

SGConn® RJ45 Connectors

Introduction

SGConn® RJ connector is one of waterproof product series. These RJ45 Series connector is removable, RJ45 plug easily assembled or disassembled from housing and enable use in harsh environments and also meet waterproof rating IP67 in IEC60529 standard.

Installation Styles



Panel Mount



Molded with Cable



Field Installable

Applications

Applications for Outdoor Displays/ Signs, Marine Solutions, Communication Solutions for Outdoor AP/Repeater/Bridges, Antennas, Base Stations and Satellite Transceiver, and IP CCTV & Security Systems solutions.



Certifications and Membership

SGConn® Circular Connectors are built to the highest quality and specifications and fulfills European Union regulations for RoHS, UL and major worldwide safety requirements.



Specifications

Category

- CAT-5e
- CAT-6

Material

- Contact: Copper Alloy, Gold Plated
- Connector Body: Nylon or PBT (Jack), UL Recognized Polycarbonate (Plug)

Temperature Range

- -20°C to +80°C

IP Rating

- IP67

Contact Resistance

- $\leq 10\text{m}\Omega$

Insulation Resistance

- $\geq 100\text{M}\Omega$ at DC 300V

Durability

- 500 cycles minimum

Breakdown Voltage

- $\geq \text{AC } 500\text{V/ } 1 \text{ minute}$

Corrosion

- 48 hours salt spray contact

SGConn® RJ45 Connectors

Selection Guide

(1) Series No.

(2) Current Rating: [1] 1A

(2) (3) (3) Serial Number

2 TJ 3 XXX - X 05 1 XX

Product No.		RJ45 Connectors	Mating Parts	Page
CAT-5e	CAT-6			
2TJ3002-X05101	-	RJ45 without Plug, Panel Mount Type	-	E03
2TJ3003-X05158	-	RJ45 Jack+shielded, Panel Mount Type	2TJ3000/3001/3002	E03
2TJ3003-X05129	-	RJ45 Jack+shielded, Panel Mount Type	2TJ3000/3001/3002	E04
-	2TJ3007-X05100	RJ45 Jack+shielded, Panel Mount Type	2TJ3006/3009	E04
-	2TJ3008-X05100	RJ45 Jack, Panel Mount Type	2TJ3006/3009	E04
2TJ3013-X05100	-	RJ45 Jack, Panel PCB 90°C Mount Type	2TJ3000/3001/3002/3006/3009	E05
2TJ3014-X05100	-	RJ45 Jack, Panel PCB 180°C Mount Type	2TJ3000/3001/3002/3006/3009	E05
2TJ3005-X051XX	2TJ3015-X05100	Mini RJ45 Jack, Molded with Cable	2TJ3001	E05
2TJ3000-X05100				
2TJ3001-X05100	-	RJ45 Plug, Field Installable	2TJ3003/3013/3014	E06
2TJ3002-X05100				
-	2TJ3006-X05100 2TJ3009-X05100	RJ45 Plug, Field Installable	2TJ3007/3008	E06
2TJ3001-X05110	-	Mini RJ45 Plug, Field Installable	2TJ3003/3015	E06

