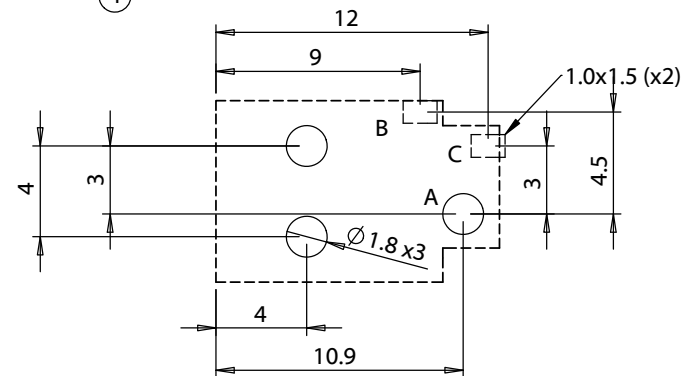
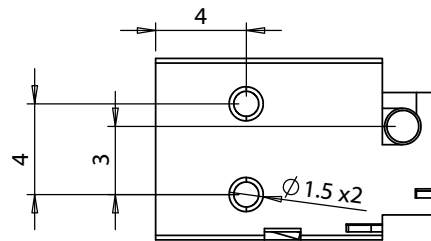
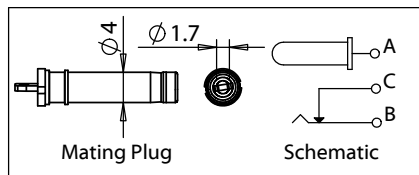
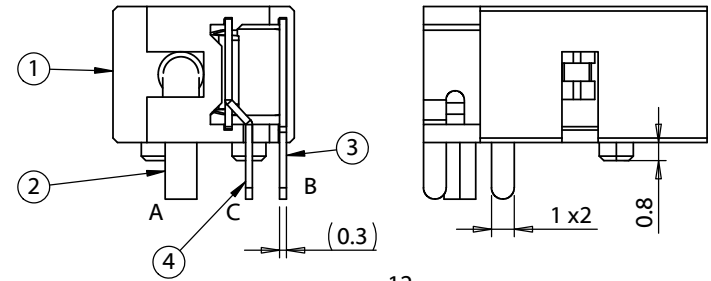
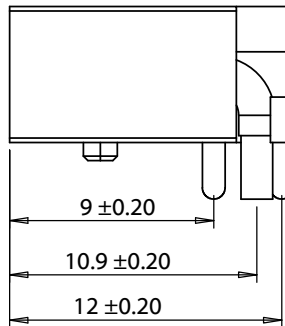
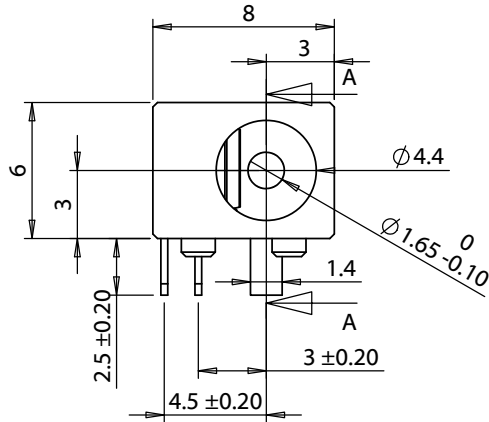
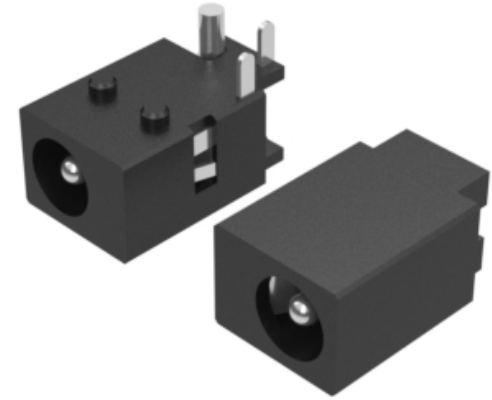
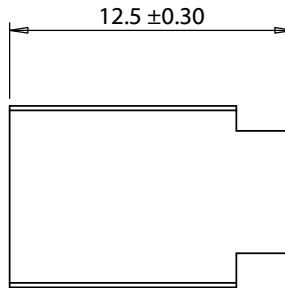


SECTION A-A



PCB Layout

Revision:	Date:	Description:	Prepared:	Notes:	<h1>TENSILITY</h1> <p>tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com</p>				
A	7/8/2021	Initial release	AW <small>Digitally signed by AW Date: 2021.07.09 11:31:20 -07'00'</small>	RoHS compliant					
			AG <small>Digitally signed by AG Date: 2021.07.09 11:32:29 -07'00'</small>	Function test: no open, no short circuit, no intermittent	<table border="1" style="width: 100%;"> <tr> <td>Size:</td> <td>Part number:</td> </tr> <tr> <td>A</td> <td>54-00288</td> </tr> </table>	Size:	Part number:	A	54-00288
Size:	Part number:								
A	54-00288								
			Dimensions are in millimeters. Tolerances: X: ± 0.2 mm X.X: ± 0.2 mm X.XX: ± 0.2 mm	Description: Connector, dc jack 4.0x1.7 mm, PCB mount, 90°, silver plated, PA9T, thru hole	<table border="1" style="width: 100%;"> <tr> <td>Scale: 3:1</td> <td style="text-align: center;"> </td> <td>Sheet 1 of 2</td> </tr> </table>	Scale: 3:1		Sheet 1 of 2	
Scale: 3:1		Sheet 1 of 2							

