

## Circular Connector w. Harax M12 L 4 F



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

|                    |                                                                               |
|--------------------|-------------------------------------------------------------------------------|
| Part number        | 21 03 212 2305                                                                |
| Specification      | Circular Connector w. Harax M12 L 4 F                                         |
| HARTING eCatalogue | <a href="https://harting.com/21032122305">https://harting.com/21032122305</a> |

### Identification

|                |                         |
|----------------|-------------------------|
| Category       | Connectors              |
| Series         | Circular connectors M12 |
| Identification | M12-L                   |
| Element        | Cable connector         |
| Specification  | Straight                |

### Version

|                    |                              |
|--------------------|------------------------------|
| Termination method | HARAX® connection technology |
| Gender             | Female                       |
| Shielding          | Unshielded                   |
| Number of contacts | 4                            |
| Coding             | A-coding                     |
| Locking type       | Screw locking                |

### Technical characteristics

|                               |                               |
|-------------------------------|-------------------------------|
| Conductor cross-section       | 0.34 ... 0.75 mm <sup>2</sup> |
| Conductor cross-section [AWG] | AWG 22 ... AWG 18             |
| Wire outer diameter           | ≤2.6 mm                       |
| Rated current                 | 4 A                           |
| Rated voltage                 | 50 V                          |
| Rated impulse voltage         | 1.5 kV                        |
| Pollution degree              | 3                             |
| Overvoltage category          | III                           |



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## Technical characteristics

|                                           |                             |
|-------------------------------------------|-----------------------------|
| Insulation resistance                     | $>10^8 \Omega$              |
| Contact resistance                        | $\leq 10 \text{ m}\Omega$   |
| Tightening torque                         | 0.6 Nm                      |
| Wrench size (knurled screw / knurled nut) | 17                          |
| Limiting temperature                      | -40 ... +85 °C              |
| Mating cycles                             | $\geq 100$                  |
| Degree of protection acc. to IEC 60529    | IP65 / IP67 mated condition |
| Cable diameter                            | 6 ... 8 mm                  |
| Isolation group                           | I ( $600 \leq \text{CTI}$ ) |

## Material properties

|                                      |                                                        |
|--------------------------------------|--------------------------------------------------------|
| Material (insert)                    | Polyamide (PA)                                         |
| Material (contacts)                  | Brass                                                  |
| Surface (contacts)                   | Au over Ni Mating side                                 |
| Material (hood/housing)              | Polyamide (PA)<br>Zinc die-cast                        |
| 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                | Lead                                                   |
| ECHA SCIP number                     | 0d7d3693-d625-47ab-934a-d241bf72c86e                   |
| California Proposition 65 substances | Yes                                                    |
| California Proposition 65 substances | Lead<br>Nickel<br>Naphthalene                          |
| Fire protection on railway vehicles  | EN 45545-2 (2020-08)                                   |
| Requirement set with Hazard Levels   | R26                                                    |

## Specifications and approvals

|                |                 |
|----------------|-----------------|
| Specifications | IEC 61076-2-101 |
|----------------|-----------------|



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Specifications and approvals

|          |                                   |
|----------|-----------------------------------|
| UL / CSA | UL 1977 ECBT2.E102079             |
|          | CSA-C22.2 No. 182.3 ECBT8.E102079 |

Commercial data

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| Packaging size                 | 1                                                |
| Net weight                     | 38 g                                             |
| Country of origin              | Romania                                          |
| European customs tariff number | 85366990                                         |
| GTIN                           | 5713140137301                                    |
| ETIM                           | EC002635                                         |
| eCl@ss                         | 27440116 Circular connector (for field assembly) |