RJ45 w/o Plug

Part No. : 2TJ3002-X05101

Panel Mount Connector

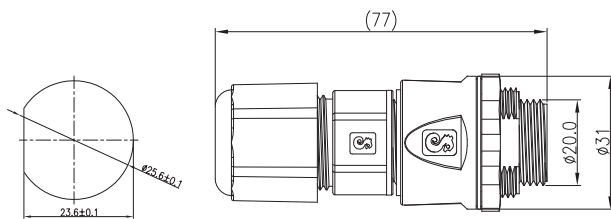
■ Mating Style : Screw Type

■ Category : CAT-5e

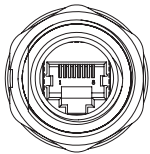


Physical Dimension

Panel Thickness : Max 4.0 mm



Pin Configurations and PCB Layouts



RJ45 Jack

Part No. : 2TJ3003-X05158

Panel Mount Connector

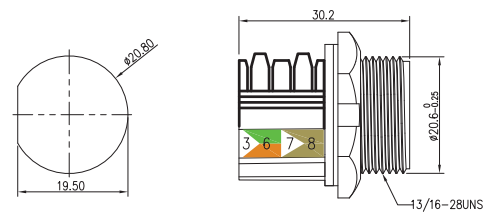
■ Mating Style : Screw Type

■ Category : CAT-5e

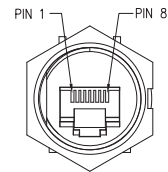


Physical Dimension

Panel Thickness : Max 3.5 mm



Pin Configurations and PCB Layouts

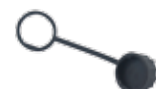


Mating Parts



2TJ3000-X05100
2TJ3001-X05100
2TJ3002-X05100

Accessories



2UB3001-X0000W

RJ45 Shielded

Part No. : 2TJ3003-X05129

Panel Mount Connector

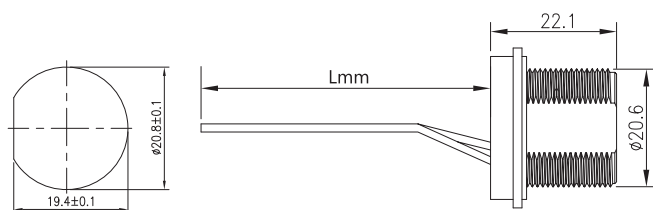
■ Mating Style : Screw Type

■ Category : CAT-5e

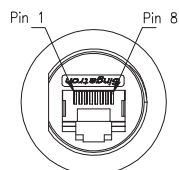


Physical Dimension

Panel Thickness : Max 4.3 mm



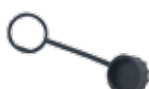
Pin Configurations and PCB Layouts



Mating Parts


 2TJ3000-X05100
 2TJ3001-X05100
 2TJ3002-X05100

Accessories



2UB3001-X0000W

RJ45 Jack/ Shielded

Part No. : 2TJ3007-X05100/
2TJ3008-X05100

Panel Mount Connector

■ Mating Style : Screw Type

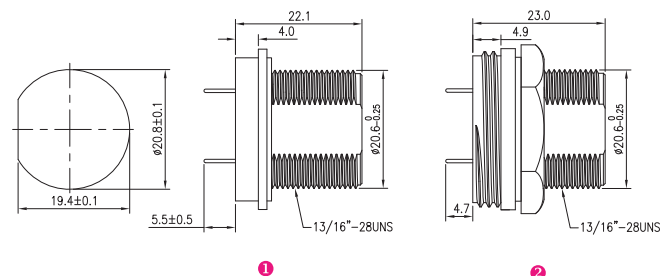
■ Category : CAT-6


 ①
 RJ45 Jack
 2TJ3007

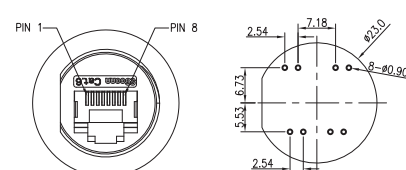
 ②
 RJ45 Shielded
 2TJ3008

Physical Dimension

Panel Thickness : Max 4.3 mm



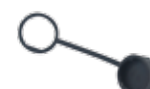
Pin Configurations and PCB Layouts



Mating Parts


 2TJ3006-X05100
 2TJ3009-X05100

Accessories



2UB3001-X0000W

RJ45 Jack

Part No.: 2TJ3013-X05100/
2TJ3014-X05100

Panel PCB Mount Connector

