

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

Materials

- 1. Shell, steel, nickel plated
- 2. Pins, brass, 5 μ " 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 Ω @ 500 Vdc Contact resistance: 50 m Ω or less

Mechanical

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

Soldering

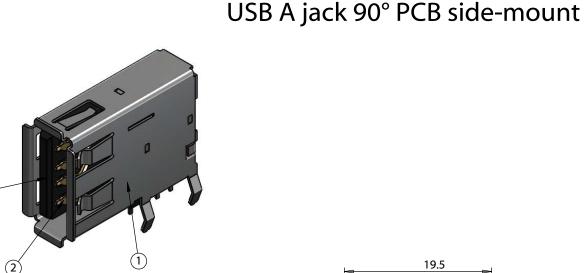
- Solderability: 75% minimum coverage when terminals dipped 2 mm in 245 ±5 °C solder bath for 3 ±0.5 seconds
- Solder bath durability: no deformation when immersed in 255 ±5 °C up to surface of the board for 5 seconds or less
- Solder iron durability: no deformation when exposed to 350 ± 10 °C for 3 ± 0.5 seconds

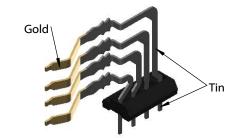
Environmental

Cold test: -40 ±3 °C for 48 hours without deformation Heat test: 85 ± 2 °C for 48 hours without deformation Humidity test: 40 ± 2 °C and humidity between 90 and 98 % for 48 hours without deformation

Operating range

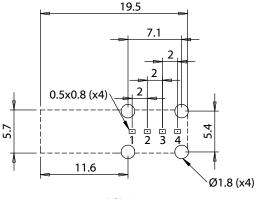
-40 ~ 85 °C





(3)

Pin plating detail



PCB Layout

Revision:	Date:	Description:	Prepared:	Notes:					
A	09/04/2015	Initial release		RoHS and REACH compliant	TENSILITY				
A1	07/30/2018	Corrected operating temp range	Verified:	Function test: no open, no short circuit, no intermittent		te	1.541.3	77.670.7118	
			Dimensions are in		fax 1.541.323.4202 web tensility.com				
			 millimeters. Tolerances: 	Description: Connector, USB A Jack, PCB side-mount, 90°, nickel shell, board lock, black insulator, tray		Size: Part number:			
			X: ± 0.5 mm			A	54-00013		
			X.X: ± 0.3 mm X.XX: ± 0.05 mm	shell, board lock, black insulato	a lock, black insulator, tray		2:1	$\bigcirc \bigcirc$	Sheet 2 of 2
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