

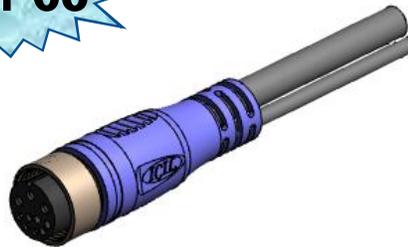
ICIL

INTEGRAL CABLE AND INTERCONNECT LLP

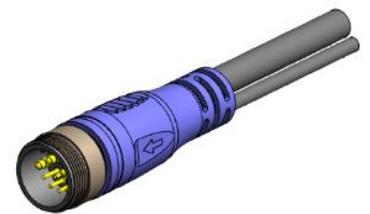
EC series IP 67, 68 Circular Connectors

- Rugged design
- Custom pin configuration Available.
- 3A,5A,20A,30 AMP current Carrying capacity/Pin.
- Gold/silver plated Solid Machine contacts
- Waterproof- IP67/68
- Flammability rating UL94V-0 Material
- Positive locating keyways - cannot be mis-mated
- Metal and Plastic thread lock coupler available

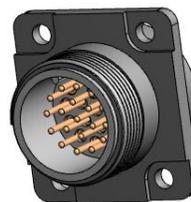
IP68



EC series Over molded female IP68 connectors



EC Series Over molded Male connector



EC series Male panel mount Flange connector.



EC series Male Panel Mount with Jam Nut

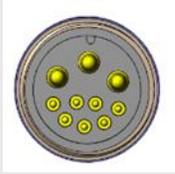
Highest Quality Standard connector With Innovative Contact Design For Highest mating cycles Performance at Affordable Price.

Manufacturer of IP68, Circular, Rectangular, power, signal & combo connectors.

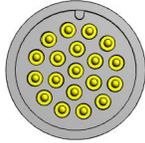
www.integralconnect.in



EC Series Connector Versions



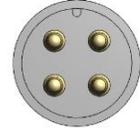
3 POWER+7 SIGNAL PIN



19 PIN



5 POWER PIN



4 POWER PIN

customized pin configuration available, contact sales for the requirement.

Technical Details

❖ **Materials and Finishes**

Insulator: Glass-filled nylon, UL 94V-0.

Contacts: Precision machined copper alloy with A)gold over nickel plate.
B)silver over copper plate.

'O' Ring/Rubber parts : Silicon, Hi Nitrile

❖ **Mechanical Characteristics**

Polarization: Provided by insulator to avoid mis-mating.

Fixed Contacts: female contacts feature "Open Entry" 500 Mating cycles.

Contact Retention in Insulator: Signal Contacts: 27 N Min.
Power contacts : 57 N Min.

Locking System: Threaded Lock coupling.

❖ **Electrical Characteristics**

❖ **Contact Current Ratings**

Signal Contacts: 3 amperes nominal with Nickel plating.5Amp with gold plating

Power contacts : 20 Amp with Silver Plating, 30amp with Gold plating

Initial Contact Resistance : 0.01 ohms, max. per IEC 512-2, Test 2b.

Insulator Resistance per IEC 512-2, Test 3a. Insulator: 500 M ohms, minimum.

❖ **Proof Voltage (Dielectric Withstand voltage)**

Signal Contacts: 1000 V r.m.s.

Power contacts : 1500 V r.m.s

❖ **Working Voltage**

Signal Contacts: 250V r.m.s., Power contact 500V r.m.s

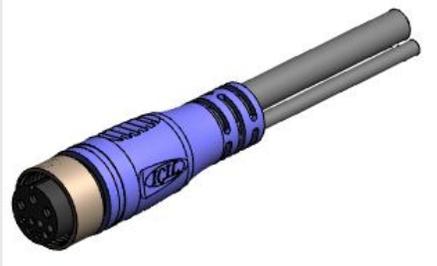
❖ **Climatic Characteristics**

Working temperature: -45°C to +105°C

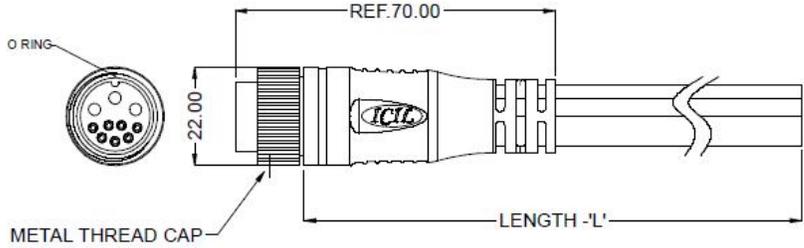
Dust and Water Ingress: IP67 / IP68 with over mold cable Assemblies
per IS/IEC 60529:2001



