

Style

M12 Socket
4 pin
A-coding

Ratings

Voltage: 250 V
Current: 4 A
Flammability: UL94 V-0

Operating Temperature Range

-25 ~ 80 °C

Materials

- ① Insulator: Polyamide 66 (PA66), UL94 V-0, black
- ② Pin: C3604 Brass, gold plated
- ③ M12 Shell: Zinc alloy, nickel plated
- ④ Screw: Polyamide 66 (PA66), UL94 V-0, black
- ⑤ Outer Shell: Polyamide 66 (PA66), UL94 V-0, black
- ⑥ Collet nut: Polyamide 66 (PA66), UL94 V-0, black
- ⑦ Collet: Silicone, black
- ⑧ O-ring: Silicone, green

Electrical Requirements

Dielectric strength: 1 min @ 1500 Vac
Insulation resistance: 100 MΩ @ 500 Vdc
Contact resistance: 10 mΩ or less

Mechanical Requirements

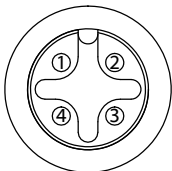
Life cycle: 500 mating cycles minimum

Assembly Info

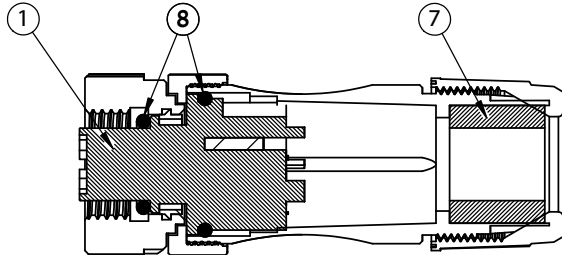
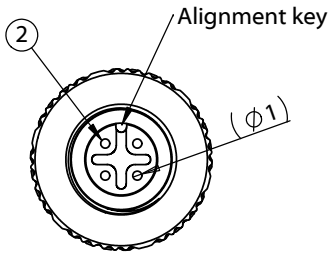
Allen key: 1.0 mm (included)
Waterproof: IP67
Recommended cable OD: 4.0 ~ 8.0 mm
Terminal style: screw, 1.0 mm diameter
Max torque force:
M12 shell: 0.4 Nm
Collet nut: 0.8 ~ 1.0 Nm

Recommended Wires

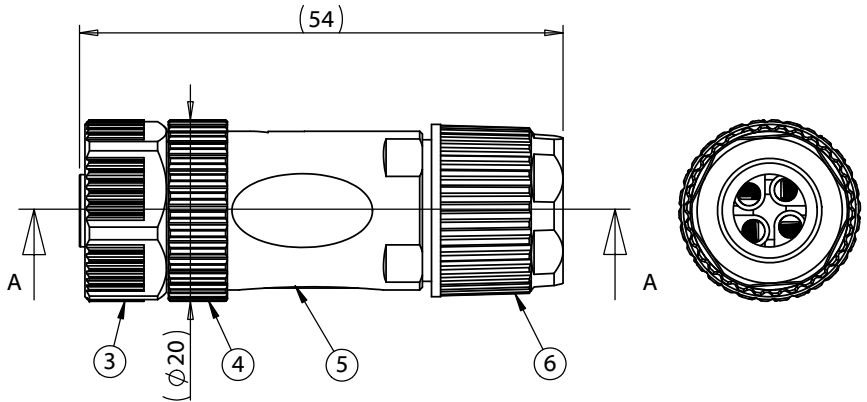
AWG	TPU wire	PVC wire	4A compatible
22	30-03078	30-01658 30-03385	Yes



Front View
Not to Scale



SECTION A-A



Revision:	Date:	Description:	Prepared: CR Digitally signed by CR Date: 2026.07.31 11:23:22 -07'00'	Notes:	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com
A	07/28/2026	Initial release	Verified: KW Digitally signed by KW Date: 2026.07.31 14:07:04 -07'00'	RoHS compliant	
			Dimensions are in millimeters.	Function test: no open, no short circuit, no intermittent	
			Tolerances:	Description:	Size: Part number:
			X: ± 0.3 mm	Connector, M12 A-code socket, 4 pin, 12xL54 mm, gold plated, assembly style, screw terminal, IP67, metal thread	A 55-00501
			X.X: ± 0.1 mm		Scale: 1.2:1
			X.XX: ± 0.05 mm		Sheet 1 of 1