

**G**lenair®



# Series ITS MIL-DTL-5015 Type Reverse Bayonet Connectors

*Over 200 Power and Signal Insert Arrangements*

*PLUS: Connector Accessories and Assembly Tools*

United States ■ United Kingdom ■ Germany ■ France ■ Nordic ■ Italy ■ Spain ■ Japan

**SERIES ITS**

# EMI/RFI BANDING BACKSHELLS

**Now Available for Series ITS Connectors,  
New ZLF Type Backshells Offer Reliable  
High-Speed Termination of EMI/RFI  
Cable Shielding (Screening) with Easy to  
Use *BAND-IT*<sup>®</sup> Tools and Bands.**



**Glenair<sup>®</sup>**

**Glenair Series ITS and Series ITS-RG  
MIL-DTL-5015 Type Reverse Bayonet Connectors  
Product Selection Guide**



Series ITS  
and ITS-RG

**Intro**

**Introduction**

*Your Guide to MIL-DTL-5015 Type Power Products*



**Intro**

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**B**

**Series ITS**

*Reverse Bayonet Connector Assemblies*



**B**

**C**

**Series ITS-RG**

*Rubber Coated Reverse Bayonet Connector Assemblies*



**C**

**D**

**Backshells and Accessories**

*For Series ITS and ITS-RG Reverse Bayonet Connectors*



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*For Series ITS and ITS-RG Reverse Bayonet Connectors*



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## Connectors, Cables and World-Class Interconnect Expertise Arriving Now on Track 5015!

At their most basic level, rail system interconnect design challenges are similar to other transport modes. Reducing weight is a critical issue, especially for high-speed and Maglev rail systems. Shielding electromagnetic interference is important, especially in sensitive electronic systems such as engine monitoring and diagnostic sensors. Basic mechanical protection of cables, conductors and contacts is a standard requirement especially when frequent mating and unmating is required, or when cables are routed through exposed intercar or undercar locations. To ensure rapid and accurate car linking and cabin reconfigurations, interconnects must be easy to couple and keyed to avoid mismatching. Vibration, shock and connector decoupling problems are also common in rail applications, and require focused attention when selecting shell materials and mating technologies. As passenger and crew safety is paramount—interconnection systems must not compound flammability, smoke or toxicity risks.

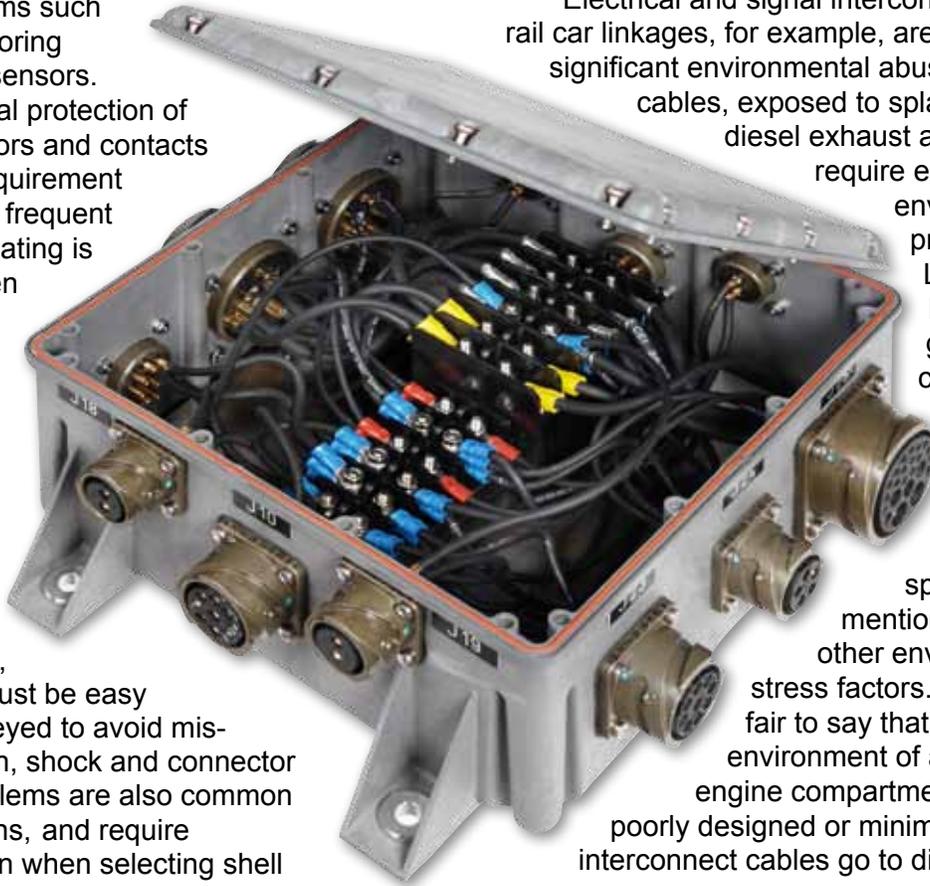
But make no mistake: the overriding challenge is environmental. Rail and

transportation systems represent one of the most challenging environments for the long-term survivability and reliability of interconnect cables and assemblies. From high-speed rail transportation systems to heavy railway freight lines, the standard daily fare of the rail industry is one harsh environmental challenge after another.

Electrical and signal interconnections in rail car linkages, for example, are subject to significant environmental abuse. Undercar cables, exposed to splashing, mud, diesel exhaust and high heat, require extremely robust environmental protection.

Locomotives are brutal testing grounds for cable systems which are subjected to hot oils, solvents, and fuel spills, not to mention high heat and other environmental stress factors. In fact, it's fair to say that the harsh environment of a locomotive engine compartment is where poorly designed or minimally protected interconnect cables go to die.

For this reason, the art of designing rail industry interconnect cables that provide long-life and value depends on a comprehensive understanding of the environmental stress factors that can, at a minimum, diminish performance, and at their worst lead to complete



# Glenair Series ITS and Series ITS-RG MIL-DTL-5015 Type Reverse Bayonet Connectors Product Selection Guide



Series ITS  
and ITS-RG

system failure. Glenair is an expert in the design of cable, box and conduit wire protection systems that prevent environmental damage and ensure longevity of service. The design and manufacture of environmentally sealed connectors, backshells and other components that keep interconnect systems free of corrosion has been our bread-and-butter business for over 50 years.

This catalog presents one of the core Glenair interconnect technologies that is specifically geared for use in rail systems, agricultural equipment, military vehicles and other harsh, environmental applications. Glenair Series ITS and ITS-RG connectors are perfectly suited to address every rail industry interconnect challenge. These ruggedized, MIL-DTL-5015 Type reverse bayonet connectors are deployed in virtually every rail industry sub-system including:

- Automatic Train Control (ATC) Systems
- High Temperature Engine Controls and Sensors
- Speed Sensors
- Diagnostics
- Braking Systems



*Urban and inter-urban rail systems are ideally suited for ruggedized 5015 type connectors.*



*Connectors and cables see tough, environmental duty in rail applications. Poorly sealed products, or those made from inappropriate materials, can lead directly to system failures. Glenair Series ITS and ITS-RG are designed for the most severe environmental applications—from rail cars to military vehicles.*

- Anti-skid Systems
- Traction Motors
- Converters
- Couplers
- Pantographs
- Electronic Monitoring and Diagnostic Systems
- Intracar/Intercar/Undercar Cabling Systems
- Radar and Rail Navigation Systems
- Radio Communications Systems
- Data Systems
- Rail Car Lighting and Security Systems
- Climate Control for Passengers and Freight
- Battery Chargers
- Door Control Systems
- Equipment and System Bonding Systems
- Cabin Video, Phone, and Internet Systems
- Way-Side Signaling
- Track Controls
- Trackside Safety Systems

Intro

### Turnkey Series ITS and ITS-RG Wired Cable and Conduit Interconnect Assemblies

The Glenair ITS connector series features over 200 power and signal insert arrangements. Based on the MIL-DTL-5015 standard, ITS features an improved reverse bayonet coupling technology in place of the standard threads used in MIL-DTL-5015. The 3-point bayonet mechanism reduces coupling time and provides easier mating, especially when the connector is in an awkward position. Positive locking of the three stainless steel pins provides reliable resistance to vibration and shock, and prevents connector de-coupling in even the most rugged applications such as locomotives, mass transit cars and military vehicles. Bayonet pins are protected from damage by their placement inside the plug coupling nut, and the receptacle's exposed ramps are easy to clean in harsh environments. Extremely durable, the reverse bayonet coupling is rated to 2,000 matings.

On new applications, as well as retrofits of existing systems, manufacturers face contractual penalties for system "down-time", or late deliveries. Cost-conscious designers are therefore motivated to choose interconnects and

interconnect cabling that deliver reliable turnkey performance. For this reason, high-reliability suppliers like Glenair—whose products take into account the total cost-of-ownership over the full life of the system—are increasingly sought out for turnkey cable design and fabrication.

In addition to our work designing interconnect products for new rail applications, Glenair has a long track-record of solving problems in existing systems undergoing periodic mid-life overhauls.

During the overhaul process designers sometimes take the opportunity to enhance functionality and improve performance in

interconnect cabling. Often these design improvements require changes in connector hardware, as well as the wire protection media. When retrofitting existing locomotives or military vehicles, switches, gages, indicators and sensors must fit into existing control panel real estate. Consequently, overhaul designers

sometimes require reduced

interconnect package size or better solutions for the routing and attachment of cable harnesses. Glenair is well positioned to assist in this work as we are the only manufacturer in the business that both produces the individual interconnect components, as well as complete wiring and cabling services.



# Glenair Series ITS and Series ITS-RG MIL-DTL-5015 Type Reverse Bayonet Connectors Product Selection Guide



Series ITS  
and ITS-RG

Intro

## Military Vehicle Applications

Standard ITS inserts are made from neoprene, but high temperature silicon or solvent-resistant elastomer inserts can be specified. Series ITS connectors can be ordered with a flame retardant compound that significantly reduces fire hazards, and meets smoke density and toxicity standards. The Glenair Series ITS-RG Connector is a unique, ruggedized rubber-coated version of the Series ITS designed for use in harsh environmental applications. Offering the same electrical performance as the standard ITS, the ITS-RG has better insulation from high current and voltage. The rubber covering also allows for easier gripping and handling, prevents shell damage, eliminates fluid infiltrations and guarantees a Protection Index of IP67. The rubber coating conforms to the strictest safety norms regarding fire resistance, toxicity and smoke including ASTM C542, ASTM E662/83 and CEI 20.37/85.



*Glenair ITS-RG Connectors are designed for easy handling in harsh military applications.*

Extremely versatile, Glenair's Series ITS connector has been specified in a wide range of rail and military vehicle applications including command and control systems, brakes, converters, door-opening systems, pantographs, data and communication systems, couplers, speed sensors, diagnostics, anti-skid devices, lighting, and intervehicle coupling connections.

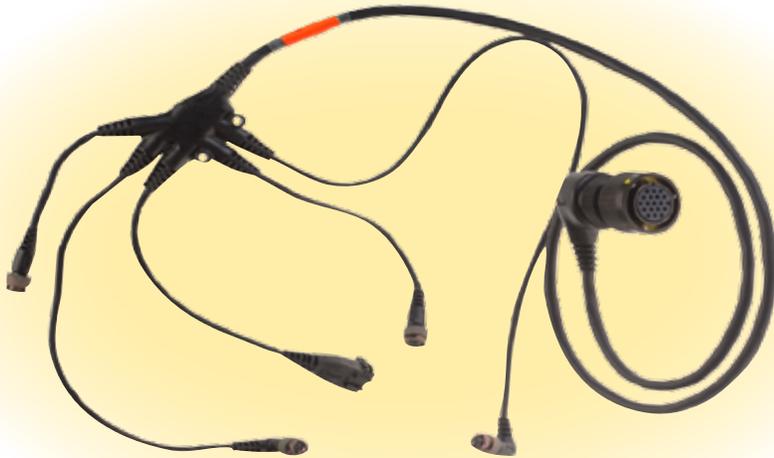
## Next Generation Military Vehicles

The latest generation of military vehicles are as sophisticated as commercial jets. New command and control panels are as jam-packed with systems controllers, sensors, gauges, and equipment as any modern airplane cockpit. The power and signal linkages within and between the electronic systems in a modern military vehicle constitute one of the more complex interconnect cabling systems in existence. The interconnect cables used to service weapons systems, targeting, radio communications, and soldier recharging services, phone and Internet, rival in complexity those found in the most sophisticated fighter jet.

Glenair Series ITS and ITS-RG connectors and cables are designed for use in the most demanding power and signal interconnect applications, and have been selected for use in countless military vehicles, shelters and other tactical applications.



# Reverse Bayonet Rail Application Guide



Air Conditioning and Cabin Entertainment Systems

Door Control Systems

Cabin Heating

Intercar/Under Car Systems

Automatic Electric Intercar Coupler

Antenna for Intercom, Public Address, Next Station Announcements, and Data Transmission to Control Center

Air Conditioning, Interior Lighting

Marker Lights

Status Lights

Windshield Wiper Motor

Train Control Computers and Communication Equipment

Headlights

Electric Automatic Coupler

Linear Induction Motor

Electric Blocks

Brake Gear

Traction Motor

Tripod Transmission

Door Control

Electronic Motor Controls and Batteries (Under Seats)

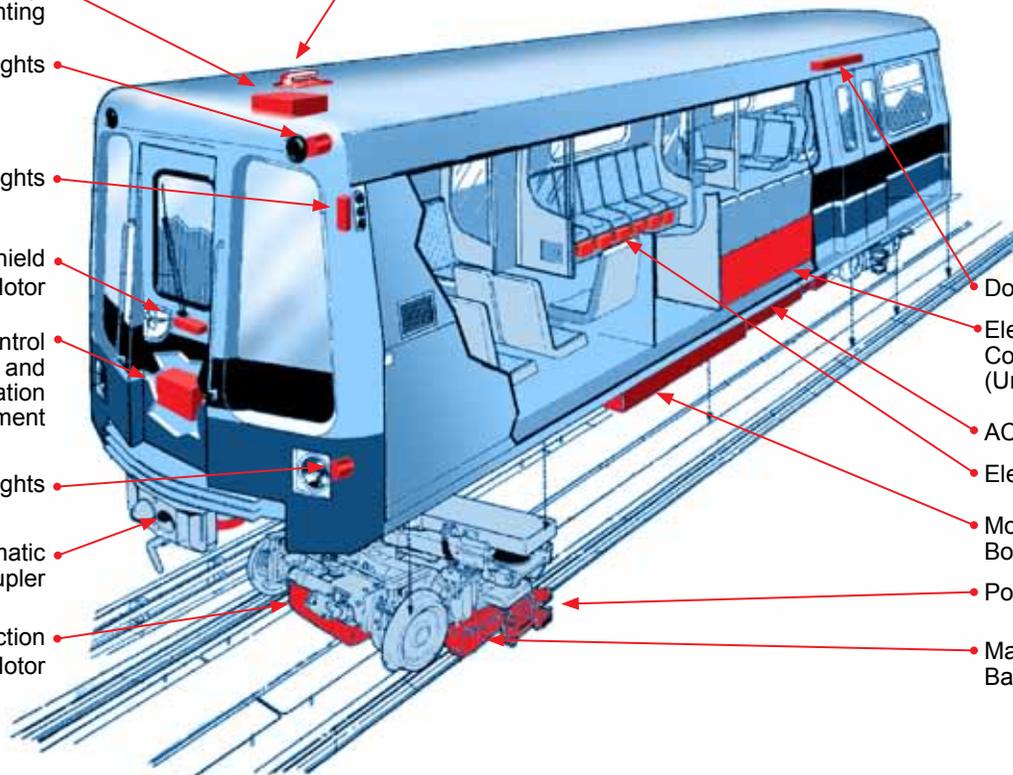
AC/DC Converter

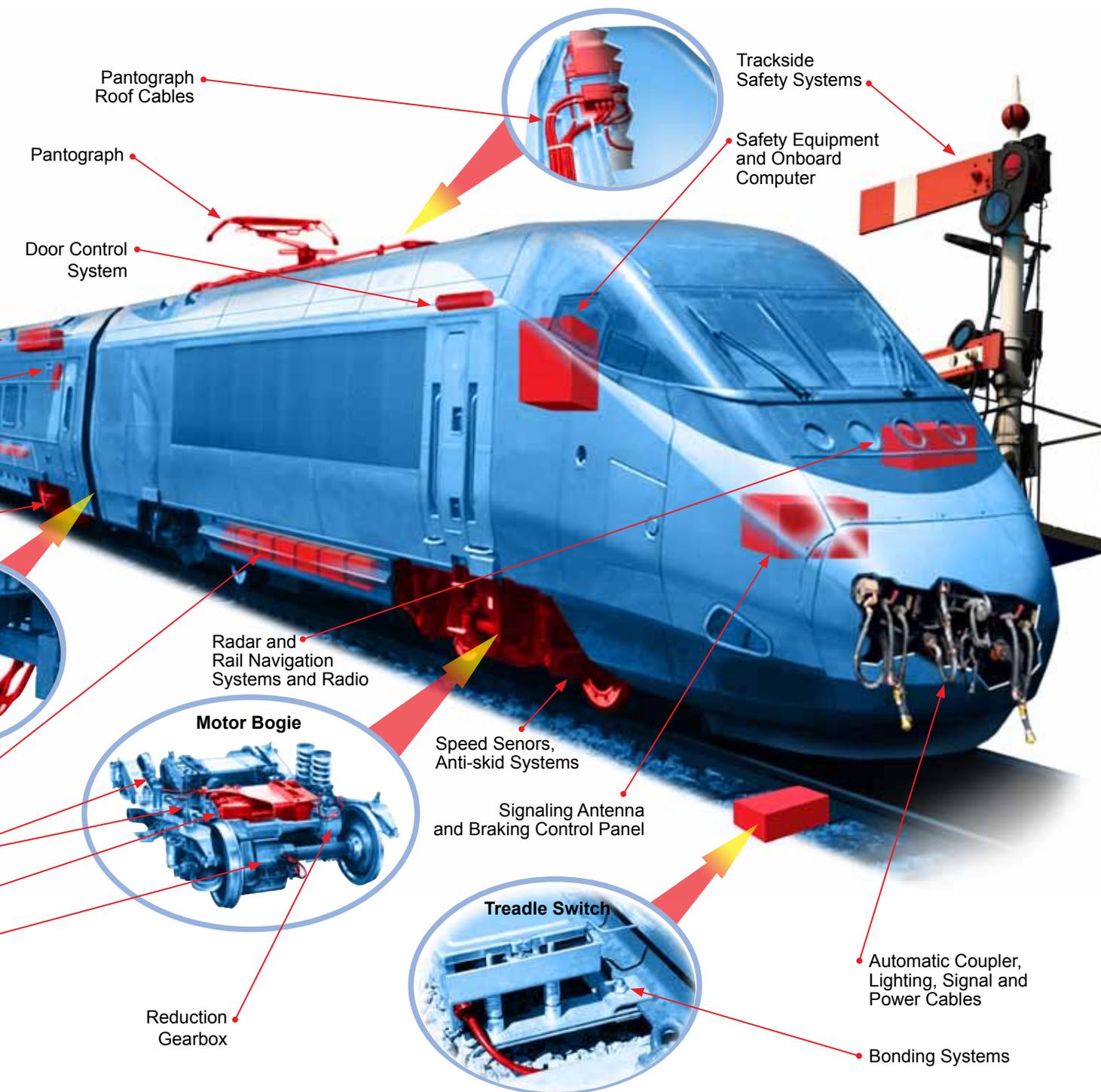
Electric Heaters

Motor Power Bolster Units (PCUs)

Power Collectors

Magnetic Track Brake Battery Powered





## A World of Rail Industry Interconnect Solutions

Glenair supplies a comprehensive line of high-reliability interconnect solutions for the rail industry: from MIL-DTL-5015 type reverse bayonet power and signal connectors, to corrosion-proof junction boxes, overmolded cable assemblies, conduit wire protection products and more. We are the go-to manufacturer of purpose designed interconnect cabling for the most challenging rail interconnect applications.

### Pendolino: A New Angle on Rail Transport

First developed and manufactured by Fiat, but taken over by Alstom in 2002, Pendolino is an Italian tilting train system used throughout Europe and in China. The tilt technology is contained in the bogie (swivel truck). When going into curves, sensors on the leading car



*Pendolino (from the Italian Pendolo) is an Italian family of tilting trains manufactured by Fiat Ferroviaria*

determine the carriage box tilt (up to 8°) needed to compensate for the lateral acceleration. This information is passed along to navigational devices in the following railway cars, which then use hydraulic cylinders to tilt the carriage box accordingly. In an S-curve, this sensitive system even allows the front of the train to tilt to one side, while the rear cars are still swerving to the other.

Tilting a massive train at high speed causes significant centrifugal and centripetal forces under the cars. Traditional interconnects failed under the stress. Glenair was brought in to develop flexible, durable, high-reliability cabling and interconnects that would stand up to the stresses, heat, and other harsh conditions found on Pendolino train systems.

### Like Hercule Poirot, Glenair Solves Another One on the Orient Express

Glenair application engineers, every bit the intellectual match for retired Belgian detective Hercule Poirot, were asked to solve not a crime, but a serious problem involving an emergency braking system upgrade on the Orient Express. A complicated interplay of hydraulics, pneumatics and mechanics, the braking system solution had to fit within very limited space, and the train is, of course, a much-revered and valuable historical artifact.



The case was solved with Glenair ITS reverse bayonet connector cables and flange mount receptacles. Plugs with cable clamp backshells mated to receptacles mounted on existing metal junction boxes along with a specially-designed, corrosion-free and EMI/RFI-protected Glenair Composite Junction Box, factory wired to an internal termination block.

### Riding the Rails: Glenair Tackles Trackside Interconnect Problems

Not only are Glenair Series ITS and ITS-RG connectors great for undercar applications where up-splash and rail bed debris subject interconnect



## Glenair Series ITS and Series ITS-RG MIL-DTL-5015 Type Reverse Bayonet Connectors Application Examples



Series ITS  
and ITS-RG

Intro

systems to significant hazards, they're also terrific for trackside applications. The Milan Metro required interconnect systems that would protect wire media from weather and sun exposure. Signaling boxes, like most trackside applications, are critical to railway safety. They call for no fail solutions with maximum durability. Glenair delivered a turnkey solution.

Glenair application engineers also designed a ruggedized interconnect cable solution for Milan Metro incorporating a high-performance electrical harness using a low fire hazard neoprene cable jacket and a flame retardant polyurethane material overmolded and sealed at



all transition points—from Glenair feed-throughs to Glenair Series ITS connectors.

In a related application, Glenair designed a customized LED technology lighting system to simulate exactly the electrical performance of standard light bulbs. This development allowed use of signaling equipment already installed on site with the upgraded reliability and low power-usage of LED's. The technology was packaged in IP67-rated waterproof Composite Junction Boxes that meet MIL-S-901D and MIL-STD-167 standards for shock and vibration, along with EMI/RFI/HIRF and lightning strike performance specifications.

## Glenair is Moving Out with A Broad Range of EMI and Environmental Interconnect Solutions

Glenair Series ITS MIL-DTL-5015 type (VG95234 Qualified) connectors can be ordered with a wide variety of standard backshell styles for strain-relief, environmental protection and EMI reduction in multiple angles and profiles. In addition, Glenair is producing new "best-of-breed" backshell and accessory products for these Glenair MIL-DTL-5015 type reverse bayonet connectors that take full advantage of our innovative design, shielding and termination technologies, including BAND-IT® banding solutions.

Count on Glenair to develop labor-saving backshell solutions that address weight reduction needs, environmental requirements and overall package size. For example, we have developed the industry's simplest shield termination systems, using conical, crimp, locking and lampbase thread ring technology combined with self-locking rotatable couplings and integrated shield socks in standard to ultra low profiles, Glenair has a solution for every interconnect challenge.



*Military vehicles are perfectly suited for ruggedized power and signal interconnections using Glenair Series ITS and ITS-RG reverse bayonet connectors.*



## State-of-the-Art Connector Manufacturing in Italy

Before joining the Glenair family, our Power Product Group had a thirty-year history as one of the top providers of ruggedized power and signal connectors for military, industrial, telecom and rail applications. Headquartered in Bologna, Italy, our Power Product group is certified to UNI EN ISO 9001, IRIS, and various VG product qualifications.

In over 60,000 square feet of production space, a highly skilled and educated workforce runs a modern robotic factory with automated parts picking and assembly.



Glenair conducts its own qualification testing including salt spray, humidity cycling, vibration and shock, thermal shock, dielectric values, insulation resistance, and current ratings. "Green" plating facilities employing environmentally sensitive processes round out the manufacturing operation.

The main product line manufactured and assembled in our Bologna facility is power and signal connectors qualified to the VG 95234 specification. These MIL-DTL-5015 type connectors are designed with reverse bayonet couplings and are intended for use in rail, transportation and military vehicle applications.

### North American Assembly

Glenair's volume production capabilities allow us to perform final assembly operations both in Bologna and in North America. Final assembly of Series ITS and other connector families in North America are completed in Glenair's main factory in Glendale and placed in stock for immediate same-day shipment.



# VG 95234 Qualified Power and Signal Connectors for Rugged Application Environments—From Military Vehicles to Rail, Mass Transit and Industrial Equipment

A

The Glenair Series ITS and ITS-RG connector series are based on the MIL-DTL-5015 standard, but feature an improved reverse bayonet coupling technology in place of the threaded coupling used in MIL-DTL-5015. The 3-point bayonet coupling mechanism reduces coupling time and provides easier mating when the connector is in an awkward position. Positive locking of the three stainless steel pins provides reliable resistance to vibration and shock, and prevents connector de-coupling in even the most rugged applications such as locomotives, mass-transit cars and military vehicles. The products are qualified to the VG 95234 standard and are currently used throughout Europe, North America and Asia on thousands of ruggedized applications.

All connector styles are available with wire sealing grommets and dynamic interfacial seals for environmental protection. Equipped with the appropriate backshells and accessories, the connectors are submersible for 12 hours up to a depth of ten meters. The ITS-RG Series incorporates a ruggedized outer coating of rubber for additional mechanical strength and to prevent shell damage due to rough handling.

The Glenair Series ITS and ITS-RG share the same insert arrangements, shell dimensions, supported contacts and electrical performance ratings as the MIL-DTL-5015 and the VG 95234 and are fully interchangeable with VG standard connectors. Supported contact types include solder, crimp, and PCB type in both gold or silver surface platings. Thermocouple contacts are also available.

Depending on the application requirements the following options may be supplied:

- Connectors and accessories in either stainless steel or marine bronze
- Flame resistant, halogen-free rubber inserts
- Cadmium-free surface treatments
- Special contacts

The ITS and ITS-RG connector series are perfectly suited for use in rugged applications where EEC compliance directives for electromagnetic compatibility is required. A complete range of EMI shield termination accessories is available for both overall as well as individual wire shields.

Please contact the factory for additional information or any of our worldwide sales and engineering facilities. Glenair's website, [www.glenair.com](http://www.glenair.com), also has complete information on these products, including inventory listings.

