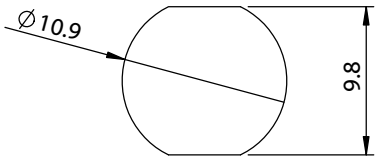
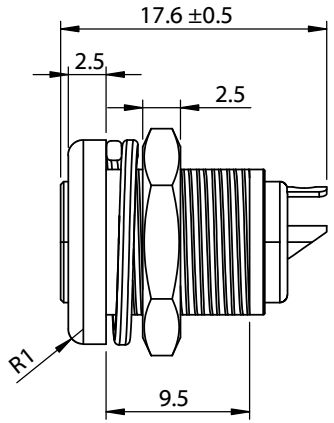
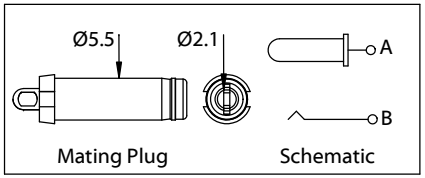
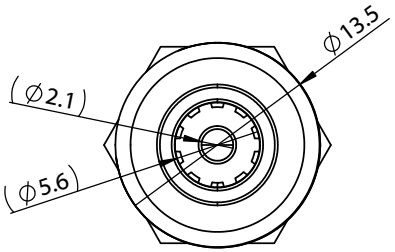
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.	COMPONENT NOTES
1	50-01094	Connector, dc jack, 5.5x2.1x17.6 mm, molding style, spring contacts, nickel plated, 200° C	1	
2	24-00287	Overmold, jack, 13.5x14 mm, panel mount	1	LCP, 94V-0 , black
3	56-00000	Hardware, nut, hex, 13x2.5 mm, M11x1.0, brass, nickel plated	1	
4	56-00001	Hardware, washer, lock, 14x11.1x1.1 mm, SPCC, nickel plated	1	

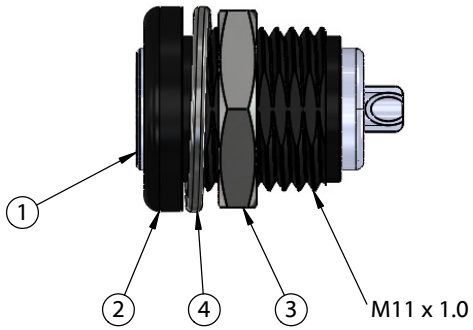
Installation Details
Panel thickness: 1.5 - 4.5
Recommended panel cutout:

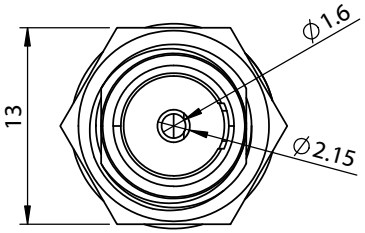












Revision:	Date:	Description:
A	05/14/2025	Initial release

Prepared: CR Digitally signed by CR Date: 2025.09.02 12:33:55 -07'00'

Verified: AV Digitally signed by AV Date: 2025.09.02 17:43:00 -07'00'

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 jack, 5.5x2.1xL17.6 mm, panel mount, nickel plated, threaded, nut and washer

TENSILITY
tel 1.541.323.3228 800 877.670.7118
fax 1.541.323.4202 web tensility.com

Size: A
Part number: 54-00401
Scale: 2:1
Sheet 1 of 2

5 4 3 2 1

To see a custom version of this cable assembly, call Tensility at 541-323-3228 or email engineering@tensility.com

