



Pushing Performance
Since 1945

HARAX M12-L shielded female 4-pole D-cod



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

| | |
|--------------------|---------------------------------------------------------------------------------------|
| Part number | 21 03 282 2405 |
| Specification | HARAX M12-L shielded female 4-pole D-cod |
| HARTING eCatalogue | https://b2b.harting.com/21032822405 |

Identification

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

Version

| | |
|--------------------|------------------------------------------|
| Termination method | HARAX [®] 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 | 0.34 ... 0.75 mm ² |
| Conductor cross-section | AWG 22 ... AWG 18 |
| Wire outer diameter | ≤2 mm |
| Rated current | 4 A |
| Rated voltage | 50 V |
| Rated impulse voltage | 1.5 kV |
| Pollution degree | 3 |



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Technical characteristics

| | |
|-------------------------------------------|------------------------------|
| Transmission characteristics | Cat. 5 Class D up to 100 MHz |
| Overvoltage category | III |
| Data rate | 10 Mbit/s 100 Mbit/s |
| 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 | ≥ 100 |
| Degree of protection acc. to IEC 60529 | IP65 / IP67 mated condition |
| Cable diameter | 4.5 ... 8.8 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) | 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 Nickel Naphthalene |
| Fire protection on railway vehicles | EN 45545-2 (2020-08) |
| Requirement set with Hazard Levels | R26 |



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Specifications and approvals

| | |
|----------------|-----------------------------------|
| Specifications | IEC 61076-2-101 |
| UL / CSA | UL 1977 ECBT2.E102079 |
| | CSA-C22.2 No. 182.3 ECBT8.E102079 |
| PROFINET | Yes |

Commercial data

| | |
|--------------------------------|--------------------------------------------------|
| Packaging size | 1 |
| Net weight | 55 g |
| Country of origin | Romania |
| European customs tariff number | 85366990 |
| GTIN | 5713140137493 |
| ETIM | EC002635 |
| eCl@ss | 27440116 Circular connector (for field assembly) |