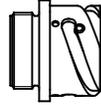
A

Receptacles

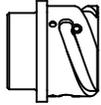
Plugs

Selected  
Shell Styles

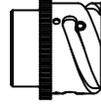
**ITS 00**  
Front Panel Mount  
Square Flange  
Receptacle with  
Accessory Threads



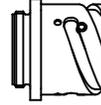
**ITS 02**  
Front Panel Mount  
Square Flange Receptacle.  
No Accessory Thread



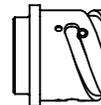
**ITS 01**  
In Line Cylindrical  
Receptacle with Accessory  
Thread



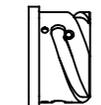
**ITS 030**  
Rear Panel Mount Square  
Flange Receptacle with  
Accessory Thread



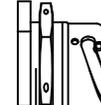
**ITS 03**  
Rear Panel Mount Square  
Flange Receptacle. No  
Accessory Thread



**ITS 05**  
Dummy Plug Stowage  
Receptacle



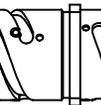
**ITS 07**  
Rear Panel Mount Jam nut  
Receptacle. No Accessory  
Thread



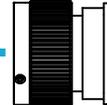
**ITS 070**  
Rear Panel Mount Jam nut  
Receptacle with Accessory  
Thread



**ITS PP**  
Through Bulkhead Square  
Flange Receptacle.



**26**  
Panel Mounting  
Plug



**06**  
Standard Coupling  
Nut



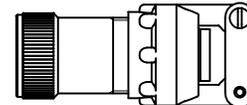
**06 GG**  
Rubber Covered  
Coupling Nut



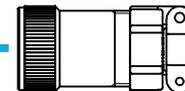
**A/R**  
Standard  
Backshell



**PG/M**  
Metric Thread  
Straight Adapter



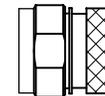
**N2N5**  
Long Backshell with  
Cable Clamp Type "C"



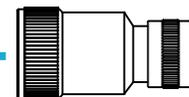
**N8**  
Long Backshell with  
Cable Clamp Type "A"



**RS**  
Lipped Backshell



**GR**  
Backshell with Rotating  
Coupling Nut Shrink Boot  
Adapter



**PHM**  
Environmental Cable  
Clamp

**PHM-EMI**  
EMI/RFI  
Environmental Cable  
Clamp

# Glenair Series ITS

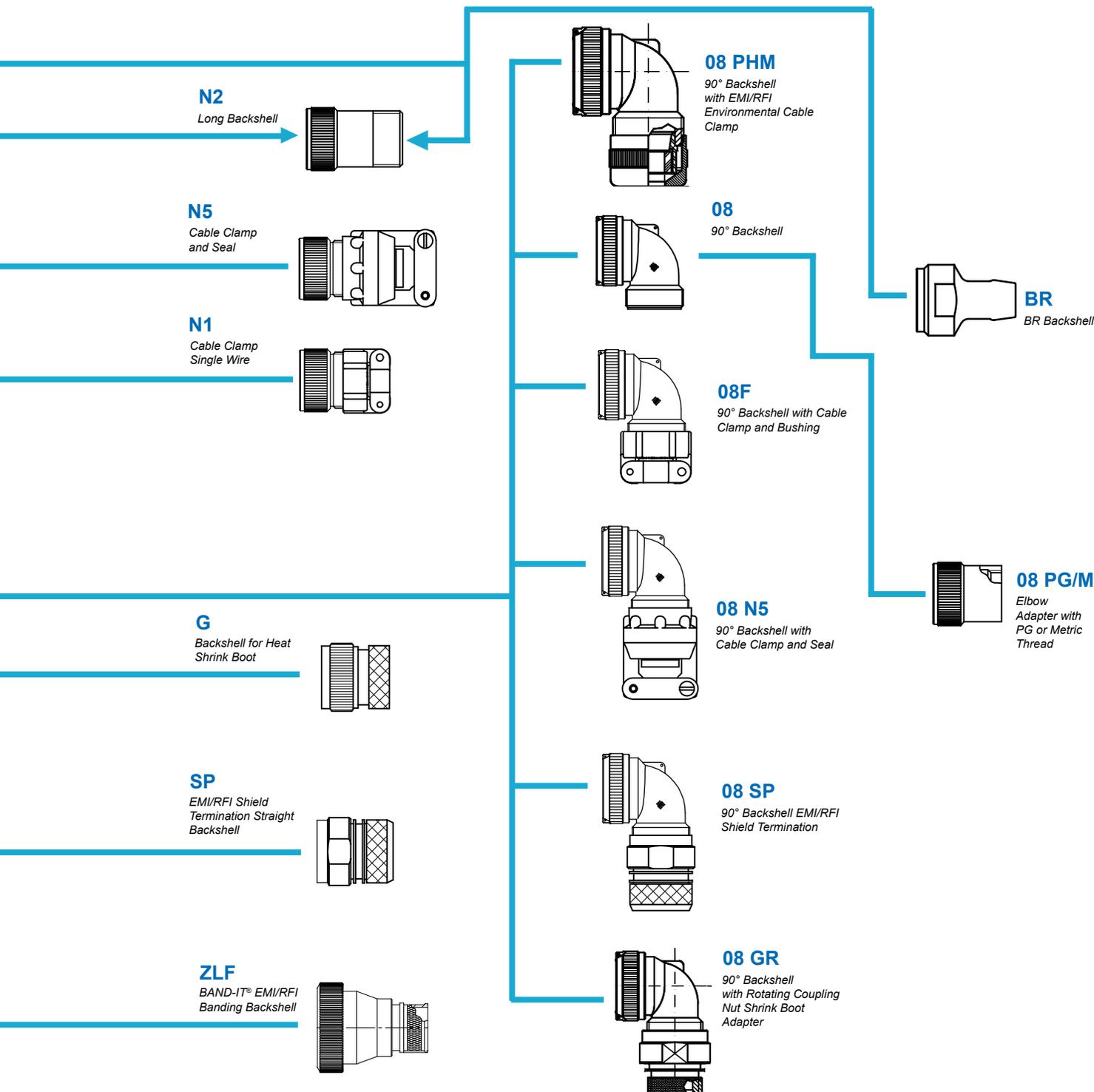
## MIL-DTL-5015 Type Reverse Bayonet Connectors

### Summary of Connector Styles and Backshells



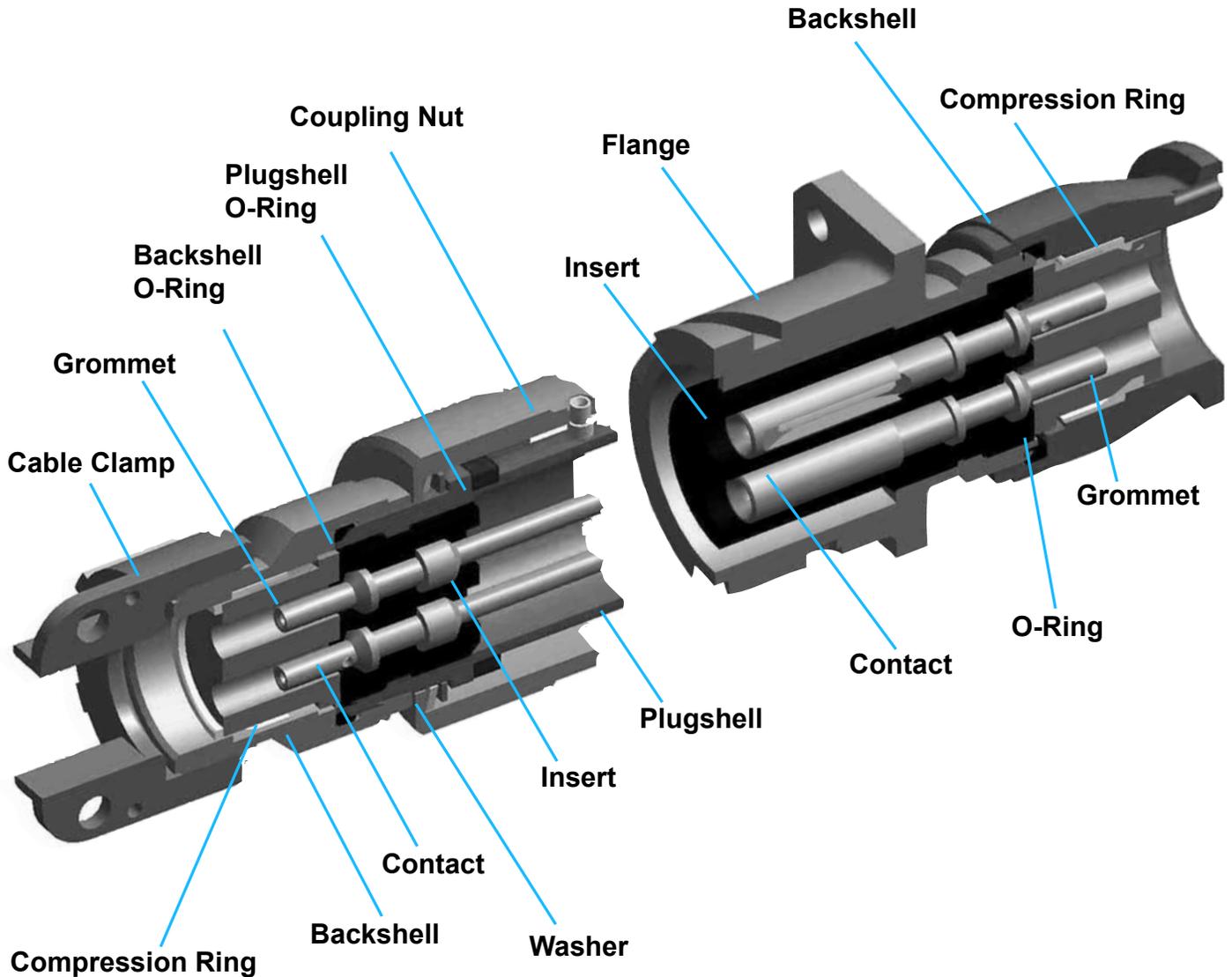
#### Backshells and Accessories

#### Adapters and Cable Clamps



- 00  
Wall Mount Receptacle

A



- 06  
Straight Plug

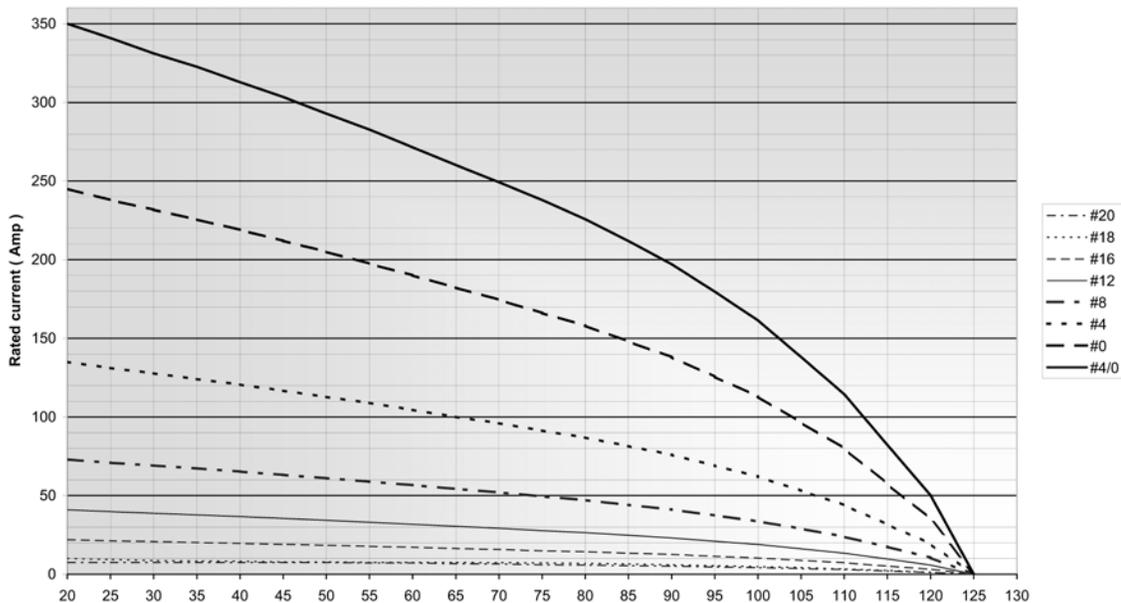
# Glenair Series ITS and ITS-RG MIL-DTL-5015 Type Reverse Bayonet Connectors Materials Overview



## Contact Specifications

Copper alloy with silver plating (standard) or gold plating (available on request).

Contact size	Rated current at 20 C	Rated current at 80 C	Max. Contact resist.	Wire size
20	7.5 A	7.5 A	12.0 mΩ	20 26 AWG
18	10 A	7.5 A	12.0 mΩ	18 26 AWG
16	22 A	13 A	6.0 mΩ	16 22 AWG
12	41 A	23 A	3.0 mΩ	12-14 AWG
8	73 A	46 A	1.0 mΩ	8-10 AWG
4	135 A	80 A	0.5 mΩ	4-6 AWG
0	245 A	150 A	0.3 mΩ	0 2 AWG
4/0	350 A	225 A	0.2 mΩ	4/0 AWG



## Service Rating (Minimum insulating resistance: $\geq 5 \times 10^3 \text{ M}\Omega$ )

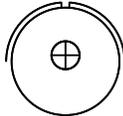
Class	Operating voltage Vdc	Operating voltage Vac RMS	Test voltage Vac RMS
INST.	250 V	200 V	1000 V
A	700 V	500 V	2000 V
D	1250 V	900 V	2800 V
E	1750 V	1250 V	3500 V
B	2450 V	1750 V	4500 V
C	4200 V	3000 V	7000 V

**Materials:** *Metal parts:* Aluminum alloy standard. Stainless steel and marine bronze also available.  
*Insulating parts:* High insulation synthetic rubber resistant to oils and high temperatures (-55°C to +125°C) in accordance with MIL-R-3065. All connectors are also available in fire resistant and halogen free materials.

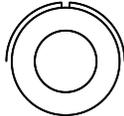
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1 CONTACT

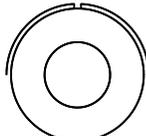
Arrangement  
Contact Size  
Service rating



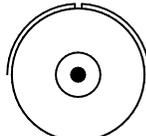
16-2  
12  
E



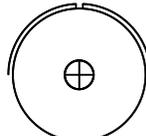
16-12  
4  
A



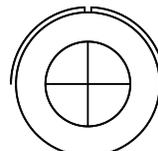
18-6  
4  
D



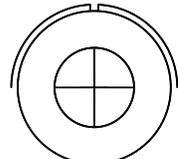
18-7  
8  
B



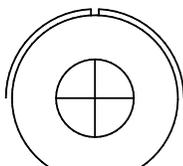
18-16  
12  
C



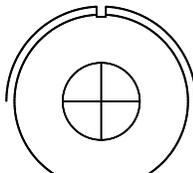
20-2  
0  
D



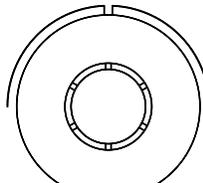
22-7  
0  
E



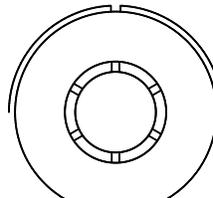
24-A1  
0  
B



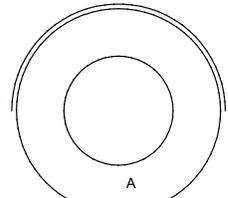
28-B1  
0  
B



32-A1  
AWG 4/0  
A



36-01  
AWG 4/0  
C



36-B90  
Special  
D

Arrangement  
Contact Size  
Service rating

2 CONTACTS

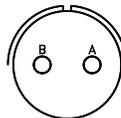
Arrangement  
Contact Size  
Service rating



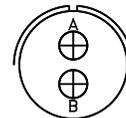
10SL-4  
16  
A



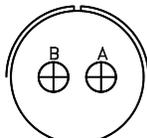
14S-9  
16  
A



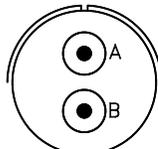
16S-4  
16  
D



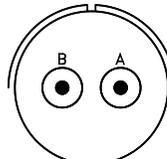
16-11  
12  
A



18-3  
12  
D



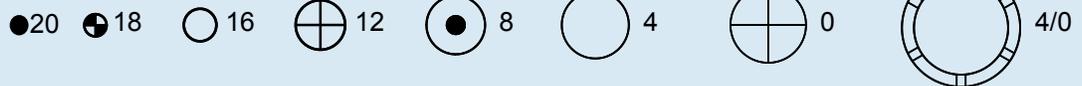
20-23  
8  
A



22-1  
8  
D

Arrangement  
Contact Size  
Service rating

CONTACT  
LEGEND

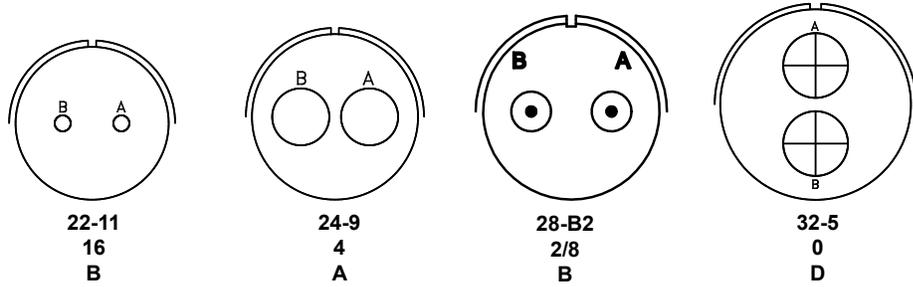


# Glenair Series ITS and ITS-RG MIL-DTL-5015 Type Reverse Bayonet Connectors Contact Arrangements Front View of Pin Insert



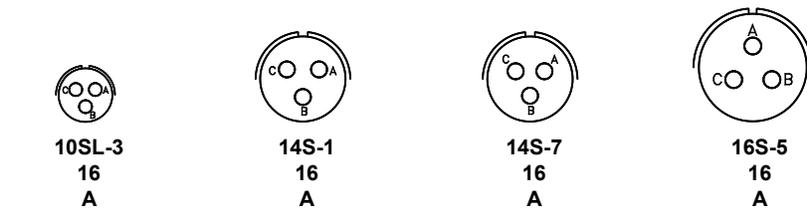
## 2 CONTACTS

Arrangement  
Contact Size  
Service rating

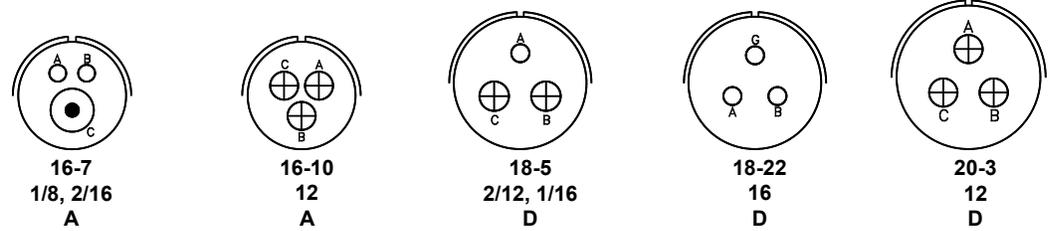


## 3 CONTACTS

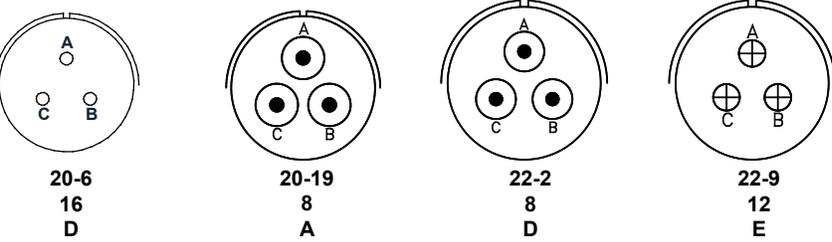
Arrangement  
Contact Size  
Service rating



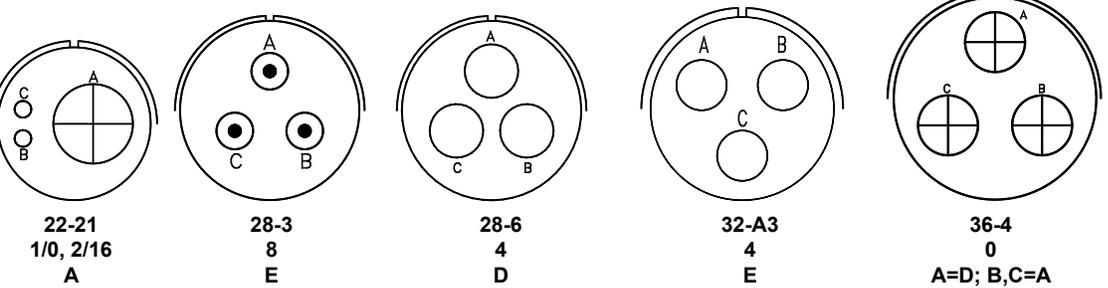
Arrangement  
Contact Size  
Service rating



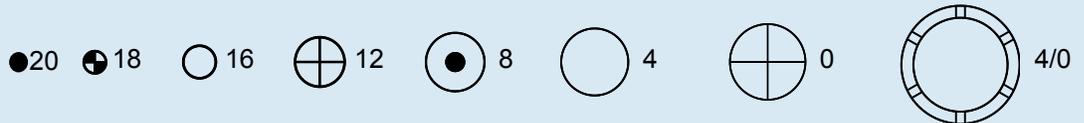
Arrangement  
Contact Size  
Service rating



Arrangement  
Contact Size  
Service rating



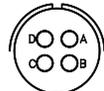
### CONTACT LEGEND



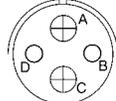
**A**

**4 CONTACTS**

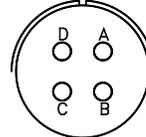
Arrangement  
Contact Size  
Service rating



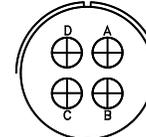
**14S-2**  
16  
I



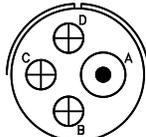
**16-9**  
2/12, 2/16  
A



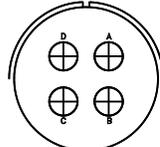
**18-4**  
16  
D



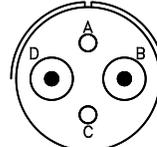
**18-10**  
12  
A



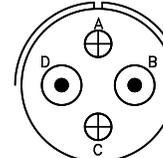
**18-13**  
1/8, 3/12  
A



**20-4**  
12  
D

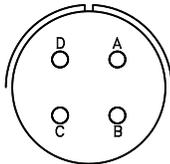


**20-24**  
2/8, 2/16  
A

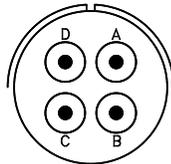


**22-4**  
2/8, 2/12  
A

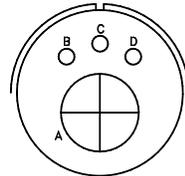
Arrangement  
Contact Size  
Service rating



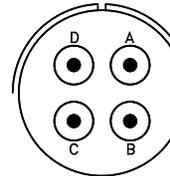
**22-10**  
16  
E



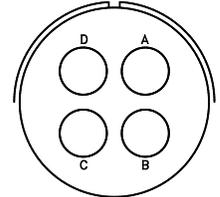
**22-22**  
8  
A



**24-4**  
1/0, 3/16  
A

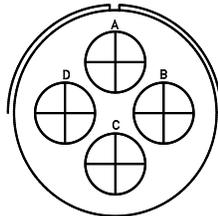


**24-22**  
8  
D

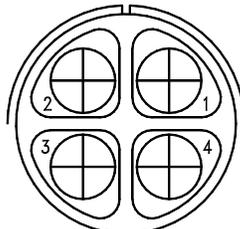


**32-17**  
4  
D

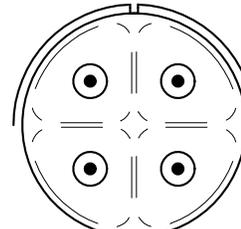
Arrangement  
Contact Size  
Service rating



**36-5**  
0  
A



**40-B4**  
0  
E



**40-D4**  
8  
E

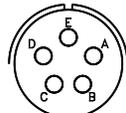
Arrangement  
Contact Size  
Service rating

**5 CONTACTS**

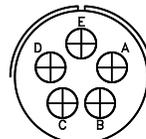
Arrangement  
Contact Size  
Service rating



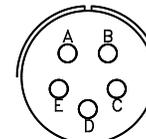
**14S-5**  
16  
I



**16S-8**  
16  
A

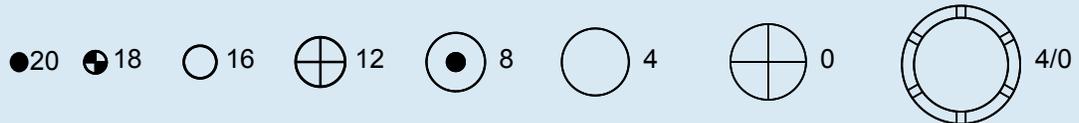


**18-11**  
12  
A



**18-20**  
16  
A

**CONTACT  
LEGEND**

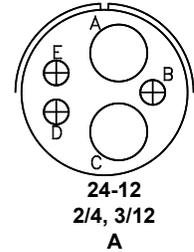
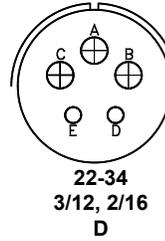
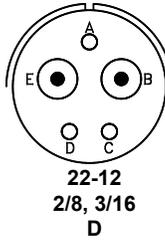
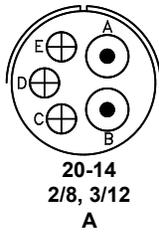


**Glenair Series ITS and ITS-RG**  
**MIL-DTL-5015 Type Reverse Bayonet Connectors**  
**Contact Arrangements**  
**Front View of Pin Insert**

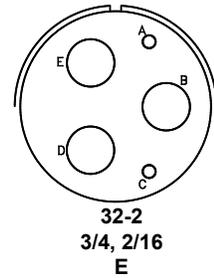
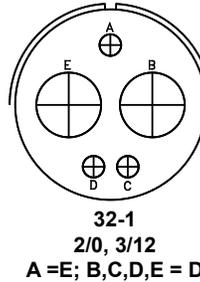
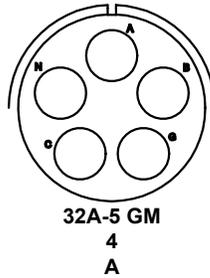
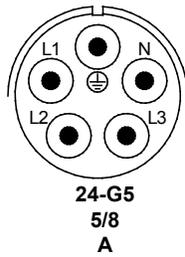


**5 CONTACTS**

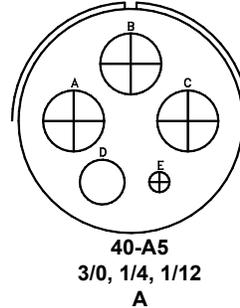
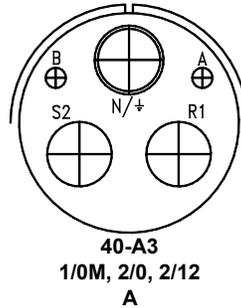
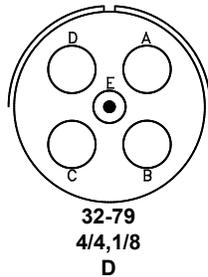
Arrangement  
Contact Size  
Service rating



Arrangement  
Contact Size  
Service rating

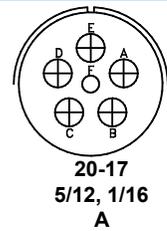
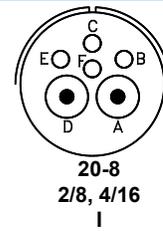
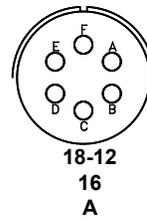
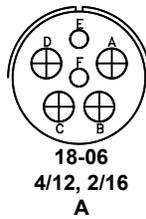


Arrangement  
Contact Size  
Service rating

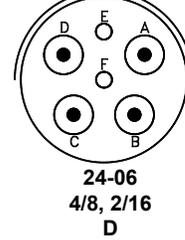
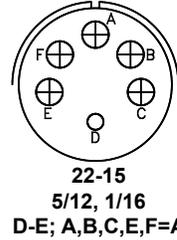
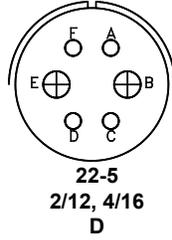
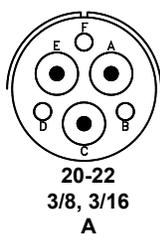


**6 CONTACTS**

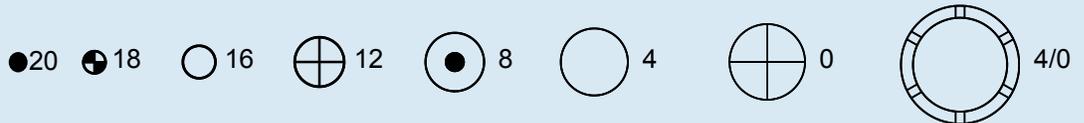
Arrangement  
Contact Size  
Service rating



Arrangement  
Contact Size  
Service rating

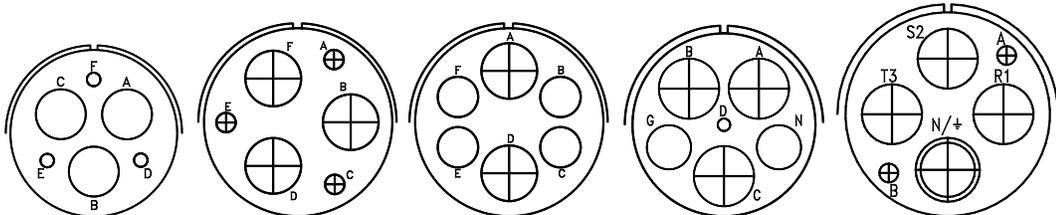


**CONTACT  
LEGEND**



A

6 CONTACTS



Arrangement  
Contact Size  
Service rating

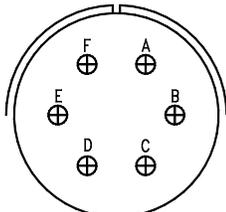
28-22  
3/4, 3/16  
D

36-3  
3/0, 3/12  
D

36-6  
2/0, 4/4  
A

36-A51  
3/0, 2/4, 1/16  
D

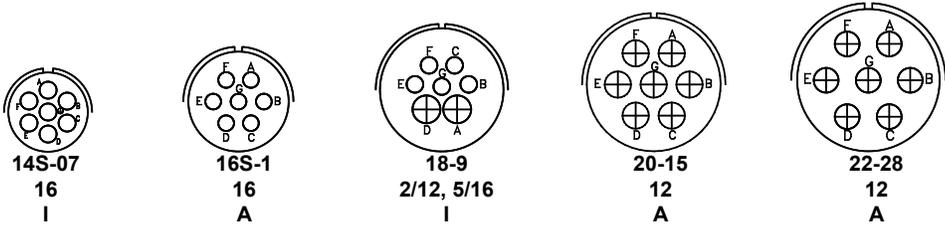
40-A4  
1/0M, 30, 2/12  
A



Arrangement  
Contact Size  
Service rating

40-A6  
12  
B

7 CONTACTS



Arrangement  
Contact Size  
Service rating

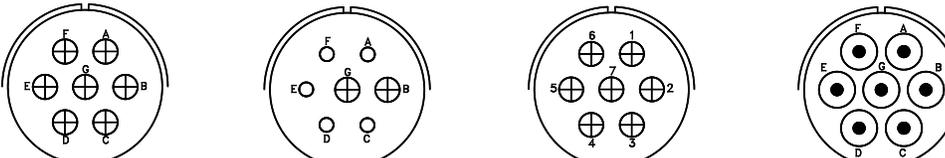
14S-07  
16  
I

16S-1  
16  
A

18-9  
2/12, 5/16  
I

20-15  
12  
A

22-28  
12  
A



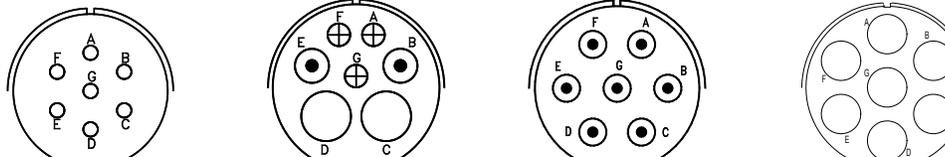
Arrangement  
Contact Size  
Service rating

