

## Han 12Q-MI-CRT- Hybrid - Data



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

|                    |   |
|--------------------|---|
| Part number        | 09 12 012 3005  |
| Specification      | Han 12Q-MI-CRT- Hybrid - Data   |
| HARTING eCatalogue | <a href="https://b2b.harting.com/09120123005">https://b2b.harting.com/09120123005</a> |

### Identification

|                |                    |
|----------------|--------------------|
| Category       | Inserts            |
| Series         | Han <sup>®</sup> Q |
| Identification | Hybrid - Data      |

### Version

|                           |   |
|---------------------------|---|
| Termination method        | Crimp termination                       |
| Gender                    | Male                                    |
| Size                      | 3 A                                     |
| Number of contacts        | 12                                      |
| Number of data contacts   | 4                                       |
| Number of signal contacts | 4                                       |
| Number of power contacts  | 4                                       |
| PE contact                | Yes                                     |
| Details                   | Please order crimp contacts separately. |
|                           | 4x Han E <sup>®</sup>                   |
|                           | 4x Han D <sup>®</sup>                   |
|                           | 4x M12 for data element                 |

### Details

ATTENTION! The rated voltage (Power 600V, Signal 250V) of the insert which is designed for basic insulation with protective grounding only applies if the shield of the data element is connected to the ground potential. When the shield of the data element is not connected to the ground potential, rated voltages will reduce to 320V for Power and 150V for Signal.



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## Technical characteristics

|                                |                                     |
|--------------------------------|-------------------------------------|
| Conductor cross-section        | 0.13 ... 0.33 mm <sup>2</sup> Data  |
|                                | 0.14 ... 2.5 mm <sup>2</sup> Signal |
|                                | 0.14 ... 4 mm <sup>2</sup> Power    |
| Conductor cross-section        | AWG 26 ... AWG 14 Data              |
|                                | AWG 26 ... AWG 22 Signal            |
|                                | AWG 26 ... AWG 12 Power             |
| Rated current (data)           | 2 A                                 |
| Rated voltage (data)           | 32 V                                |
| Rated impulse voltage (data)   | 0.8 kV                              |
| Pollution degree (data)        | 3                                   |
| Rated current (signal)         | 10 A                                |
| Rated voltage (signal)         | 250 V                               |
| Rated impulse voltage (signal) | 4 kV                                |
| Pollution degree (signal)      | 3                                   |
| Rated current (power)          | 20 A                                |
| Rated voltage (power)          | 600 V                               |
| Rated impulse voltage (power)  | 6 kV                                |
| Pollution degree (power)       | 3                                   |
| Transmission characteristics   | Cat. 5 Class D up to 100 MHz        |
| Data rate                      | 10 Mbit/s                           |
|                                | 100 Mbit/s                          |
| Insulation resistance          | >10 <sup>10</sup> Ω                 |
| Limiting temperature           | -40 ... +85 °C                      |
| Mating cycles                  | ≥500                                |

## Material properties

|   |                             |
|---|-----------------------------|
| Material (insert)                         | Polycarbonate (PC)          |
| Colour (insert)                           | RAL 7032 (pebble grey)      |
| Material (shielding)                      | Copper alloy, nickel plated |
| 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               |



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## Material properties

|                                      |                              |
|--------------------------------------|------------------------------|
| REACH SVHC substances                | Not contained                |
| California Proposition 65 substances | Yes                          |
| California Proposition 65 substances | Lead<br>Nickel               |
| Fire protection on railway vehicles  | EN 45545-2 (2020-08)         |
| Requirement set with Hazard Levels   | R22 (HL 1-3)<br>R23 (HL 1-3) |

## Specifications and approvals

|                |                          |
|----------------|--------------------------|
| Specifications | IEC 60664-1<br>IEC 61984 |
|----------------|--------------------------|

## Commercial data

|                                |   |
|--------------------------------|---|
| Packaging size                 | 1   |
| Net weight                     | 17.27 g   |
| Country of origin              | China   |
| European customs tariff number | 85389099  |
| eCl@ss                         | 27440205 Contact insert for industrial connectors |