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|  Pushing Performance | HARTING Product Information | PI- NPN |
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Business Unit: Electric **PI00000091**
Product range: Han® Push-In Q 5/0, Q 7/0, Q 8/0 **Date:** 14.10.2024
Author: Dirk Teiwes
Title: Han® Push-In Q 5/0, Q 7/0, Q 8/0 - UPDATE



UPDATE

- Part-no for coding pin Han® Q 5/0 Push-In
- Part-no for Han® Q 8/0 Push-In, female insert

Dear Ladies and Gentlemen,

We are pleased to announce three new additional inserts for field termination. For size 3 A the new Han® Q 5/0 and Han® Q 7/0 inserts with push-in technology increase our portfolio, offering customers well known interfaces with yet another termination possibility. Additionally the Han® Q 8/0 insert with push-in termination is newly available. With the push-in inserts customers have the benefits of at termination that ensures robust and high-quality contacting. The Push-in termination technique is an advanced version of a standard cage-clamp for easy on-site connection. The focus here is on the fast and uncomplicated assembly of the connector with consistent quality and robustness.

Product Features / Technical Characteristics

- Han® Q Push-in for hoods and housings **size Han® 3 A**
 - Q 5/0
 - with 5 contacts +PE rated at 16 A 230/400 V 4 kV 3
 - Conductor cross-section: 0.5 - 2.5 mm²
 - Coding possibility: by 2 hexagonal coding pins
 - Q 7/0
 - with 7 contacts +PE rated at 10 A 400 V 6 kV 3
 - Conductor cross section: 0.14 - 1.5 mm²
 - Coding possibility: 6 way coding
- Han® Q 8/0 Push-in for hoods and housings **size Han® Compact**
 - 8 contacts +PE rated at 16 A 500 V 6 kV 3
 - Conductor cross-section: 0.5 - 2.5 mm²
 - connection to metal hood/housing via PE plate
 - new coding pin allowing 5 coding possibilities
- Mating compatible to existing Han® Q inserts
- Material flammability class V-0 acc. UL 94

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Unique Selling Points

- Push-In termination
 - Assembly of stranded wires with and without ferrule and solid wires
 - Toolless assembly for solid wires and wires with ferrules
 - Assembly tool to insert stranded wires safely
- Reduced costs compared to alternative field termination techniques
- Cat 2 shock and vibration proof acc IEC 61373

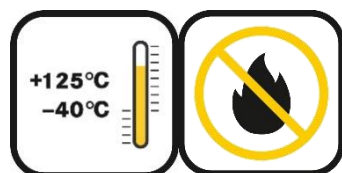
Competition

As of September 2024 Phoenix Contact and ILME are offering Han® Q 5/0 and Q 8/0 and Wain offers Han® Q 5/0 with push-in termination. In general, there are several competitors that offer industrial connectors with Push-In. Han® Q 7/0 field termination insert is currently only offered by HARTING

Benefits over competition:

- Lower force needed to insert the wire into the contact chamber
- Higher retention forces of the wire
- Lower force needed to press down the actuator
- Push-In tool to easily handle stranded wires

Benefits at a glance



Fulfill the specifications of standard Han® Heavy Duty connectors



Easy handling due to toolless assembly



Reduced assembly time up to 30%



Mating compatible to existing products

Applications / Target Markets





















Applications can be found in the all industrial markets from machinery and robotics as well as infrastructure markets such as energy and transportation.







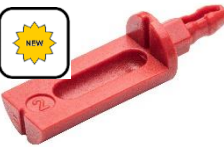



In the machinery market this interface is well used as power supply in applications at semiconductor production equipment as well as other types of machinery such as machine tools or injection moulding machines.

Tested to category 2 shock and vibration of IEC 61373 and made of material meeting fire protection on railway vehicles according to DIN EN 45545-2 the new inserts can also be attractive to rolling stock applications.

Part Numbers

| Part Number | Description | |
|----------------|---|---|
| 09 12 005 5001 | Han® Q 5/0 Push-In, male insert |    eCatalogue |
| 09 12 005 5101 | Han® Q 5/0 Push-In, female insert |    eCatalogue |
| 09 12 000 9929 | Coding pin for Han® Q 5/0 Push-In 20/Block |   eCatalogue |
| 09 12 007 5001 | Han® Q 7/0 Push-In, male insert |    eCatalogue |
| 09 12 007 5101 | Han® Q 7/0 Push-In, female insert |    eCatalogue |
| 09 12 000 9901 | Coding pins for Han® Q 7/0 Male |   eCatalogue |
| 09 12 000 9902 | Coding pins for Han® Q 7/0 Female |   eCatalogue |

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| Part Number | Description | |
|----------------|--|---|
| 09 12 008 5001 | Han® Q 8/0 Push-In, male insert |    eCatalogue |
| 09 12 008 5101 | Han® Q 8/0 Push-In, female insert |    eCatalogue |
| 97000000932 | Coding pin for Han® Q 8/0 Push-In |    eCatalogue |
| 09 99 000 1002 | Assembly-Disassembly tool Han® Push-In |  Preliminary version |

Compatibility

Han® Q 8/0 Push-In inserts are fully mating compatible to existing Han® Q 8/0 crimp and QL-inserts when coding pins are not installed (Attention: When coding pins are installed, Han® Q 8/0 Push-In inserts can only be mated to Han® Q 8/0 Push-In inserts).


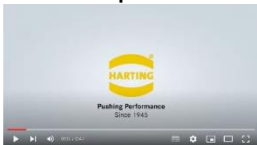
Compatible with major plastic and metal hoods and housings.

Due to length of the inserts for accommodating the contact and clamping cage geometry as well as the new feature of PE connection to hood and housing via PE plate the compatibility to hoods and housings is not fully given . For compatibility see matching products in eCatalogue.



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Available marketing material

| | |
|---------------------------|---|
| Push-In Battlecard | See attachment to PI |
| Landing page | Click on picture  |
| Han® Push-In movie | Click on picture:  |

Availability

The parts are **available ex-stock** (Assembly-Disassembly tool will be available in Q4/2024).
The products are integrated in the **Han® configurator** and in the **e-shop**.
For **prices**, **stock** and **lead times** please check **SAP**.
All according data can be found online on the according product pages.

Best regards,

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