24-2  
12  
D

24-3  
2/12, 5/16  
A

24-07  
12  
D

24-10  
8  
A



Arrangement  
Contact Size  
Service rating

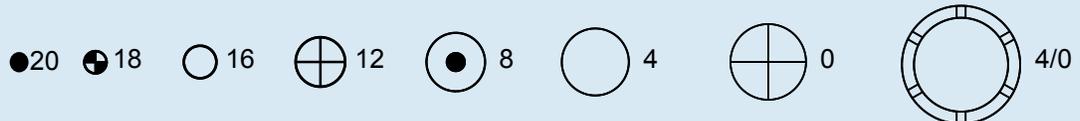
24-27  
16  
E

28-10  
2/4, 2/8,  
3/12

28-70  
8  
A

36-77  
4  
D

CONTACT  
LEGEND

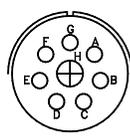


# Glenair Series ITS and ITS-RG MIL-DTL-5015 Type Reverse Bayonet Connectors Contact Arrangements Front View of Pin Insert

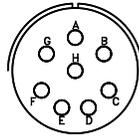


## 8 CONTACTS

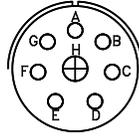
Arrangement  
Contact Size  
Service rating



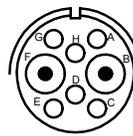
18-8  
1/12, 7/16  
A



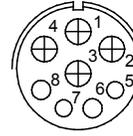
20-7  
16  
A,B,H,G=D; C,D,E, F=A



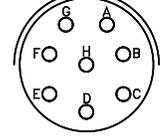
20-9  
1/12, 7/16  
H=D; Bal=A



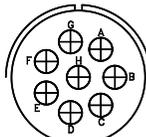
20-A8  
2/8, 6/16  
I



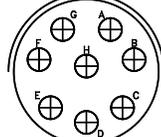
20-B8  
4/12, 4/16  
A



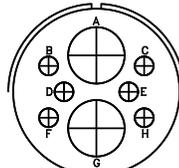
22-18  
16  
A,B,F,G,H=D; C,D,E=A



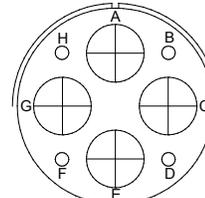
22-23  
12  
H=D; Bal=A



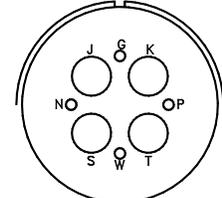
24-6  
12  
A,G,H=D



32-15  
2/0, 6/12  
D



40-A8  
4/0, 4/16  
E

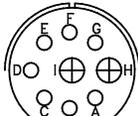


40-A10  
4/4, 4/16  
D

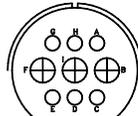
Arrangement  
Contact Size  
Service rating

## 9 CONTACTS

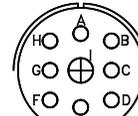
Arrangement  
Contact Size  
Service rating



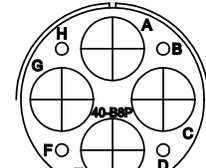
20-16  
2/12, 7/16  
A



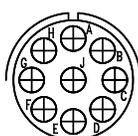
20-18  
3/12, 6/16  
A



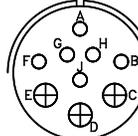
20-21  
1/12, 8/16  
A



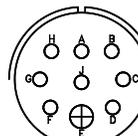
40-B8  
4/0, 4/16  
E



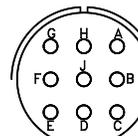
20-A9  
12  
J=D; Bal-I



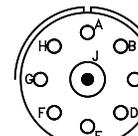
22-16  
3/12, 6/16  
A



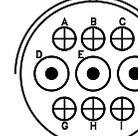
22-17  
1/12, 8/16  
A=D; Bal=A



22-20  
16  
A

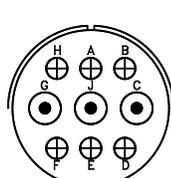


22-27  
1/8, 8/16  
J=D; Bal=A

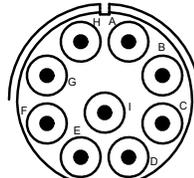


24-11  
3/8, 6/12  
A

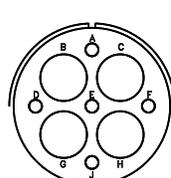
Arrangement  
Contact Size  
Service rating



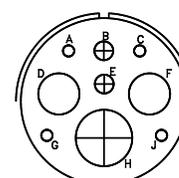
28-1  
3/8, 6/12  
A,J,E=D; Bal=A



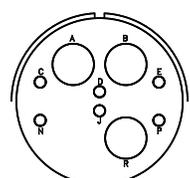
28-84  
8  
A



28-09  
4/4, 5/16  
A



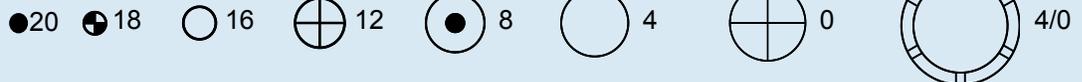
32-3  
1/0, 2/4, 2/12, 4/16  
D



32-689  
3/4, 6/16  
A

Arrangement  
Contact Size  
Service rating

### CONTACT LEGEND



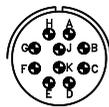


Glenair Series ITS and ITS-RG  
MIL-DTL-5015 Type Reverse Bayonet Connectors  
Contact Arrangements  
Front View of Pin Insert

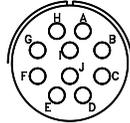
A

10 CONTACTS

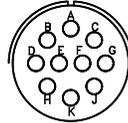
Arrangement  
Contact Size  
Service rating



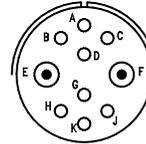
16-A10  
18  
I



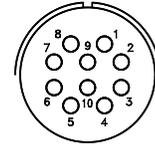
18-1  
16  
B,C,F,G=A; Bal=I



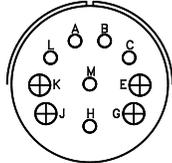
18-19  
16  
A



22-82  
8/16, 2/8  
A

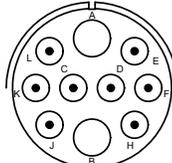


22-A10  
16  
A

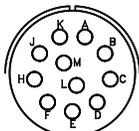


Arrangement  
Contact Size  
Service rating

28-19  
4/12, 6/16  
A,B=D; K,M=B; Bal=A



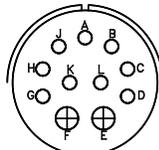
36-A10  
2/4, 8/8  
A



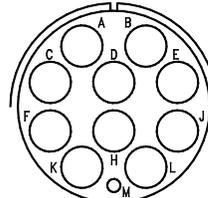
11 CONTACTS

Arrangement  
Contact Size  
Service rating

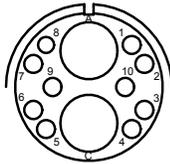
20-33  
16  
A



24-20  
2/12, 9/16  
D



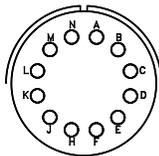
40-67  
10/4, 1/16  
A



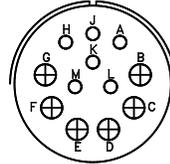
12 CONTACTS

Arrangement  
Contact Size  
Service rating

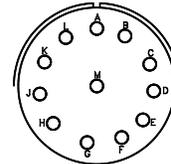
24-A12  
2/4, 10/16  
A



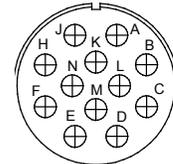
24-19  
16  
A



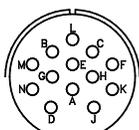
28-9  
6/12, 6/16  
D



28-18  
16  
A,B=A; G,H,J,K,L=D; M=C;  
Bal=I



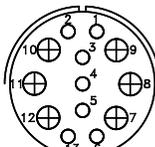
28-51  
12  
D



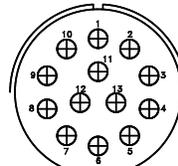
13 CONTACTS

Arrangement  
Contact Size  
Service rating

20-11  
16  
I

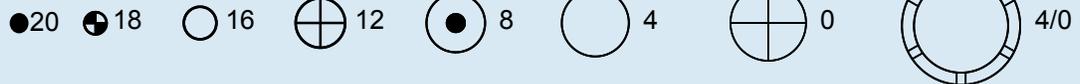


24-013  
6/12, 7/16  
A



32-013  
12  
D

CONTACT  
LEGEND

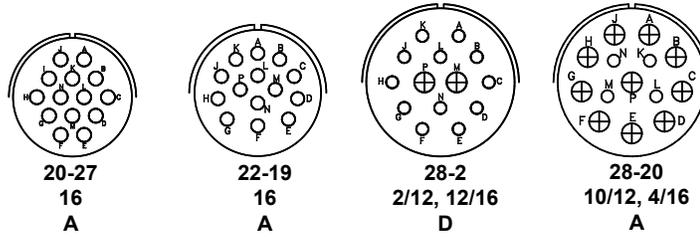


# Glenair Series ITS and ITS-RG MIL-DTL-5015 Type Reverse Bayonet Connectors Contact Arrangements Front View of Pin Insert

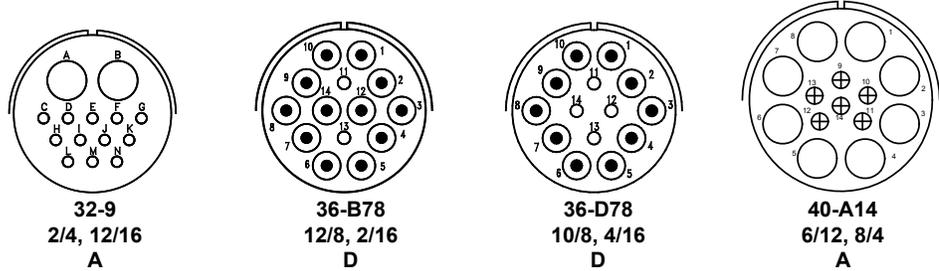


## 14 CONTACTS

Arrangement  
Contact Size  
Service rating

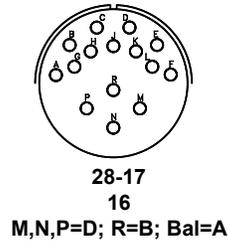


Arrangement  
Contact Size  
Service rating



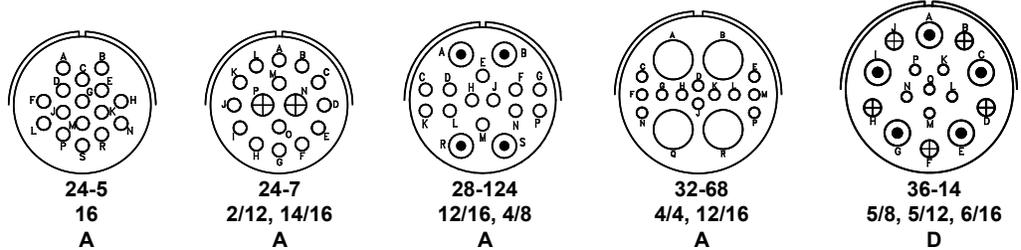
## 15 CONTACTS

Arrangement  
Contact Size  
Service rating



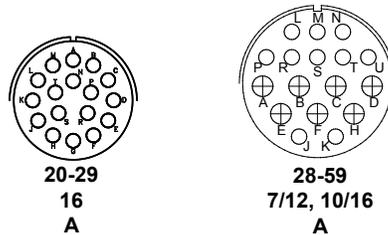
## 16 CONTACTS

Arrangement  
Contact Size  
Service rating

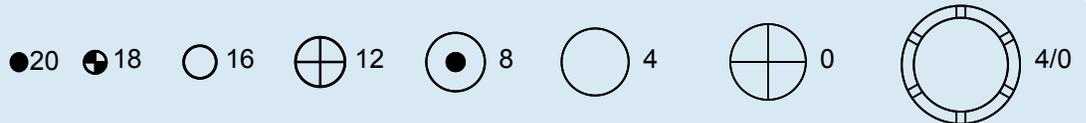


## 17 CONTACTS

Arrangement  
Contact Size  
Service rating

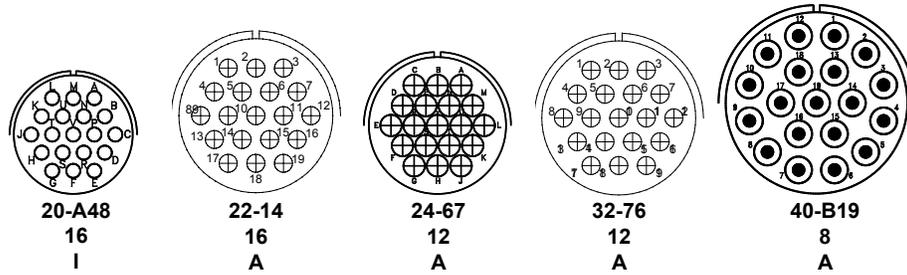


### CONTACT LEGEND



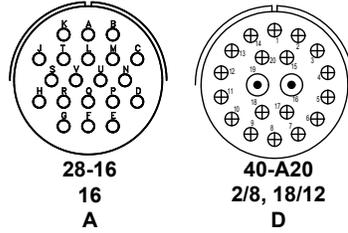
### 19 CONTACTS

Arrangement  
Contact Size  
Service rating



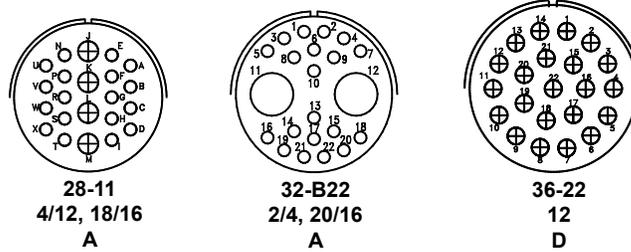
### 20 CONTACTS

Arrangement  
Contact Size  
Service rating



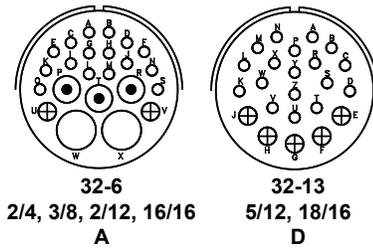
### 22 CONTACTS

Arrangement  
Contact Size  
Service rating



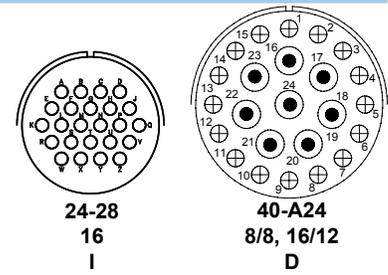
### 23 CONTACTS

Arrangement  
Contact Size  
Service rating



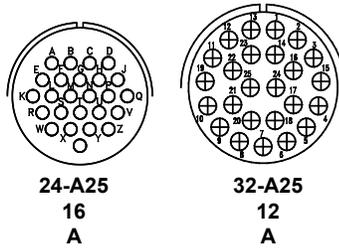
### 24 CONTACTS

Arrangement  
Contact Size  
Service rating



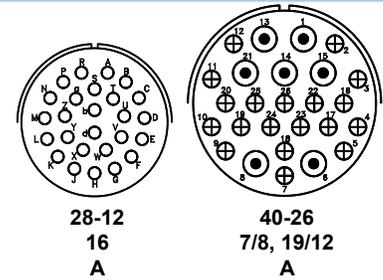
### 25 CONTACTS

Arrangement  
Contact Size  
Service rating

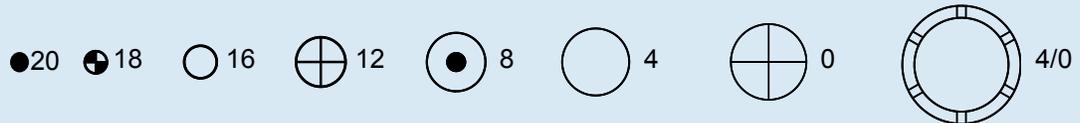


### 26 CONTACTS

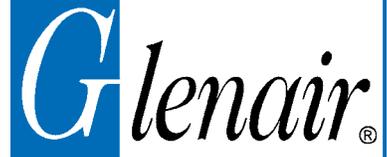
Arrangement  
Contact Size  
Service rating



**CONTACT  
LEGEND**

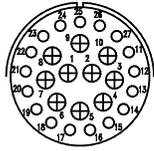


**Glenair Series ITS and ITS-RG**  
**MIL-DTL-5015 Type Reverse Bayonet Connectors**  
**Contact Arrangements**  
**Front View of Pin Insert**



Technical  
Data

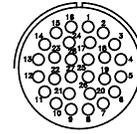
**27 CONTACTS**



Arrangement  
Contact Size  
Service rating

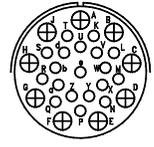
**32-A27**  
10/12, 17/16  
A

**28 CONTACTS**



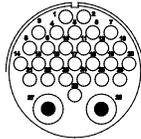
Arrangement  
Contact Size  
Service rating

**24-A28**  
16  
I



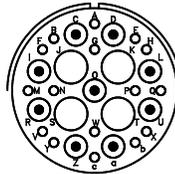
**28-A63**  
9/12, 19/16  
I

**29 CONTACTS**



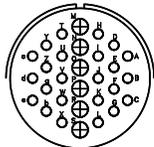
Arrangement  
Contact Size  
Service rating

**28-A29**  
2/8, 27/16  
A



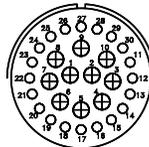
**40-10**  
4/4, 9/8, 16/16  
A

**30 CONTACTS**

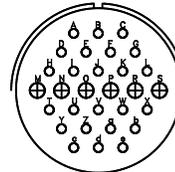


Arrangement  
Contact Size  
Service rating

**32-8**  
6/12, 24/16  
A



**32-A30**  
10/12, 20/16  
A



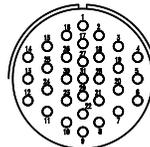
**40-1**  
6/12, 24/16  
D

**31 CONTACTS**

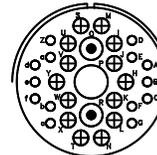


Arrangement  
Contact Size  
Service rating

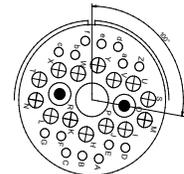
**28-A31**  
6/8, 25/18  
A



**32-31**  
16  
A

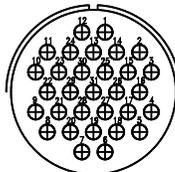


**36-9**  
1/4, 2/8, 14/12, 14/16  
A

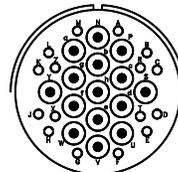


**36-18**  
1/4, 2/8, 14/12  
A

Arrangement  
Contact Size  
Service rating

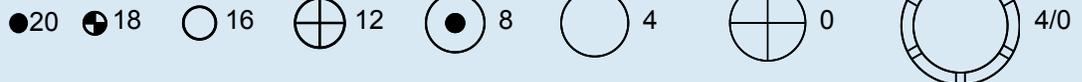


**40-31**  
31/12  
D



**40-A51**  
5/8, 16/16  
A

**CONTACT  
LEGEND**



A

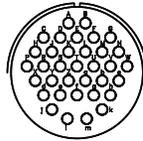


Glenair Series ITS and ITS-RG  
MIL-DTL-5015 Type Reverse Bayonet Connectors  
Contact Arrangements  
Front View of Pin Insert

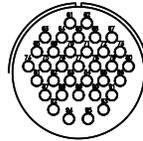
A

35 CONTACTS

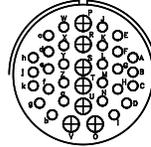
Arrangement  
Contact Size  
Service rating



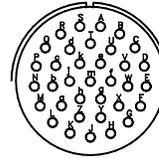
28-15  
16  
A



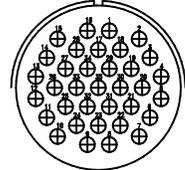
28-A35  
16  
A



32-7  
7/12, 28/16  
A,B,h,j=l; Bal=A



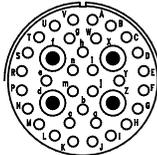
36-15  
16  
M=D; Bal=A



40-35  
12  
D

36 CONTACTS

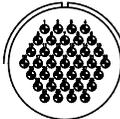
Arrangement  
Contact Size  
Service rating



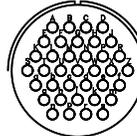
36-35  
4/8, 32/16  
A

37 CONTACTS

Arrangement  
Contact Size  
Service rating



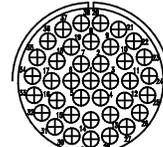
22-A37  
18  
A



28-21  
16  
A

38 CONTACTS

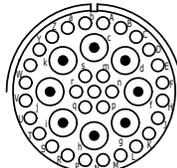
Arrangement  
Contact Size  
Service rating



40-A38  
12  
A

39 CONTACTS

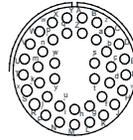
Arrangement  
Contact Size  
Service rating



36-54  
8/8, 31/16  
A

40 CONTACTS

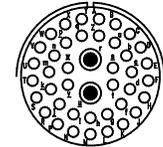
Arrangement  
Contact Size  
Service rating



32-A40  
40/16  
A

42 CONTACTS

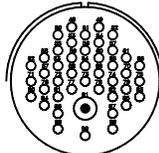
Arrangement  
Contact Size  
Service rating



32-59  
2/8, 40/16  
A

44 CONTACTS

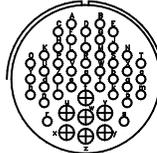
Arrangement  
Contact Size  
Service rating



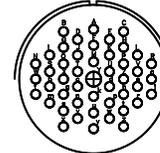
36-74  
1/8, 43/16  
A

47 CONTACTS

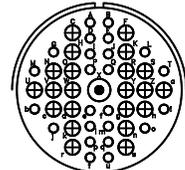
Arrangement  
Contact Size  
Service rating



36-7  
7/12, 40/16  
A



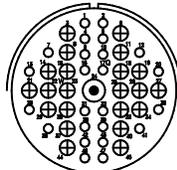
36-8  
1/12, 46/16  
A



40-9  
1/8, 22/12, 24/16  
A

47 CONTACTS

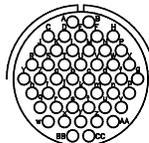
Arrangement  
Contact Size  
Service rating



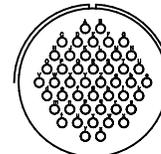
40-47  
1/8, 22/12, 24/16  
A

48 CONTACTS

Arrangement  
Contact Size  
Service rating

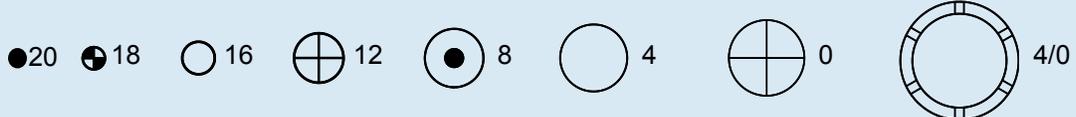


32-A48  
16  
I

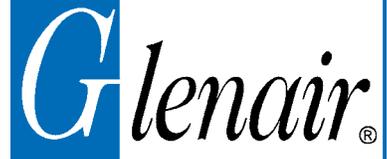


36-10  
16  
A

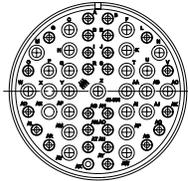
CONTACT  
LEGEND



**Glenair Series ITS and ITS-RG  
MIL-DTL-5015 Type Reverse Bayonet Connectors  
Contact Arrangements  
Front View of Pin Insert**



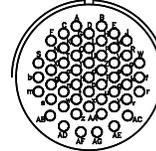
**51 CONTACTS**



Arrangement  
Contact Size  
Service rating

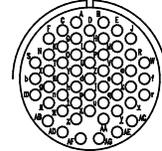
40-951  
25/12, 26/16  
A

**54 CONTACTS**



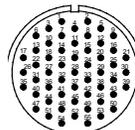
Arrangement  
Contact Size  
Service rating

32-22  
16  
A



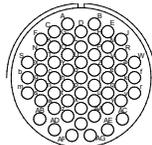
32-88  
16  
A

**55 CONTACTS**



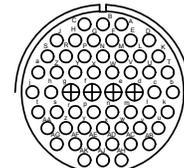
Arrangement  
Contact Size  
Service rating

24-A55  
20  
I



32-A55  
16  
A

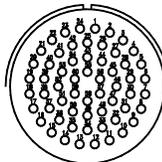
**56 CONTACTS**



Arrangement  
Contact Size  
Service rating

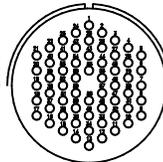
36-66  
4/12, 52/16  
A

**60 CONTACTS**



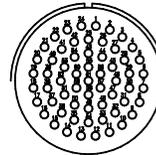
Arrangement  
Contact Size  
Service rating

40-53  
16  
A



40-62  
16  
A

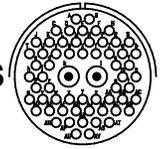
**61 CONTACTS**



Arrangement  
Contact Size  
Service rating

40-63  
16  
A

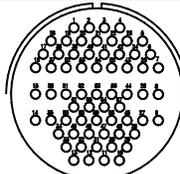
**62 CONTACTS**



Arrangement  
Contact Size  
Service rating

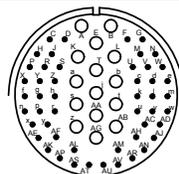
40-A62  
2/8, 60/16  
A

**65 CONTACTS**



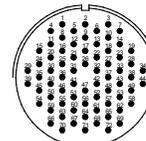
Arrangement  
Contact Size  
Service rating

40-A65  
16  
A



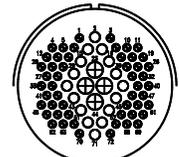
36-A99  
15/16, 50/20  
A

**72 CONTACTS**



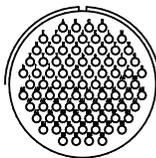
Arrangement  
Contact Size  
Service rating

28-72  
20  
I



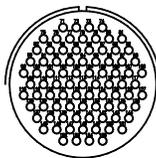
36-A72  
4/12, 16/16, 52/18  
I

**85 CONTACTS**



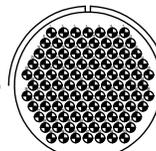
Arrangement  
Contact Size  
Service rating

40-56  
16  
A



40-A56  
16  
A

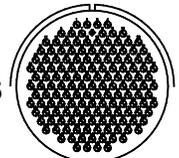
**100 CONTACTS**



Arrangement  
Contact Size  
Service rating

40-100  
100/18  
A

**150 CONTACTS**



Arrangement  
Contact Size  
Service rating

40-150  
18  
I

**CONTACT  
LEGEND**





# Glenair Series ITS and ITS-RG MIL-DTL-5015 Type Reverse Bayonet Connectors Contact Arrangement Tables

Arrang.	Rating	Contact number	Contact size											
			4/0	0	4	8	12	16	18	20				
10SL - 3	A	3							3					
- 4	A	2								2				
12-5	A	1						1						
12-S3	A	2								2				
14S - 1	A	3								3				
- 2	I	4								4				
- 5	I	5								5				
- 6	I	6								6				
- 7	A	3								3				
- 9	A	2								2				
- 07	I	7								7				
16S - 1	A	7								7				
- 4	D	2								2				
- 5	A	3								3				
- 8	A	5								5				
16 - 2	E	1						1						
- 7	A	3				1				2				
- 9	A	4						2		2				
- 10	A	3						3						
- 11	A	2						2						
- 12	A	1			1									
- A10	I	10										10		
18 - 1	I	10								10				
- 3	D	2						2						
- 4	D	4								4				
- 5	D	3						2		1				
- 6	D	1			1									
- 06	A	6						4		2				
- 7	B	1				1								
- 8	A	8						1		7				
- 9	I	7						2		5				
- 10	A	4						4						
- 11	A	5						5						
- 12	A	6								6				
- 13	A	4				1		3						
- 16	C	1						1						
- 19	A	10								10				
- 20	A	5								5				
- 22	D	3								3				
20 - 2	D	1		1										
- 3	D	3						3						
- 4	D	4						4						
- 6	D	3								3				
- 7	A	8								8				
- 8	I	6					2			4				
- 9	A	8						1		7				
- 11	I	13								13				
- 14	A	5					2		3					
- 15	A	7							7					
- 16	A	9						2		7				
- 17	A	6							5	1				
- 18	A	9						3		6				
- 19	A	3					3							
- 21	A	9						1		8				
- 22	A	6					3			3				
- 23	A	2					2							
- 24	A	4					2			2				
- 25	I	13								13				

Arrang.	Rating	Contact number	Contact size											
			4/0	0	4	8	12	16	18	20				
20 - 27	A	14										14		
- 29	A	17											17	
- 33	A	11											11	
- A8	I	8						2		6				
- A9	I	9								9				
- A48	I	19											19	
B-8	A	8								4		4		
22 - 1	D	2						2						
- 2	D	3								3				
- 4	A	4								2		2		
- 5	D	6									2	4		
- 7	E	1			1									
- 9	E	3									3			
- 10	E	4										4		
- 11	B	2										2		
- 12	D	5						2				3		
- 14	A	19											19	
- 15	A	6								5		1		
- 16	A	9								3		6		
- 17	A	9									1	8		
- 18	A	8										8		
- 19	A	14											14	
- 20	A	9											9	
- 21	A	3						1					2	
- 22	A	4								4				
- 23	A	8									8			
- 27	A	9							1			8		
- 28	A	7									7			
- 34	D	5								3		2		
- 82	A	10								2		8		
- A10	A	10										10		
- A37	A	37												37
24 - 2	D	7									7			
- 3	A	7									2	5		
- 4	A	4							1				3	
- 5	A	16											16	
- 06	D	6								4		2		
- 6	A	8										8		
- 07	D	7										7		
- 7	A	16									2	14		
- 9	A	2							2					
- 10	A	7								7				
- 11	A	9								3		6		
- 12	A	5							2			3		
- 013	A	13										6	7	
- 19	A	12											12	
- 20	D	11									2	9		
- 22	D	4								4				
- 27	E	7										7		
- 28	I	24											24	
- 67	A	19										19		
- A1	B	1							1					
- A12	A	12								2			10	
- A25	A	25											25	
- A28	I	28											28	
A-55	A	9								3		6		
G5	D	14										2	12	

