

### Materials

1. Shell, stainless steel, nickel plated
2. Pins, brass, 5  $\mu$ " gold and tin plating
3. Insulator, PBT, black

### Electrical

Rated voltage: 30 Vdc  
Rated current: 3 A  
Dielectric strength: 1 min @ 500 Vac  
Insulation resistance: 500 M $\Omega$  @ 500 Vdc  
Contact resistance: 50 m $\Omega$  or less

### Mechanical

Insertion force: 3.5 kgf maximum  
Withdrawal force: 1.0 kgf minimum  
Durability: 1500 cycle minimum life; less than 100 m $\Omega$  contact resistance, minimum 100 M $\Omega$  insulation resistance  
Terminal strength: 0.3 kgf in any direction without damage or looseness

### Soldering

Solderability: 75% minimum coverage when terminals dipped 2 mm in 245  $\pm$  5  $^{\circ}$ C solder bath for 3  $\pm$  0.5 seconds  
Solder bath durability: no deformation when immersed in 255  $\pm$  5  $^{\circ}$ C up to surface of the board for 5 seconds or less  
Solder iron durability: no deformation when exposed to 350  $\pm$  10  $^{\circ}$ C for 3  $\pm$  0.5 seconds

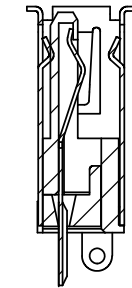
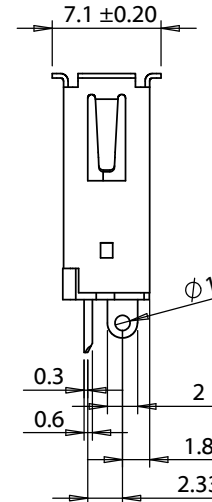
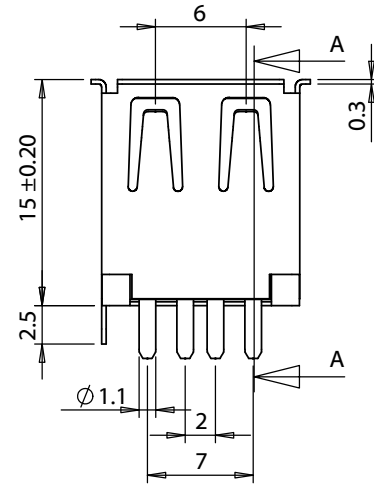
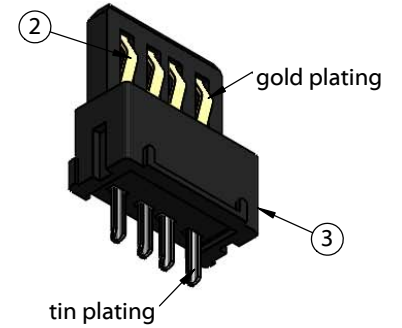
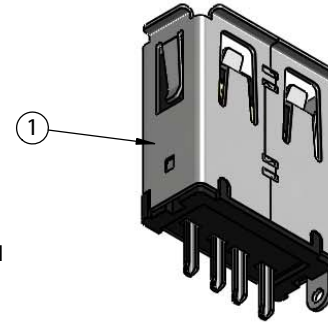
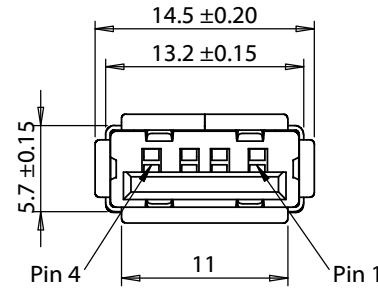
### Environmental

Cold test: -40  $\pm$  3  $^{\circ}$ C for 48 hours without deformation  
Heat test: 85  $\pm$  2  $^{\circ}$ C for 48 hours without deformation  
Humidity test: 40  $\pm$  2  $^{\circ}$ C and humidity between 90 and 98 % for 48 hours without deformation

### Operating range

-40 ~ 85  $^{\circ}$ C

## USB A jack molding style



SECTION A-A

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	12/16/2015	Initial release	Verified:	RoHS and REACH compliant	
A1	07/24/2018	Corrected operating temp range	Dimensions are in millimeters. Tolerances: X: $\pm$ 0.5 mm X.X: $\pm$ 0.3 mm X.XX: $\pm$ 0.05 mm	Function test: no open, no short circuit, no intermittent	
				Description: Connector, USB A Jack, molding style, 180 $^{\circ}$ , nickel shell, ground, black insulator	
			Scale: 2:1	Part number: A 50-00491	Sheet 1 of 1