

M12 MAGNET D-CODED STR POE FAST ETHERNET



| Part number | 21 03 381 2421 |
|--------------------|---|
| Specification | M12 MAGNET D-CODED STR POE FAST ETHERNET |
| HARTING eCatalogue | https://harting.com/21033812421 |

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

Identification

| Category | Connectors |
|----------------|---|
| Series | Circular connectors M12 |
| Identification | Magnetics PushPull |
| Element | PCB adapter |
| Specification | with integrated transformer Straight incl. housing Power over Ethernet (PoE+) for front mounting |

Version

| Termination method | Reflow soldering termination (SMT) |
|--------------------|------------------------------------|
| Gender | Female |
| Shielding | Shielded |
| Number of contacts | 4 |
| Coding | D-coding D-coding |
| Locking type | Screw locking PushPull |

Technical characteristics

| Rated current | 3 A |
|-----------------------|--------|
| Rated voltage | 57 V |
| Rated impulse voltage | 1.5 kV |
| Pollution degree | 3 |

Page 1 / 4 | Creation date 2025-04-12 | 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.

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Technical characteristics

| Transmission characteristics | Cat. 5 Class D up to 100 MHz |
|--|--|
| Data rate | 10 Mbit/s 100 Mbit/s |
| Insulation resistance | >10 ⁸ Ω |
| Contact resistance | ≤10 mΩ |
| Tightening torque | 2 Nm Lock nut |
| Limiting temperature | -40 +85 °C (during reflow soldering max. +245) |
| Insertion force | 10 N |
| Withdrawal force | 15 N |
| Mating cycles | ≥100 |
| Degree of protection acc. to IEC 60529 | IP65 / IP67 mated condition |
| Isolation group | IIIa (175 ≤ CTI < 400) |
| Process Sensitivity Level (PSL) | R7 acc. to ECA/IPC/JEDEC J-STD-075 |

Material properties

| Material (insert) | Liquid crystal polymer (LCP) |
|---|--|
| Colour (insert) | Black |
| Material (contacts) | Brass |
| Surface (contacts) | Au over Ni Mating side |
| 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 | Lead |
| ECHA SCIP number | 0d7d3693-d625-47ab-934a-d241bf72c86e |
| California Proposition 65 substances | Yes |
| California Proposition 65 substances | Lead Nickel |
| Fire protection on railway vehicles | EN 45545-2 (2020-08) |

Page 2 / 4 | Creation date 2025-04-12 | 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.

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Material properties

Requirement set with Hazard Levels R26

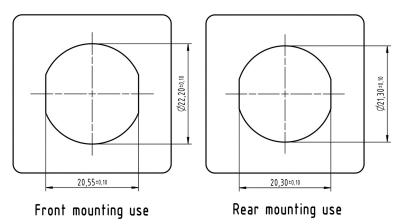
Specifications and approvals

| Specifications IE | C 61076-2-101 |
|-------------------|---------------|
|-------------------|---------------|

Commercial data

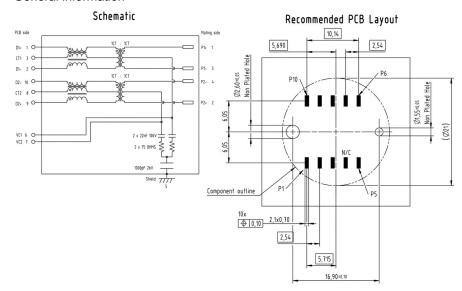
| Packaging size | 1 |
|--------------------------------|--|
| Net weight | 1 g |
| Country of origin | China |
| European customs tariff number | 85366990 |
| GTIN | 5713140228849 |
| eCl@ss | 27460201 PCB connector (board connector) |
| ETIM | EC002637 |
| UNSPSC 24.0 | 39121415 |

Panel cut out





General information



Electrical Characteristics @+25°C unless otherwise noted Meets IEEE802.3 specification RoHS compliant

| Parameter | Specification/ Limit Values |
|---------------------------------------|---|
| Operating Temperature | -40°C - +85°C |
| Turn Ratio (+/- 2%) | 1CT : 1CT |
| Current Capacity Pins 1-8/ VC1-VC4 | 750mA DC |
| OCL. | min 350µH @ 100KHz , 100mV with 8mA bias current |
| Isolation (Input- Output) | 2.25kV VDC , for 60sec. min |
| | f ≤ 100MHz |
| Insertion Loss | 1.3 dB |
| Return Loss | 9 dB |
| Crosstalk | 30 dB |
| CMRR | 30 dB |
| CDMR | 30 dB |
| NOTE: 1. f is the frequency in MHz | |
| 2. The Product has | been tested for DC isolation. HARTING |

The Product has been tested for DC isolation. HARTING assumes no liability or obligation for AC isolation testing.