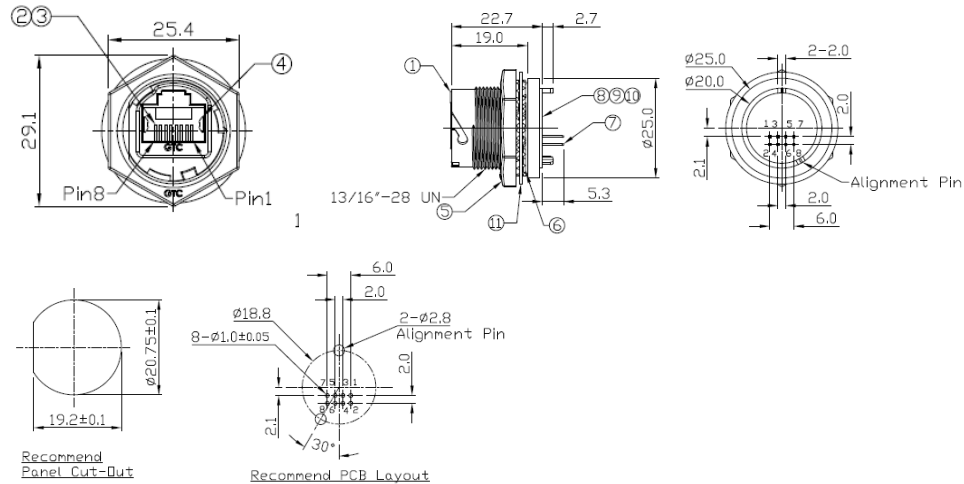


## RJ45 metal C3 Panel Jack DIP Lock/ Screw



Product Series: RJ45 (Metal) Series

Current Rating: 1.5 A

AWG Gauge: 22 AWG – 28 AWG

Panel Temperature Range: -40°C to 105°C

Cable Temperature Range: -40°C to 80°C

IP Range: IPX8

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### Material

Panel Housing:	Zn Alloy, Ni Plating
RJ45 Receptacle Housing:	PBT
RJ45 Receptacle Contacts:	Copper Alloy, Au Plating
RJ45 Receptacle Shell:	Copper Alloy, Ni Plating
EMI Plate:	Copper Alloy, Ni Plating
Panel O-Ring:	Silicone
Panel hex Nut:	Zn Alloy, Ni Plating
Glue:	Epoxy
Cable End Housing:	PPS
Cable End Lock/ Screw Nut:	Zn Alloy, Ni Plating
RJ45 Plug Housing:	PC
RJ45 Plug Contacts:	Copper Alloy, Au Plating
RJ45 Plug Shell:	Copper Alloy or Cold Roller Steel, Ni Plating
Cable End Rubber Pad:	Silicone
Inner Mold:	PE
Over Mold:	PVC

## Technical Data

Visual and Dimensional Inspection:	Must meet or exceed the requirements specified by the most current version of the RJ45 Specification.
Insulation Resistance:	DC500V $\pm$ 10%, test for 1 min. and the insulation resistance should be more than 100M $\Omega$
Dielectric Withstanding Voltage:	1000V DC/AC peak, contact-to-contact, for 1 min. 1500V DC/AC peak, contact-to-test panel or contact-to-shield for 1 min.
Contact Resistance:	20m $\Omega$ at 10mA Max.
Insertion and withdrawal forces:	Speed: 10 mm/s max. Insertion force: 30N max. Withdrawal force: 30N max.
Durability:	Speed: 10 mm/s max. Rest: 1s min. (mated and unmated) Artificially 750 cycle, the transfer rate meet Cat 5e Mechanism 750 cycle, the transfer rate meet Cat 5e
Cable Pull-Out:	After the application of a steady state axial load of 40N for one min.
Cable Flexing:	A traverse 180° in one direction plus 180° in the opposite direction shall be called one cycle, the cycling rate shall be 12 to 14 cycles per min. After completion of 100 cycles, test withstanding voltage and insulation resistance.
Physical Shock:	No discontinuities of 1 $\mu$ s or longer duration when mated USB connectors are subjected to 11 ms duration 30 Gs half-sine shock pulses. Three shocks in each direction applied along three mutually perpendicular

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planes for a total of 18 shocks.

Random Vibration:	The electrical load conditions shall be 100mA max. for all contacts. Frequency: 50 to 2000 Hz PDS: 0.04 g <sup>2</sup> / Hz Duration: 1 Hour/ Axis, 3 Axis total G's: 7.56 g rms
Thermal Shock:	5 cycles at -40°C / +105°C, after the test, the function and appearance can't be impacted.
Humidity Life:	96 hours min. (seven step cycles)
Salt Spray:	The test liquid (Nacl) thickness is 5%, Compressing the air pressure is 0.083 Mpa, Spraying amount is 1~2 ml/80cm/h, Temperature of the pressure barrel is 43°C, LAB temperature is 35°C, relative humidity of LAB is 95%~98%, test time is 48 hours, after the test, check if there is rusty and oxidized phenomenon
Waterproof Test:	Submersion in water 1 meter for 24 hours.
Temperature Life:	85°C for 48 hours Method A, Mated.
Cycling Humidity:	4 cycles at 25°C/ +85°C 95% RH (1 cycles/day)
UV Exposure:	24 H equal 1 year: 8 H UV at 70 (63) °C Black Panel Temperature 4 H condensation at 50 (63) °C Black Panel Temperature