A

# Glenair Series ITS and ITS-RG MIL-DTL-5015 Type Reverse Bayonet Connectors Contact Arrangement Tables



Arrang.	Rating	Contact number	Contact size														
			4/0	0	4	8	12	16	18	20							
28 - 1	A	9				3	6										
- 2	D	14						2	12								
- 3	E	3				3											
- 6	D	3			3												
- 84	A	9				9											
- 09	A	9			4				5								
- 9	D	12					6	6									
- 10	A	7			2	2	3										
- 11	A	22					4	18									
- 12	A	26						26									
- 15	A	35						35									
- 16	A	20						20									
- 17	A	15						15									
- 18	I	12						12									
- 19	A	10					4	6									
- 20	A	14					10	4									
- 21	A	37						37									
- 22	D	6			3			3									
- 51	D	12						12									
- 59	A	17						7	10								
- 70	A	7				7											
- 72	I	72														72	
- 124	A	16				4		12									
- A29	A	29				2		27									
- A31	A	31				6					25						
- A35	A	35						35									
- A63	I	28					9	19									
- B1	B	1		1													
- B2	E	2				2											
32 - 1	D	5		2			3		2								
- 2	E	5			3				2								
- 3	D	9		1	2			2	4								
- 5	D	2		2													
- 6	A	23			2	3	2	16									
- 7	I	35					7	28									
- 8	A	30						6	24								
- 9	D	14			2			12									
- 013	D	13						13									
- 13	D	23						5	18								
- 15	D	8		2				6									
- 17	D	4			4												
- 22	A	54							54								
- 31	A	31							31								
- 59	A	42				2		40									
- 68	A	16			4			12									
- 689	A	9			3			6									
- A5 GM	A	5			5												
- 76	A	19						19									
- 79	D	5			4	1											
- 88	A	54							54								
- A1	A	1		1													
- A3	E	3			3												
- A25	A	25						25									
- A27	A	27						10	17								
- A30	A	30						10	20								
- A40	I	40							40								
- A48	I	48							48								

Arrang.	Rating	Contact number	Contact size														
			4/0	0	4	8	12	16	18	20							
- A55	I	55								55							
- B22	A	22					2			20							
36 - 01	C	1	1														
- 3	D	6			3				3								
- 4	A	3			3												
- 5	A	4			4												
- 6	A	6			2	4											
- 7	A	47							7	40							
- 8	A	47							1	46							
- 9	A	31				1	2	14	14								
- 10	A	48								48							
- 14	D	16					5	5	6								
- 15	A	35								35							
- 18	A	31				1	2	14	14								
- 22	D	22							22								
- 35	A	36					4		32								
- 54	A	39					8		31								
- 66	A	56						4	52								
- 74	A	44						1	43								
- 77	D	7					7										
- A10	A	10				2	8										
- A51	D	6			3	2				1							
- A72	I	72							4	16	52						
- A99	A	65								15							50
- B78	D	14						12		2							
- B90	D	1							n.1 Special Contact								
- D78	D	14						10		4							
40 - 1	D	30							6	24							
- 9	A	47						1	22	24							
- 10	A	29				4	9		16								
- 26	A	26						7	19								
- 31	D	31							31								
- 35	D	35							35								
- 47	A	47						1	22	24							
- 53	A	60								60							
- 56	A	85								85							
- 62	A	60								60							
- 63	A	61								61							
- 67	A	11				10				1							
- 100	A	100													100		
- 150	I	150													150		
- 951	A	51							25	26							
- A3	A	5			3				2								
- A4	A	6			4				2								
- A5	A	5			3	1			1								
- A6	B	6								6							
- A10	D	8				4				4							
- A14	A	14				8			6								
- A20	D	20						2	18								
- A38	A	38								38							
- A51	A	31						15		16							
- A56	A	85								85							
- A62	A	62						2		60							
- A65	A	65								65							
- B8	A	8															
- B4	E	4						n.4 Special Contacts			4						
- B19	A	4							19								
- D4	C	4							4								



## Glenair Series ITS and ITS-RG MIL-DTL-5015 Type Reverse Bayonet Connectors Insert Rotation Alternate Positions

Arrang.	$\alpha \pm 2^\circ$			
	W	X	Y	Z
10SL - 3				
- 4				
12S - 3	70	145	215	290
12 - 5				
14S - 1	90	180	270	
- 2		120	240	
- 4				
- 5		110		
- 6	90			
- 7	90	180	270	
- 9	70	145	215	290
14 - 07				
16S - 1	80			280
- 3				
- 4	35	110	250	325
- 5	70	145	215	290
- 6	90	180	270	
- 8		170	265	
16 - 2				
- 7	80	110	250	280
- 9	35	110	250	325
- 10	90	180	270	
- 11	35	110	250	325
- 12				
- A10	35	112	235	315
18 - 1	70	145	215	290
- 3	35	110	250	325
- 4	35	110	250	325
- 5	80	110	250	280
- 6				
- 06				
- 7				
- 8	70			290
- 9	80	110	250	280
- 10		120	240	
- 11		170	265	
- 12	80			280
- 13	80	110	250	280
- 14	80	110	250	280
- 16				
- 19		120	240	
- 20	90	180	270	
- 22	70	145	215	290
- 29	90	180	270	

Arrang.	$\alpha \pm 2^\circ$			
	W	X	Y	Z
20 - 2				
- 3	70	145	215	290
- 4	45	110	250	
- 6	70	145	215	290
- 7	80	110	250	280
- 8	80	110	250	280
- 9	80	110	250	280
- 11				
- 12	80	110	250	280
- 14	80	110	250	280
- 15	80			280
- 16	80	110	250	280
- 17	90	180	270	
- 18	35	110	250	325
- 19	90	180	270	
- 20	80	110	250	280
- 21	35	110	250	325
- 22	80	110	250	280
- 23	35	110	250	325
- 24	35	110	250	325
- 27	35	110	250	325
- 29	80			280
- 33				280
- A9		110	250	
- A48		80	280	
22 - 1	35	110	250	325
- 2	70	145	215	290
- 4	35	110	250	325
- 5	35	110	250	325
- 6	80	110	250	280
- 7				
- 8	35	110	250	325
- 9	70	145	215	290
- 10	35	110	250	325
- 11	35	110	250	325
- 12	80	110	250	280
- 13	35	110	250	325
- 14	80	110	250	280
- 15	80	110	250	280
- 16	80	110	250	280
- 17	80	110	250	280
- 18	80	110	250	280
- 19	80	110	250	280
- 20	35	110	250	325

Arrang.	$\alpha \pm 2^\circ$			
	W	X	Y	Z
22 - 21	80	110	250	280
- 22		110	250	
- 23	35		250	
- 24	80	110	250	280
- 27	80		250	280
- 28	80			280
- 33	80	110	250	280
- 34	80	110	250	280
- A10		120	240	
24 - 2	80			280
- 3	80	110	250	280
- 5	80	110	250	280
- 06				
- 6	80	110	250	280
- 07	80			280
- 7	80	110	250	280
- 9	35	110	250	325
- 10	80			280
- 11	35	110	250	325
- 12	80	110	250	280
- 013				
- 16	80	110	250	280
- 17	80	110	250	280
- 19				
- 20	80	110	250	280
- 21	80	110	250	280
- 22	45	110	250	
- 27	80			280
- 28	80	110	250	280
- 67	80			335
- A25	80	110	250	280
- A28	65	146	235	
28 - 1	80	110	250	280
- 2	35	110	250	325
- 3	70	145	215	290
- 4	80	110	250	280
- 5	35	110	250	325
- 6	70	145	215	290
- 7	35	110	250	325
- 8	80	110	250	280
- 09				
- 9	80	110	250	280
- 10	80	110	250	280
- 11	80	110	250	280

Degrees  $\alpha \pm 2^\circ$

A

# Glenair Series ITS and ITS-RG MIL-DTL-5015 Type Reverse Bayonet Connectors Insert Rotation Alternate Positions

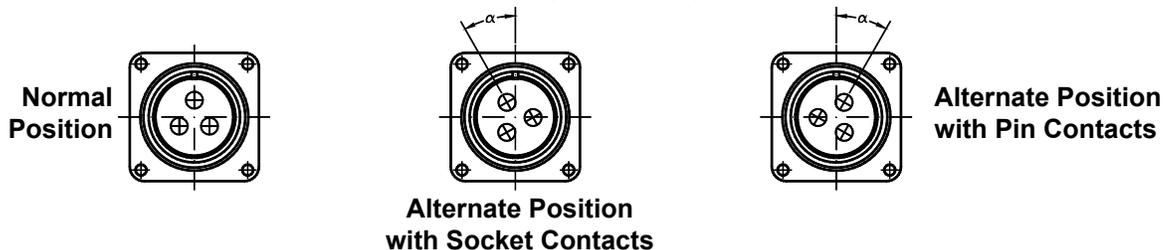


Arrang.	$\alpha \pm 2^\circ$			
	W	X	Y	Z
28 - 12	90	180	270	
- 15	80	110	250	280
- 16	80	110	250	280
- 17	80	110	250	280
- 18	70	145	215	290
- 19	80	110	250	280
- 20	80	110	250	280
- 21	80	110	250	280
- 22	70	145	215	290
- A31	35		260	310
- A35	80	110	250	280
- B1				
32 - 1	80	110	250	280
- 2	70	145	215	290
- 3	80	110	250	280
- 4	80	110	250	280
- 5	35	110	250	325
- 6	80	110	250	280
- 7	80	125	235	280
- 8	80	125	235	280
- 9	80	110	250	280
- 10	80	110	250	280
- 12	80	110	250	280
- 013	65	130	230	295
- 13	80	110	250	280
- 15	35	110	250	280
- 17	45	110	250	
- 22	80	110	250	280
- 31		125	215	280
- 68	65	135	225	275
- 689				
- 79				
- A1				
- A30				
- A48	80			
36 - 01				
- 1	80	110	250	280
- 3	70	145	215	290

Arrang.	$\alpha \pm 2^\circ$			
	W	X	Y	Z
36 - 4	70	145	215	290
- 5		120	240	
- 6	35	110	250	325
- 7	80	110	250	280
- 8	80	110	250	280
- 9	80	125	235	280
- 10	80	125	235	280
- 13	80	110	250	280
- 14	90	180	270	
- 15	60	125	245	305
- 20				
- 22	80	110	250	280
- 74				
- A51	45	135	225	315
- A99	30	135		
40 - 1	65	130	235	300
- 9	65	125	225	310
- 10	65	125	225	310
- 26	80	110	250	280
- 31	80	110	250	280
- 35	70	130	230	290
- 47	65	125	225	310
- 53	80			280
- 56	72	144	216	288
- 63	80			280
- 150				
- 951				
- A3	70	145	215	290
- A4	50	120	240	325
- A5	33			270
- A8	35	110	250	325
- A10				
- A27	45	110	250	315
- A51				
- B4	45	110		
- B19	35	105	255	325
- N56	72	144	216	288
- S27				

Degrees  $\alpha \pm 2^\circ$

**Insert rotation (front view)**





**Glenair Series ITS and ITS-RG  
MIL-DTL-5015 Type Reverse Bayonet Connectors  
Insert Arrangements for Thermocouple Contacts**

A

Arrang.	Number of Contacts		Standard Insert	Alternate Position Rotation	Contact Material
	#16	#12			
10SL-51	2	-	10SL-4	45	A=Fe - B=Con
10SL-52	2	-	10SL-4	45	A=Cu - B=Con
10SL-53	2	-	10SL-4	45	A=Al - B=Ch
10SL-54	3	-	10SL-3	-	A=Fe - B=Con - C=Cu
10SL-55	3	-	10SL-3	-	A=Al - B=Ch - C=Cu
10SL-56	2	-	10SL-4	-	A=Al - B=Ch
12S-51	2	-	12S-3	315	A=Ch - B=Al
12S-54	2	-	12S-3	315	A=Fe - B=Con
12S-55	2	-	12S-3	45	A=Cu - B=Con
12S-56	2	-	12S-3	-	A=Al - B=Ch
12S-57	2	-	12S-3	60	A=Ch - B=Al
12S-58	2	-	12S-3	120	A=Fe - B=Con
12S-59	2	-	12S-3	-	A=Fe - B=Con
12S-62	2	-	12S-3	-	A=Ch - B=Al
14S-51	2	-	14S-9	90	A=Al - B=Ch
14S-52	4	-	14S-2	45	A,B=Cu - C=Al - D=Ch
14S-53	2	-	14S-9	90	A=Fe - B=Con
14S-54	6	-	14S-6	45	A,C,E=Fe - B,D,F=Con
14S-55	4	-	14S-2	45	A,C=Fe - B,D=Con
14S-56	4	-	14S-2	45	A=Fe - B=Con - C,D=Cu
14S-57	4	-	14S-2	45	A,C=Al - B,D=Ch
14S-58	3	-	14S-4	45	A=Al - B=Ch - C=Cu
14S-59	2	-	14S-9	90	A=Cu - B=Con
14S-60	2	-	14S-9	-	A=Al - B=Ch
14S-61	6	-	14S-6	45	A=Al - B=Ch - C=Fe - D=Con - E,F=Cu
14S-63	6	-	14S-6	-	A,C=Al - B,D=Ch - E=Fe - F=Con
14S-64	4	-	14S-2	-	A,C=Con - B,D=Cu
14S-65	6	-	14S-6	-	A,C,E=Cu - B,D,F=Con
14S-67	6	-	14S-6	-	A=Al - B=Ch - Bal=Cu
14S-68	4	-	14S-2	45	A=Ch - B=Con - C,D=Cu
14S-69	3	-	14S-7	-	A=Con - B=Ch - C=Cu
14S-70	4	-	14S-2	-	A=Ch - D=Al - Bal=Cu
14S-71	4	-	14S-2	-	n°2 =Ch - n°2=Con
14S-72	4	-	14S-2	-	A,C=Fe - B,D=Con
14S-73	4	-	14S-2	-	A,C=Ch - B,D=Al
14S-74	4	-	14S-2	-	A=Al - B=Ch - Bal=Cu
14S-77	6	-	14S-6	-	A,B,C=Al - D,E,F=Ch
14S-78	4	-	14S-2	-	A,B=Al - C,D=Ch
14S-79	5	-	14S-5	-	n°1=Al - n°1=Ch - Bal=Cu
14S-80	3	-	14S-7	-	n°2=Fe - n°1=Con
16S-50	5	-	16S-8	-	n°1=Con - n°1=Fe - n°3=Cu
16S-51	7	-	16S-1	-	A,F=Al - B=Ch - Bal=Cu
16S-52	2	-	16S-4	-	A=Ch - B=Al
16S-53	3	-	16S-5	-	A,B,C=Fe
16S-54	7	-	16S-1	-	A=Al - B=Ch - Bal=Cu

Materials description key: Al = Alumel, Ch = Chromrel, Con = Constantan, Cu = Copper, Fe = Iron, PhBz = Phosphor Bronze, Dummy = Wire hole plug

Degrees  $\alpha \pm 2^\circ$

# Glenair Series ITS and ITS-RG MIL-DTL-5015 Type Reverse Bayonet Connectors Insert Arrangements for Thermocouple Contacts



Arrang.	Number of Contacts		Standard Insert	Alternate Position Rotation	Contact Material
	#16	#12			
16S-55	2	-	16S-4	-	n°1=Con - n°1=Cu
16S-56	7	-	16S-1	-	A,D=Fe - B,E=Con - Bal=Cu
16S-57	3	-	16S-5	-	n°1=Ch - n°1=Al - n°1=Cu
16S-58	5	-	16S-8	-	n°2=Fe - n°2=Con - n°1=Cu
16S-59	7	-	16S-1	-	n°3=Al - n°3=Ch - n°1=Cu
16-13	2	-	16-13	-	A=Fe - B=Con
16-52	2	-	16-11	90	A=Al - B=Ch
16-53	2	2	16-9	70	A=Al - C=Ch - B,D=Cu
16-55	-	3	16-10	45	A=Al - B=Ch - C=Cu
16-56	-	2	16-13	90	A=Con - B=Cu
16-57	-	3	16-10	-	A=Al - B=Cu - C=Ch
16-58	-	3	16-10	-	A=Con - B,C=Cu
16-60	-	2	16-13	-	A=Al - B=Ch
18-15	-	4	18-15	-	A,C=Fe - B,D=Con
18-41	4	-	18-4	-	A,C=Fe - B,D=Con
18-42	4	-	18-4	-	A,C=Al - B,D=Ch
18-43	4	-	18-4	-	A,C=Ch - B,D=Con
18-44	3	-	18-22	-	n°1=Al - n°1=Ch - n°1=Cu
18-45	5	-	18-20	-	A=Fe - B=Con - Bal=Cu
18-46	4	-	18-4	-	n°1=Ch - n°1=Al - n°2=Cu
18-47	4	-	18-4	-	A,C=Ch - B,D=Al
18-49	10	-	18-1	-	n°3=Fe - n°3=Con - Bal=Cu
18-50	-	2	18-3	-	n°1=Al - n°1=Ch
18-51	6	-	18-12	-	A,B=Fe - E,D=Con - C,F=Cu / (A=Fe - B,E=Con - D=Cu - C,F=Dummy)
18-52	-	5	18-11	-	A=Fe - B=Con - C=Ch - D=Al - E=Cu / (A=Fe - B=Con - C=Ch - D=Al - E=Dummy)
18-53	6	-	18-12	-	A,D=Fe - B,E=Con - C,F=Cu / (A,D=Fe - B,E=Con - C,F=Dummy)
18-54	-	4	18-15	-	A,C=Al - B,D=Ch
18-56	10	-	18-1	45	A,C,E,G,I=Fe - B,D,F,H,J=Con
18-57	6	-	18-12	45	A,C,E=Al - B,D,F=Ch
18-59	6	-	18-12	45	A,C=Fe - B,E,F=Con - D=Cu
18-60	-	5	18-11	45	A,D=Al - B,C=Ch - E=Cu
18-61	6	-	18-12	-	A,C=Fe - B,D=Con - E=Ch - F=Al
18-62	6	-	18-12	-	A,B,C=Fe - D,E,F=Con
18-63	-	4	18-15	-	A,C=Con - B,D=Cu
18-65	6	-	18-12	-	A=Fe - B=Con - Bal=Cu
18-66	10	-	18-1	-	A,C,E,G,I=Cu - B,D,F,H,J=Con
18-67	6	-	18-12	-	A,C,E=Cu - B,D,F=Con
18-68	5	-	18-11	-	A,D=Al - B,C=Ch - E=Cu
18-69	10	-	18-1	-	A=Al - B=Ch - Bal=Cu
18-70	-	5	18-11	-	A=Fe - B=Con - C=Ch - D=Al - E=Cu
18-71	6	-	18-12	-	n°2=Al - n°2=Ch - n°2=Cu
18-72	-	4	18-10	45	n°2=Fe - n°2=Con
18-73	-	4	18-10	-	n°2=Fe - n°2=Con
18-74	-	4	18-10	-	n°2=Con - n°2=Cu
18-75	10	-	18-1	-	n°2=Al - n°2=Ch - Bal=Cu

Materials description key: Al = Alumel, Ch = Chromrel, Con = Constantan, Cu = Copper, Fe = Iron, PhBz = Phosphor Bronze, Dummy = Wire hole plug

Degrees  $\alpha \pm 2^\circ$



## Glenair Series ITS and ITS-RG MIL-DTL-5015 Type Reverse Bayonet Connectors Insert Arrangements for Thermocouple Contacts

Arrang.	Number of Contacts		Standard Insert	Alternate Position Rotation	Contact Material
	#16	#12			
20-222	3	3 #8	20-22	-	B=Fe - D=Con - Bal=Cu
20-50	17	-	20-29	-	n°7=Al - n°7=Ch - n°3=Cu
20-51	8	-	20-7	-	A, C, E, G=Ch - B, D, F, H=Al
20-52	-	4	20-4	315	A=Fe - B=Con - C=Ch - D=Al
20-56	-	8	20-7	45	A, B, G, H=Fe - C, D, E, F=Con
20-60	8	-	20-7	45	D=Ch - E=Al - Bal=Cu
20-61	17	-	20-29	45	A, B, M=Cu - Bal=Con
20-62	-	7	20-15	80	A, C, E=Al - B, D, F=Ch - G=Cu
20-64	14	-	20-27	-	H=Al - C=Ch - Bal=Cu
20-641	14	-	20-27	-	A, B, C, D, E, F, G=Al - H, I, J, K, L, M, N=Ch
20-65	14	-	20-27	-	A, B, C, D, E, F, G=Fe - H, I, J, K, L, M, N=Con
20-67	7	2	20-16	-	H=Al - I=Ch - Bal=Cu
20-68	8	-	20-7	-	A, B, G, H=Con - C, D, E, F=Cu
20-69	14	-	20-27	-	A, B, C, D, E, F, G=Cu - H, I, J, K, L, M, N=Con
20-70	17	-	20-29	-	A, C, E, G, J, L, N, R, T=Fe - B, D, F, H, K, M, P, S=Con
20-71	17	-	20-29	-	S=Al - R=Ch - Bal=Cu
20-74	17	-	20-29	-	A, C, E, G, J, L, N, R=Fe - B, D, F, H, K, M, P, S=Con - T=Cu
20-75	-	7	20-15	-	G=Al - Bal=Ch
20-76	17	-	20-29	-	n°8=Ch - n°8=Al - n°1=Cu
20-77	9	-	20-A9	-	n°3=Al - n°3=Ch - n°3=PhBz
20-78	-	4	20-4	-	A=Fe - B=Con - Bal=Cu
20-80	-	3	20-3	-	A=Al - C=Ch - B=Cu
20-81	8	1	20-21	-	n°4=Al - n°4=Ch - I=Cu
20-82	14	-	20-27	-	n°4=Al - n°10=Cu
20-83	14	-	20-27	-	A, B=Ch - C, D=Al - Bal=Cu
20-84	3	3 #8	20-22	-	B=Al - D=Ch - Bal=Cu
20-85	14	-	20-27	-	n°12=Ch - n°1=Al - n°1=Cu
20-86	14	-	20-27	-	n°2=Al - n°12=Ch
22-36	-	8	22-36	-	B, D, F, H=Con - A, C, E, G=Fe
22-57	19	-	22-14	45	A, C, E, G, J, L, N, R=Fe - B, D, F, H, K, M, P, S=Con - T, U, V=Cu
22-60	19	-	22-14	45	U=Al - N=Ch - Bal=Cu
22-62	-	8	22-23	300	A, B, F, G=Al - C, D, E, H=Ch
22-68	14	-	22-19	45	A, C, E, G, J, L, M=Fe - B, D, F, H, K, P, N=Con
22-69	14	-	22-19	45	A, C, E, G, J, L, M=Cu - B, D, F, H, K, P, N=Con
22-71	19	-	22-14	-	V=Al - U=Ch - Bal=Cu
22-72	4	2	22-5	-	B=Al - E=Ch - Bal=Cu
22-73	4	2	22-5	-	E=Al - B=Ch - Bal=Cu
22-74	-	8	22-23	-	A, C, E, G=Fe - B, D, F, H=Con
22-75	-	8	22-23	-	A=Al - B, D, G, H=Cu - C=Ch - E=Fe - F=Con
22-77	14	-	22-19	-	B, D, F, H, J, K, M, P=Cu - A, E, L=Fe - C, G, N=Con
22-78	19	-	22-14	-	A, C, E, G, H, K, M, P, R, T=Con - Bal=Cu
22-79	4	-	22-10	-	A, C=Con - B, D=Cu
22-81	2	3	22-34	-	E=Fe - D=Con - Bal=Cu
22-82	19	-	22-14	-	A, L, C, E, G, J=Fe - B, M, D, F, H, K=Con - N, U, P, R, S, T=Cu - V=Dummy
22-83	19	-	22-14	-	A, L, C, E, G, J=Al - B, M, D, F, H, K=Ch - N, U, P, R, S, T=Cu - V=Dummy
22-85	4	2	22-5	-	n°2=Al - n°2=Ch - Bal=Cu

Materials description key: Al = Alumel, Ch = Chromrel, Con = Constantan, Cu = Copper, Fe = Iron, PhBz = Phosphor Bronze, Dummy = Wire hole plug

Degrees  $\alpha \pm 2^\circ$

# Glenair Series ITS and ITS-RG MIL-DTL-5015 Type Reverse Bayonet Connectors Insert Arrangements for Thermocouple Contacts



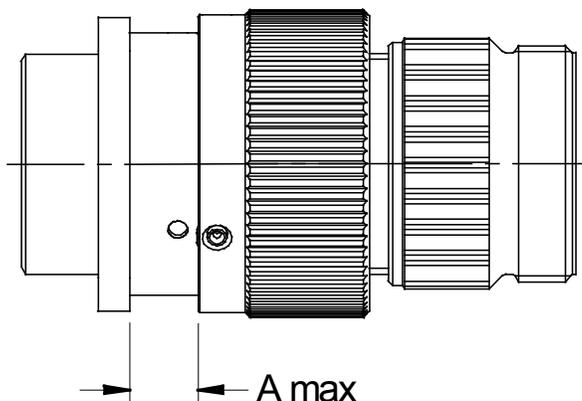
Arrang.	Number of Contacts		Standard Insert	Alternate Position Rotation	Contact Material
	#16	#12			
24-412	12	-	24-19	-	n <sup>6</sup> =Cu - n <sup>6</sup> =Con
24-56	9	2	24-20	45	E=Al - F=Ch - Bal=Cu
24-57	24	-	24-28	45	A,C,J,V,Y,W,K,E,H,U,S,M=Ch - Bal=Al
24-62	24	-	24-28	-	A,C,E,G=Fe - B,D,F,H=Con - R,T=Ch - S,U=Al - Bal=Cu
24-621	24	-	24-28	-	A,C,E,G,J,L,K,N,S,U,W,Y=Fe - B,D,F,H,Q,R,M,P,T,V,X,Z=Con
24-622	24	-	24-28	-	A,C,E,G,J,L,K,N,S,U,W,Y=Ch - B,D,F,H,Q,R,M,P,T,V,X,Z=Al
24-63	24	-	24-28	-	A,C,E,G,J,L,K,N,S,U,W,Y=Cu - B,D,F,H,Q,R,M,P,T,V,X,Z=Con
24-64	16	-	24-5	-	A,B,C,D,E,F,G,H=Fe - J,K,L,M,N,P,R,S=Con
24-68	24	-	24-28	-	D=Con - Bal=Cu
24-69	12	-	24-19	-	n <sup>5</sup> =Con - n <sup>7</sup> =Cu
24-70	24	-	24-28	-	n <sup>8</sup> =Ch - n <sup>8</sup> =Al - n <sup>8</sup> =PhBz
24-71	16	-	24-5	-	A,B,C,D,E,F,G,H=Al - J,K,L,M,N,P,R,S=Ch
28-201	4	10	28-20	-	A,C,E,G,J,P=Con - Bal=Cu
28-53	18	4	28-11	45	J,L=Al - K,M=Ch
28-58	4	10	28-20	45	A,C,E,G,K,M=Al - B,D,F,H,L,N=Ch - J,P=Cu
28-61	37	-	28-21	45	A,C,Z,m,r,n,a,K,F,H,X,k,h,T,M,N,d=Fe - Bal=Con
28-63	4	10	28-20	315	A,C,E,G,J=Al - B,D,F,H,P=Ch - Bal=Cu
28-64	35	-	28-15	-	A,d=Al - B,j=Ch - C,D,E,F,G,N,P,R,S,H,J,K,L,M,W,X,Y,Z=Con - Bal=Cu
28-65	26	-	28-12	-	A,C,E,G,J,L,N,R,T,V=Fe - X,Z=Al - B,D,F,H,K,M,P,S,U,W=Con - Y,a=Ch - b,d=Cu
28-66	20	-	28-16	-	n <sup>10</sup> =Con - n <sup>10</sup> =Cu
28-67	20	-	28-16	-	U=Con - Bal=Cu
28-68	35	-	28-15	45	T=Al - U=Ch - Bal=Cu
28-69	18	4	28-11	-	G=Al - R=Ch - Bal=Cu
28-70	18	4	28-11	-	A=Al - B=Ch - Bal=Cu
28-77	20	-	28-16	-	n <sup>6</sup> =Fe - n <sup>6</sup> =Con - Bal=Cu
28-78	35	-	28-15	-	A,B=Ch - C,D=Al - Bal=Cu
28-80	20	-	28-16	-	n <sup>10</sup> =Fe - n <sup>10</sup> =Con
28-81	35	-	28-15	-	n <sup>10</sup> =Al - n <sup>10</sup> =Ch - Bal=Cu
28-811	35	-	28-15	-	n <sup>17</sup> =Ch - n <sup>17</sup> =Al - n <sup>1</sup> =Dummy
28-82	35	-	28-15	-	n <sup>12</sup> =Fe - n <sup>12</sup> =Con - Bal=Cu
32-50	34	6	32-8	-	M=Ch - N=Al - Bal=Cu
32-51	24	6	32-8	90	M=Ch - N=Al - Bal=Cu
32-55	24	6	32-8	125	M,N=Ch - O,P=Al - Bal=Cu
32A-401	40	-	32A-40	-	n <sup>13</sup> =Al - n <sup>13</sup> =Ch - n <sup>14</sup> =Cu
36-101	48	-	36-10	-	n <sup>24</sup> =Al - n <sup>24</sup> =Ch
36-102	48	-	36-10	-	n <sup>24</sup> =Ch - n <sup>24</sup> =Con
36-53	40	7	36-7	45	U,V,W=Al - X,Y,Z=Ch - Bal=Cu
36-56	48	-	36-10	-	A,C,E,G,L,J,H,P,R,T,V,X,Z,b,d,f,h,k,q,m,n,u,w,y=Con - Bal=Cu
36-57	46	1	36-8	-	W=Al - f=Ch - Bal=Cu
36-58	35	-	36-15	-	H=Al - G=Ch - Bal=Cu
36-61	35	-	36-15	-	A,C,E,J,K,L,M,N,P,R,T,V,f,X,Y,h,j,c=Con - Bal=Cu
36-62	48	-	36-10	-	A,C,E=Al - B,D,F=Ch - Bal=Cu
36-63	48	-	36-10	-	n <sup>16</sup> =Al - n <sup>16</sup> =Ch - n <sup>16</sup> =Cu
36-64	48	-	36-10	-	n <sup>24</sup> =Fe - n <sup>24</sup> =Con
40-58	85	-	40-56	-	A,C,E,H,K,M,P,S,U,W,Y,a,c,f,h,j,m,p,r,t,v,x,z,AB,AD,AF,AJ,AL,AN,AP,AS,AU,AW,A,Y,BA,BC,BE,BH,BK,BM,BP,BS,BU=Fe - Bal=Con
40-59	85	-	40-56	-	B=Ch - C=Con - Bal=Cu

