



Pushing Performance  
Since 1945

# Han 1A-3+PE-c-f shielded



Image is for illustration purposes only. Please refer to product description.

|                    |                                                                               |
|--------------------|-------------------------------------------------------------------------------|
| Part number        | 09 10 003 3106                                                                |
| Specification      | Han 1A-3+PE-c-f shielded                                                      |
| HARTING eCatalogue | <a href="https://harting.com/09100033106">https://harting.com/09100033106</a> |

## Identification

|          |         |
|----------|---------|
| Category | Inserts |
| Series   | Han® 1A |

## Version

|                    |                                                                                                                                                   |
|--------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|
| Termination method | Crimp termination                                                                                                                                 |
| Gender             | Female                                                                                                                                            |
| Size               | 1 A                                                                                                                                               |
| Shielding          | With cable tie                                                                                                                                    |
| Number of contacts | 3                                                                                                                                                 |
| further contacts   | + shielding                                                                                                                                       |
| PE contact         | Yes                                                                                                                                               |
| Locking type       | Single locking lever                                                                                                                              |
| Details            | Please order crimp contacts separately.<br>Please order locking lever separately.<br>Order separately the hoods/housings for an IP65 performance. |

A Han® 1A configuration that only consists of inserts (with or without strain relief, 09 10 000 5300) is an unenclosed connector according to IEC 61984. In this case protection against electric shock must be provided by the installation methods of the user.

|         |                                                                                                                                                                                                                                                                                                                                                            |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Details | The Han® 1A insert has no conductive connection between PE-contact and shielding element. Protection against electric shock must be provided by connecting the cable shielding to a protective earth (PE).<br>Contact inserts must not be coupled or decoupled under electrical load.<br>Contact inserts must not be powered-up in the un-mated condition. |
|---------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

|               |                                                   |
|---------------|---------------------------------------------------|
| Pack contents | Shielding element is included within the delivery |
|---------------|---------------------------------------------------|



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## Technical characteristics

|                                        |                              |
|----------------------------------------|------------------------------|
| Conductor cross-section                | 0.14 ... 2.5 mm <sup>2</sup> |
| Rated current                          | 10 A                         |
| Rated voltage                          | 400 V                        |
| Rated impulse voltage                  | 6 kV                         |
| Pollution degree                       | 3                            |
| Rated current acc. to UL               | 15 A AWG 14                  |
| Rated voltage acc. to UL               | 600 V                        |
| Insulation resistance                  | >10 <sup>8</sup> Ω           |
| Limiting temperature                   | -30 ... +90 °C               |
| Mating cycles                          | ≥100                         |
| Degree of protection acc. to IEC 60529 | IP20                         |

## Material properties

|                                           |                                     |
|-------------------------------------------|-------------------------------------|
| Material (insert)                         | Polyamide (PA)                      |
| Colour (insert)                           | RAL 9005 (jet black)                |
| Material (seal)                           | NBR                                 |
| Colour (seal)                             | Black                               |
| Material flammability class acc. to UL 94 | V-0                                 |
| RoHS                                      | compliant                           |
| ELV status                                | compliant                           |
| China RoHS                                | e                                   |
| REACH Annex XVII substances               | Not contained                       |
| REACH ANNEX XIV substances                | Not contained                       |
| REACH SVHC substances                     | Not contained                       |
| California Proposition 65 substances      | Not contained                       |
| Fire protection on railway vehicles       | EN 45545-2 (2020-08) + A1 (2023-10) |
| Requirement set with Hazard Levels        | R22 (HL 1-3)<br>R23 (HL 1-3)        |

## Specifications and approvals

|                |                                                |
|----------------|------------------------------------------------|
| Specifications | EN 45545-2 Fire protection on railway vehicles |
|                | IEC 61373 Category 1 Class B                   |
|                | IEC 60664-1                                    |
|                | IEC 61984                                      |



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Specifications and approvals

|           |                                                                       |
|-----------|-----------------------------------------------------------------------|
| UL / CSA  | UL 1977 ECBT2.E235076                                                 |
|           | CSA-C22.2 No. 182.3 ECBT8.E235076                                     |
|           | Please contact your local HARTING subsidiary for further information. |
| Approvals | DNV GL                                                                |

Commercial data

|                                |                                                   |
|--------------------------------|---------------------------------------------------|
| Packaging size                 | 1                                                 |
| Net weight                     | 15.4 g                                            |
| Country of origin              | Germany                                           |
| European customs tariff number | 85366990                                          |
| GTIN                           | 5713140185517                                     |
| eCl@ss                         | 27440205 Contact insert for industrial connectors |
| ETIM                           | EC000438                                          |
| UNSPSC 24.0                    | 39121522                                          |