Ratings

Voltage: 48 V
 Current: 6.5 A (not mated under load)

Operating Temperature Range

-40~105 °C, relative humidity of 85% or less

Materials

- ① Insulator: PA9T, black
- ② Pin: C3604 brass, nickel plated
- ③ Shell contact: C3604 brass, silver plated
- ④ Switch contact: C5191 phosphor bronze, silver plated

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 kgf min.
 insertion force, 0.2 kgf min. withdrawal force and less than
 100 mΩ contact resistance.

Soldering

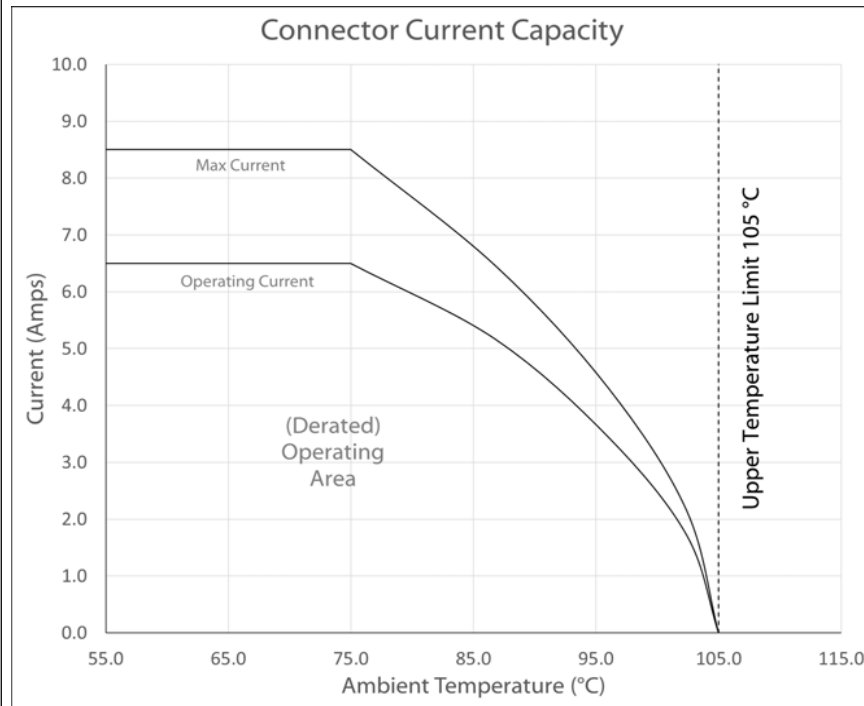
Solderability: 90% minimum coverage when terminals dipped 2mm
 in 260 ±5 °C solder bath for 3 ±0.5 seconds
 Solder bath durability: no deformation when immersed in 260 ±5 °C
 up to surface of the board 2.0 mm for 5 seconds or less
 Solder iron durability: no deformation when exposed to 350 ±10 °C
 for 3 ±0.5 seconds

Environmental Requirements

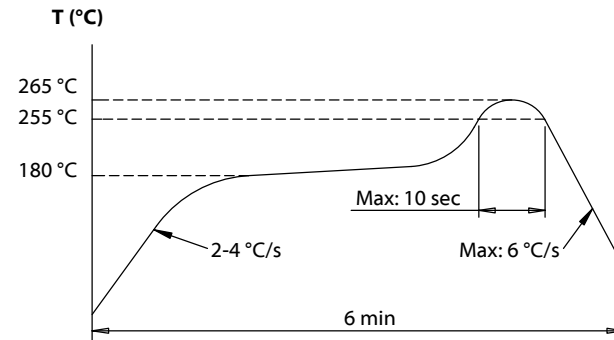
Cold test: -25 ±3 °C for 48 hours without deformation
 Heat test: 85 °C, relative humidity 70-85% for 96 hours
 without deformation
 Humidity test: 40 °C, relative humidity 90-100% for 96 hours
 without deformation
 Salt spray test: 35 °C, relative humidity 90-95%, 5% NaCl
 mist for 24 hrs. Wash parts after test. Maintain mechanical
 requirements and a contact resistance of less than 80 mΩ.

Packaging Info:

Connectors packaged bulk 1000 pieces in sealed PE bag



Testing based on IEC 60512-5-2. Max current curve generated with isolated test article under controlled environmental conditions, and 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.



Reflow soldering temperature profile

Revision:	Date:	Description:	Prepared:	Notes:	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com
A	7/8/2021	Initial release	AW <small>Digitally signed by AW Date: 2021.07.09 11:31:32 -07'00'</small>	RoHS compliant	
			Verified:	Function test: no open, no short circuit, no intermittent	Size: Part number: A 54-00288
			AG <small>Digitally signed by AG Date: 2021.07.09 11:32:43 -07'00'</small>	Description: Connector, dc jack 4.0x1.7 mm, PCB mount, 90°, silver plated, PA9T, thru hole	
					Scale: 3:1 Sheet 2 of 2