

Style
M12 Plug, shielded
6 pin
A-coding

Ratings
Voltage: 30 V
Current: 2 A

Operating Temperature Range
-40~105°C

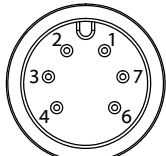
Materials
① Insulator: Polyamide 66 (PA66), UL94 HB, black
② Pin: Brass, gold flashing
③ M12 Shell: Brass, nickel plated
④ O-ring: Nitrile rubber, black
⑤ Epoxy: Epoxy resin

Electrical Requirements
Insulation resistance: 100 MΩ @ 500 Vdc
Contact resistance: 10 mΩ or less

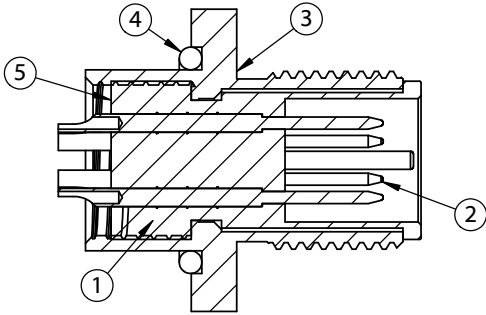
Mechanical Requirements
Life cycle: 500 mating cycles minimum

Environmental Requirements
Salt spray test: 35 °C, relative humidity 90-95%, 5% NaCl mist for 48 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 10 mΩ.
Waterproof: IP67

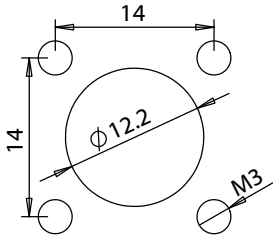
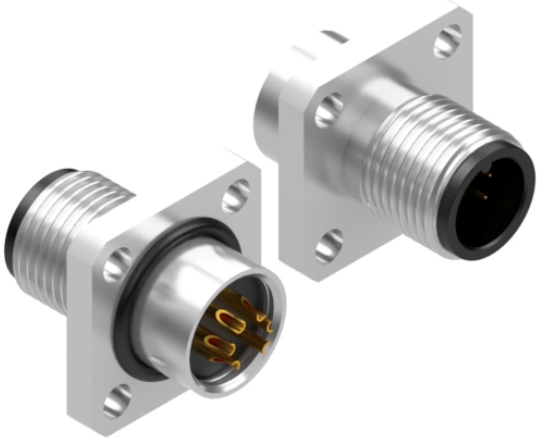
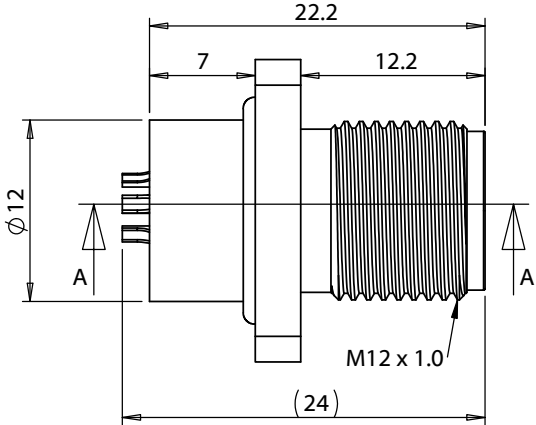
Assembly info
Wire gauge: 24 AWG max



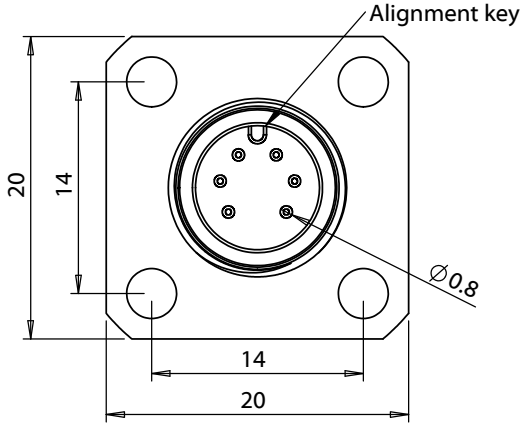
Front View
Not to Scale



SECTION A-A



Panel cut-out
Not to Scale



| | | | | | | |
|-----------|------------|-----------------|--|---|---|--------------------------|
| Revision: | Date: | Description: | Prepared: | Notes: | TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com | |
| A | 04/09/2024 | Initial release | Verified: | RoHS compliant Function test: no open, no short circuit, no intermittent | | |
| | | | Dimensions are in millimeters. Tolerances: X: ± 0.3 mm X.X: ± 0.1 mm X.XX: ± 0.05 mm | Description: Connector, 6 pin M12 A-code plug, 12xL24mm, gold plated, flange mount, solder cup, IP67, shielded | Size: A | Part number: 55-00246 |
| | | | | | Scale: 2:1 | Sheet 1 of 1 |