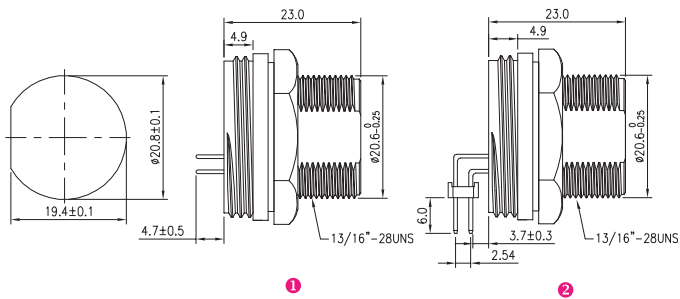
■ Mating Style : Screw Type

■ Category : CAT-5e

①
180° PCB Pin
2TJ3013②
90° PCB Pin
2TJ3014

Physical Dimension

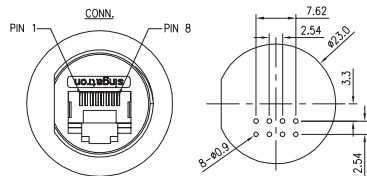
Panel Thickness : Max 4.3 mm



①

②

Pin Configurations and PCB Layouts



Mating Parts

2TJ3000-X05100
2TJ3001-X05100
2TJ3002-X05100
2TJ3006-X05100
2TJ3009-X05100

Accessories



2UB3001-X0000W

Mini RJ45 Jack

Part No.: 2TJ3005-X051XX/
2TJ3015-X05100

Molded with Cable

■ Mating Style : Screw Type

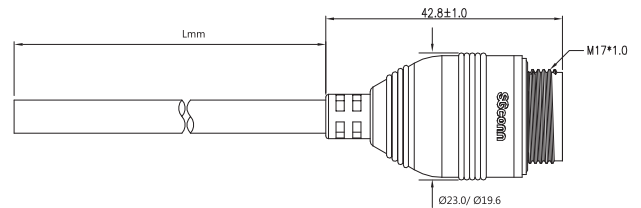
■ Category : CAT-5e/ CAT-6

①
CAT-5e
2TJ3005-051XX②
CAT-6
2TJ3015-X05100

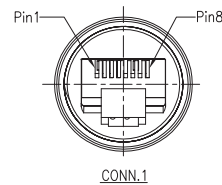
Physical Dimension

Cable OD : Max Ø6.0 mm

Cable Length : Standard 1000mm (L: customized)



Pin Configurations and PCB Layouts



Mating Parts



2TJ3001-X05110

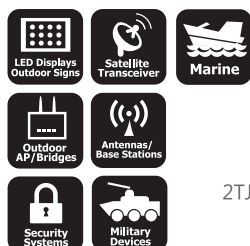
RJ45 Plug

Part No. : 2TJ3000/ 2TJ3001/ 2TJ3002/ 2TJ3006/ 2TJ3009

Field Installable

■ Mating Style : Screw Type

■ Category : CAT-5e/ CAT-6



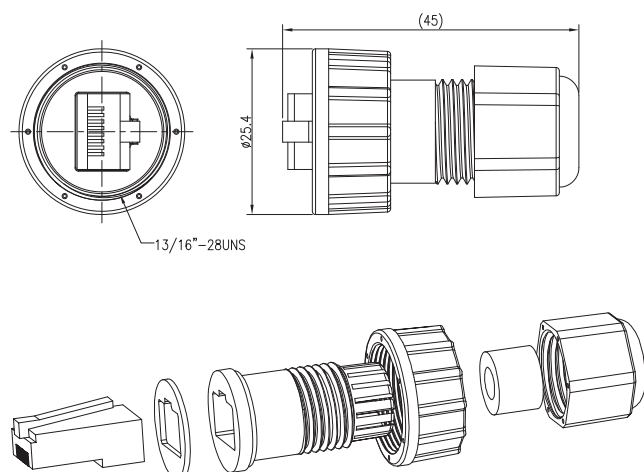
2TJ300 X - X05100

CAT-5e ①
 [0] with STP Plug
 [1] with UTP Plug
 [2] without Plug

CAT-6 ②
 [9] with STP Plug
 [6] with UTP Plug

Physical Dimension

Cable OD : Ø3.0mm ~ Ø6.0 mm



Mini RJ45 Plug

Part No. : 2TJ3001-X05110

Field Installable

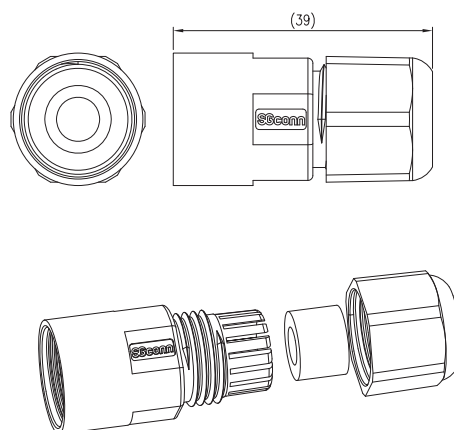
■ Mating Style : Screw Type

■ Category : CAT-5e



Physical Dimension

Cable OD : Ø3.0mm ~ Ø6.0 mm



Mating Parts



②
 2TJ3007-X05100
 2TJ3008-X05100



①
 2TJ3013-X05100
 2TJ3014-X05100



①
 2TJ3003-X051XX

Mating Parts



2TJ3005-X051XX
 2TJ3015-X05100



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SGconn®
Waterproof Connectors

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