

# M12-L shielded female 4-pole D-coded



| Part number        | 21 03 281 2405                       |
|--------------------|--------------------------------------|
| Specification      | M12-L shielded female 4-pole D-coded |
| HARTING eCatalogue | https://b2b.harting.com/21032812405  |

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

## Identification

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

## Version

| Termination method | HARAX <sup>®</sup> connection technology |
|--------------------|--|
| Gender             | Female                                   |
| Shielding          | Shielded                                 |
| Number of contacts | 4  |
| Coding             | D-coding                                 |
| Locking type       | Screw locking                            |
| Details            | For Fast Ethernet applications only      |

# **Technical characteristics**

| Conductor cross-section | 0.14 0.34 mm² |
|-------------------------|---------------|
| Conductor cross-section | AWG 26 AWG 22 |
| Wire outer diameter     | ≤2 mm         |
| Rated current           | 4 A           |
| Rated voltage           | 50 V          |
| Rated impulse voltage   | 1.5 kV        |
| Pollution degree        | 3             |

Page 1 / 3 | Creation date 2022-01-08 | Please note that the data specified here were taken as extracts from the online catalogue. Please refer to the user documentation for the complete and up-to-date information and data. Please also note that the user is responsible for validating functionality, conformity with applicable laws and directives, as well as for the electrical safety in the particular application. HARTING Electronics GmbH | Marienwerderstraße 3 | 32339 Espelkamp | Germany Phone +49 5772 47-97200 | electronics@HARTING.com | www.HARTING.com



#### **Technical characteristics**

| Transmission characteristics              | Cat. 5 Class D up to 100 MHz |
|---|------------------------------|
| Overvoltage category                      | III                          |
| Data rate                                 | 10 Mbit/s<br>100 Mbit/s      |
| Insulation resistance                     | >10 <sup>8</sup> Ω           |
| Contact resistance                        | ≤10 mΩ                       |
| Tightening torque                         | 0.6 Nm                       |
| Wrench size (knurled screw / knurled nut) | 17                           |
| Ambient temperature                       | -40 +85 °C                   |
| Mating cycles                             | ≥100                         |
| Degree of protection acc. to IEC 60529    | IP65 / IP67 mated condition  |
| Cable diameter                            | 4.5 8.8 mm                   |
| Isolation group                           | I (600 ≤ CTI)                |

#### Material properties

| Material (insert)                    | Polyamide (PA)   |
|--------------------------------------|--|
| Material (contacts)                  | Brass  |
| Surface (contacts)                   | Au over Ni Mating side                                 |
| Material (hood/housing)              | 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 | Nickel<br>Lead<br>Naphthalene                          |

# Specifications and approvals

#### Specifications

IEC 61076-2-101

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## Specifications and approvals

| UL / CSA                       | UL 1977 ECBT2.E102079<br>CSA-C22.2 No. 182.3 ECBT8.E102079 |
|--------------------------------|--|
| PROFINET                       | Yes  |
| Commercial data                |  |
| Packaging size                 | 1  |
| Net weight                     | 54 g   |
| Country of origin              | Germany  |
| European customs tariff number | 85366990   |
| eCl@ss                         | 27440102 Circular connector (for field assembly)           |

Page 3 / 3 | Creation date 2022-01-08 | Please note that the data specified here were taken as extracts from the online catalogue. Please refer to the user documentation for the complete and up-to-date information and data. Please also note that the user is responsible for validating functionality, conformity with applicable laws and directives, as well as for the electrical safety in the particular application. HARTING Electronics GmbH | Marienwerderstraße 3 | 32339 Espelkamp | Germany Phone +49 5772 47-97200 | electronics@HARTING.com | www.HARTING.com