

Style

M12 Socket, shielded
8 pin
X-coding

Ratings

Voltage: 48 V
Current: 0.5 A

Operating Temperature Range

-40 ~ 105 °C

Materials

- ① Insulator: Polyamide 66 (PA66), UL94 HB, black
- ② Pin: C3604 brass, gold plated
- ③ Inner shielding: zinc aluminum alloy, nickel plated
- ④ Shell: C3604 brass, nickel plated
- ⑤ Nut: C3604 brass, nickel plated
- ⑥ O-ring: Nitrile rubber, black

Electrical Requirements

Dielectric strength: 1 min @ 500 Vac
Insulation resistance: 100 MΩ @ 500 Vdc
Contact resistance: 10 mΩ or less

Mechanical Requirements

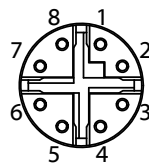
Life cycle: 500 mating cycles minimum

Environmental Requirements

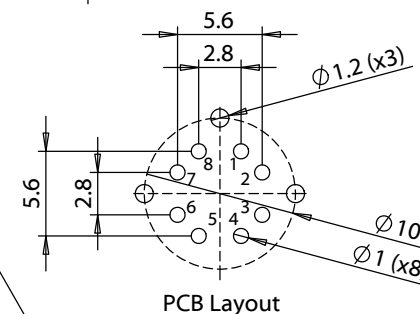
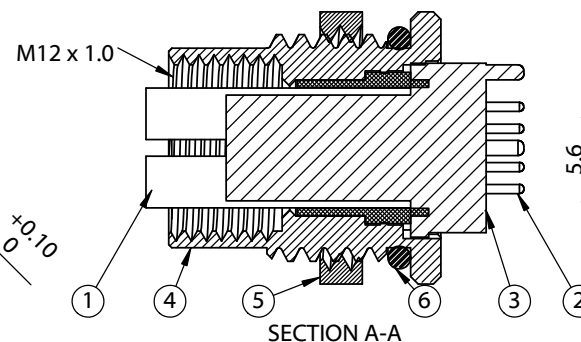
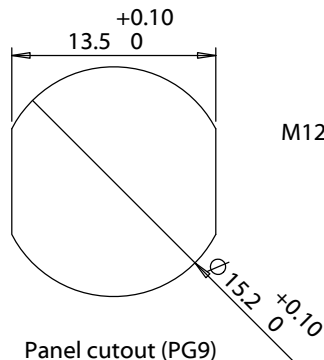
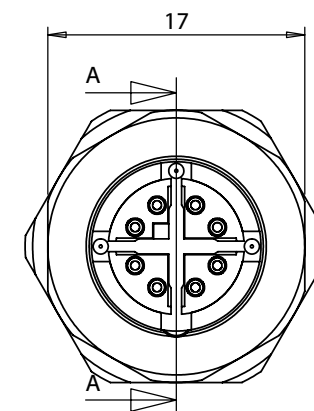
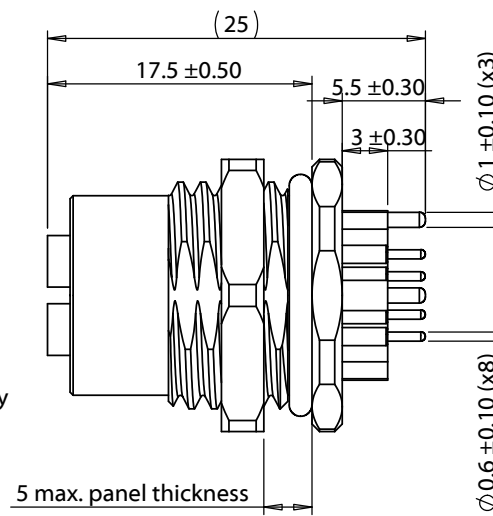
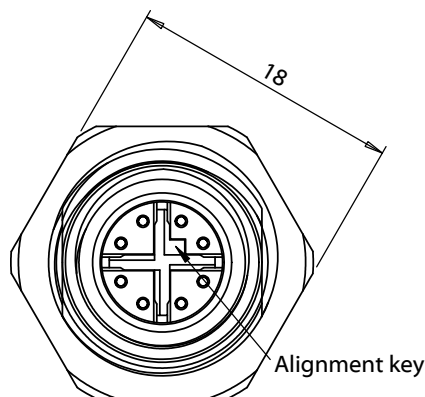
Salt spray test: 35 °C, relative humidity 90-95%, 5% NaCl mist for 48 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 10 mΩ.
Waterproof: IP67 (in mated state). IP67 panel ingress requires sealing cap.

Solderability

Recommended process: wave solder (260° C max temp)
PCB thickness: 2.0 mm max



Front view
Not to Scale



Revision:	Date:	Description:	Prepared:	Notes:	<div style="text-align: center;"> <h1>TENSILITY</h1> <p>tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com</p> </div>
A	12/1/2020	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, 8 pin M12 X-code socket, 12xL25mm, gold plated, panel mount, through hole, IP67, shielded	
					<div> <div>Size: A</div> <div>Part number: 54-00265</div> </div>
					<div> <div>Scale: 2:1</div> <div> </div> <div>Sheet 1 of 1</div> </div>