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
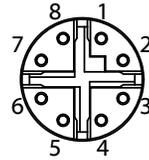Contact resistance: 10 mΩ or less

Mechanical Requirements
Life cycle: 500 mating cycles minimum

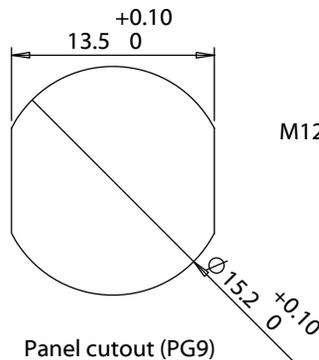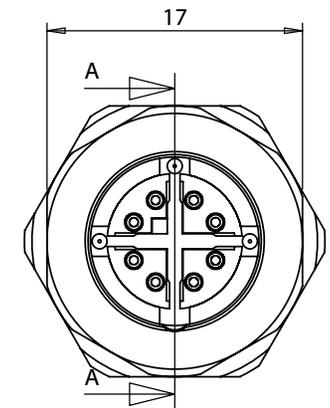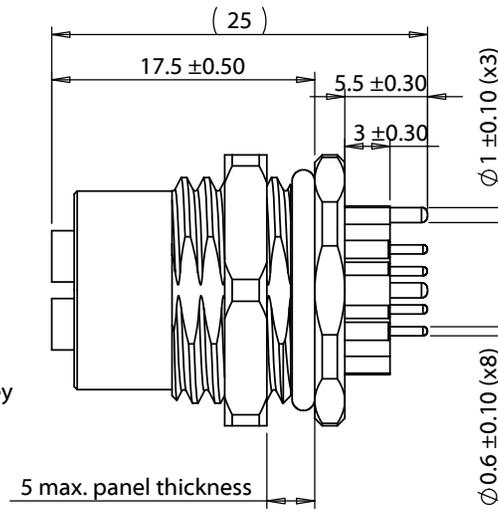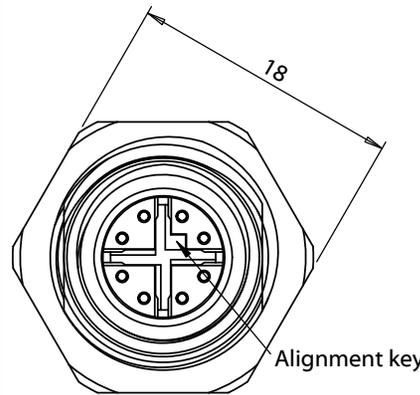**Environmental Requirements**
Salt spray test: 35 °C, relative humidity 90-95%, 5% NaCl
mist for 48 hrs. Wash parts after test. Maintain mechanical
requirements and a contact resistance of less than 10 mΩ.
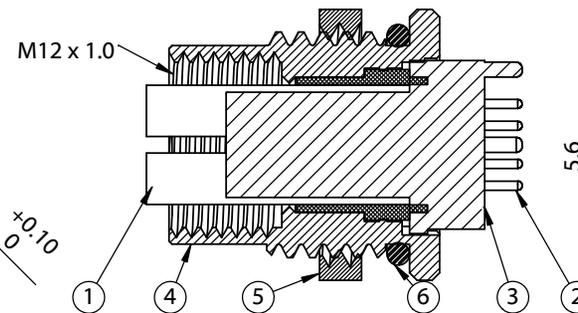Waterproof: IP67

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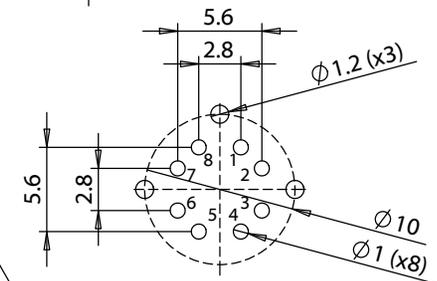PCB thickness: 2.0 mm max

Front view
Not to Scale

Alignment key

25
17.5 ±0.50
5.5 ±0.30
3 ±0.30
ϕ 1 ±0.10 (x3)
ϕ 0.6 ±0.10 (x8)

5 max. panel thickness

17
A
A

18

+0.10
13.5   0

ϕ 15.2   +0.10 / 0

Panel cutout (PG9)

M12 x 1.0

SECTION A-A

① ④ ⑤ ⑥ ③ ②

5.6
2.8
ϕ 1.2 (x3)
5.6
2.8
8 1 2
7   3
6 5 4
ϕ 10
ϕ 1 (x8)

PCB Layout