

M12 CAT6a receptacle straight front



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

| | |
|--------------------|---|
| Part number | 21 03 381 2802 |
| Specification | M12 CAT6a receptacle straight front |
| HARTING eCatalogue | https://b2b.harting.com/21033812802 |

Identification

| | |
|----------------|---|
| Category | Connectors |
| Series | Circular connectors M12 |
| Identification | PushPull |
| Element | PCB adapter |
| Specification | Straight incl. housing for front mounting |

Version

| | |
|--------------------|------------------------------------|
| Termination method | Reflow soldering termination (THR) |
| Gender | Female |
| Shielding | Shielded |
| Number of contacts | 8 |
| Coding | X-coding |
| Locking type | Screw locking PushPull |
| Pack contents | 60 pieces in a tray |

Technical characteristics

| | |
|------------------------------|--|
| Rated current | 0.5 A |
| Rated voltage | 50 V |
| Rated impulse voltage | 0.8 kV |
| Pollution degree | 3 |
| Transmission characteristics | Cat. 6 _A Class E _A up to 500 MHz |



Pushing Performance
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Technical characteristics

| | |
|--|--|
| Overvoltage category | III |
| Data rate | 10 Mbit/s 100 Mbit/s 1 Gbit/s 2.5 Gbit/s 5 Gbit/s 10 Gbit/s |
| Insulation resistance | >10 ⁸ Ω |
| Contact resistance | ≤10 mΩ |
| Tightening torque | 2 Nm Lock nut |
| Limiting temperature | -40 ... +85 °C |
| Mating cycles | ≥100 |
| Degree of protection acc. to IEC 60529 | IP65 / IP67 mated condition |
| Isolation group | IIIa (175 ≤ CTI < 400) |

Material properties

| | |
|---|--|
| Material (insert) | Liquid crystal polymer (LCP) |
| Material (contacts) | Copper alloy |
| Surface (contacts) | Au over Ni Mating side |
| Material (hood/housing) | Zinc die-cast |
| 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 | 6,6'-di-tert-butyl-2,2'-methylenedi-p-cresol 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) |



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Material properties

Requirement set with Hazard Levels R26

Specifications and approvals

| | |
|----------------|--|
| Specifications | IEC 61076-2-109 |
| UL / CSA | UL 1977 ECBT2.E102079 CSA-C22.2 No. 182.3 ECBT8.E102079 |
| PROFINET | Yes |

Commercial data

| | |
|--------------------------------|--|
| Packaging size | 60 |
| Net weight | 17.82 g |
| Country of origin | Romania |
| European customs tariff number | 85366990 |
| eCl@ss | 27460201 PCB connector (board connector) |