

Ratings

Voltage: 48 V
Current: 1.5 A
Signal: Ethernet CAT6a, 10 Gbps

Operating Temperature Range

-25~105 °C, relative humidity of 85% or less

Materials

- ① Insulator: PC, clear
- ② Contact: Copper, gold plated
- ③ Shell: C5191 phosphor bronze, nickel plated
- ④ Tape: Copper, adhesive on one side

Electrical Requirements

Dielectric strength: 1 min @ 500 Vac
Insulation resistance: 100 MΩ @ 500 Vdc
Contact resistance: 30 mΩ or less

Mechanical Requirements

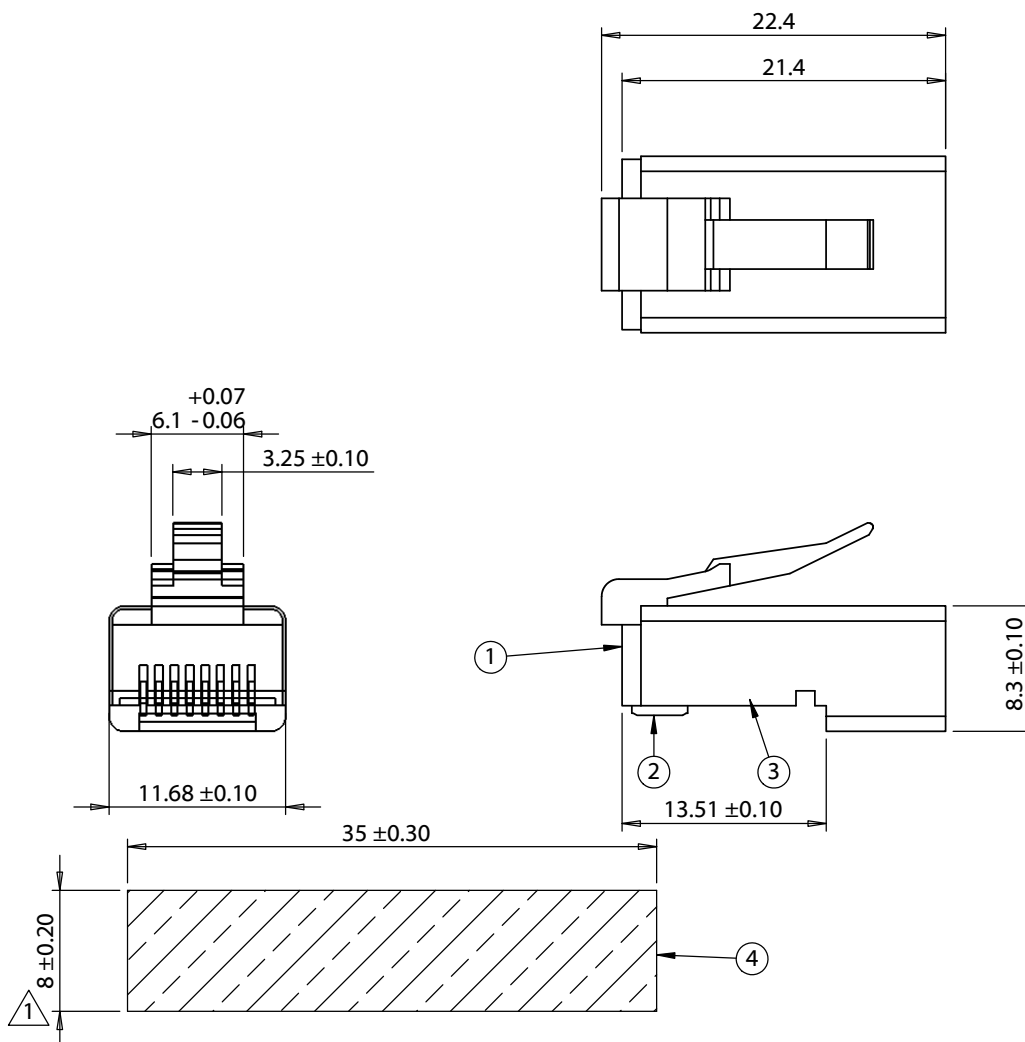
Life cycle: ≥ 1000 mating cycles

Environmental Requirements

Cold test: -25 ± 3 °C for 48 hours without deformation
Salt spray test: 35 °C, relative humidity 90-95%, 5% NaCl mist for 24 hrs. Wash parts after test. Maintain mechanical requirements and a contact resistance of less than 80 mΩ.

Assembly info

Wire insulation range: Ø1.05 - 1.15 mm
Cable jacket: Ø7.0 mm max



Revision:	Date:	Description:	Prepared:	Notes:	TENSILITY tel 1.541.323.3228 800 877.670.7118 fax 1.541.323.4202 web tensility.com		
A	12/10/2020	Initial release	KW Digitally signed by KW Date: 2026.08.14 15:52:44 -07'00'	RoHS compliant			
A1	08/14/2026	Copper Tape size	Verified: KM Digitally signed by KM Date: 2026.08.14 16:07:09 -07'00'	Function test: no open, no short circuit, no intermittent	Size:	Part number:	
			Dimensions are in millimeters. Tolerances: X: ± 0.3 mm X.X: ± 0.1 mm X.XX: ± 0.05 mm	Description:	A	50-00995	
				Connector, 8P8C RJ45 plug, IDC, CAT6a, shielded	Scale: 2:1		Sheet 1 of 1

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