Materials description key: Al = Alumel, Ch = Chromrel, Con = Constantan, Cu = Copper, Fe = Iron, PhBz = Phosphor Bronze, Dummy = Wire hole plug

Degrees  $\alpha \pm 2^\circ$



**Glenair Series ITS and ITS-RG  
MIL-DTL-5015 Type Reverse Bayonet Connectors  
Panel Cut-Out Mounting Data**



*Maximum Panel Thickness*

Panel thickness for type 00, 02 connectors used for rear mounting											
Shell size	10SL	14S	16S 16	18	20	22	24	28	32	36	40
<b>A</b>	3.7	3.7	3.7	3.7	3.7	3.7	5.25	5.25	6.1	6.1	6

Panel thickness for type 02PP, 03, 030 and 038 connectors (with threaded holes)											
Shell size	10SL	14S	16S 16	18	20	22	24	28	32	36	40
<b>A</b>	7.2	7.2	7.2	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5

Panel thickness for type 02PP, 03, 030 and 038 connectors. To be used for plugs with recovered coupling nuts											
Shell size	10SL	14S	16S 16	18	20	22	24	28	32	36	40
<b>A</b>	2,5	2,5	2,5	3,2	3,2	3,2	3,2	3,2	3,2	3,2	3,2

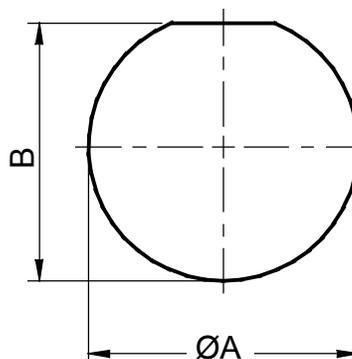
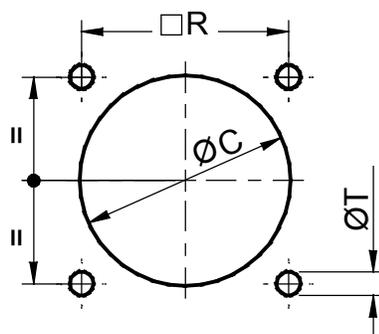
*Platings*

Requirements	In accordance with RoHS					Not In accordance with RoHS	
	F2 Electrolytic Nickel	F6 Black non conductive	F7 Black conductive	F11 Electroless Nickel	MT Nickel PTFE	F8 Zinc Cobalt with Olive drab passivation	G3 Cadmium with Olive drab passivation
<b>Thermal shock</b>	-40°C to 100°C	-55°C to 125°C	-55°C + 125°C	-55°C to 125°C	-65°C to 175°C	<b>-40°C to 100°C</b>	<b>-55°C to 125°C</b>
<b>Salt spray after thermal shock</b>	<b>24 h</b>	<b>500 h</b>	<b>500 h</b>	<b>48 h</b>	<b>1000 h</b>	<b>200 h</b>	<b>96 h</b>
<b>Electrical conductivity</b>	YES	NO	YES	YES	YES	YES	YES

Glenair Series ITS and ITS-RG  
MIL-DTL-5015 Type Reverse Bayonet Connectors  
Panel Cut-Out Mounting Data

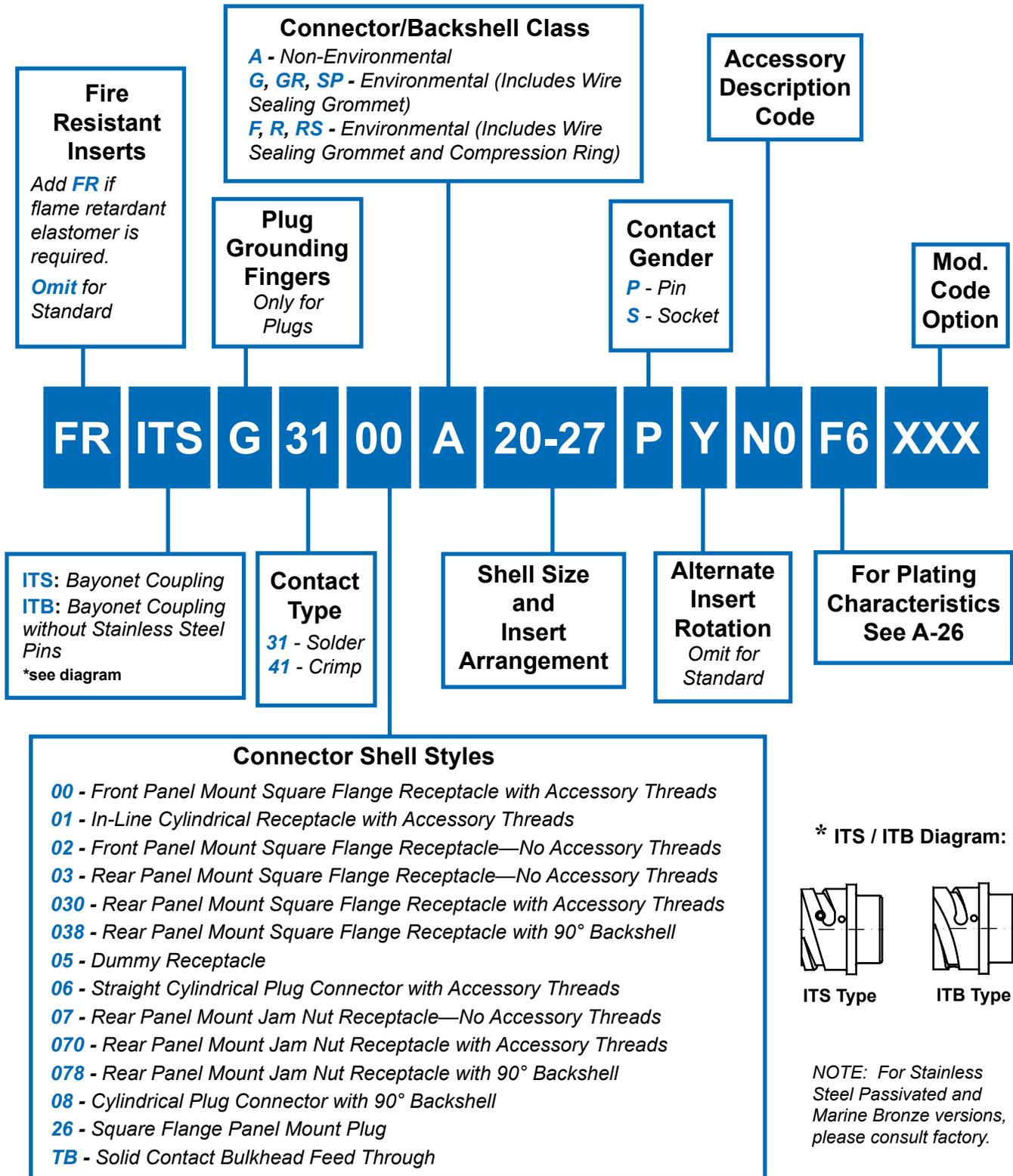


*Panel Cutout*



Panel cutout for type 00, 02, 26 connectors (front panel mounting)											
Shell size	10SL	14S	16S 16	18	20	22	24	28	32	36	40
ØC	17	20	23	26.5	30.0	33	36	42	48.5	55	61
R ±0.1	18.2	23	24.6	27	29.4	31.8	34.9	39.7	44.5	49.2	55.5
ØT	3.4	3.4	3.4	3.4	3.4	3.4	3.9	3.9	4.5	4.5	4.5
Panel cutout for type 02PP, 03, 030 connectors (rear panel mounting)											
Shell size	10SL	14S	16S 16	18	20	22	24	28	32	36	40
ØC	19.1	25.5	28.3	31.7	35.0	38.3	41.8	47.6	54.3	60.5	66.4
R ±0.1	18.2	23	24.6	27	29.4	31.8	34.9	39.7	44.5	49.2	55.5
ØT	4.5	4.5	4.5	4.5	4.5	4.5	4.5	5.5	5.5	5.5	5.5
Panel cutout for type 07, 070, 078 connectors (jam nut receptacles)											
Shell size	10SL	14S	16S 16	18	20	22	24	28	32	36	40
ØA +0.25	22.4	28.75	31.95	35.1	38.30	41.45	44.65	51	57.35	63.7	70.05
B -0.35	21	27.4	30.95	33.75	36.85	40.05	43.35	49.55	55.95	62.35	68.55

A



## Glenair Series ITS Reverse Bayonet Power and Signal Connectors (5015 Type)



### PRODUCT FEATURES

- **Fast, Easy Bayonet Coupling: 1/4 Turn**
- **Environmental and Non-Environmental Versions**
- **All Shell Styles: Plug, Square Flange, Jam-Nut, etc.**
- **High Shock and Vibration Resistance**
- **Contact Sizes from #20 to #4/0 in more than 200 Insert Arrangements**
- **Audible and Visual Coupling Indicators**
- **Keyed Polarization**
- **Solder, Crimp, PCB and Thermocouple Terminations**
- **Intermateable with Veam CIR, Amphenol GT and ITT Cannon CA\*\*B (5015 Type) and all VG 95234**

## The Ideal Connector Solution for Industrial, Rail/Mass Transit, Agricultural Machinery and Military Vehicles

### Harsh Application Environments

The Glenair Series ITS Reverse Bayonet Power and Signal Connector is ideally suited for all inter-car, under-car, trainline and other rugged application connections. Qualified to VG 95234, the reverse bayonet coupling provides easier and faster coupling, especially when the connector is situated in an awkward or hard to reach location. The connector's high resistance to vibration and shock provides reliable mating in even the most rigorous application environments. Environmental protection to IP67 levels provides additional reliability.

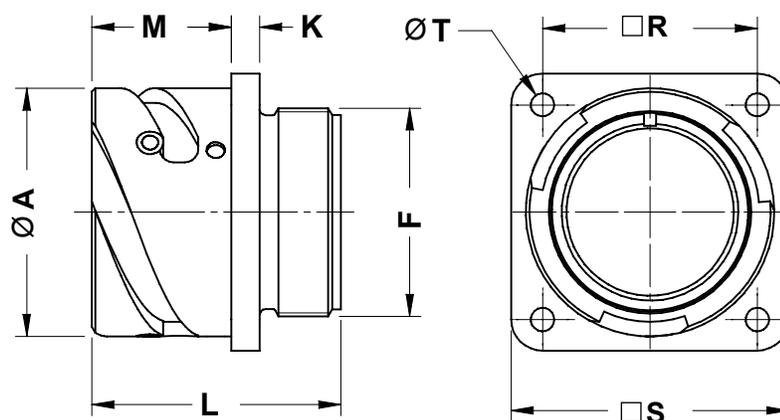
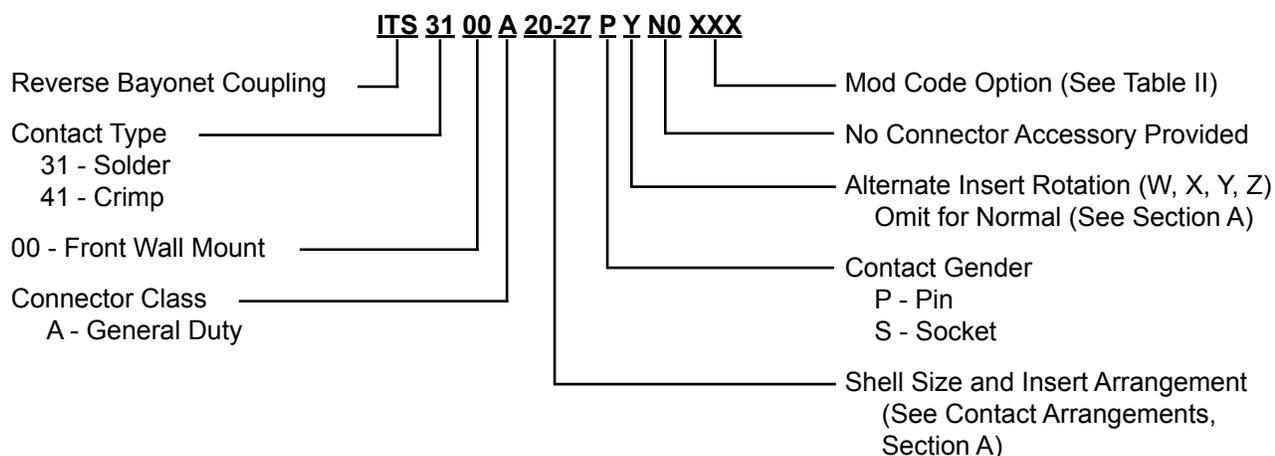
### Broad Range of Materials

The Glenair Series ITS Connector is fabricated in aluminum with optional stainless steel or marine-bronze shell materials. All standard plating and surface finishes are supported, including conductive, cadmium free designs. Contacts are available in both silver and gold and sealing members are made from resilient neoprene rubber. Standard insert material is synthetic rubber.

### Intermateability

The Glenair Series ITS Connector is a reverse bayonet coupling version of the familiar threaded coupling MIL-DTL-5015. Insert arrangements mimic the 5015 family of configurations, including supported contact sizes, types and arrangements. The Series ITS Connector is interchangeable and intermateable with the wide range of industry-standard reverse bayonet connectors designed around MIL-DTL-5015 and/or qualified to VG 95234.

## ITS 3100 A (N0) and ITS 4100 A (N0) Front Panel Mount Square Flange Receptacle with Backend Connector Accessory Mounting Threads



### Application Notes:

1. Front panel mount square flange receptacle with rear threads for attachment of various backend connector accessories. Through mounting holes.
2. Connector Class "A" (general duty).
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.
7. Add "FR" prefix to front of part number to specify fire resistant insert elastomers.

**ITS 3100 A (N0) and ITS 4100 A (N0)  
Front Panel Mount Square Flange Receptacle  
with Backend Connector Accessory Mounting Threads**



**TABLE I: DIMENSIONS**

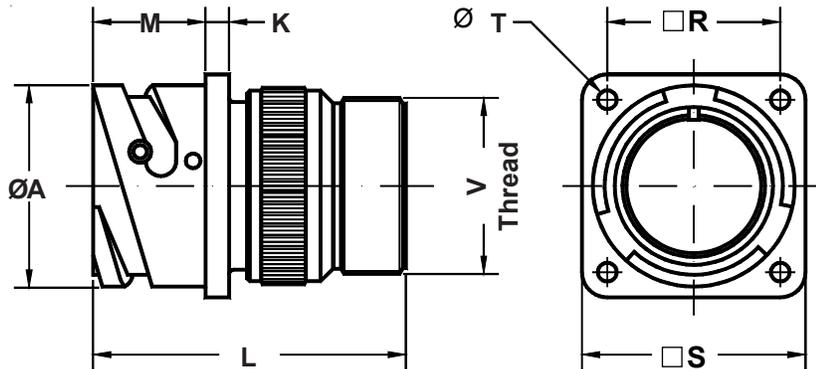
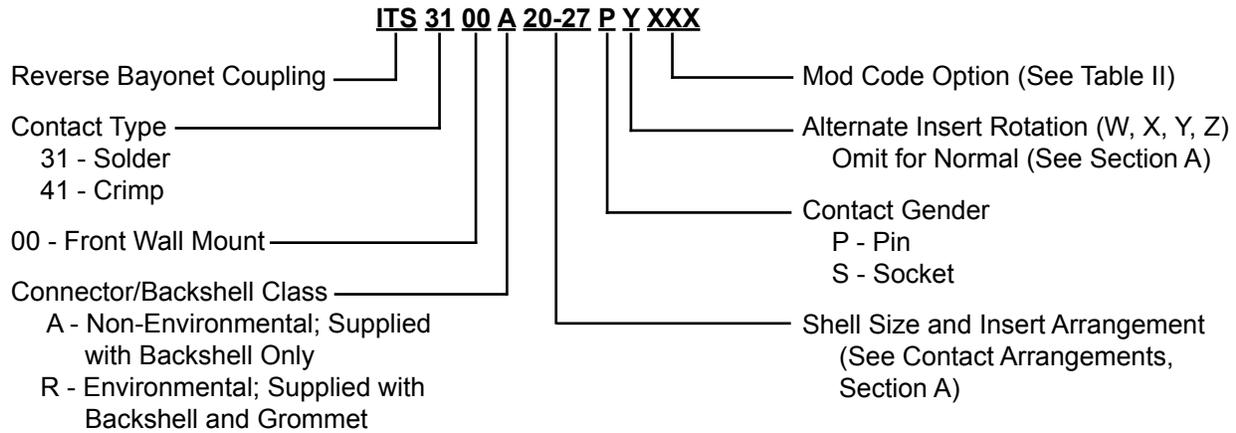
Shell size	ØA +0 -0.1	K ±0.2	L Max.	M +0.2 -0	R ±0.1	S +0.2	ØT +0.1 -0	F thread
<b>10 SL</b>	18.2	2.8	24.7	14.3	18.25	25.4	3.2	0.6250 - 24UNEF
<b>14 S</b>	24.5	3.3	24.9	14.5	23.00	30.4	3.2	0.7500 - 20UNEF
<b>16 S</b>	27.2	3.3	24.9	14.5	24.60	32.5	3.2	0.8750 - 20UNEF
<b>16</b>	27.2	3.3	33.9	19.1	24.60	32.5	3.2	0.8750 - 20UNEF
<b>18</b>	30.7	4.0	34.3	19.1	27.00	35.0	3.2	1.0000 - 20UNEF
<b>20</b>	34.0	4.0	34.2	19.1	29.40	38.0	3.2	1.1250 - 18UNEF
<b>22</b>	37.3	4.0	34.3	19.6	31.75	41.0	3.2	1.2500 - 18UNEF
<b>24</b>	40.9	4.0	35.8	20.6	34.90	44.5	3.7	1.3750 - 18UNEF
<b>28</b>	46.7	4.0	35.8	20.7	39.70	50.9	3.7	1.6250 - 18UNEF
<b>32</b>	53.4	4.0	37.4	22.3	44.45	57.0	4.3	1.8750 - 16UN
<b>36</b>	59.6	4.0	37.4	22.3	49.20	63.5	4.3	2.0625 - 16UN
<b>40</b>	65.5	4.0	37.4	22.3	55.55	69.9	4.3	2.3125 - 16UN

**B**

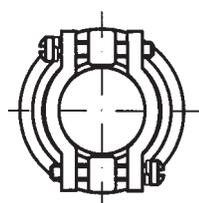
**TABLE II: MODIFICATION CODES**

<b>CONTACT OPTIONS</b>	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
<b>Omit for standard version (Silver plated)</b>	
<b>FINISH OPTIONS</b>	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
<b>Omit for standard version (Cadmium Olive Drab Finish)</b>	

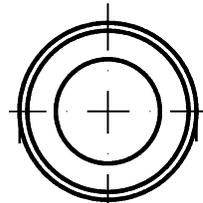
**ITS 3100 (A) and ITS 3100 (R)  
ITS 4100 (A) and ITS 4100 (R)**  
Front Panel Mount Square Flange Receptacle Assembly  
with Backshell for the Attachment of Additional Accessories



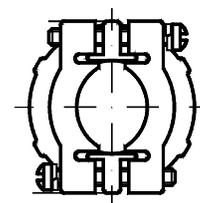
Order Cable Clamps and Sleeves Separately or Use Mod Codes (Table II) to Add Clamp to This Assembly.



**IT 3057 C**  
Cable Clamp



**IT 3420**  
Neoprene Sleeve



**IT 3057 A**  
Cable Clamp

**Application Notes:**

1. Front panel mount square flange receptacle with backshell for the attachment of strain relief cable clamps or other accessories. Through mounting holes.
2. Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet; Class "R" (environmental)—Supplied with backshell and grommet.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.
7. Add "FR" prefix to front of part number to specify fire resistant insert elastomers.

**ITS 3100 (A) and ITS 3100 (R)  
ITS 4100 (A) and ITS 4100 (R)  
Front Panel Mount Square Flange Receptacle Assembly  
with Backshell for the Attachment of Additional Accessories**



**TABLE I: DIMENSIONS**

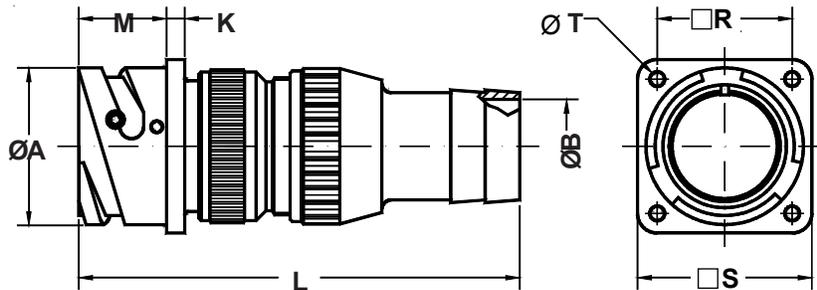
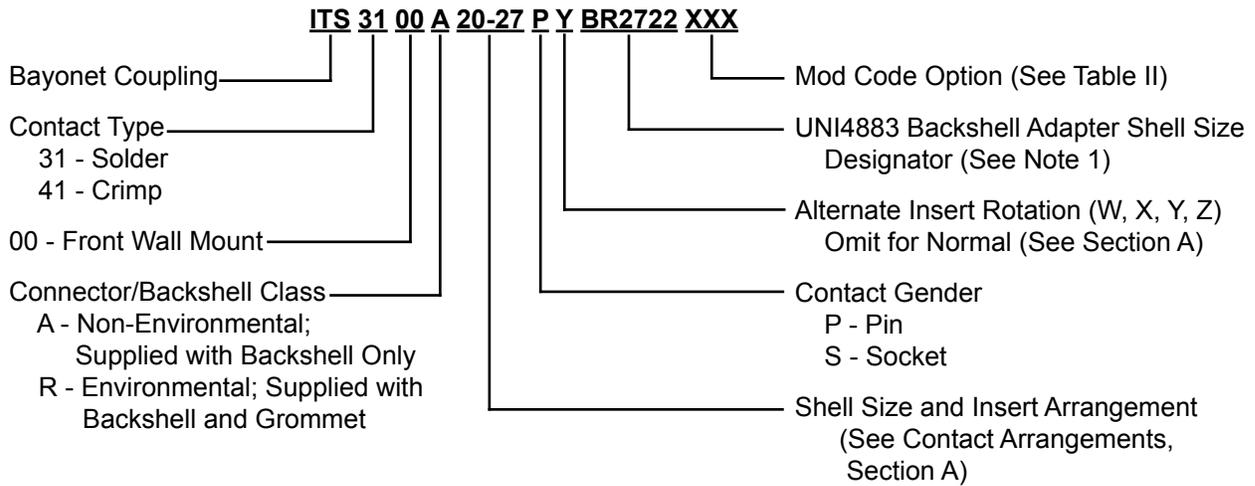
Shell Size	ØA +0 -0.1	K ±0.2	L Max.	M +0.2 -0	R ±0.1	S +0.2	ØT +0.1 -0	V Thread
10 SL	18.2	2.8	44.0	14.3	18.25	25.4	3.2	0.6250 - 24UNEF
14 S	24.5	3.3	46.4	14.5	23.00	30.4	3.2	0.7500 - 20UNEF
16 S	27.2	3.3	46.4	14.5	24.60	32.5	3.2	0.8750 - 20UNEF
16	27.2	3.3	57.8	19.1	24.60	32.5	3.2	0.8750 - 20UNEF
18	30.7	4.0	57.8	19.1	27.00	35.0	3.2	1.0000 - 20UNEF
20	34.0	4.0	58.1	19.1	29.40	38.0	3.2	1.1875 - 18UNEF
22	37.3	4.0	58.1	19.6	31.75	41.0	3.2	1.1875 - 18UNEF
24	40.9	4.0	59.7	20.6	34.90	44.5	3.7	1.4375 - 18UNEF
28	46.7	4.0	66.2	20.7	39.70	50.9	3.7	1.4375 - 18UNEF
32	53.4	4.0	71.3	22.3	44.45	57.0	4.3	1.7500 - 18UNS
36	59.6	4.0	76.8	22.3	49.20	63.5	4.3	2.0000 - 18UNS
40	65.5	4.0	76.8	22.3	55.55	69.9	4.3	2.2500 - 16UN

**B**

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS		ACCESSORY OPTIONS	
Sym	Description		
B0	Connector Less Contacts	N1	Connector with IT 3057 A cable clamp
B1	Connector with Gold Plated Contacts	N2	Connector with long backshell
Omit for standard version (Silver plated)		N5	Connector with IT 3057 C cable clamp
FINISH OPTIONS		N12	Connector with IT 3057 A cable clamp and IT 3420 neoprene sleeve
Omit for standard version		Omit for standard version	
Sym	Description and RoHS compliant (*)		
F2	Bright Nickel Plating (*)		
F6	Black Electrodeposited Paint (*)		
F7	Black Zn-Co Plating (*)		
F8	Olive Drab Zn-Co Plating		
F11	Electroless Nickel (*)		
Omit for standard version (Cadmium Olive Drab Finish)			

**ITS 3100 A (BR) and ITS 4100 A (BR)**  
**ITS 3100 R (BR) and ITS 4100 R (BR)**  
**Front Panel Mount Square Flange Receptacle Assembly**  
**with Backshell for Termination of UNI4883 Rubber Conduits**



**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	

FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

**Application Notes:**

1. Front panel mount square flange receptacle with rear-end backshell for termination of UNI4883 type rubber conduit. Through mounting holes.
2. Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet;  
Class "R" (environmental)—Supplied with backshell and grommet.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3100 A (BR) and ITS 4100 A (BR)  
ITS 3100 R (BR) and ITS 4100 R (BR)  
Front Panel Mount Square Flange Receptacle Assembly  
with Backshell for Termination of UNI4883 Rubber Conduits**



**TABLE I: DIMENSIONS**

Shell Size	ØA +0 -0.1	ØB ±0.1	K ±0.2	L Max.	M +0.2 -0	R ±0.1	S +0.2	ØT +0.1 -0
10 SL	18.2	See Table III Below	2.8	90.0	14.3	18.25	25.4	3.2
14 S	24.5		3.3	91.5	14.5	23.00	30.4	3.2
16 S	27.2		3.3	91.5	14.5	24.60	32.5	3.2
16	27.2		3.3	103.0	19.1	24.60	32.5	3.2
18	30.7		4.0	103.0	19.1	27.00	35.0	3.2
20	34.0		4.0	103.0	19.1	29.40	38.0	3.2
22	37.3		4.0	103.0	19.6	31.75	41.0	3.2
24	40.9		4.0	104.5	20.6	34.90	44.5	3.7
28	46.7		4.0	111.0	20.7	39.70	50.9	3.7
32	53.4		4.0	116.5	22.3	44.45	57.0	4.3
36	59.6		4.0	122.0	22.3	49.20	63.5	4.3
40	65.5		4.0	122.0	22.3	55.55	69.9	4.3

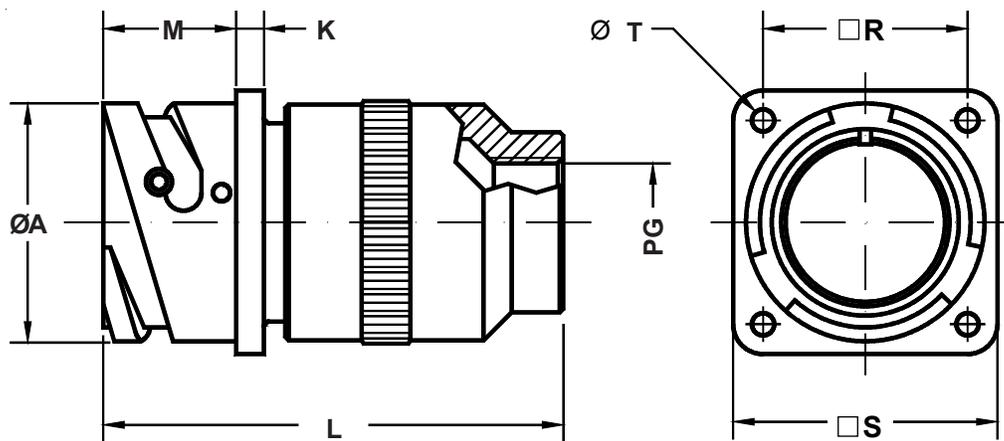
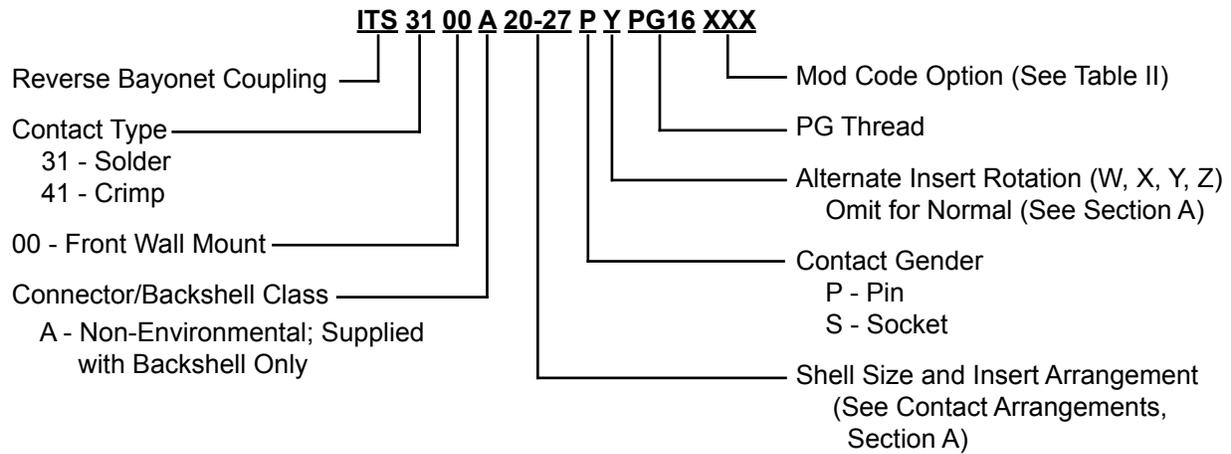
**TABLE III: BACKSHELL DIMENSIONS**

