

Materials

Connector: 50-01076

- 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: 56-00034

- ⑧ Sleeve, TPV, black
Wire outer diameter range: 3.9 - 4.5 mm

Electrical Requirements

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

Mechanical Requirements

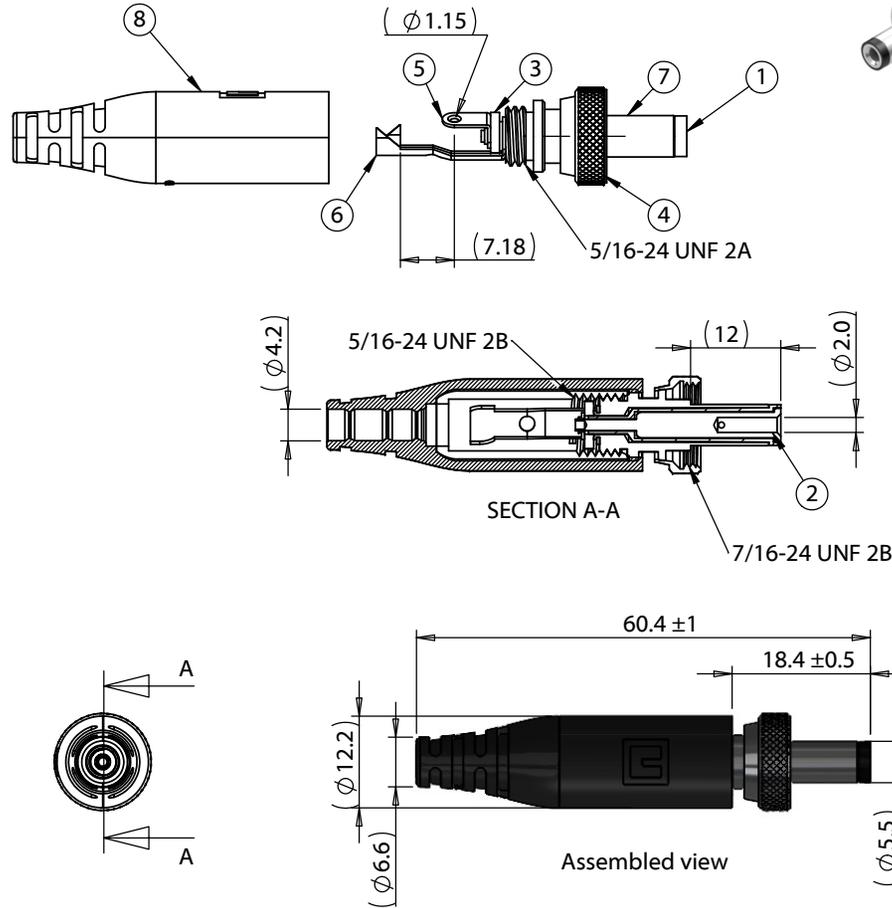
Life cycle: 5000 mating cycles minimum
Insertion force: 0.3~4 kgf
Withdrawal force: 0.3~4 kgf

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
30-00558	18
30-01901	20
30-00689	22
30-00692	24
30-03064	26



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, 5.5x2.0xL60.4 mm, 4.5 mm SR, locking style, assembly type, IP68, threaded

TENSILITY

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Size: A Part number: 55-00201

Scale: 1:1

Sheet 1 of 2

