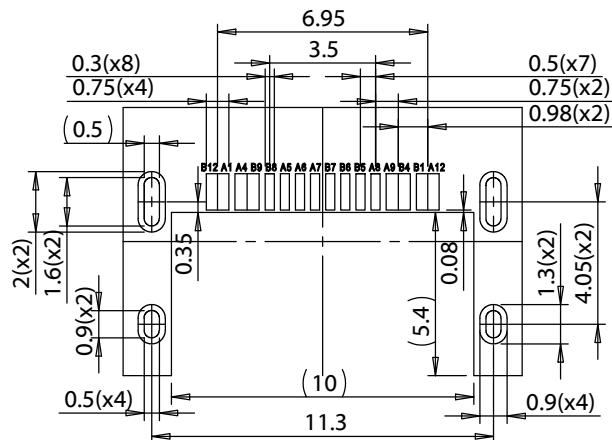
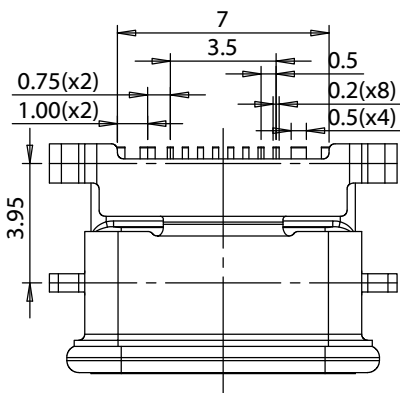
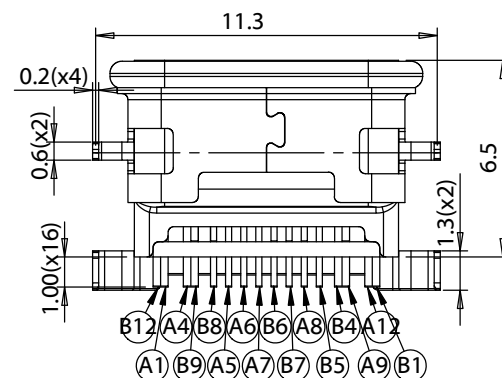
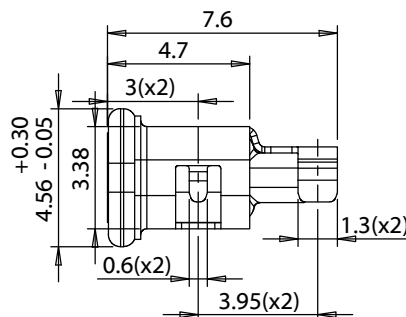
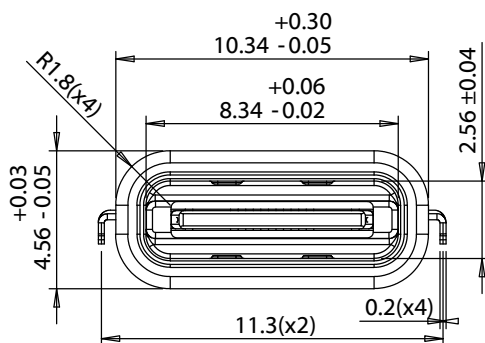




RECOMMENDED PCB LAYOUT
T= 1.00±0.05MM



PIN	Signal Name	PIN	Signal Name
A1	GND	B12	GND
A2	-----	B11	-----
A3	-----	B10	-----
A4	VBUS	B9	VBUS
A5	CC	B8	SBU2
A6	D+	B7	D-
A7	D-	B6	D+
A8	SBU1	B5	VCONN
A9	VBUS	B4	VBUS
A10	-----	B3	-----
A11	-----	B2	-----
A12	GND	B1	GND

Revision:	Date:	Description:	Prepared:	Notes:	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com Size: Part number: A 54-00528 Scale: 4:1 Sheet 1 of 2
A	7/10/2025	Initial release	Verified:	RoHS compliant	
			Dimensions are in millimeters.	Function test: no open, no short circuit, no intermittent	
			Tolerances:	Description:	
			X: ± 0.38 mm	Conector, USB C 2.0 jack, thru hole, SMT, IP68, gold plated	
			X.X: ± 0.25 mm		
			X.XX: ± 0.20 mm		

Ratings

Voltage: 20 Vdc

Current: 5 A

Operating Temperature Range

-55 ~ 85 °C, relative humidity of 85% or less

Materials

- ① Insulator: PA46, UL94 V - 0
- ② Shell: SUS304, nickel plated
- ③ Pin: copper, gold plated
- ④ Epoxy
- ⑤ Seal: silicone rubber, red

