.o.  
ul. Duńska 11  
54-427 Wrocław  
Phone +48 71 352 81 71  
pl@HARTING.com
- **Romania**  
HARTING Romania SCS  
Str. Europa Unita nr 21  
550018 Sibiu  
Phone +40 369 102 610  
ro@HARTING.com
- **Russia**  
LLC HARTING  
Sverdlovskaya nab., 44, lit. Yu, office 612  
195027, St. Petersburg  
Phone +7 812 327 6477  
ru@HARTING.com
- **Serbia:**  
refer to Austria
- **Singapore**  
HARTING Singapore Pte. Ltd.  
25 International Business Park  
#04-108 German Centre  
SGP-Singapore 609916  
Phone +65 6225 5285  
sg@HARTING.com
- **Slovakia**  
HARTING s.r.o.  
Slovakia branch  
Štefániková Trieda 71, (areál pivovaru)  
949 01 Nitra  
Phone +421 37 655 9089  
sk@HARTING.com
- **Slovenia:**  
refer to Austria
- **South Africa**  
HARTING South Africa Proprietary  
Limited  
Ground Floor, Twickenham Building  
The Campus, Cnr Main & Sloane Street  
Bryanston  
Johannesburg (Bryanston)  
2021  
Phone +27 (0) 11 575 0017  
za@HARTING.com
- **South America:**  
refer to Brazil
- **South Asia:**  
refer to Singapore
- **South Pacific:**  
refer to Australia
- **Spain**  
HARTING Iberia S.A.U.  
C/Viriato, 47 8ª Planta  
Edificio Numancia, 1  
08014 Barcelona  
Phone +34 933 638 484  
es@HARTING.com
- **Sub-Sahara countries:**  
refer to South Africa
- **Sweden**  
HARTING AB  
Gustavslundsvägen 141B  
167 51 Bromma  
Phone +46 8 445 7171  
se@HARTING.com
- **Switzerland**  
HARTING AG  
Volketswil branch  
Hofwiesenstrasse 4 A  
8604 Volketswil  
Phone +41 44 908 20 60  
ch@HARTING.com
- **Taiwan**  
HARTING Taiwan Ltd.  
Room 1, 5/F, 495 GuangFu South  
Road  
RC-110 Taipei  
Phone +886 227 586 177  
tw@HARTING.com
- **Turkey**  
HARTING Türkiye Elektronik Ticaret  
Limited Sirketi  
Bayar Cad. Şehit İknur Keleş Sok.  
Dural Plaza No:3 K.11  
34742 Kozyatagı – Istanbul  
Phone +90 216 688 81 00  
tr@HARTING.com
- **Ukraine:**  
refer to Poland
- **United Arab Emirates**  
HARTING Middle East FZ-LLC  
Knowledge Village  
Block 2A - Office F72  
P.O. Box: 454372  
Dubai  
Phone +971 4 453 9737  
uae@HARTING.com
- **USA**  
HARTING Inc. of North America  
1370 Bowes Road  
USA-Elgin, Illinois 60123  
Phone +1 847 741 1500  
us@HARTING.com





**Pushing Performance**  
Since 1945

**HARTING Technologiegruppe**  
de@HARTING.com  
www.HARTING.com

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