

Style
M12 Plug, shielded
5 pin
A-coding

Ratings
Voltage: 60 V
Current: 4 A

Operating Temperature Range
-40~105°C

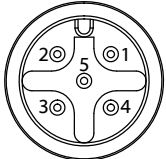
Materials
① Insulator: Polyamide 66 (PA66), UL94 HB, black
② Pin: Brass, gold flashing
③ M12 Shell: Brass, nickel plated
④ O-ring: Nitrile rubber, black
⑤ Epoxy: Epoxy resin

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

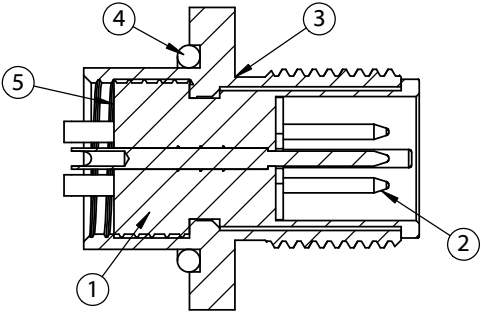
Mechanical Requirements
Life cycle: 500 mating cycles minimum

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

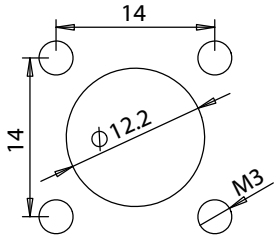
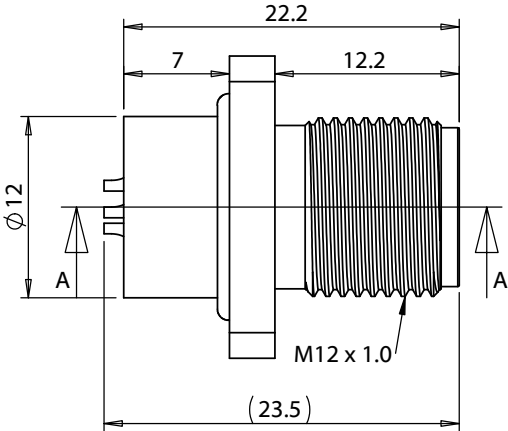
Assembly info
Wire gauge: 22 AWG max



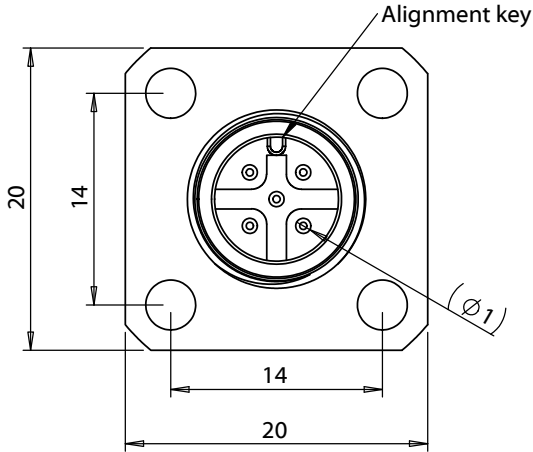
Front View
Not to Scale



SECTION A-A



Panel cut-out
Not to Scale



Revision:	Date:	Description:	Prepared:	Notes:	<div>TENSILITY</div> <div>tel 1.541.323.3228 800 877.670.7118</div> <div>fax 1.541.323.4202 web tensility.com</div> <div>Size: Part number:</div> <div>A 55-00241</div> <div>Scale: 2:1</div> <div></div> <div>Sheet 1 of 1</div>		
A	04/08/2024	Initial release	Verified:	RoHS compliant			
			Dimensions are in millimeters.	Function test: no open, no short circuit, no intermittent			
			Tolerances:	Description:			
			X: ± 0.3 mm	Connector, 5 pin M12 A-code plug, 12xL23.5mm, gold plated, flange mount, solder cup, IP67, shielded			
			X.X: ± 0.1 mm				
			X.XX: ± 0.05 mm				