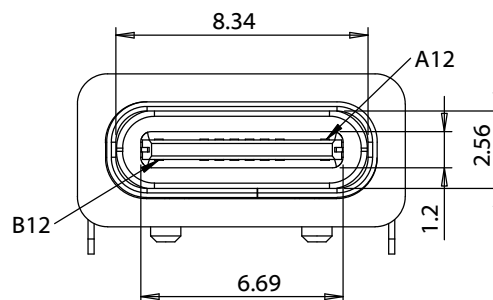
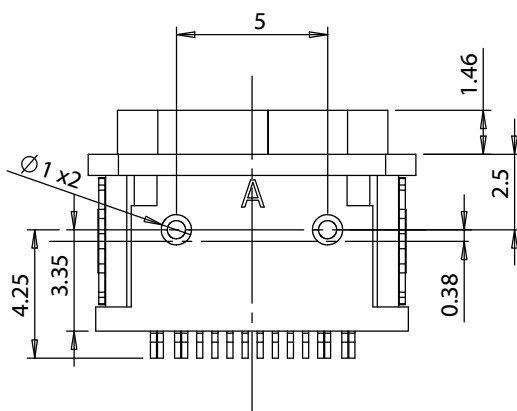
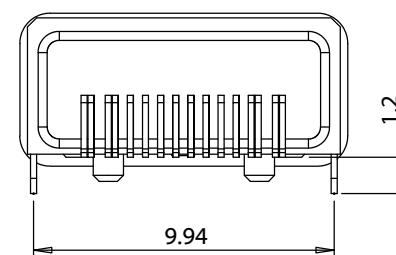
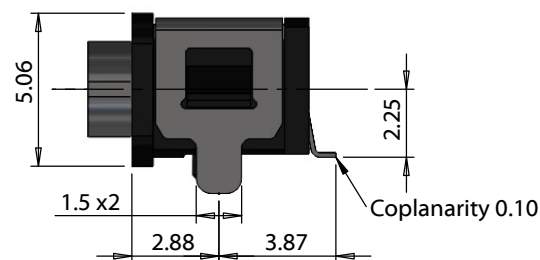
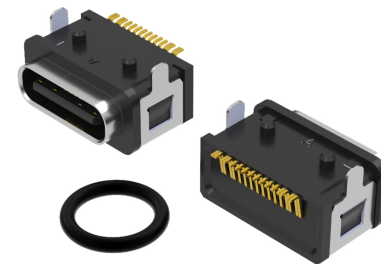
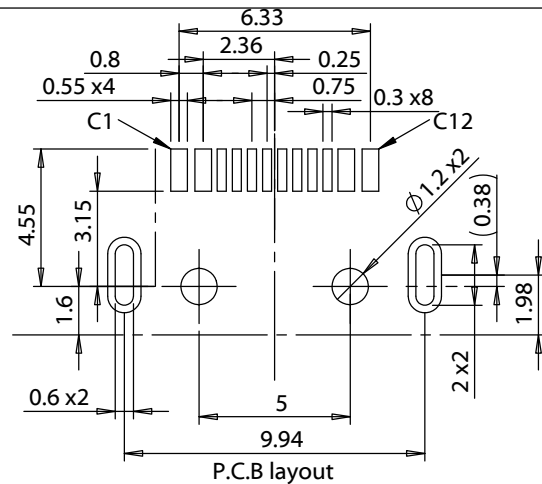
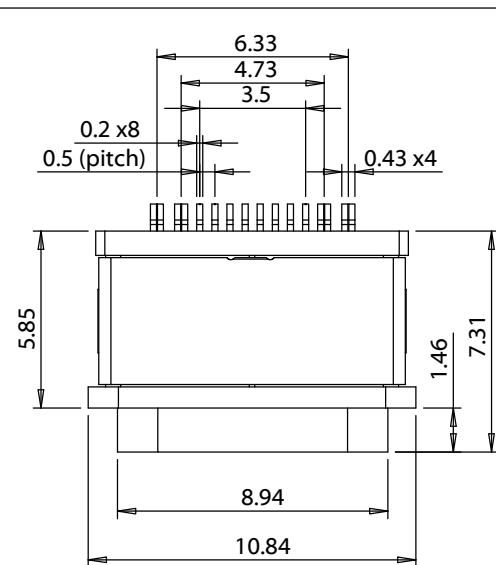




Pin	Signal	Signal	Pin
A1	GND	GND	B12
A4	VBUS	VBUS	B9
A5	CC1	SBU2	B8
A6	DP1	DN2	B7
A7	DN1	DP2	B6
A8	SBU1	CC2	B5
A9	VBUS	VBUS	B4
A12	GND	GND	B1

PCB pad no.	Signal
C1	GND
C2	VBUS
C3	SBU2
C4	CC1
C5	DN2
C6	DP1
C7	DN1
C8	DP2
C9	SBU1
C10	CC2
C11	VBUS
C12	GND

Revision:	Date:	Description:	Prepared:	Notes:	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com	
A	04/29/2026	Initial release	Verified:	RoHS compliant		
			Dimensions are in millimeters.	Function test: no open, no short circuit, no intermittent	Size: A Part number: 54-00563	
			Tolerances:	Description:	Scale: 4:1	
			X: ± 0.5 mm	Connector, USB C 2.0 jack, thru hole, SMT, 90°, nickel plated, IPX8	Sheet 1 of 2	
			X.X: ± 0.3 mm			
			X.XX: ± 0.05 mm			