Electrical Requirements

Dielectric strength: 1 min @ 100 Vac

Insulation resistance: 100 MΩ min

Contact resistance: 50 mΩ or less

Mechanical Requirements

Insertion force: 0.5 - 2 N

Withdrawal force: 0.8 - 2 N

Life cycle: 10000 mating cycles

Environmental Requirements

Waterproof: IP68

Solderability

Soldering time: 4 ~ 5 second (Use flux)

Soldering Temperature: 245 ± 5 °C 95% min. of soldering area

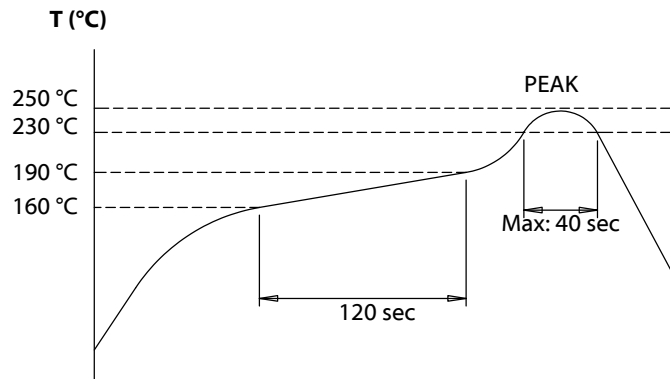
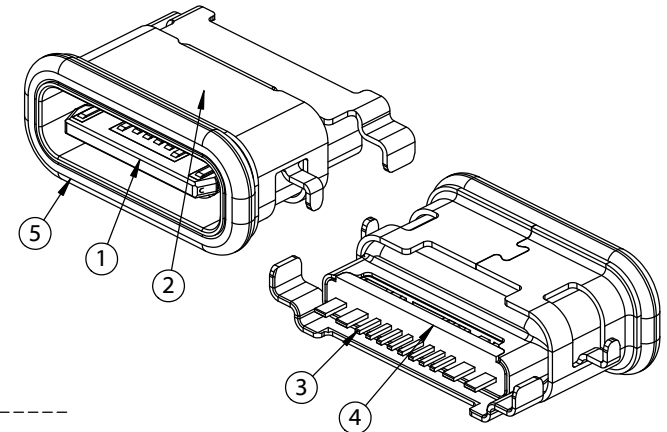
Soldering Iron method: 350 ± 5 °C for 3 ± 1 seconds

Packaging

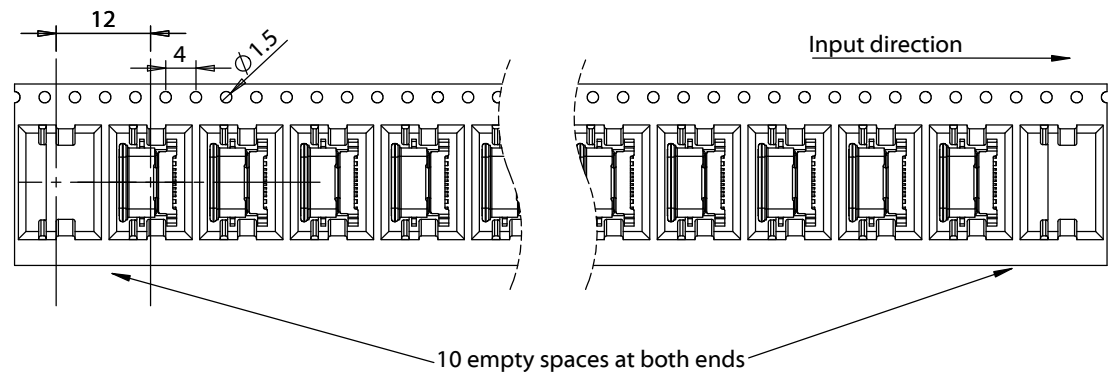
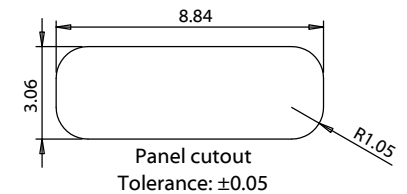
Tape and reel

1000 pieces per reel

17 reels per carton



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	7/10/2025	Initial release	Verified:	RoHS compliant Function test: no open, no short circuit, no intermittent			
			Dimensions are in millimeters. Tolerances: X: ± 0.38 mm X.X: ± 0.25 mm X.XX: ± 0.20 mm	Description: Conector, USB C 2.0 jack, thru hole, SMT, IP68, gold plated	Size: A	Part number: 54-00528	
					Scale: 4:1		Sheet 2 of 2

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