Shell Size	Rubber tube in accordance with UNI 4883 to be used by size:		ØB ±0.1	ØQ ±0.2	
	Ø Min	Ø Max			
10SL	12.0	17.0	10.5		
18	22.0	27.0	20.5		
20 - 22	12.0	17.0	10.5		
20 - 22	22.0	27.0	20.5		
20 - 22	28.0	33.0	31.5		
24 - 28	20.0	25.0	16.5		
24 - 28	22.0	27.0	20.5		
24 - 28	26.0	31.0	22.5		
24 - 28	28.0	33.0	26.5		
24 - 28	30.0	35.0	26.5		
24 - 28	33.0	38.0	31.5		
24 - 28	45.0	50.0	36.2	24.5	53.0
32	26.0	31.0	24.5	26.5	53.0
32	28.0	33.0	26.5	31.5	53.0
32	33.0	38.0	31.5	31.5	53.0
32	35.0	40.0	31.5	40.0	53.0
32	45.0	50.0	40.0	26.5	57.4
36	30.0	35.0	26.5	31.5	57.4
36	33.0	38.0	31.5	31.5	57.4
36	35.0	40.0	31.5	43.5	57.4
36	45.0	50.0	43.5		
40	36.0	41.0	31.5		
40	40.0	45.0	38.5		
40	45.0	50.0	43.5		
40	50.0	55.0	48.5		



## ITS 3100 A (PG) and ITS 4100 A (PG)

### Front Panel Mount Square Flange Receptacle Assembly with Backshell for Attachment of PG Cable Glands



#### Notes:

1. Front panel mount square flange receptacle assembly with backshell for attachment of PG cable glands. Through mounting holes.
2. Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet;
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. Other types of front and rear connector accessories are available.  
See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3100 A (PG) and ITS 4100 A (PG)**  
**Front Panel Mount Square Flange Receptacle Assembly**  
**with Backshell for Attachment of PG Cable Glands**



**TABLE I: DIMENSIONS**

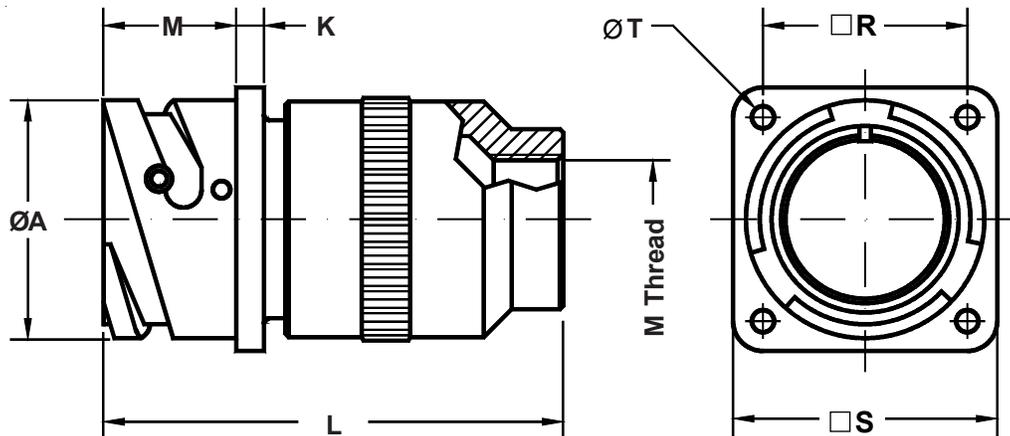
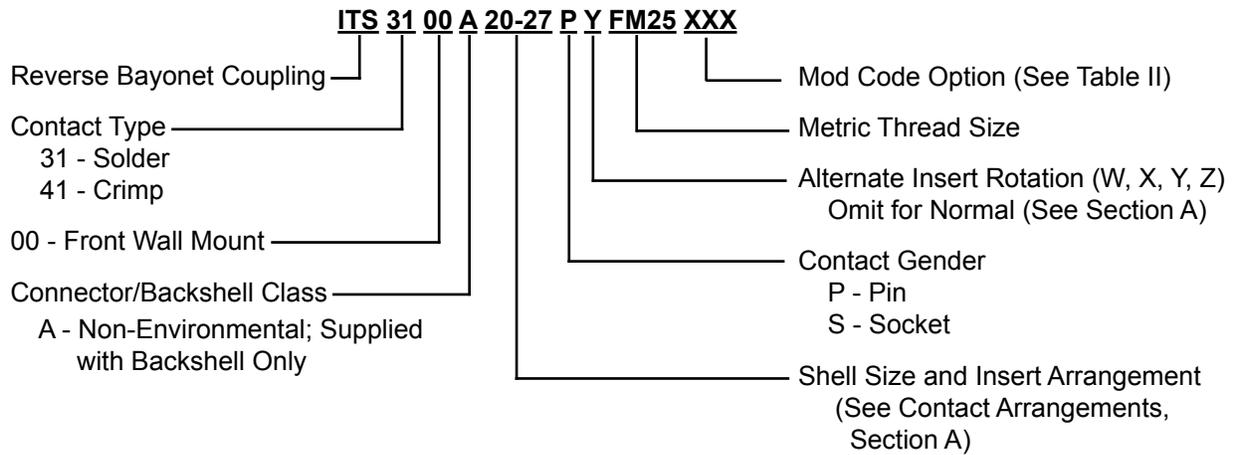
Shell Size	ØA +0 -0.1	K ±0.2	L Max.	M +0.2 -0	PG Thread	R ±0.1	S +0.2	ØT +0.1 -0
10 SL	18.2	2.8	50.0	14.3	7 / 9 / 11	18.25	25.4	3.2
14 S	24.5	3.3	52.5	14.5	11 / 13.5	23.00	30.4	3.2
16 S	27.2	3.3	52.5	14.5	9 / 11 / 16	24.60	32.5	3.2
16	27.2	3.3	61.0	19.1	9 / 11 / 16	24.60	32.5	3.2
18	30.7	4.0	66.5	19.1	9 / 11 / 16 / 21	27.00	35.0	3.2
20	34.0	4.0	69.5	19.1	11 / 16 / 21	29.40	38.0	3.2
22	37.3	4.0	69.5	19.6	13.5 / 16 / 21	31.75	41.0	3.2
24	40.9	4.0	71.5	20.6	13.5 / 16 / 21 / 29	34.90	44.5	3.7
28	46.7	4.0	76.5	20.7	16 / 21 / 29	39.70	50.9	3.7
32	53.4	4.0	82.5	22.3	21 / 29	44.45	57.0	4.3
36	59.6	4.0	87.5	22.3	21 / 29 / 36	49.20	63.5	4.3
40	65.5	4.0	92.5	22.3	29 / 36	55.55	69.9	4.3

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 3100 A (M) and ITS 4100 A (M)

### Front Panel Mount Square Flange Receptacle Assembly with Backshell for Use with Metric Cable Glands



#### Notes:

1. Front panel mount square flange receptacle assembly with backshell for use with metric cable glands. Through mounting holes.
2. Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet;
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of other connector accessories are available.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts.
7. Metric cable gland not included.

**ITS 3100 A (M) and ITS 4100 A (M)**  
**Front Panel Mount Square Flange Receptacle Assembly**  
**with Backshell for Use with Metric Cable Glands**



**TABLE I: DIMENSIONS**

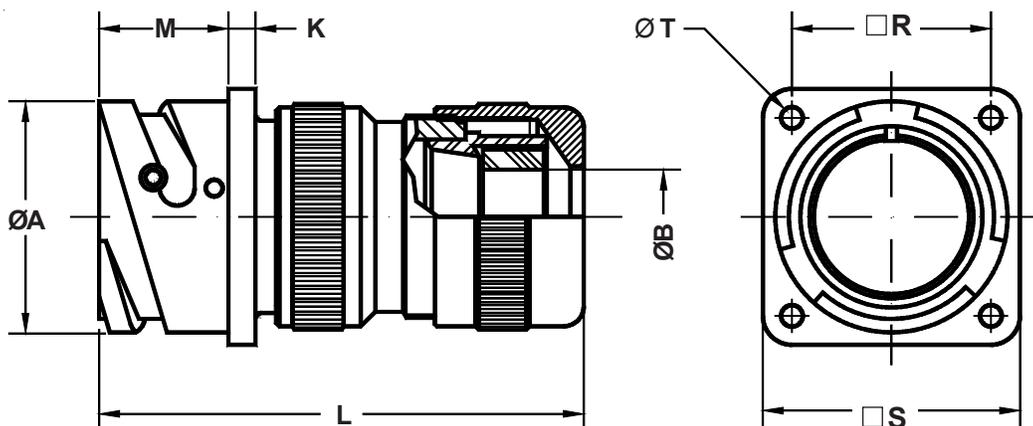
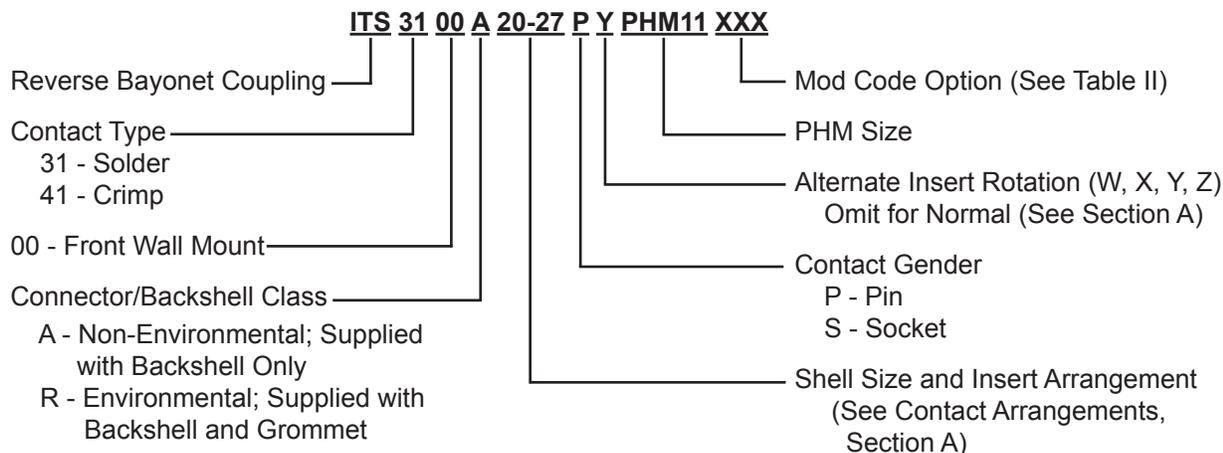
Shell Size	ØA +0 -0.1	K ±0.2	L Max.	M +0.2 -0	M Thread Other M Threads available on request	R ±0.1	S +0.2	ØT +0.1 -0
<b>10 SL</b>	18.2	2.8	50.0	14.3	M12x1,5	18.25	25.4	3.2
<b>14 S</b>	24.5	3.3	52.5	14.5	M16x1,5	23.00	30.4	3.2
<b>16 S</b>	27.2	3.3	52.5	14.5	M16x1,5	24.60	32.5	3.2
<b>16</b>	27.2	3.3	61.0	19.1	M16x1,5	24.60	32.5	3.2
<b>18</b>	30.7	4.0	66.5	19.1	M20x1,5	27.00	35.0	3.2
<b>20</b>	34.0	4.0	69.5	19.1	M25x1,5	29.40	38.0	3.2
<b>22</b>	37.3	4.0	69.5	19.6	M25x1,5	31.75	41.0	3.2
<b>24</b>	40.9	4.0	71.5	20.6	M32x1,5	34.90	44.5	3.7
<b>28</b>	46.7	4.0	76.5	20.7	M32x1,5	39.70	50.9	3.7
<b>32</b>	53.4	4.0	82.5	22.3	M36x1,5	44.45	57.0	4.3
<b>36</b>	59.6	4.0	87.5	22.3	M40x1,5	49.20	63.5	4.3
<b>40</b>	65.5	4.0	92.5	22.3	M48x1,5	55.55	69.9	4.3

**B**

**TABLE II: MODIFICATION CODES**

<b>CONTACT OPTIONS</b>	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
<b>FINISH OPTIONS</b>	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 3100 A (PHM) and ITS 4100 A (PHM) Front Panel Mount Square Flange Receptacle Assembly with Environmental PHM Backshell



### Application Notes:

1. Front panel mount square flange receptacle with environmental PHM backshell. Through mounting holes.
2. Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet;  
Class "R" (environmental)—Supplied with backshell and grommet.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of other connector accessories are available.  
See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3100 A (PHM) and ITS 4100 A (PHM)  
Front Panel Mount Square Flange Receptacle Assembly  
with Environmental PHM Backshell**



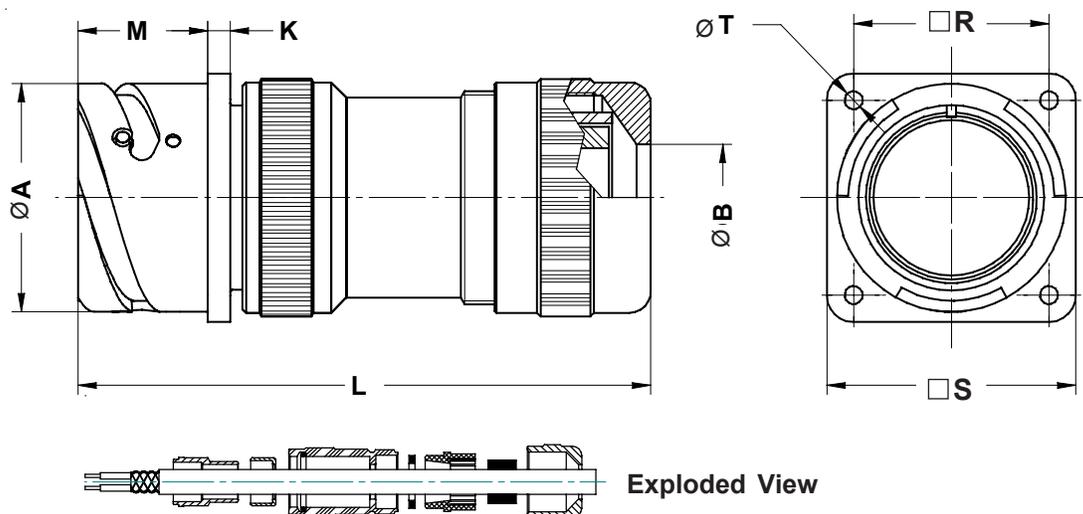
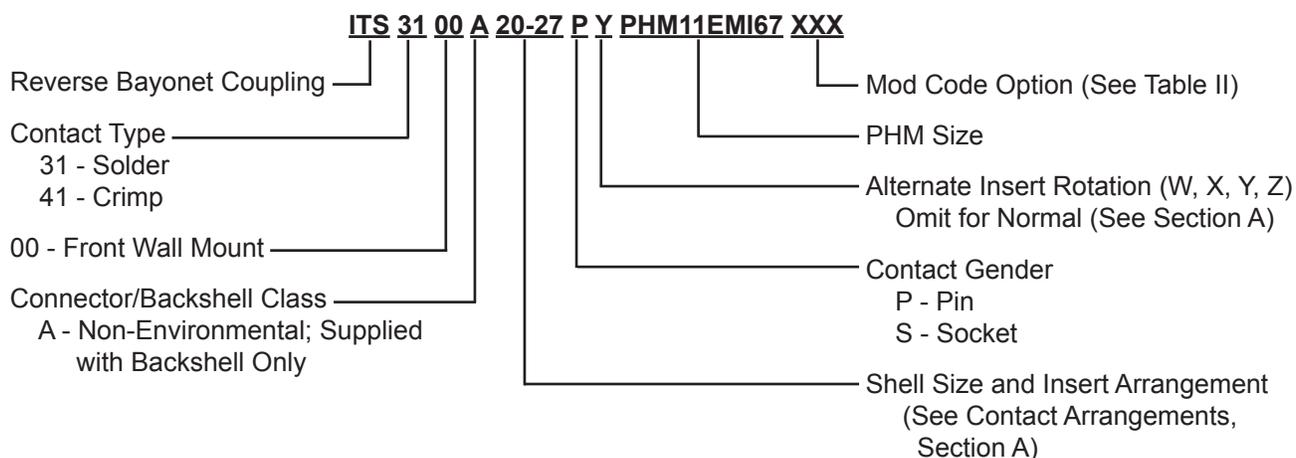
**TABLE I: DIMENSIONS**

Shell Size	PHM Size	ØA +0 -0.1	ØB min. – Max.	K ±0.2	L Max.	M +0.2 -0	R ±0.1	S +0.2	ØT +0.1 -0
<b>10 SL</b>	9	18.2	2-9	2.8	60	14.3	18.25	25.4	3.2
<b>14 S</b>	11	24.5	2-11	3.3	60	14.5	23.00	30.4	3.2
<b>16 S</b>	11	27.2	2-11	3.3	60	14.5	24.60	32.5	3.2
<b>16</b>	11	27.2	2-11	3.3	70	19.1	24.60	32.5	3.2
<b>18</b>	11 / 18	30.7	2-11 / 2-16.5	4.0	70	19.1	27.00	35.0	3.2
<b>20</b>	11 / 18	34.0	2-11 / 2-16.5	4.0	70	19.1	29.40	38.0	3.2
<b>22</b>	18	37.3	2-16.5	4.0	70	19.6	31.75	41.0	3.2
<b>24</b>	18 / 22 / 24	40.9	2-16.5 / 15-20 / 19-24	4.0	80	20.6	34.90	44.5	3.7
<b>28</b>	18 / 22 / 24	46.7	2-16.5 / 15-20 / 19-24	4.0	80	20.7	39.70	50.9	3.7
<b>32</b>	22 / 24	53.4	15-20 / 19-24	4.0	80	22.3	44.45	57.0	4.3
<b>36</b>	35	59.6	23-35	4.0	95	22.3	49.20	63.5	4.3
<b>40</b>	35	65.5	23-35	4.0	95	22.3	55.55	69.9	4.3



**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	


**Application Notes:**

1. Front panel mount square flange receptacle assembly with an EMI/RFI PHM backshell.  
Through mounting holes.
2. Connector/Backshell Class "A" (non-environmental)—Wire sealing grommet not required.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of other connector accessories are available.  
See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3100 A (PHM-EMI67) and ITS 4100 A (PHM-EMI67)  
Front Panel Mount Square Flange Receptacle Assembly  
with EMI/RFI PHM Backshell**



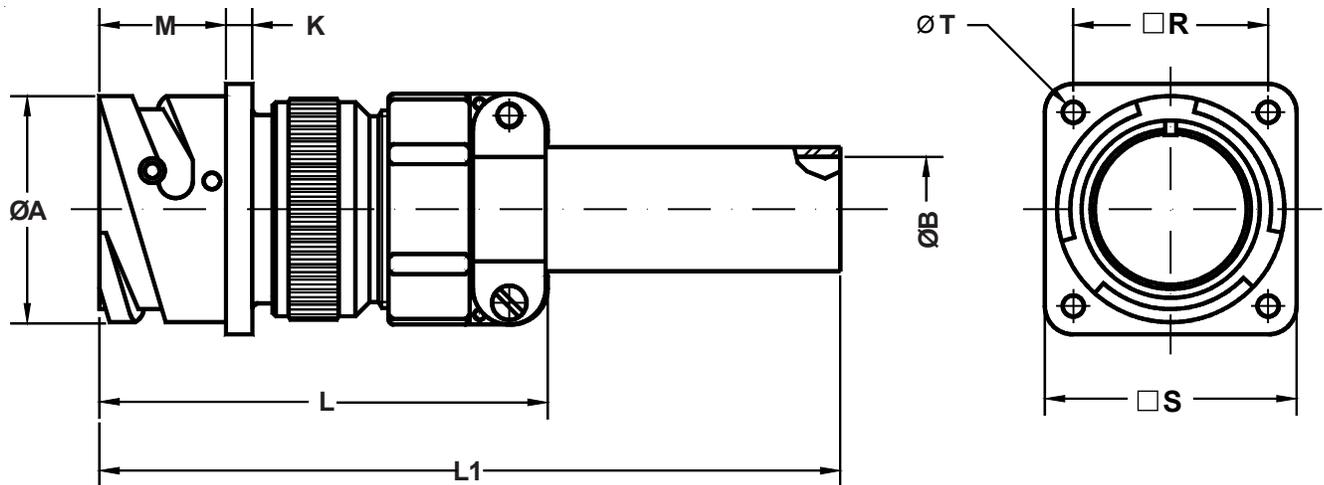
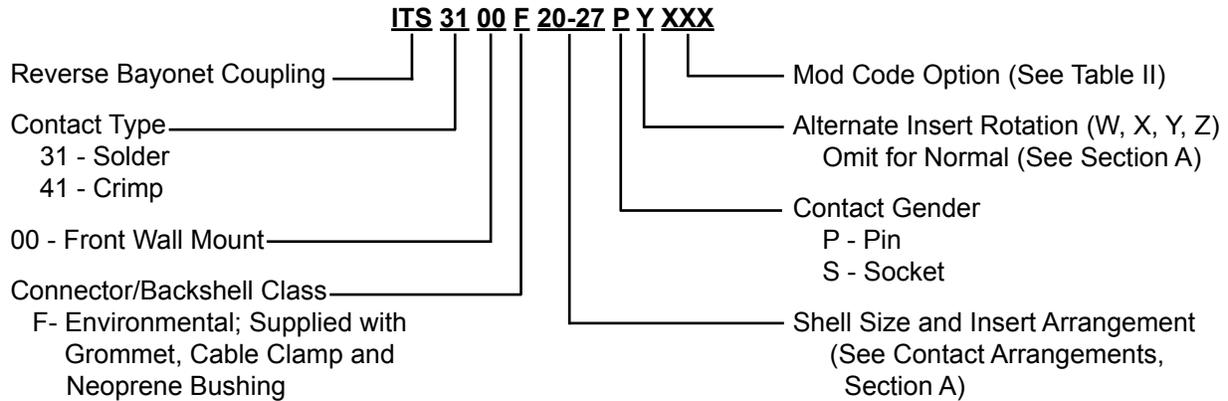
**TABLE I: DIMENSIONS**

Shell Size	PHM Size	ØA +0 -0.1	ØB		K ±0.2	L Max.	M +0.2 -0	R ±0.1	S +0.2	ØT +0.1 -0
			min.	Max.						
10 SL	9	18.2	2-9		2.8	70	14.3	18.25	25.4	3.2
14 S	11	24.5	2-11		3.3	70	14.5	23.00	30.4	3.2
16 S	11	27.2	2-11		3.3	70	14.5	24.60	32.5	3.2
16	11	27.2	2-11		3.3	80	19.1	24.60	32.5	3.2
18	11 / 18	30.7	2-11 / 2-16.5		4.0	80	19.1	27.00	35.0	3.2
20	11 / 18	34.0	2-11 / 2-16.5		4.0	80	19.1	29.40	38.0	3.2
22	18	37.3	2-16.5		4.0	80	19.6	31.75	41.0	3.2
24	18 / 22 / 24	40.9	2-16.5 / 15-20 / 19-24		4.0	90	20.6	34.90	44.5	3.7
28	18 / 22 / 24	46.7	2-16.5 / 15-20 / 19-24		4.0	90	20.7	39.70	50.9	3.7
32	22 / 24	53.4	15-20 / 19-24		4.0	90	22.3	44.45	57.0	4.3
36	Contact the factory for information									
40										

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 3100 (F) and ITS 4100 (F) Front Panel Mount Square Flange Receptacle Assembly with Class A IT3057 Cable Clamp and Neoprene Bushing



### Application Notes:

1. Front panel mount square flange receptacle assembly with an insulating grommet, environmental backshell, class A IT3057 cable clamp for use with individual wires and neoprene bushing. Through mounting holes.
2. Environmental class "F". Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3100 (F) and ITS 4100 (F)**  
**Front Panel Mount Square Flange Receptacle Assembly**  
**with Class A IT3057 Cable Clamp and Neoprene Bushing**



**TABLE I: DIMENSIONS**

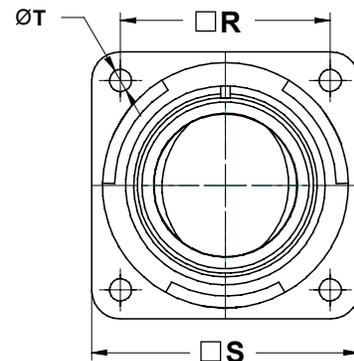
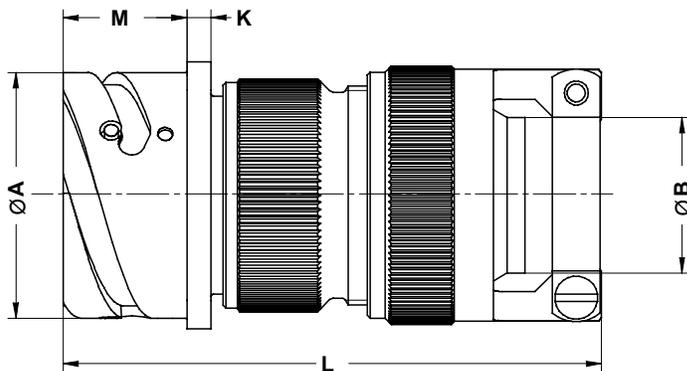
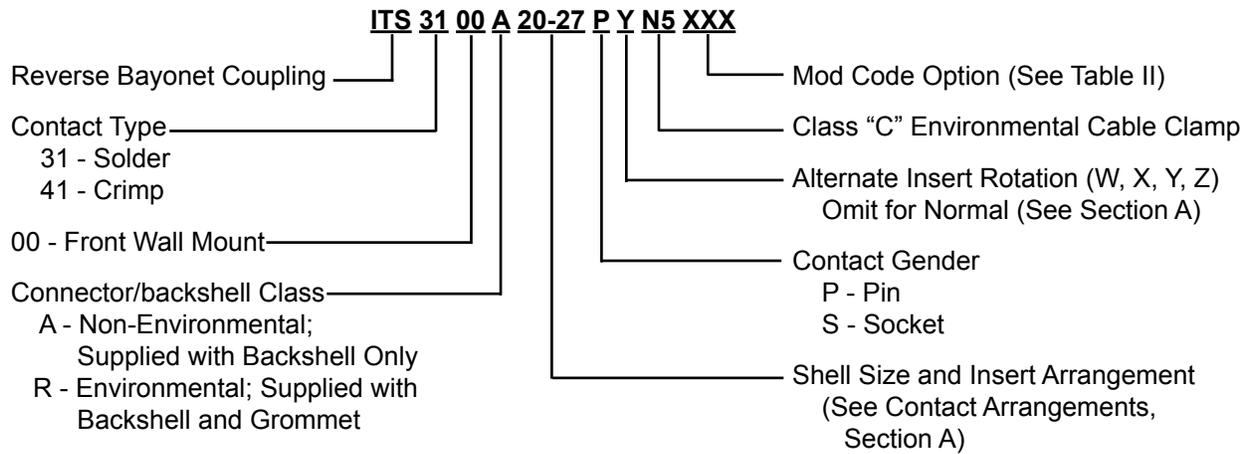
Shell Size	ØA +0 -0.1	ØB ±0.1	K ±0.2	L Max.	L1 Max.	M +0.2 -0	R ±0.1	S +0.2	ØT +0.1 -0
10 SL	18.2	5.58	2.8	55.0	125	14.3	18.25	25.4	3.2
14 S	24.5	7.92	3.3	58.4	125	14.5	23.00	30.4	3.2
16 S	27.2	11.09	3.3	60.4	125	14.5	24.60	32.5	3.2
16	27.2	11.09	3.3	71.8	135	19.1	24.60	32.5	3.2
18	30.7	14.27	4.0	77.8	140	19.1	27.00	35.0	3.2
20	34.0	15.87	4.0	74.0	130	19.1	29.40	38.0	3.2
22	37.3	15.87	4.0	74.0	130	19.6	31.75	41.0	3.2
24	40.9	19.05	4.0	76.7	130	20.6	34.90	44.5	3.7
28	46.7	19.05	4.0	83.2	135	20.7	39.70	50.9	3.7
32	53.4	23.79	4.0	90.3	140	22.3	44.45	57.0	4.3
36	59.6	31.75	4.0	96.8	145	22.3	49.20	63.5	4.3
40	65.5	34.92	4.0	115.8	160	22.3	55.55	69.9	4.3

**B**

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

**ITS 3100 A (N5) and ITS 3100 R (N5)  
ITS 4100 A (N5) and ITS 4100 R (N5)  
Front Panel Mount Square Flange Receptacle Assembly  
with Class C (Environmental) IT3057 Cable Clamp**



