

Materials

Connector: 50-01077

- ① Insulator, nylon + 15% glass fiber, UL94 V-0, black
- ② Center pin, C3604 brass, nickel plated
- ③ Insulation ring, fiberglass
- ④ Locking ring, C3604 brass, nickel plated
- ⑤ Center pin terminal, C2680 brass, tin plated
- ⑥ Cable clamp sleeve terminal, C2680 brass, tin plated
- ⑦ Outer shell, C3604 brass, nickel plated

Sleeve: 56-00033

- ⑧ Sleeve, TPV, black

Wire outer diameter range: 4.6 - 5.3 mm

Electrical Requirements

- Dielectric strength: 1 min @ 500 Vac
- Insulation resistance: 100 MΩ @ 500 Vdc
- Contact resistance: 30 mΩ or less

Mechanical Requirements

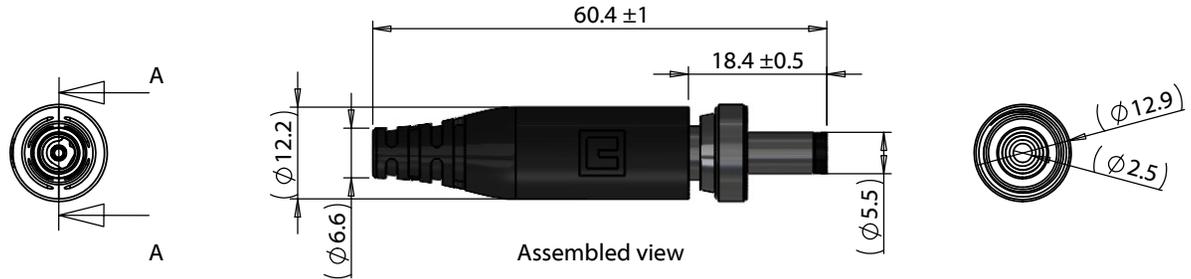
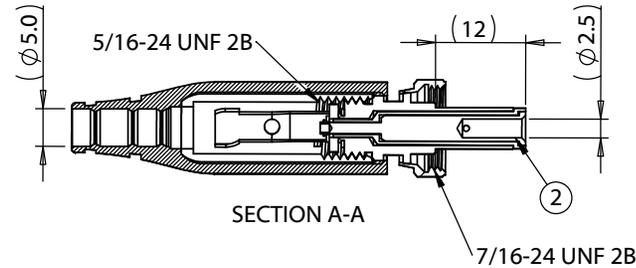
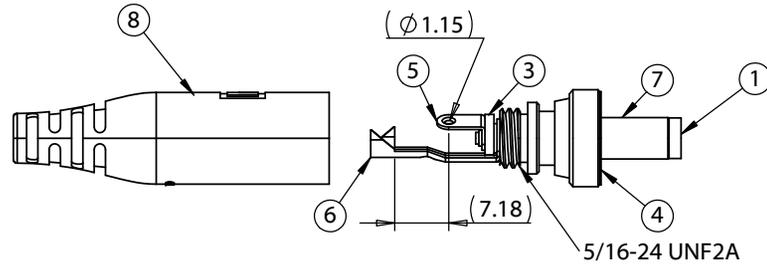
- Life cycle: 5000 mating cycles minimum
- Insertion force: 0.3~4 kgf
- Withdrawal force: 0.3~4 kgf

Environment Requirements

- Heat Test: 70±2°C, relative humidity 70-85% for 48 hours without deformation.
- Humidity Test: 40±2°C, relative humidity 90-95% for 48 hours without deformation.
- Salt spray test: 5% salt water (PH 6.5-7.2) for 48 hours without deformation.

Recommended Wires

Tensility P/N	AWG
30-00555	16
30-02335	18
30-00683	18
30-03061	20
30-03062	22
30-03063	24



Revision:	Date:	Description:
A	02/27/2025	Initial release

Prepared:

Verified:

Dimensions are in millimeters.
Tolerances:
X: ± 0.3 mm
X.X: ± 0.1 mm
X.XX: ± 0.05 mm

Notes:

RoHS compliant

Function test: no open, no short circuit, no intermittent

Description:
Connector, dc plug, 5.5x2.5xL60.4 mm, 5.3 mm SR, locking style, assembly type, IP68, threaded

TENSILITY

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Size: A Part number: 55-00203

Scale: 1:1 Sheet 1 of 2