Ratings

Voltage: 12 Vdc
Current: 5 A

Operating Temperature Range

-30 ~ 85 °C, relative humidity of 85% or less

Materials

- ① Insulator: PA10T + 30% GF, UL94 V-0, black
- ② Pin: C7025 phosphor bronze, 1u" gold plating
- ③ Insulator: PA10T + 30% GF, black
- ④ Shell: SUS304, nickel plating
- ⑤ Epoxy: black
- ⑥ O-ring: silicon rubber, black

Electrical Requirements

Dielectric strength: 1 min @ 100 Vac
Insulation resistance: 100 MΩ min
Contact resistance: 40 mΩ or less

Mechanical Requirements

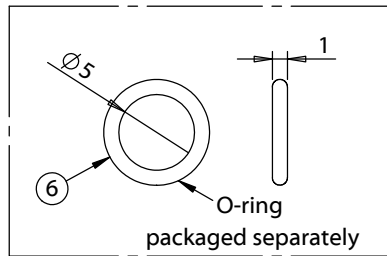
Insertion force: 0.5-2 kgf
Withdrawal force: 0.8-2 kgf
Life cycle: 10000 mating cycles while maintaining less than 50mΩ contact resistance (terminal) and 100mΩ contact resistance (ground)

Environmental Requirements

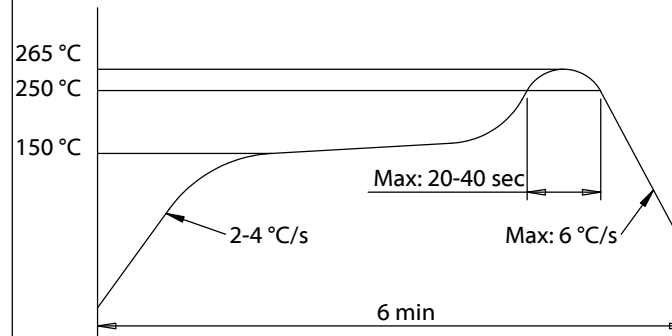
Ingress protection: IPX8, tested at 1.5 m for 30 minutes

Packaging

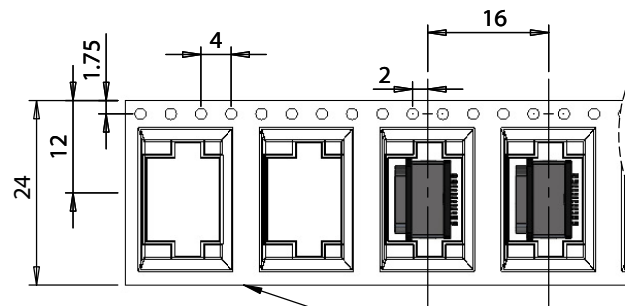
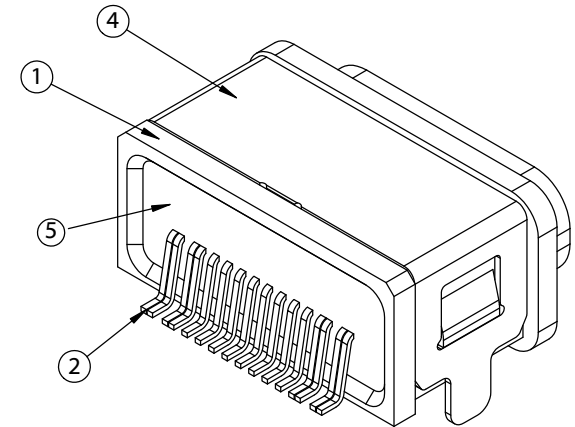
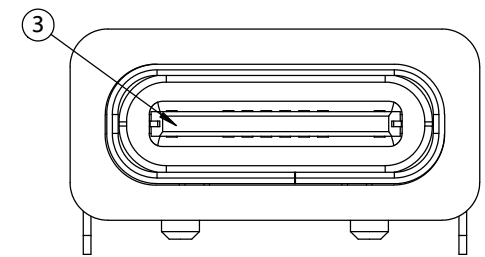
Tape and reel
600 pieces per reel
10 reels per carton



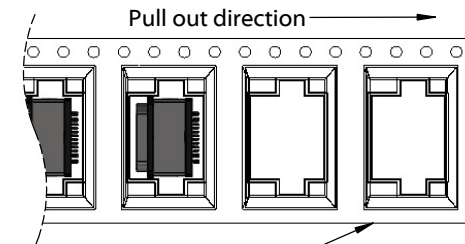
T (°C)



Reflow soldering temperature profile



240 mm empty at beginning and end of reel



Revision:	Date:	Description:	Prepared:	Notes:	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com		
A	04/29/2026	Initial release	Verified:	RoHS compliant Function test: no open, no short circuit, no intermittent			
			Dimensions are in millimeters. Tolerances: X: ± 0.3 mm X.X: ± 0.1 mm X.XX: ± 0.05 mm	Description: Connector, USB C 2.0 jack, thru hole, SMT, 90°, nickel plated, IPX8	Size: A	Part number: 54-00563	Sheet 2 of 2
					Scale: 5:1		