#### Application Notes:

1. Front panel mount square flange receptacle assembly with a class C (environmental) IT3057 cable clamp for use with jacketed cable. Through mounting holes.
2. Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet; Class "R" (environmental)—Supplied with backshell and grommet.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3100 A (N5) and ITS 3100 R (N5)  
ITS 4100 A (N5) and ITS 4100 R (N5)  
Front Panel Mount Square Flange Receptacle Assembly  
with Class C (Environmental) IT3057 Cable Clamp**



**TABLE I: DIMENSIONS**

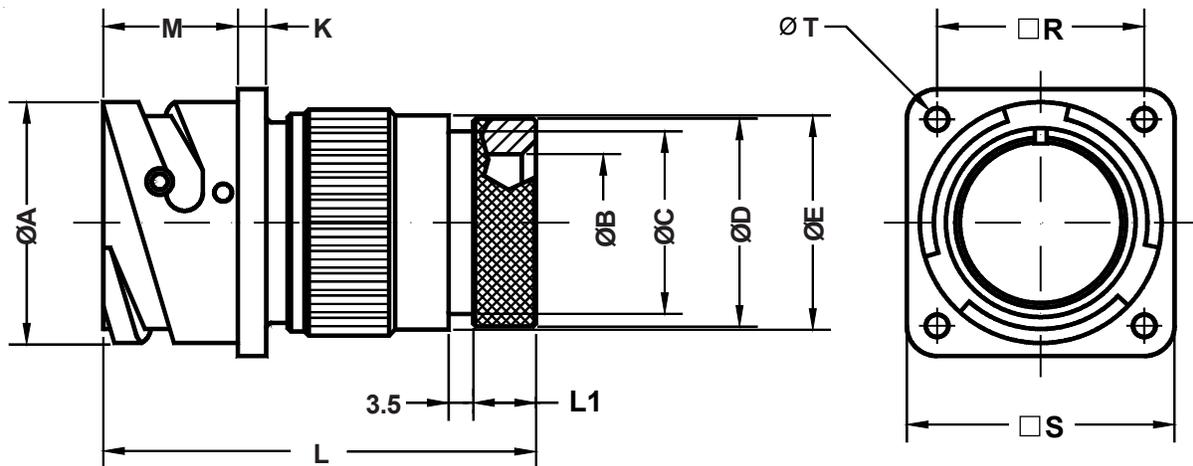
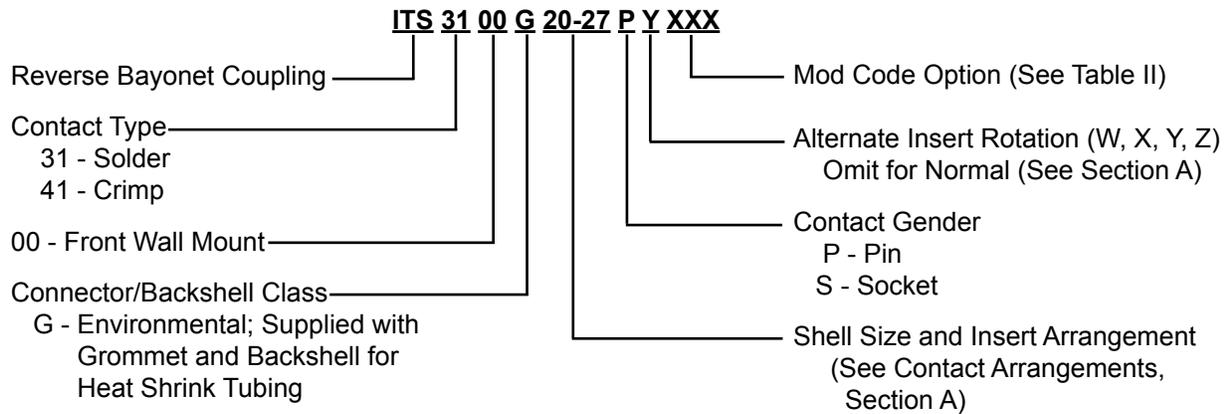
Shell Size	ØA +0 -0.1	ØB		K ±0.2	L Max.	M +0.2 -0	R ±0.1	S +0.2	ØT +0.1 -0
		Open	Closed						
10 SL	18.2	7.93	2.38	2.8	73	14.3	18.25	25.4	3.2
14 S	24.5	11.12	5.84	3.3	77	14.5	23.00	30.4	3.2
16 S	27.2	13.48	8.00	3.3	77	14.5	24.60	32.5	3.2
16	27.2	13.48	8.00	3.3	88	19.1	24.60	32.5	3.2
18	30.7	15.87	9.60	4.0	91	19.1	27.00	35.0	3.2
20	34.0	19.00	11.30	4.0	91	19.1	29.40	38.0	3.2
22	37.3	19.00	11.30	4.0	92	19.6	31.75	41.0	3.2
24	40.9	23.80	15.50	4.0	97	20.6	34.90	44.5	3.7
28	46.7	23.80	15.50	4.0	103	20.7	39.70	50.9	3.7
32	53.4	31.75	23.40	4.0	113	22.3	44.45	57.0	4.3
36	59.6	35.00	23.40	4.0	120	22.3	49.20	63.5	4.3
40	65.5	41.25	29.90	4.0	135	22.3	55.55	69.9	4.3



**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 3100 (G) and ITS 4100 (G) Front Panel Mount Square Flange Receptacle Assembly With Environmental Backshell for Heat Shrink Tubing



### Application Notes:

1. Front mount square flange receptacle assembly with backshell for heat shrink tubing. Through mounting holes.
2. Connector/Backshell Class "G" (environmental)—Wire Sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available.  
See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3100 (G) and ITS 4100 (G)**  
**Front Panel Mount Square Flange Receptacle Assembly**  
**With Environmental Backshell for Heat Shrink Tubing**



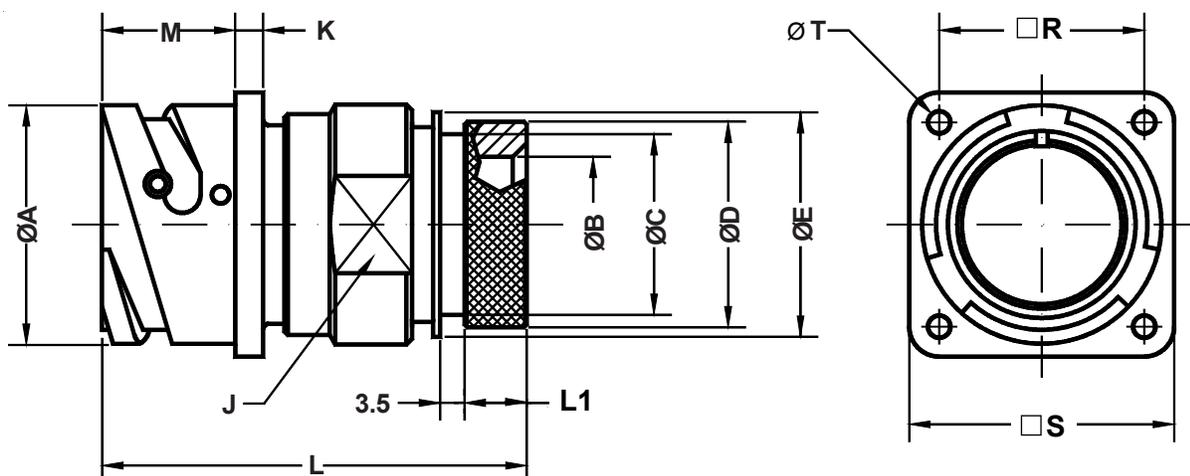
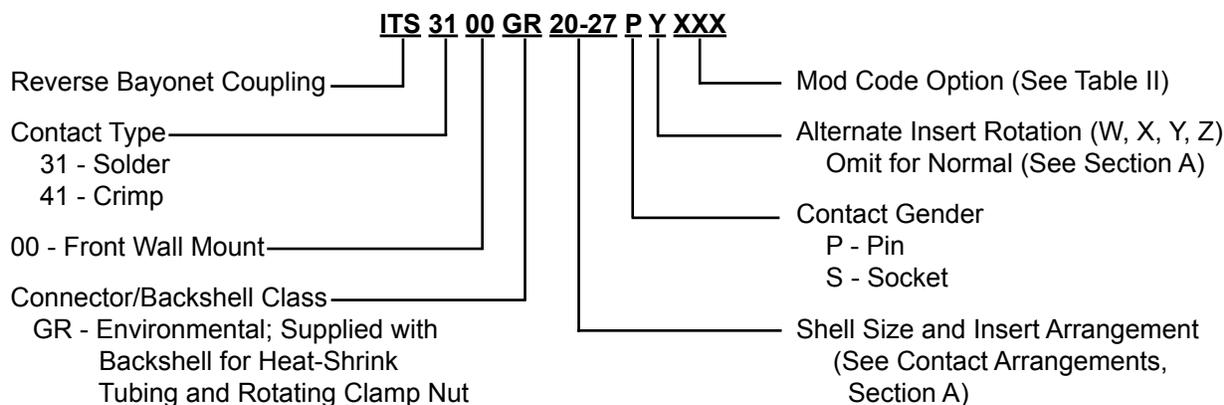
**TABLE I: DIMENSIONS**

Shell Size	ØA +0 -0.1	ØB min.	ØC ±0.1	ØD ±0.2	ØE ±0.2	K ±0.2	L Max.	L1 Max.	M +0.2 -0	R ±0.1	S +0.2	ØT +0.1 -0
10 SL	18.2	8.5	13.0	15.5	17.0	2.8	52.7	8.2	14.3	18.25	25.4	3.2
14 S	24.5	12.0	16.5	19.1	20.1	3.3	53.4	8.2	14.5	23.00	30.4	3.2
16 S	27.2	14.5	21.5	23.9	23.5	3.3	53.4	8.2	14.5	24.60	32.5	3.2
16	27.2	14.5	21.5	23.9	23.5	3.3	65.8	8.0	19.1	24.60	32.5	3.2
18	30.7	17.5	21.7	23.9	26.5	4.0	65.8	8.0	19.1	27.00	35.0	3.2
20	34.0	19.5	26.0	29.6	30.5	4.0	66.1	8.9	19.1	29.40	38.0	3.2
22	37.3	22.0	26.0	29.6	33.6	4.0	66.1	8.9	19.6	31.75	41.0	3.2
24	40.9	25.0	34.5	37.8	36.1	4.0	65.7	9.2	20.6	34.90	44.5	3.7
28	46.7	29.0	34.5	37.8	41.4	4.0	66.2	9.2	20.7	39.70	50.9	3.7
32	53.4	34.0	43.6	47.8	48.6	4.0	73.8	11.7	22.3	44.45	57.0	4.3
36	59.6	38.5	43.6	47.8	54.8	4.0	83.8	11.7	22.3	49.20	63.5	4.3
40	65.5	48.0	52.6	57.8	60.9	4.0	83.8	11.7	22.3	55.55	69.9	4.3

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 3100 (GR) and ITS 4100 (GR) Front Panel Mount Square Flange Receptacle Assembly with Rotating Clamp Backshell Nut for Heat-Shrink Tubing



### Application Notes:

1. Front mount square flange receptacle assembly with backshell for heat shrink tubing. Rotating coupling nut supplied. Through mounting holes.
2. Connector/Backshell Class "GR" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3100 (GR) and ITS 4100 (GR)**  
**Front Panel Mount Square Flange Receptacle Assembly**  
**with Rotating Clamp Nut Backshell for Heat-Shrink Tubing**



**TABLE I: DIMENSIONS**

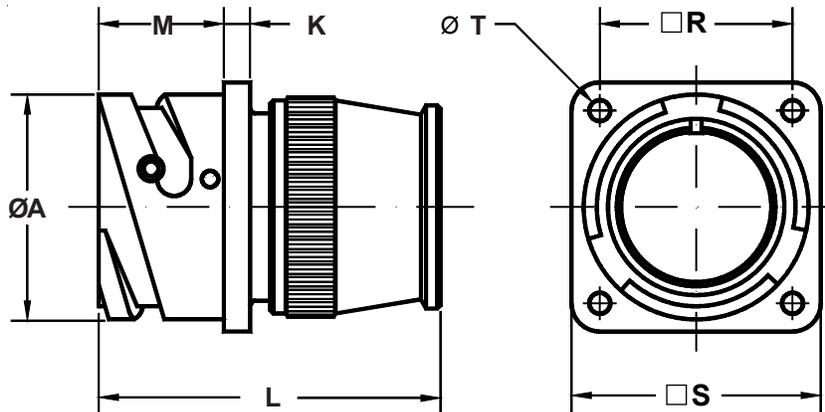
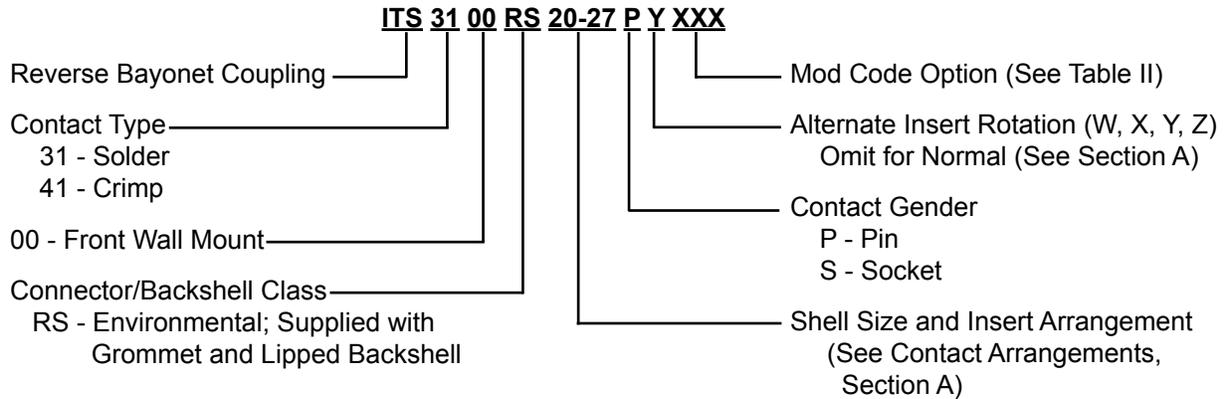
Shell Size	ØA +0 -0.1	ØB Min.	ØC ±0.1	ØD ±0.2	ØE ±0.1	J key	K ±0.2	L Max.	L1 ±0.1	M +0.2 -0	R ±0.1	S +0.2	ØT +0.1 -0
10 SL	18.2	8.6	13.0	15.5	17.0	20	2.8	52.7	8.2	14.3	18.25	25.4	3.2
14 S	24.5	10.7	16.5	19.1	20.1	23	3.3	53.4	8.2	14.5	23.00	30.4	3.2
16 S	27.2	14.0	24.9	23.9	23.5	26	3.3	53.4	8.0	14.5	24.60	32.5	3.2
16	27.2	14.0	24.9	23.9	23.5	26	3.3	65.8	8.0	19.1	24.60	32.5	3.2
18	30.7	17.5	21.7	23.9	26.5	28	4.0	65.8	8.0	19.1	27.00	35.0	3.2
20	34.0	18.8	26.2	29.6	30.2	32	4.0	66.1	8.9	19.1	29.40	38.0	3.2
22	37.3	21.0	26.2	29.6	33.6	36	4.0	66.1	9.2	19.6	31.75	41.0	3.2
24	40.9	25.4	34.0	37.8	36.1	39	4.0	65.7	9.5	20.6	34.90	44.5	3.7
28	46.7	28.4	34.3	37.8	41.4	46	4.0	66.2	9.2	20.7	39.70	50.9	3.7
32	53.4	34.0	43.6	47.8	48.6	52	4.0	73.8	11.7	22.3	44.45	57.0	4.3
36	59.6	40.5	43.6	47.8	54.0	58	4.0	83.8	11.5	22.3	49.20	63.5	4.3
40	65.5	49.0	52.6	57.8	61.0	65	4.0	83.8	11.5	22.3	55.55	69.9	4.3

B

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

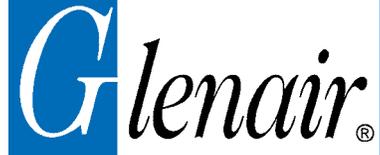
## ITS 3100 (RS) and ITS 4100 (RS) Front Panel Mount Square Flange Receptacle with Lipped Backshell



### Application Notes:

1. Front mount square flange receptacle with a wire sealing grommet and backshell for use with individual wire assemblies. Through mounting holes.
2. Connector/Backshell Class "RS" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3100 (RS) and ITS 4100 (RS)**  
**Front Panel Mount Square Flange Receptacle**  
**with Lipped Backshell**



**TABLE I: DIMENSIONS**

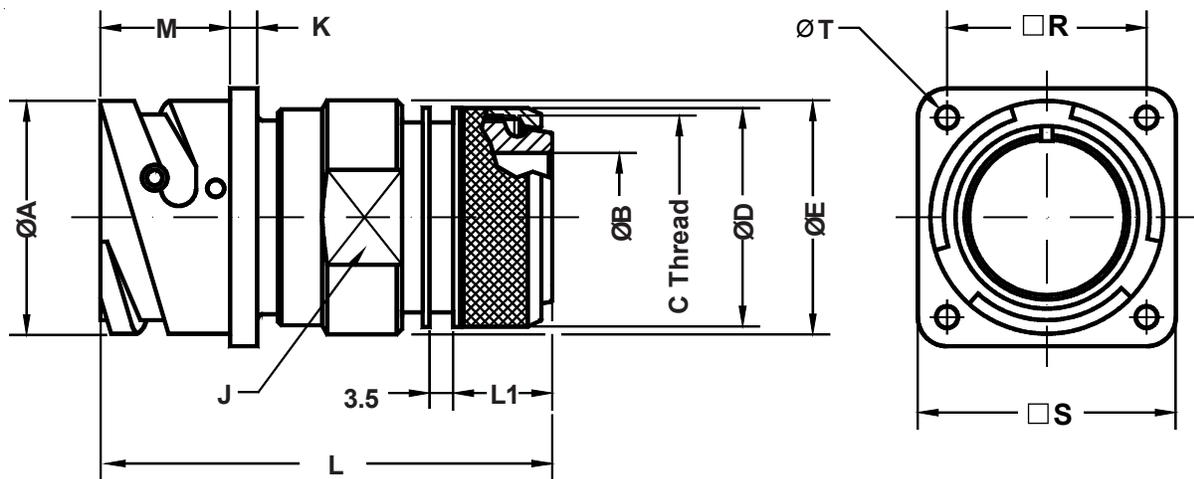
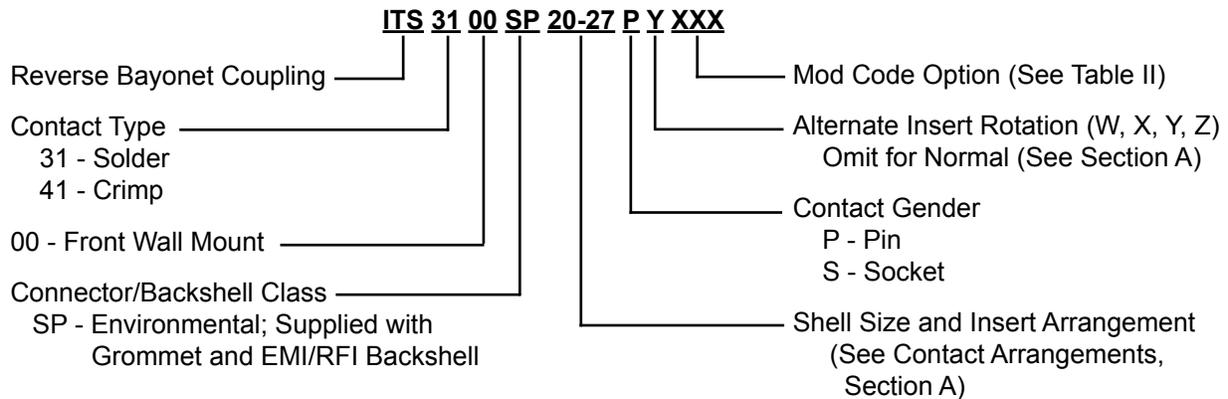
Shell Size	ØA +0 -0.1	K ±0.2	L Max.	M +0.2 -0	R ±0.1	S +0.2	ØT +0.1 -0
10 SL	18.2	2.8	38.0	14.3	18.25	25.4	3.2
14 S	24.5	3.3	47.5	14.5	23.00	30.4	3.2
16 S	27.2	3.3	45.5	14.5	24.60	32.5	3.2
16	27.2	3.3	55.5	19.1	24.60	32.5	3.2
18	30.7	4.0	55.5	19.1	27.00	35.0	3.2
20	34.0	4.0	55.5	19.1	29.40	38.0	3.2
22	37.3	4.0	55.5	19.6	31.75	41.0	3.2
24	40.9	4.0	58.5	20.6	34.90	44.5	3.7
28	46.7	4.0	58.5	20.7	39.70	50.9	3.7
32	53.4	4.0	58.5	22.3	44.45	57.0	4.3
36	59.6	4.0	58.5	22.3	49.20	63.5	4.3
40	65.5	4.0	58.5	22.3	55.55	69.9	4.3

**B**

**TABLE II: MODIFICATION CODES**

<b>CONTACT OPTIONS</b>	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
<b>FINISH OPTIONS</b>	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 3100 (SP) and ITS 4100 (SP) Front Panel Mount Square Flange Receptacle Assembly with Backshell for EMI/RFI Shield Termination



### Application Notes:

1. Front panel mount square flange receptacle with EMI/RFI shield termination backshell. Backshell features rotating coupling nut and a "braid-trap" for termination of braided shielding. Heat-shrink tubing may also be attached for additional environmental and mechanical protection. Through mounting holes.
2. Connector/Backshell Class "SP" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3100 (SP) and ITS 4100 (SP)**  
**Front Panel Mount Square Flange Receptacle Assembly**  
**with Backshell for EMI/RFI Shield Termination**



**TABLE I: DIMENSIONS**

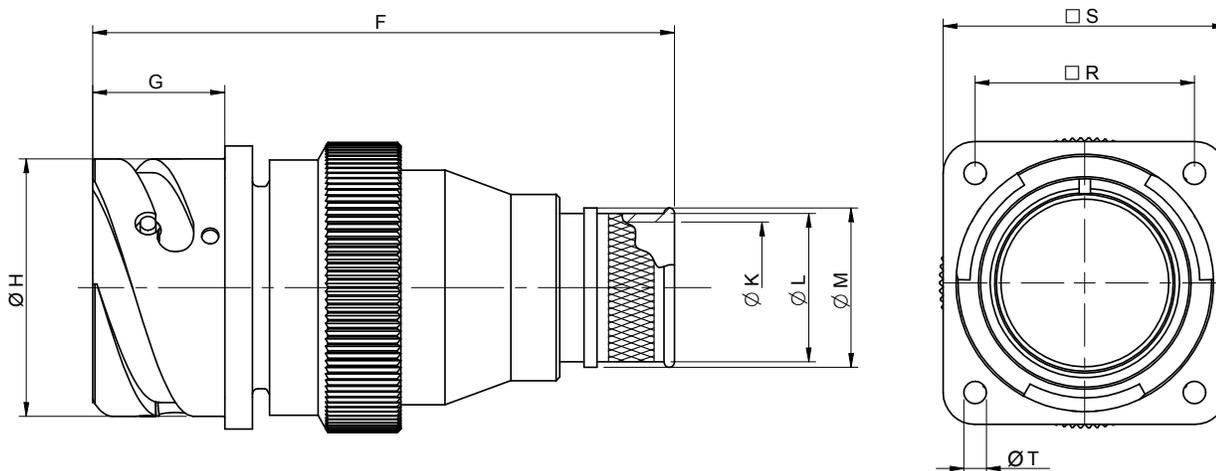
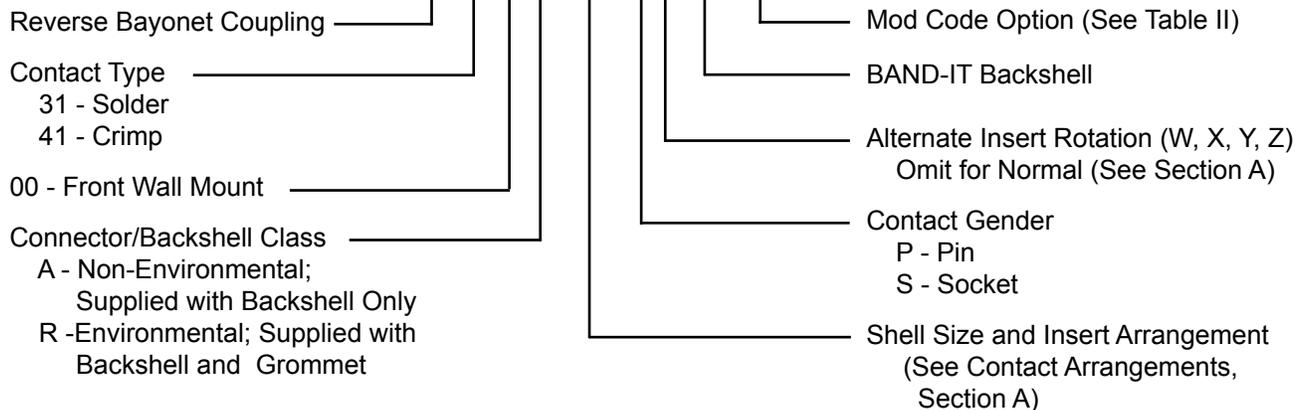
Shell Size	ØA +0 -0.1	ØB Min.	C Thread	ØD ±0.2	ØE ±0.2	J Key	K ±0.2	L Max.	L1 Max.	M +0.2 -0	R ±0.1	S +0.2	ØT +0.1 -0
10 SL	18.2	8.5	M16 x 1	18.5	22.0	20	2.8	52.0	13.5	14.3	18.25	25.4	3.2
14 S	24.5	12.0	M20 x 1	22.3	25.0	23	3.3	52.0	13.5	14.5	23.00	30.4	3.2
16 S	27.2	14.5	M23 x 1	25.3	28.0	26	3.3	54.0	14.6	14.5	24.60	32.5	3.2
16	27.2	14.5	M23 x 1	25.3	28.0	26	3.3	63.0	14.6	19.1	24.60	32.5	3.2
18	30.7	17.5	M26 x 1	28.0	30.0	28	4.0	64.5	14.6	19.1	27.00	35.0	3.2
20	34.0	19.5	M30 x 1	32.3	34.5	32	4.0	64.5	14.6	19.1	29.40	38.0	3.2
22	37.3	22.0	M32 x 1	34.3	38.0	36	4.0	64.5	14.6	19.6	31.75	41.0	3.2
24	40.9	25.0	M36 x 1	38.3	41.0	39	4.0	66.0	14.6	20.6	34.90	44.5	3.7
28	46.7	29.0	M39 x 1	41.2	48.0	46	4.0	66.0	14.6	20.7	39.70	50.9	3.7
32	53.4	34.0	M45 x 1	48.3	54.0	52	4.0	67.5	14.6	22.3	44.45	57.0	4.3
36	59.6	38.5	M52 x 1	55.0	61.0	58	4.0	68.0	15.5	22.3	49.20	63.5	4.3
40	65.5	48.0	M59 x 1	62.0	68.0	65	4.0	68.0	15.5	22.3	55.55	69.9	4.3

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 3100 A (ZLF) and ITS 4100 A (ZLF) Front Panel Mount Square Flange Receptacle Assembly with EMI/RFI Banding Backshell

**ITS 31 00 A 20-27 P Y ZLF XXX**



### Application Notes:

1. Front panel mount square flange receptacle with rear-end backshell for attachment of BAND-IT® EMI/RFI Shield Termination Bands. Through mounting holes.
2. Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet; Class "R" (environmental)—Supplied with backshell and grommet.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3100 A (ZLF) and ITS 4100 A (ZLF)**  
**Front Panel Mount Square Flange Receptacle Assembly**  
**with EMI/RFI Banding Backshell**



**TABLE I: DIMENSIONS**

SIZE	F (max)	G +0.2 -0	H +0 -0.1	R ±0.1	S ±0.2	ØT +0.1 -0
10SL	54	14.3	18.2	18.25	25.4	3.2
14S	54	14.5	24.5	23	30.4	3.2
16S	54	14.5	27.2	24.6	32.5	3.2
16	66	19.1	27.2	24.6	32.5	3.2
18	66	19.1	30.7	27	35	3.2
20	67	19.1	34	29.4	38	3.2
22	67	19.6	37.3	31.75	41	3.2
24	70	20.6	40.9	34.9	44.5	3.7
28	70	20.7	46.7	39.7	50.9	3.7
32	71	22.3	53.4	44.45	57	4.3
36	71	22.3	59.6	49.2	63.5	4.3
40	71	22.3	65.5	55.55	69.9	4.3

**TABLE III: ENTRY SIZE TABLE**

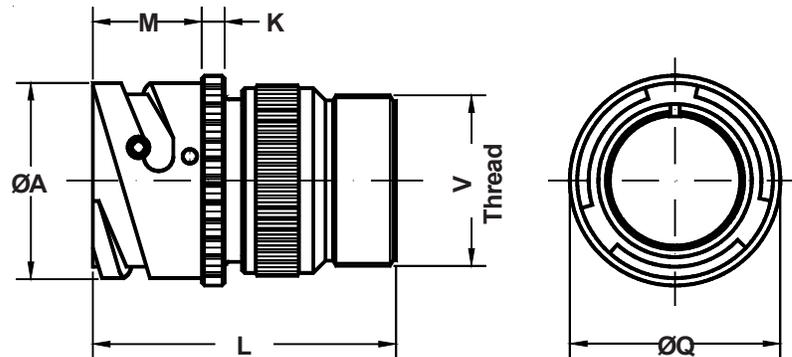
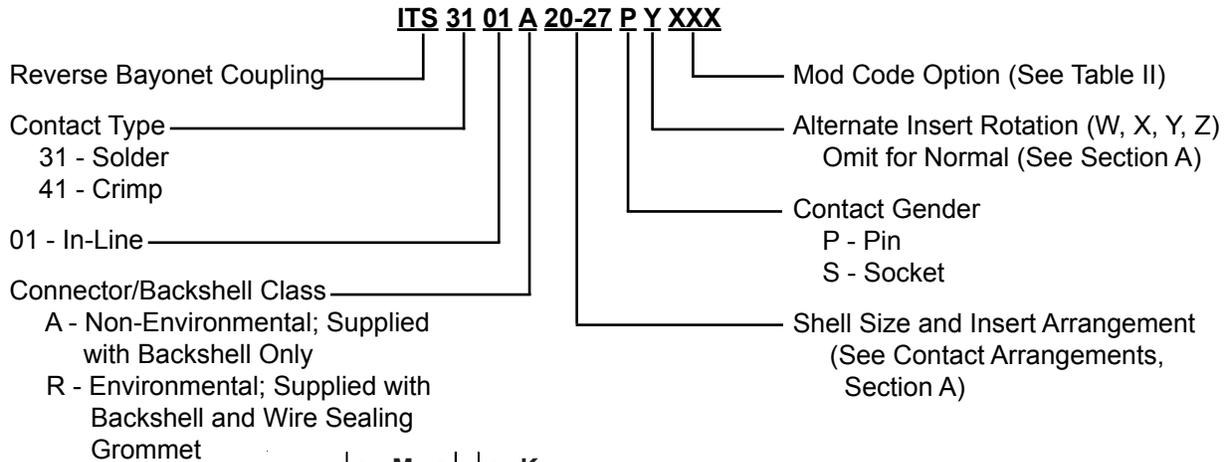
Entry size	ØK	ØL	ØM
01	3.2	6.4	7.9
02	4.8	7.9	9.5
03	6.4	9.5	11.1
04	7.9	11.1	12.7
05	9.5	12.7	14.3
06	11.1	14.3	15.8
07	12.7	15.9	17.4
08	14.3	17.5	19.1
09	15.9	19.1	20.6
10	17.5	20.6	22.2
11	19.1	22.2	23.8
12	20.6	23.8	25.4
13	22.2	25.4	27.0
14	23.8	27.0	28.5
15	25.4	28.6	30.1
16	27.0	30.2	31.8
17	28.6	31.8	33.3
18	31.8	34.9	36.5
19	34.9	38.1	39.7
20	38.1	41.3	42.8
21	41.3	44.5	46.0
22	44.5	47.6	49.2
23	47.6	50.8	52.4
24	50.8	54.0	55.5

**TABLE II: MODIFICATION CODES**

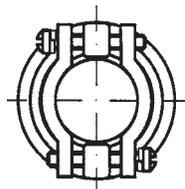
CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	



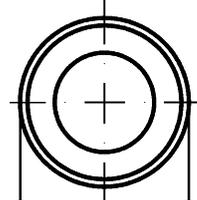
## ITS 3101 (A) and ITS 4101 (R) In-Line Cylindrical Receptacle with Accessory Backshell and a Selection of Cable Clamps



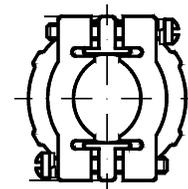
Order Cable Clamps and Sleeves Separately or Use Mod Codes (Table II) to Add Clamp to This Assembly.



