

### Style

M12 99° Plug, shielded  
5 pin  
A-coding

### Ratings

Voltage: 60 V  
Current: 4 A

### Operating Temperature Range

-40~120°C

### Materials

- ① Insulator: Polyamide 66 (PA66), UL94 V-0, black
- ② Pin: C3604 Brass, gold plated
- ③ M12 Shell: C3604 Brass, nickel plated
- ④ Outer Shell: C3604 Brass, nickel plated
- ⑤ Metal ring: C3604 Brass, nickel plated
- ⑥ Collet nut: C3604 Brass, nickel plated
- ⑦ Collet: Polyamide 66 (PA66), UL94 V-0, black
- ⑧ O-ring: Silicone, green
- ⑨ Washer: 65Mn Steel, nickel plated

### Electrical Requirements

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

### Mechanical Requirements

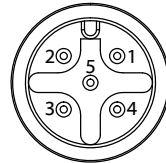
Life cycle: 1000 mating cycles minimum

### Assembly Info

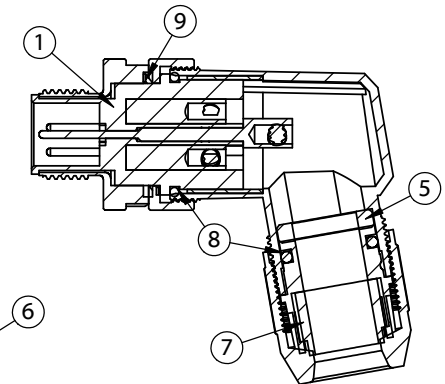
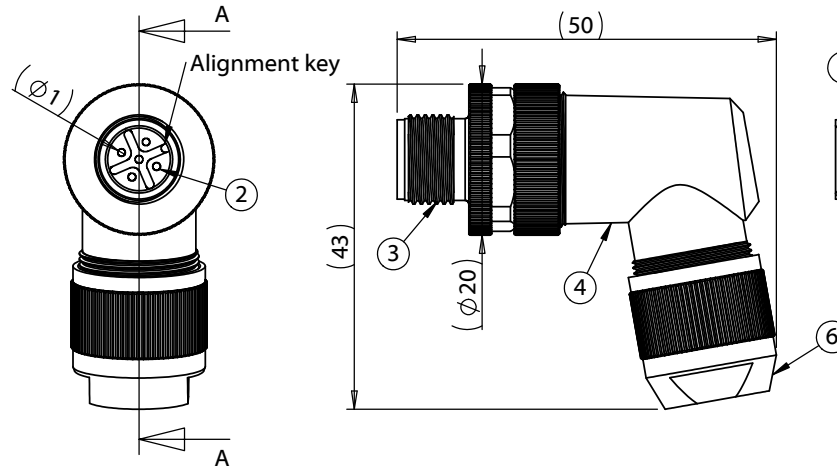
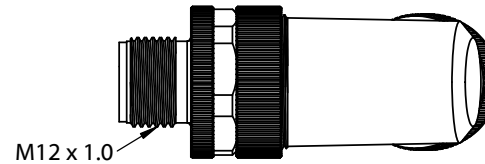
Waterproof: IP67  
Suitable cable OD: 6.0 ~ 8.2 mm  
Terminal style: screw  
Max torque force:  
M12 shell: 0.4 Nm  
Collect nut: 0.8 ~ 1.0 Nm

### Recommended Wires

| AWG | TPU wire | PVC wire | 4A compatible |
|-----|----------|----------|---------------|
| 18  | 30-03012 | 30-01584 | Yes           |
| 20  | 30-03013 | 30-01585 | Yes           |
| 22  | 30-03014 | 30-01586 | Yes           |
| 24  | 30-03015 | 30-01587 | Yes           |
|     |          | 30-02976 | Yes           |



Front View  
Not to Scale



SECTION A-A

|           |            |                 |                                                                                                  |                                                                                                                               |                                                                                                        |                          |              |
|-----------|------------|-----------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|--------------------------|--------------|
| Revision: | Date:      | Description:    | Prepared:                                                                                        | Notes:                                                                                                                        | <h1>TENSILITY</h1> <p>tel 1.541.323.3228 800 877.670.7118<br/>fax 1.541.323.4202 web tensility.com</p> |                          |              |
| A         | 05/24/2024 | Initial release | Verified:                                                                                        | RoHS compliant<br>Function test: no open, no short circuit, no intermittent                                                   |                                                                                                        |                          |              |
|           |            |                 | Dimensions are in millimeters.<br>Tolerances:<br>X: ± 0.3 mm<br>X.X: ± 0.1 mm<br>X.XX: ± 0.05 mm | Description:<br>Connector, M12 A-code plug, 5 pin, 12xL43 mm, 99° gold plated, assembly style, screw terminal, IP67, shielded | Size:<br>A                                                                                             | Part number:<br>55-00302 |              |
|           |            |                 |                                                                                                  |                                                                                                                               | Scale: 1:1                                                                                             |                          | Sheet 1 of 1 |