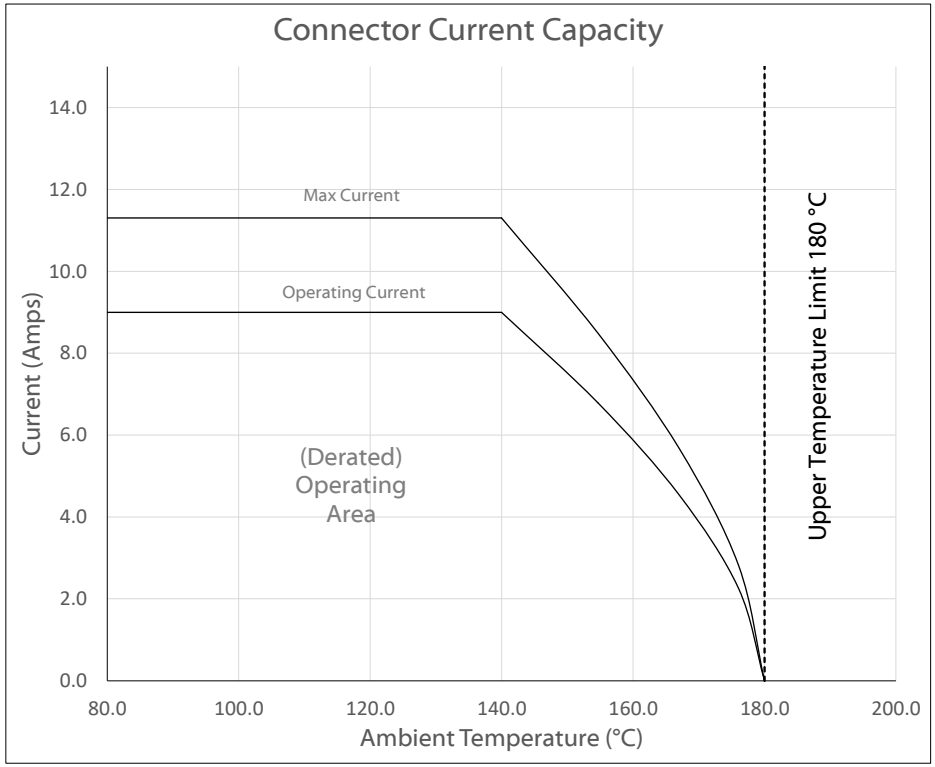
Ratings
Maximum Operating Voltage: 48 Vdc
Maximum Operating Current: 9 A

Operating Temperature Range
-50°~200 °C

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

Mechanical Requirements
Insertion force: 0.3-3 kgf
Withdrawal force: 0.3-3 kgf
Life cycle: 5000 mating cycles while maintaining 0.3-2.0 kgf min. insertion force, 0.2-1.5 kgf min. withdrawal force and less than 100 mΩ contact resistance.

Environmental Requirements
Heat test: 70 °C, relative humidity 70-85% for 96 hours while maintaining contact resistance: 100 mΩ maximum, insulation resistance: 50 MΩ @500 Vac, without looseness or deformation
Humidity test: 40 °C, relative humidity 90-100% for 96 hours while maintaining dielectric strength: 1 min. @ 500 Vac, insulation resistance: 50 MΩ @ 500 Vdc, contact resistance: 100 mΩ maximum
Salt spray test: 35 ±2 °C, relative humidity 90-95%, 5% NaCl mist for 24 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 80 mΩ.



Testing based on IEC 60512-5-2. Max current curve generated with isolated test article under controlled environmental conditions, based on a 40°C temperature rise difference. Test does not take into account external factors such as housings,mating cables, or other circuitry. Operating current curve (derated by 20% of maximum values) accounts for external factors, and manufacturing variation.

Revision:	Date:	Description:
A	05/14/2025	Initial release

Prepared:
CR
Digitally signed by CR
Date: 2025.09.02 12:33:34 -07'00'

Verified:
AV
Digitally signed by AV
Date: 2025.09.15 11:45:56 -07'00'

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 jack, 5.5x2.1xL17.6 mm, panel mount, nickel plated, threaded, nut and washer

TENSILITY
tel 1.541.323.3228 *800* 877.670.7118
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5 4 3 2 1