

## Materials

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

## 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

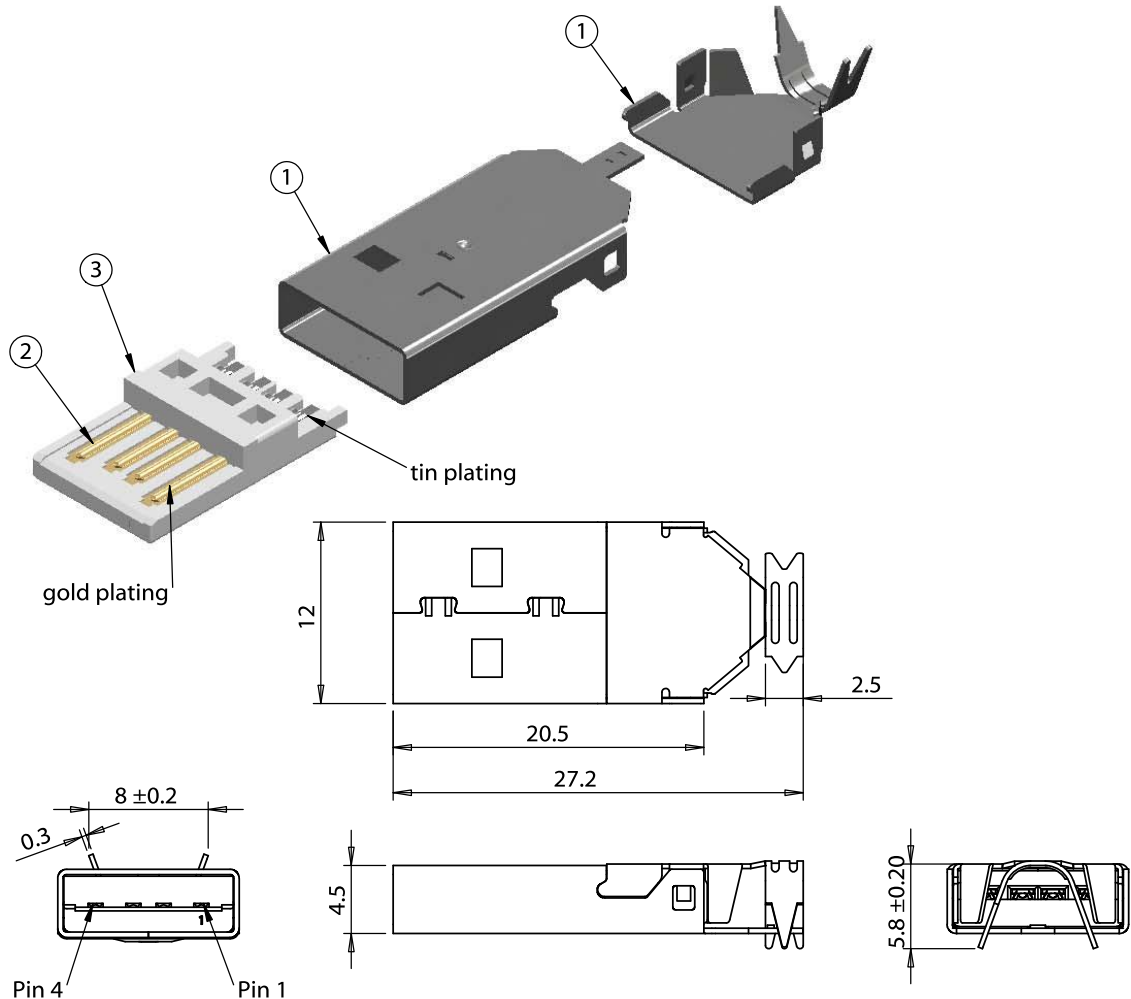
## Environmental

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 2.0 plug molding style



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	12/15/2015	Initial release	GL <small>Digitally signed by GL Date: 2018.08.06 09:15:34 -07'00'</small>	RoHS compliant			
A1	07/27/201/	Corrected operating temp range	Verified: RS <small>Digitally signed by RS Date: 2018.08.09 08:57:01 -07'00'</small>	Function test: no open, no short circuit, no intermittent	Size:	Part number:	
			Dimensions are in millimeters. Tolerances: X: $\pm$ 0.5 mm X.X: $\pm$ 0.3 mm X.XX: $\pm$ 0.05 mm	Description: Connector, USB A plug, molding style, nickel shell, shielded, white insulator	A	50-00467	
					Scale: 2:1		Sheet 1 of 1