

Onanon's *Pluto* is precision-engineered to deliver compact, high-performance connectivity in space-constrained environments. Its intuitive teardrop-shaped housing and friction-fit design allows for easier plug-in and alignment compared to traditional circular connectors. A built-in O-ring provides secure retention and ingress protection for added durability in clinical and portable settings. Pluto is available in single-use or reusable formats, with customizable color options and the ability to integrate electronics.

- **Up to 14 pin capacity**
- **Friction-fit design with O-ring and teardrop keying**
- **Customizable for reusable or single use applications**
- **Easily add components such as EEPROMs, resistors and capacitors**
- **EMI/RFI Safe**
- **Use in compact medical tools, diagnostics, and wearables**
- **VF/HF/RF Safe**



Specifications

Mechanical

Mating Type: Friction
Mating Cycles: 10k Min
Mating Forces:
 Insertion: Friction
 Removal: 2.0 lbf Min

Electrical

Operating Voltage:
 1.25kVAC and 1.75kVDC
Operating Current: 2.2A

Environmental

Sterilizable: Gamma, EtO
Chemical Resistance: Common cleaning solvents
Finger Safety: IEC 60601-1
Storage & Operating Temp:
 0-120°C

Compatibility

Contacts: 2 - 14 pins
Plug Cable Assembly
Accepted Wire Gauges: 26-50 AWG
Cable Jacket OD: 0.101" – 0.181"
Contact Termination: Solder
Panel Mount Receptacle Assembly
Accepted Wire Gauges: 26-50 AWG
Contact Termination: Solder



Intuitive Keying

Intuitive tear drop shape allows for easy alignment and mating



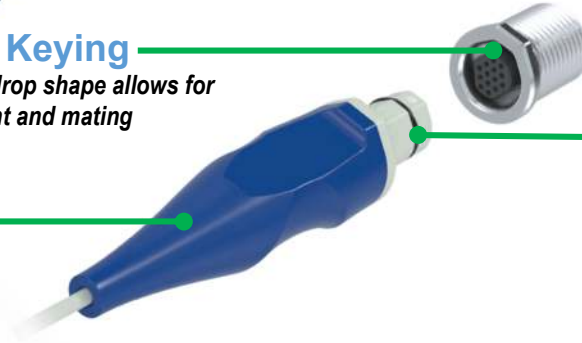
Sterilizable

Chemical-resistant materials are easy to clean and withstand repeated wipe-downs using common hospital disinfectants



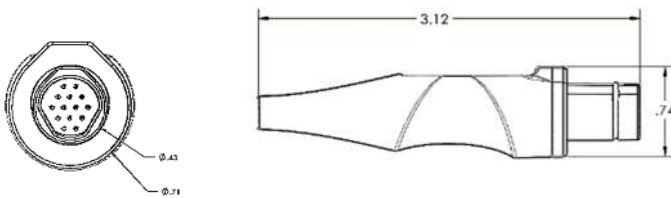
Ingress Protection

Ingress protection for demanding environments

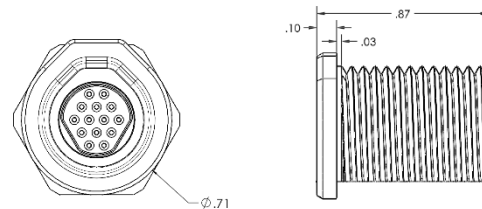


Dimensions

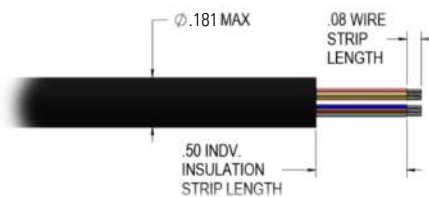
Plug



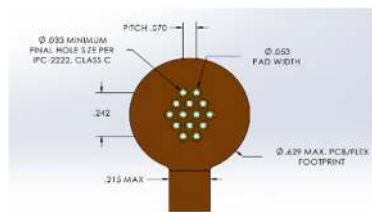
Panel Mount Receptacle



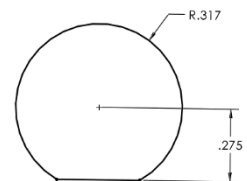
Recommended Cable Specifications



Recommended PCB or Flex Dimensions



Recommended Panel Cutout



Materials & Assembly

Plug Assembly

Plug Housing: Polycarbonate

Retaining Cap: Thermoplastic Polyester

Pins: Gold Plated Beryllium Copper

Ingress O-Ring: Silicone

Slip-On Boot: Thermoplastic Polyurethane

Required Assembly: Assemble connector body after terminating wires

Panel Mount Receptacle

Insulator Insert: Medical-grade PEI

Metal Shell: Chromium Plated Brass Alloy

Pins: Gold Plated Brass Alloy

Required Assembly: Solder a PCB or flex assembly



PLUG

165-A001- X - XXX - XXXX - X

HOUSING COLOR
SEE COLOR CODES

NO. OF CONTACTS
02, 04, 06, 08, 14

CONTACT TYPE
S - SOLDER CUP
R - ROBOSOLDER®

PACKAGING
I - INDIVIDUAL
B - BULK

BOOT COLOR
SEE COLOR CODES

BOOT ID
095 - Ø 0.095 155 - Ø 0.155
115 - Ø 0.115 175 - Ø 0.175
135 - Ø 0.135

COLOR CODES
B - BLACK
G - GREY
R - RED
Y - YELLOW
N - GREEN
W - WHITE
U - BLUE



PANEL MOUNT RECEPTACLE

165-A002- XXX - X - X

NO. OF CONTACTS
02, 04, 06, 08, 14

CONTACT TYPE
S - SOLDER CUP
T - SOLDER TAIL

PACKAGING
I - INDIVIDUAL
B - BULK

RECEPTACLE INSERT COLOR
B - BLACK N - GREEN
G - GREY W - WHITE
R - RED U - BLUE
Y - YELLOW

Custom Options Available:

Reach out to our sales team about laser-engraved logos, personalized color options, high volume orders, and end-to-end custom cable assemblies, including our integrated SmartConnect™ capabilities.