

**Style**  
M12 Socket, shielded  
3 pin  
S-coding

**Ratings**  
Voltage: 630 Vac  
Current: 12 A

**Operating Temperature Range**  
-40 ~ 105°C

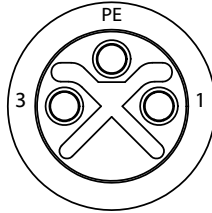
**Materials**  
① Insulator: Polyamide 66 (PA66), UL94 HB, black  
② Pin: Phosphor bronze, gold plated  
③ M12 Shell: C3604 brass, nickel plated  
④ O-ring: Silicone rubber  
⑤ Epoxy: Epoxy resin

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

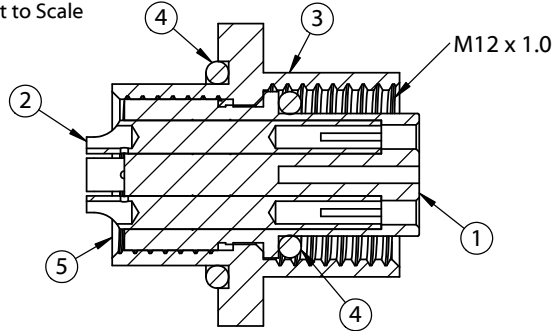
**Mechanical Requirements**  
Life cycle: 500 mating cycles minimum

**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

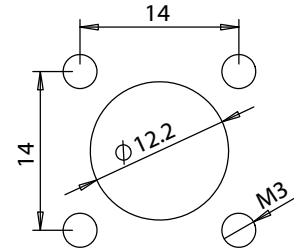
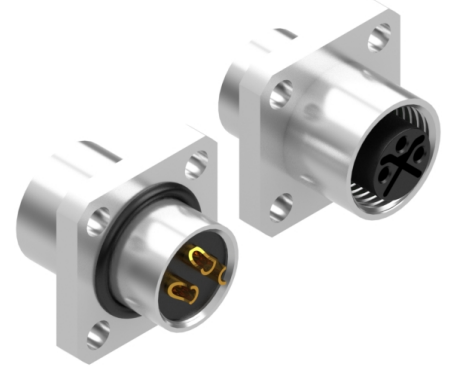
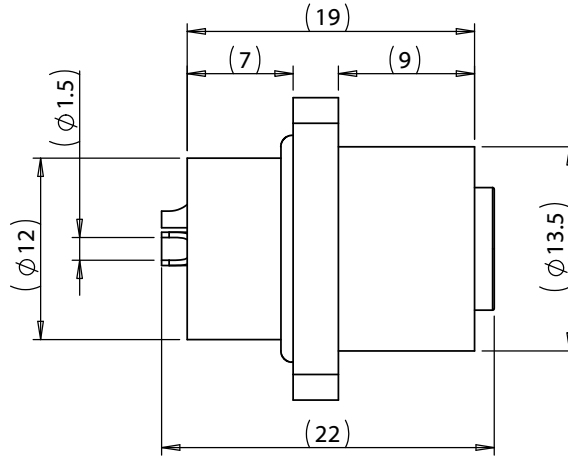
**Assembly info**  
Wire gauge: 18 AWG max



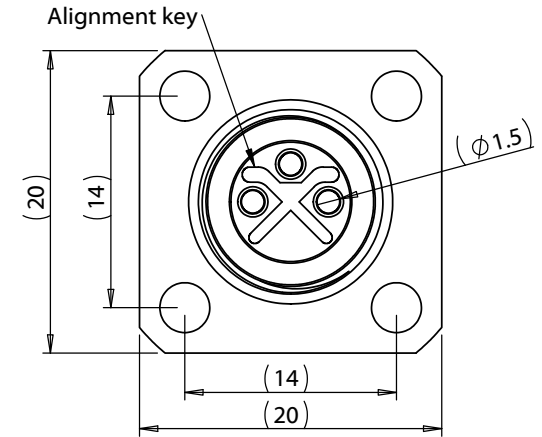
Front View  
Not to Scale



SECTION A-A



Panel cut-out  
Not to Scale



Revision:	Date:	Description:	Prepared:	Notes:	<div><h1>TENSILITY</h1><p>tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com</p><div>Size: Part number: A 55-00459</div><div>Scale: 2:1</div><div>Sheet 1 of 1</div></div>
A	03/11/2025	Initial release	Verified:	RoHS compliant	
			Dimensions are in millimeters.	Function test: no open, no short circuit, no intermittent	
			Tolerances: X: ± 0.3 mm X.X: ± 0.1 mm X.XX: ± 0.05 mm	Description: Connector, M12 S-code socket, 3 pin, 12xL22 mm, gold plated, flange mount, solder cup, IP67, shielded	