



Pushing Performance  
Since 1945

# M12 Power S - PCB male front 1pc



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

|                    |                                                                                       |
|--------------------|---------------------------------------------------------------------------------------|
| Part number        | 21 03 309 1431                                                                        |
| Specification      | M12 Power S - PCB male front 1pc                                                      |
| HARTING eCatalogue | <a href="https://b2b.harting.com/21033091431">https://b2b.harting.com/21033091431</a> |

## Identification

|                |                                |
|----------------|--------------------------------|
| Category       | Connectors                     |
| Series         | Circular connectors M12        |
| Identification | Power<br>PushPull              |
| Element        | PCB adapter                    |
| Specification  | Straight<br>for front mounting |

## Version

|                                   |                                    |
|-----------------------------------|------------------------------------|
| Termination method                | Reflow soldering termination (THR) |
| Gender                            | Male                               |
| Shielding                         | Shielded                           |
| Number of contacts                | 4                                  |
| Number of power contacts          | 3                                  |
| Number of special contacts        | 1                                  |
| Specification of special contacts | PE contact                         |
| Coding                            | S-coding                           |
| Locking type                      | Screw locking<br>PushPull          |
| Pack contents                     | incl. housing                      |

## Technical characteristics

|               |       |
|---------------|-------|
| Rated current | 12 A  |
| Rated voltage | 630 V |



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## Technical characteristics

|                                        |                             |
|----------------------------------------|-----------------------------|
| Rated impulse voltage                  | 6 kV                        |
| Pollution degree                       | 3                           |
| Overvoltage category                   | III                         |
| Insulation resistance                  | $>10^8 \Omega$              |
| Contact resistance                     | $\leq 10 \text{ m}\Omega$   |
| Tightening torque                      | 2 Nm Lock nut               |
| Limiting temperature                   | -40 ... +125 °C             |
| Mating cycles                          | $\geq 100$                  |
| Degree of protection acc. to IEC 60529 | IP65 / IP67 mated condition |
| Isolation group                        | I ( $600 \leq \text{CTI}$ ) |

## Material properties

|                                           |                                                        |
|-------------------------------------------|--------------------------------------------------------|
| Material (insert)                         | Polyamide (PA)                                         |
| Material (contacts)                       | Copper alloy                                           |
| Surface (contacts)                        | Au over Ni Mating side                                 |
| Material (seal)                           | NBR                                                    |
| Colour (seal)                             | Grey                                                   |
| 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                                                   |
| California Proposition 65 substances      | Yes                                                    |
| California Proposition 65 substances      | Lead                                                   |
| 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 61076-2-111 |
|                | IEC 61076-2-010 |

Commercial data

|                                |                                          |
|--------------------------------|------------------------------------------|
| Packaging size                 | 1                                        |
| Net weight                     | 31 g                                     |
| Country of origin              | Romania                                  |
| European customs tariff number | 85366990                                 |
| GTIN                           | 5713140228597                            |
| ETIM                           | EC002637                                 |
| eCl@ss                         | 27460201 PCB connector (board connector) |