EC series Female connector (With Threaded lock) Over molded



Part No.: EC7W3S0C20G

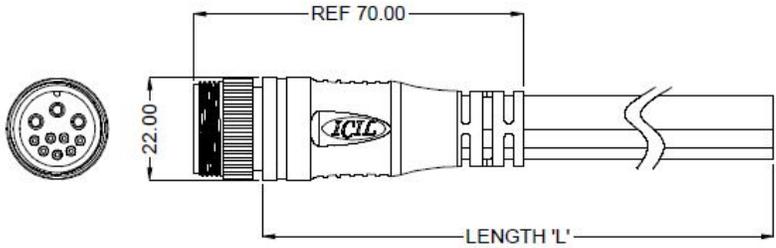


Cable Dia.: up to 13 mm , cable Length customer Spec.

EC series Male connector (With Threaded lock) Over molded



Part No.: EC7W3P0C20G



EC series M/F cable connector available with customized pin configuration and customer specific cable length



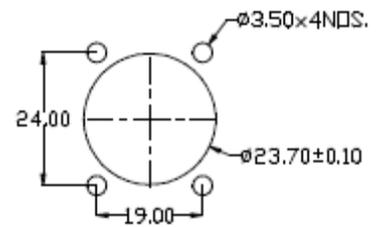
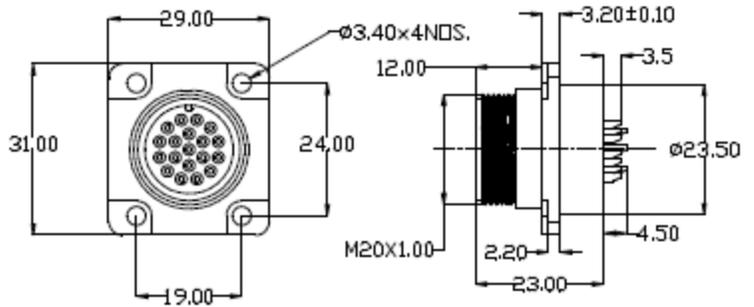
EC SERIES MALE PANEL MOUNT CONNECTOR WITH SQUARE FLANGE (IP67)



Part No. : EC19P19F00G



Threaded **IP Dust cap**
with Rope Available
With Panel Mount
Connector



PANEL CUT OUT DIMENSION

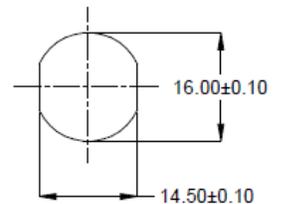
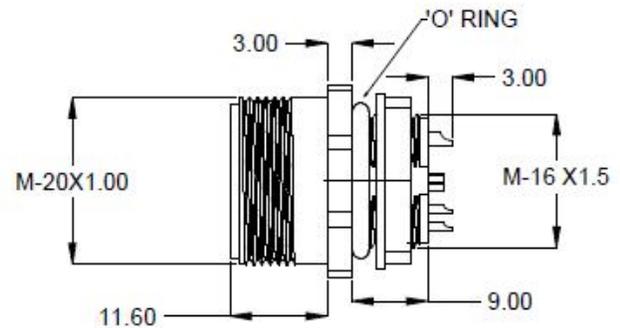
EC series Male e Panel Mount Connector with hex flange and jam nut(IP 67)



Part No. : EC7W3P0A00S



Threaded **IP Dust cap**
with Rope Available
With Panel Mount
Connector



PANEL CUT OUT DIMENSION

EC series panel mount connectors with hex flange and nut available with customized pins option



EC Series connector Ordering Part selection Chart
Specify complete connector Part no.by following step 1 through step 7.



EC SERIES : 7W3
19 PIN
5 PIN POWER

P: Male connector
S: Female connector

0- None

- A : Panel Mount Male with Hex flange and M16 thread
- B : Power Male Panel mount with screw terminal with SQ flange
- C : Cable End over molded male and female
- D : Cable End With Hood (6-8 MM wire Dia.)solder cup
- E : Cable End with Hood (8-12 MM Wire Dia.)solder cup

0- 7W3 Version
2 to 19 : No. of pins

0: Without Thread lock
1: With Thread lock (Plastic)
2: With thread lock (Metal)

- F : Panel Mount male with Square flange with solder cup terminal
- G: Right Angle PCB mount (Male only)
- S: Cable end with shroud only

G: Gold Plating
S: Silver plating
N: Nickel Plating

0: No Dust Cap
D: Dust cover threaded

Contact US : Integral cable and Interconnect LLP.
 Factory Address : Sr. No. 13/2 B -606 orchid Plaza near JSPM college, Narhe, Pune 411041,India

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