

## Han 24 ES Insert-F

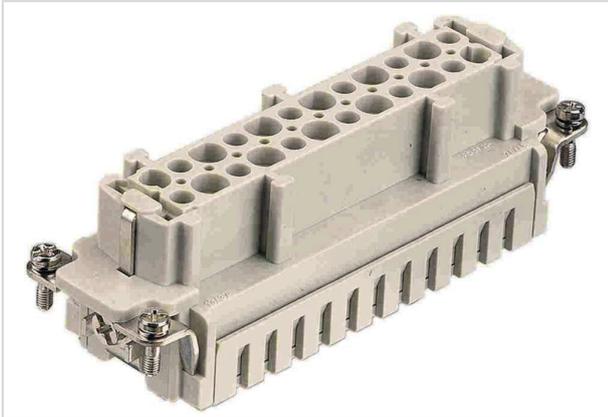


Image is for illustration purposes only. Please refer to product description.

|                    |   |
|--------------------|---|
| Part number        | 09 33 024 2716  |
| Specification      | Han 24 ES Insert-F  |
| HARTING eCatalogue | <a href="https://harting.com/09330242716">https://harting.com/09330242716</a> |

### Identification

|          |                     |
|----------|---------------------|
| Category | Inserts             |
| Series   | Han <sup>®</sup> ES |

### Version

|                    |                        |
|--------------------|------------------------|
| Termination method | Cage-clamp termination |
| Gender             | Female                 |
| Size               | 24 B                   |
| Number of contacts | 24                     |
| PE contact         | Yes                    |

### Technical characteristics

|                               |                              |
|-------------------------------|------------------------------|
| Conductor cross-section       | 0.14 ... 2.5 mm <sup>2</sup> |
| Conductor cross-section [AWG] | AWG 26 ... AWG 14            |
| Rated current                 | 16 A                         |
| Rated voltage                 | 500 V                        |
| Rated impulse voltage         | 6 kV                         |
| Pollution degree              | 3                            |
| Rated voltage acc. to UL      | 600 V                        |
| Rated voltage acc. to CSA     | 600 V                        |
| Insulation resistance         | >10 <sup>10</sup> Ω          |
| Contact resistance            | ≤3 mΩ                        |
| Stripping length              | 7 ... 9 mm                   |
| Tightening torque             | 1.2 Nm PE screw M4           |



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## Technical characteristics

|                          |                          |
|--------------------------|--------------------------|
| Recommended screw driver | Slotted 0.8 x 4.5<br>PH2 |
| Limiting temperature     | -40 ... +125 °C          |
| Mating cycles            | ≥500                     |

## Material properties

|   |   |
|---|---|
| Material (insert)                         | Polycarbonate (PC)  |
| Colour (insert)                           | RAL 7032 (pebble grey)  |
| Material (contacts)                       | Copper alloy  |
| Surface (contacts)                        | Silver plated   |
| Material flammability class acc. to UL 94 | V-0   |
| RoHS                                      | compliant with exemption  |
| RoHS exemptions                           | 6(c): Copper alloy containing up to 4 % lead by weight            |
| ELV status                                | compliant with exemption  |
| China RoHS                                | 50  |
| REACH Annex XVII substances               | Not contained   |
| REACH ANNEX XIV substances                | Not contained   |
| REACH SVHC substances                     | Yes   |
| REACH SVHC substances                     | Potassium 1,1,2,2,3,3,4,4,4-nonafluorobutane-1-sulphonate<br>Lead |
| ECHA SCIP number                          | 1e38d35d-d1be-4585-8e03-95faccd739bf                              |
| 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  |
| UL / CSA       | UL 1977 ECBT2.E235076<br>UL 2237 PVVA2.E318390<br>CSA-C22.2 No. 182.3 PVVA8.E318390 |
| Approvals      | DNV GL  |



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## Commercial data

|                                |   |
|--------------------------------|---|
| Packaging size                 | 1   |
| Net weight                     | 115 g   |
| Country of origin              | Germany   |
| European customs tariff number | 85366990  |
| GTIN                           | 5713140052024                                     |
| eCl@ss                         | 27440205 Contact insert for industrial connectors |
| UNSPSC 24.0                    | 39121522  |