### Style

M12 Plug, shielded 8 pin A-coding

Ratings Voltage: 30 V Current: 2 A

# Operating Temperature Range -40~105 $^{\circ}\text{C}$

### 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

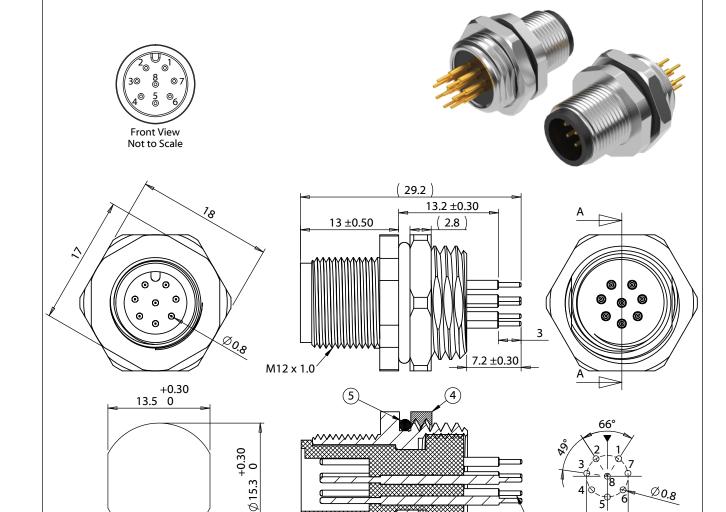
Electrical Requirements
Dielectric strength: 1 min @ 500 Vac Insulation resistance: 100 M $\Omega$  @ 500 Vdc Contact resistance:  $10 \text{ m}\Omega$  or less

**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 m $\Omega$ . Waterproof: IP67

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**PCB Layout** 

**SECTION A-A** 

Revision:	Date:	Description:	Prepared:	Notes:				
Α	10/6/2020	Initial release		RoHS compliant		F	NSII .	ITY
			Verified:  Dimensions are in millimeters. Tolerances: X: ± 0.3 mm	Function test: no open, no short circuit, no intermittent	tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com			
				Description:  Connector, 8 pin M12 A-code plug, 12xL29.2mm, gold plated, panel mount, PCB, IP67	Size: Part number: A 54-00212			
			X.X: ± 0.1 mm X.XX: ± 0.05 mm		Scale:	2:1		Sheet 1 of 1

Panel cutout (PG9) Panel thickness (4.5mm max.)