

**Style**

M12 99° Socket, 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**

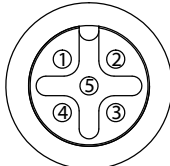
Life cycle: 1000 mating cycles minimum

**Assembly Info**

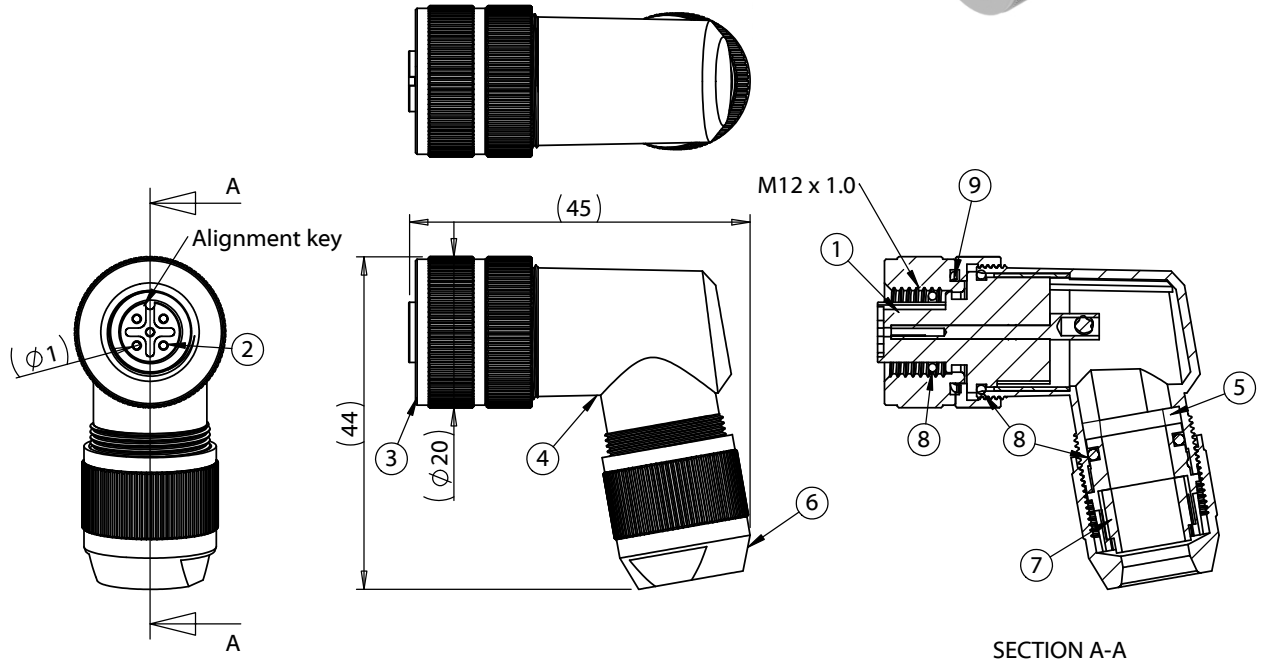
Waterproof: IP67  
Suitable cable OD: 6.0 ~ 8.2 mm  
Terminal style: screw  
Max torque force:  
M12 shell: 0.4 Nm  
Collect nut: 0.8 ~ 1.0 Nm

**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



|           |            |                 |                                                                                                  |                                                                                                                                 |                                                                                                                     |                          |              |
|-----------|------------|-----------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------|--------------------------|--------------|
| Revision: | Date:      | Description:    | Prepared:                                                                                        | Notes:                                                                                                                          | <div>TENSILITY</div> <div>tel 1.541.323.3228 800 877.670.7118</div> <div>fax 1.541.323.4202 web tensility.com</div> |                          |              |
| A         | 11/28/2024 | 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 socket, 5 pin, 12xL44 mm, 99° gold plated, assembly style, screw terminal, IP67, shielded | Size:<br>A                                                                                                          | Part number:<br>55-00305 |              |
|           |            |                 |                                                                                                  |                                                                                                                                 | Scale: 1:1                                                                                                          |                          | Sheet 1 of 1 |