Style
M12 Plug, shielded
8 pin
A-coding

Ratings
Voltage: 30 V
Current: 2 A

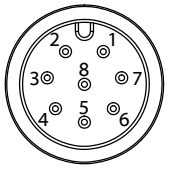
Operating Temperature Range
-40 ~ 105 °C

Materials
① Insulator: Polyamide 66 (PA66), UL94 HB, black
② Pin: C3604 brass, gold plated
③ Shell: C3604 brass, nickel plated
④ Nut: C3604 brass, nickel plated
⑤ O-ring: Nitrile rubber, black & green

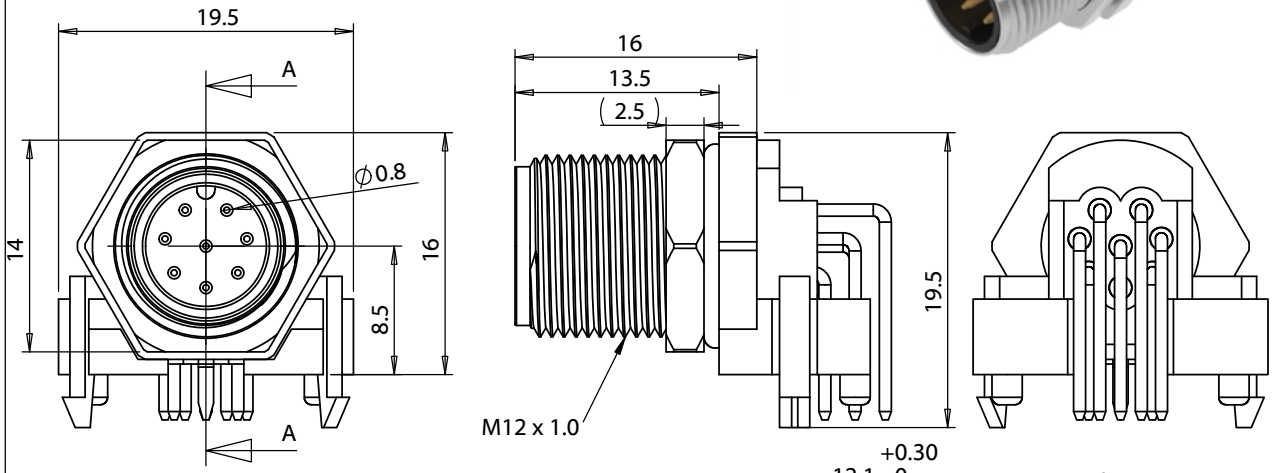
Electrical Requirements
Dielectric strength: 1 min @ 500 Vac
Insulation resistance: 100 MΩ @ 500 Vdc
Contact resistance: 10 mΩ or less

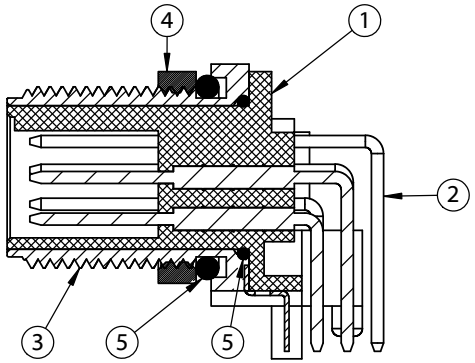
Mechanical Requirements
Life cycle: 500 mating cycles minimum

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

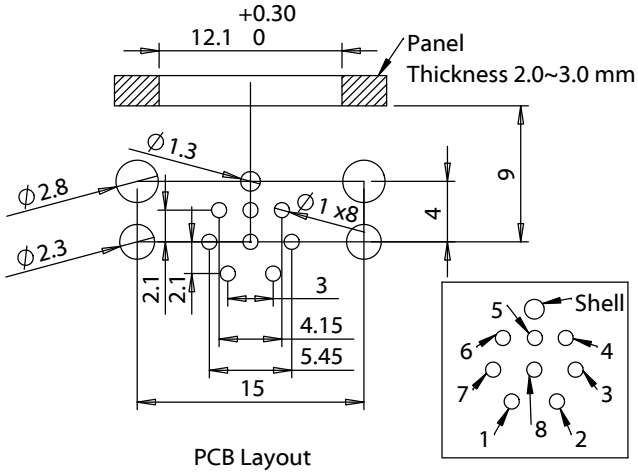


Front View
Not to Scale





SECTION A-A



PCB Layout

Revision:	Date:	Description:
A	9/30/2020	Initial release

Prepared: JC Digitally signed by JC Date: 2020.10.23 15:52:39 -07'00'

Verified: AG Digitally signed by AG Date: 2020.10.23 16:00:19 -07'00'

Dimensions are in millimeters.
Tolerances:
X: ± 0.5 mm
X.X: ± 0.3 mm
X.XX: ± 0.1 mm

Notes:
RoHS compliant

Function test: no open, no short circuit, no intermittent

Description:
Connector, 8 pin M12 A-code plug, 12xL25mm, gold plated, PCB mount, 90°, PCB, IP67

TENSILITY
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fax 1.541.323.4202 web tensility.com

Size: A
Part number: 54-00251
Scale: 2:1
Sheet 1 of 1

5 4 3 2 1