**IT 3057 C  
Cable Clamp**



**IT 3420  
Neoprene Sleeve**



**IT 3057 A  
Cable Clamp**

### Application Notes:

- In-line cylindrical receptacle with backshell for the attachment of strain-relief cable clamps.
- Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet; Class "R" (environmental)—Supplied with backshell and grommet.
- Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
- Standard contact material consists of copper alloy with silver plating or gold plating.
- A broad range of other front and rear connector accessories are available. See our website and/or contact the factory for complete information.
- Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3101 (A) and ITS 4101 (R)**  
**In-Line Cylindrical Receptacle with Accessory Backshell**  
**and a Selection of Cable Clamps**



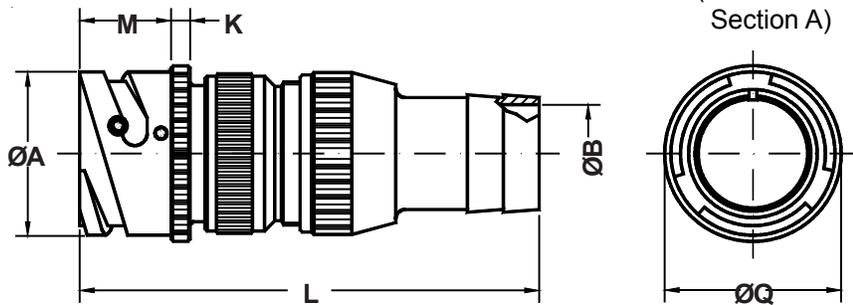
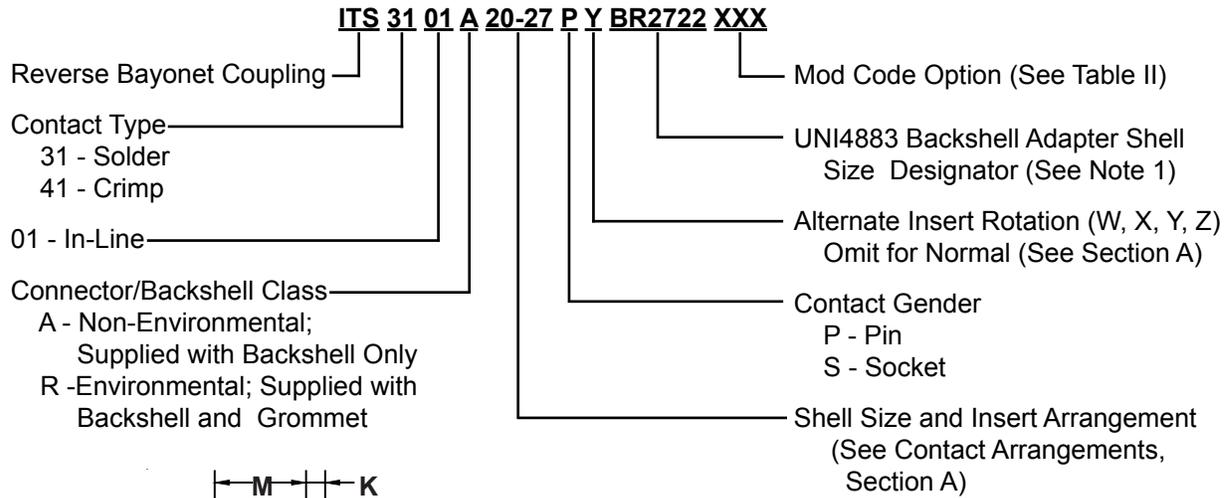
**TABLE I: DIMENSIONS**

Shell Size	ØA +0 -0.1	K ±0.2	L Max.	M +0.2 -0	ØQ ±0.1	V Thread
10 SL	18.2	2.8	44.0	14.3	21.8	0.6250 - 24UNEF
14 S	24.5	3.3	46.4	14.5	28.8	0.7500 - 20UNEF
16 S	27.2	3.3	46.4	14.5	30.5	0.8750 - 20UNEF
16	27.2	3.3	57.8	19.1	30.5	0.8750 - 20UNEF
18	30.7	4.0	57.8	19.1	33.8	1.0000 - 20UNEF
20	34.0	4.0	58.1	19.1	36.9	1.1875 - 18UNEF
22	37.3	4.0	58.1	19.6	39.5	1.1875 - 18UNEF
24	40.9	4.0	59.7	20.6	43.9	1.4375 - 18UNEF
28	46.7	4.0	66.2	20.7	48.4	1.4375 - 18UNEF
32	53.4	4.0	71.3	22.3	56.0	1.7500 - 18UNS
36	59.6	4.0	76.8	22.3	62.4	2.0000 - 18UNS
40	65.5	4.0	76.8	22.3	68.6	2.2500 - 16UN

**B**

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS		ACCESSORY OPTIONS	
Sym	Description		
B0	Connector Less Contacts	N1	Connector with IT 3057 A cable clamp
B1	Connector with Gold Plated Contacts	N2	Connector with long backshell
Omit for standard version (Silver plated)		N5	Connector with IT 3057 C cable clamp
FINISH OPTIONS		N12	Connector with IT 3057 A cable clamp and IT 3420 neoprene sleeve
Omit for standard version (Cadmium Olive Drab Finish)		Omit for standard version	
Sym	Description and RoHS compliant (*)		
F2	Bright Nickel Plating (*)		
F6	Black Electrodeposited Paint (*)		
F7	Black Zn-Co Plating (*)		
F8	Olive Drab Zn-Co Plating		
F11	Electroless Nickel (*)		


**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	

FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

**Application Notes:**

- In-line receptacle with rear-end backshell for termination of UNI4883 type rubber conduit.
- Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet;  
Class "R" (environmental)—Supplied with backshell and grommet.
- Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
- Standard contact material consists of copper alloy with silver plating or gold plating.
- A broad range of other front and rear connector accessories are available.  
See our website and/or contact the factory for complete information.
- Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3101 A (BR) and ITS 4101 A (BR)  
ITS 3101 R (BR) and ITS 4101 R (BR)  
In-Line Cylindrical Receptacle with Backshell  
for Termination of UNI4883 Rubber Conduits**



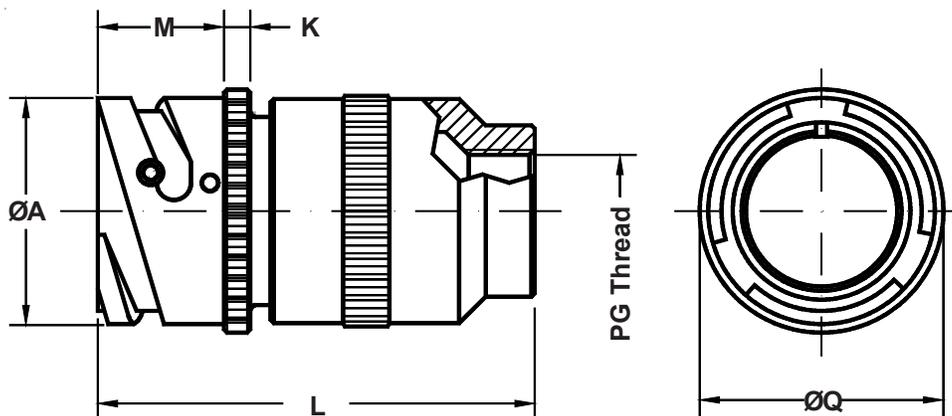
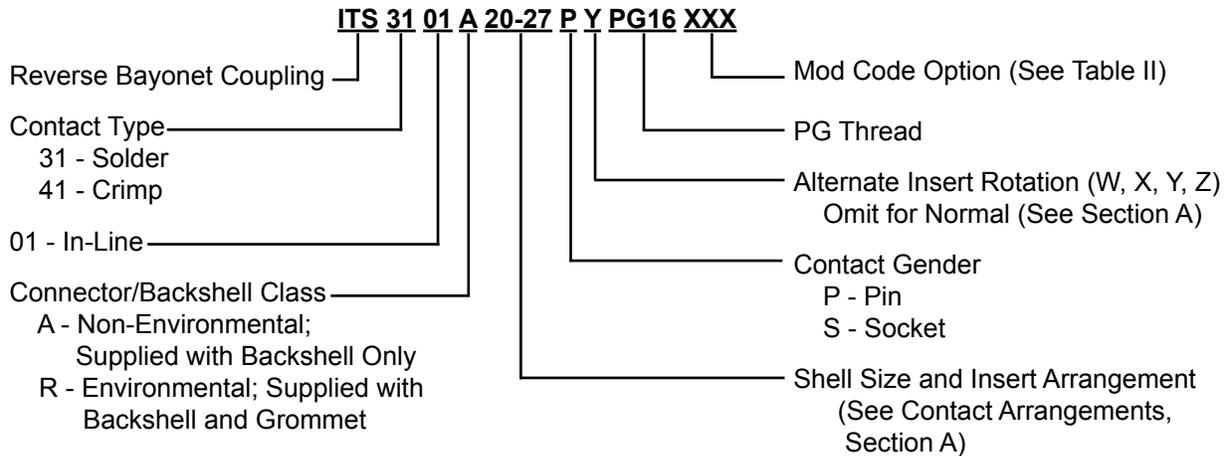
**TABLE I: DIMENSIONS**

Shell Size	ØA +0 -0.1	ØB ±0.1	K ±0.2	L Max.	M +0.2 -0	ØQ ±0.1
10 SL	18.2	See Table III below	2.8	90.0	14.3	21.8
14 S	24.5		3.3	91.5	14.5	28.8
16 S	27.2		3.3	91.5	14.5	30.5
16	27.2		3.3	103.0	19.1	30.5
18	30.7		4.0	103.0	19.1	33.8
20	34.0		4.0	103.0	19.1	36.9
22	37.3		4.0	103.0	19.6	39.5
24	40.9		4.0	104.5	20.6	43.9
28	46.7		4.0	111.0	20.7	48.4
32	53.4		4.0	116.5	22.3	56.0
36	59.6		4.0	122.0	22.3	62.4
40	65.5		4.0	122.0	22.3	68.6

**TABLE III: BACKSHELL DIMENSIONS**

Shell Size	Rubber tube in accordance with UNI 4883 to be used by size:		ØB ±0.1	ØQ ±0.2	
	Ø Min	Ø Max			
10SL	12.0	17.0	10.5		
18	22.0	27.0	20.5		
20 - 22	12.0	17.0	10.5		
20 - 22	22.0	27.0	20.5		
20 - 22	28.0	33.0	31.5		
24 - 28	20.0	25.0	16.5		
24 - 28	22.0	27.0	20.5		
24 - 28	26.0	31.0	22.5		
24 - 28	28.0	33.0	26.5		
24 - 28	30.0	35.0	26.5		
24 - 28	33.0	38.0	31.5		
24 - 28	45.0	50.0	36.2	24.5	53.0
32	26.0	31.0	24.5	26.5	53.0
32	28.0	33.0	26.5	31.5	53.0
32	33.0	38.0	31.5	31.5	53.0
32	35.0	40.0	31.5	40.0	53.0
32	45.0	50.0	40.0	26.5	57.4
36	30.0	35.0	26.5	31.5	57.4
36	33.0	38.0	31.5	31.5	57.4
36	35.0	40.0	31.5	43.5	57.4
36	45.0	50.0	43.5		
40	36.0	41.0	31.5		
40	40.0	45.0	38.5		
40	45.0	50.0	43.5		
40	50.0	55.0	48.5		





#### Notes:

1. In-line receptacle with backshell adapter threaded for use with PG cable glands (not included). Other types of PG adaptors can be supplied in various sizes and angles upon request.
2. Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet; Class "R" (environmental)—Supplied with backshell and grommet.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. Other types of front and rear connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3101 A (PG) and ITS 4101 A (PG)  
ITS 3101 R (PG) and ITS 4101 R (PG)  
In-Line Cylindrical Receptacle  
with Backshell for Use with PG Cable Glands**



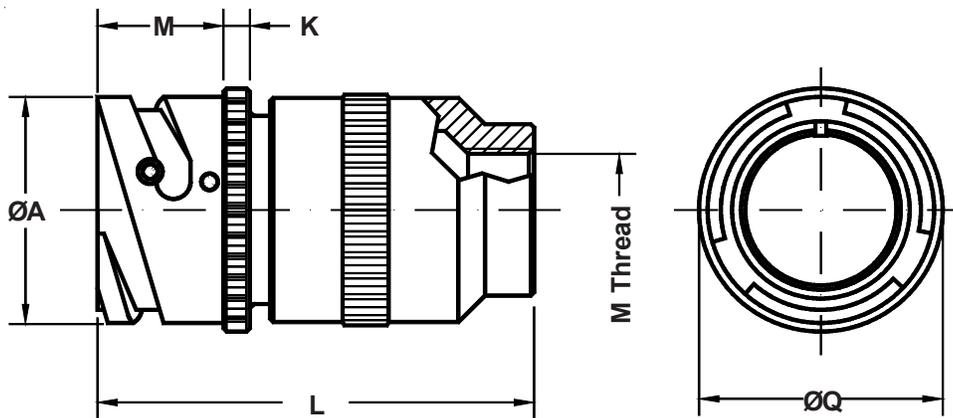
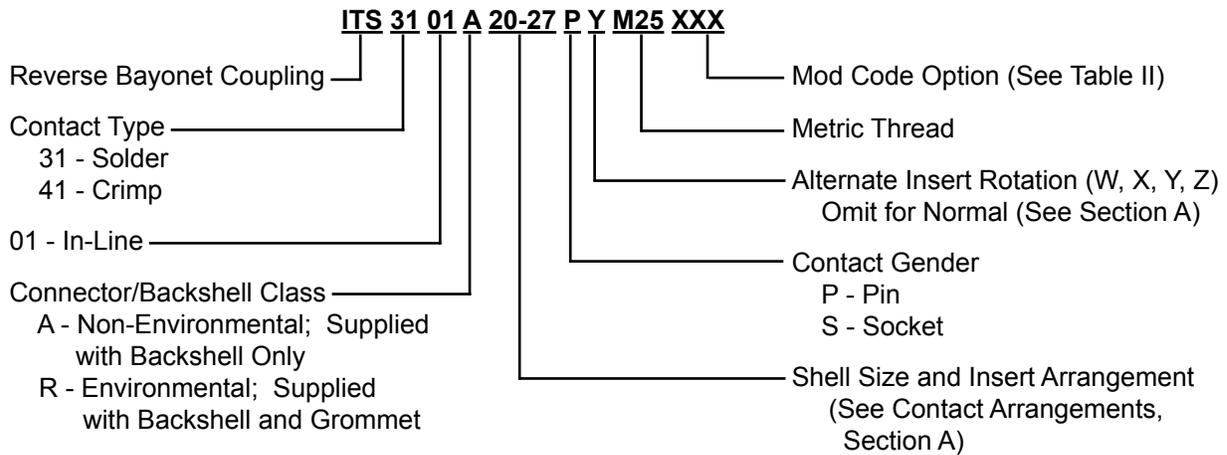
**TABLE I: DIMENSIONS**

Shell Size	ØA +0 -0.1	K ±0.2	L Max.	M +0.2 -0	PG Thread	ØQ ±0.1
<b>10 SL</b>	18.2	2.8	50.0	14.3	7 / 9 / 11	21.8
<b>14 S</b>	24.5	3.3	52.5	14.5	11 / 13.5	28.8
<b>16 S</b>	27.2	3.3	52.5	14.5	9 / 11 / 16	30.5
<b>16</b>	27.2	3.3	61.0	19.1	9 / 11 / 16	30.5
<b>18</b>	30.7	4.0	66.5	19.1	9 / 11 / 16 / 21	33.8
<b>20</b>	34.0	4.0	69.5	19.1	11 / 16 / 21	36.9
<b>22</b>	37.3	4.0	69.5	19.6	13.5 / 16 / 21	39.5
<b>24</b>	40.9	4.0	71.5	20.6	13.5 / 16 / 21 /	43.9
<b>28</b>	46.7	4.0	76.5	20.7	16 / 21 / 29	48.4
<b>32</b>	53.4	4.0	82.5	22.3	21 / 29	56.0
<b>36</b>	59.6	4.0	87.5	22.3	21 / 29 / 36	62.4
<b>40</b>	65.5	4.0	92.5	22.3	29 / 36	68.6

**TABLE II: MODIFICATION CODES**

<b>CONTACT OPTIONS</b>	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
<b>FINISH OPTIONS</b>	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

**ITS 3101 A (M) and ITS 4101 A (M)  
ITS 3101 R (M) and ITS 4101 R (M)  
In-Line Cylindrical Receptacle Assembly  
with Backshell for Use with Metric Cable Glands**



#### Application Notes:

1. In-line cylindrical receptacle with rear-end backshell for use with metric thread backend connector accessories.
2. Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet;  
Class "R" (environmental)—Supplied with backshell and grommet.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of metric connector accessories are available.  
See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3101 A (M) and ITS 4101 A (M)  
ITS 3101 R (M) and ITS 4101 R (M)  
In-Line Cylindrical Receptacle Assembly  
with Backshell for Use with Metric Cable Glands**



**TABLE I: DIMENSIONS**

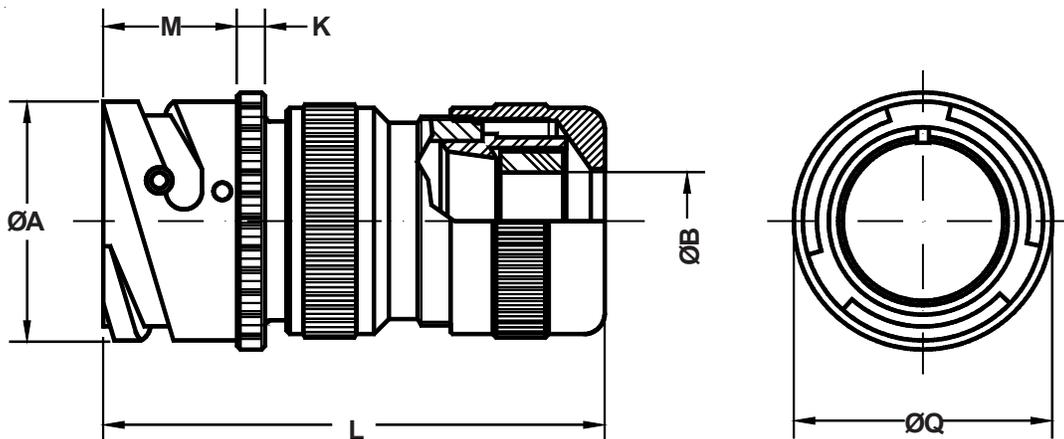
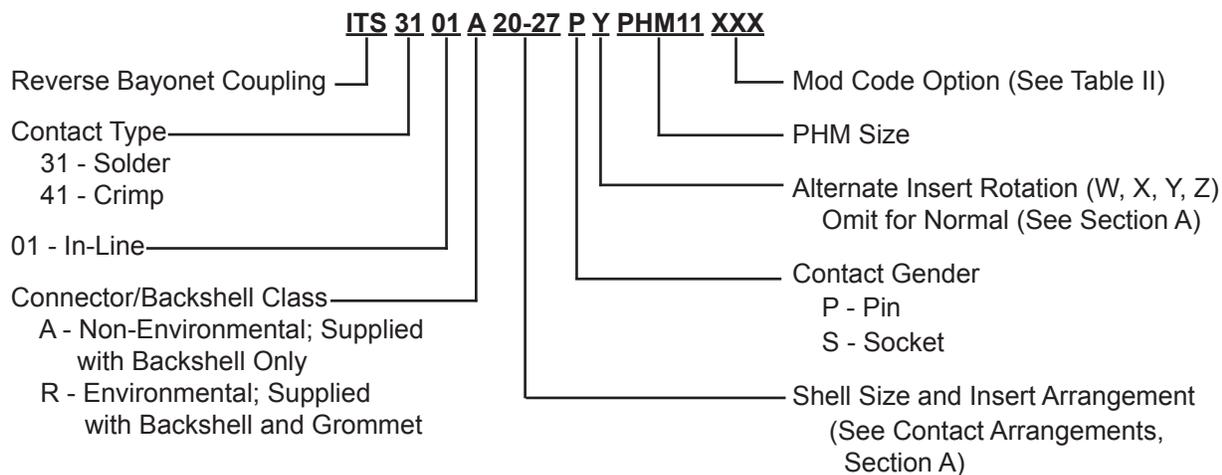
Shell Size	ØA +0 -0.1	K ±0.2	L Max.	M +0.2 -0	M Thread Other M Threads available on request	ØQ ±0.1
10 SL	18.2	2.8	50.0	14.3	M12x1,5	21.8
14 S	24.5	3.3	52.5	14.5	M16x1,5	28.8
16 S	27.2	3.3	52.5	14.5	M16x1,5	30.5
16	27.2	3.3	61.0	19.1	M16x1,5	30.5
18	30.7	4.0	66.5	19.1	M20x1,5	33.8
20	34.0	4.0	69.5	19.1	M25x1,5	36.9
22	37.3	4.0	69.5	19.6	M25x1,5	39.5
24	40.9	4.0	71.5	20.6	M32x1,5	43.9
28	46.7	4.0	76.5	20.7	M32x1,5	48.4
32	53.4	4.0	82.5	22.3	M36x1,5	56.0
36	59.6	4.0	87.5	22.3	M40x1,5	62.4
40	65.5	4.0	92.5	22.3	M48x1,5	68.6

**B**

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 3101 A (PHM) and ITS 4101 A (PHM) In-Line Cylindrical Receptacle Assembly with Environmental PHM Backshell



### Application Notes:

1. In-line cylindrical receptacle with rear-end for environmental PHM backshell.
2. Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet; Class "R" (environmental)—Supplied with backshell and grommet.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of metric connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3101 A (PHM) and ITS 4101 A (PHM)  
In-Line Cylindrical Receptacle Assembly  
with Environmental PHM Backshell**



**TABLE I: DIMENSIONS**

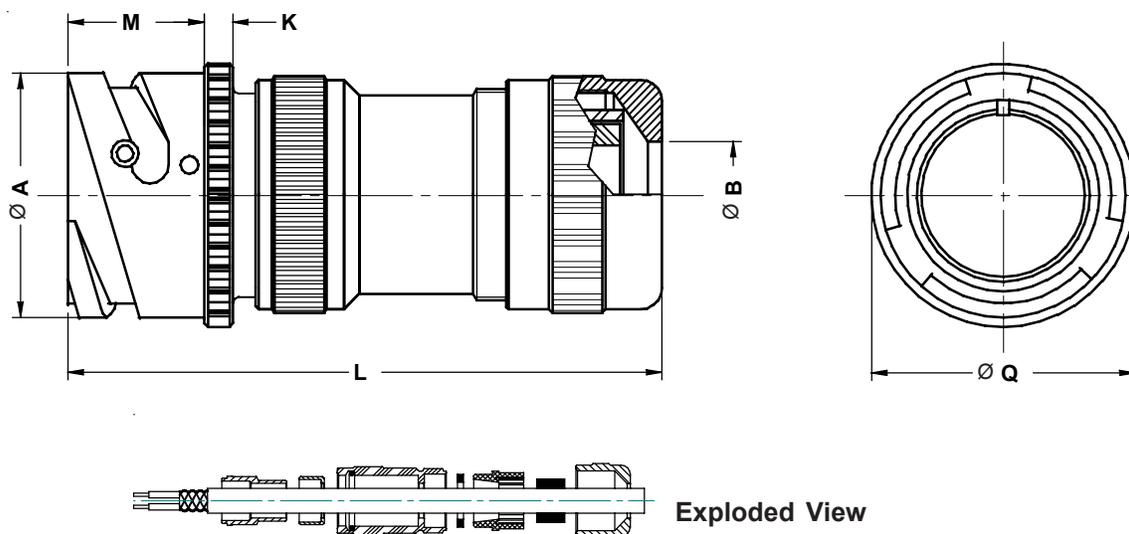
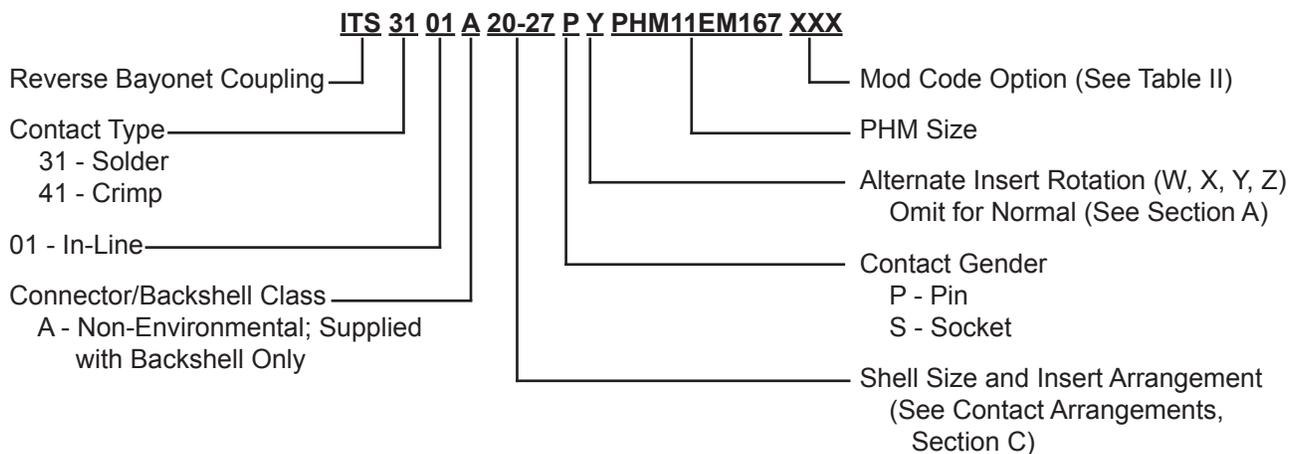
Shell Size	PHM Size	ØA +0 -0.1	ØB min. – Max.	K ±0.2	L Max.	M +0.2 -0	ØQ ±0.1
10 SL	9	18.2	2-9	2.8	60	14.3	21.8
14 S	11	24.5	2-11	3.3	60	14.5	28.8
16 S	11	27.2	2-11	3.3	60	14.5	30.5
16	11	27.2	2-11	3.3	70	19.1	30.5
18	11 / 18	30.7	2-11 / 2-16.5	4.0	70	19.1	33.8
20	11 / 18	34.0	2-11 / 2-16.5	4.0	70	19.1	36.9
22	18	37.3	2-16.5	4.0	70	19.6	39.5
24	18 / 22 / 24	40.9	2-16.5 / 15-20 / 19-24	4.0	80	20.6	43.9
28	18 / 22 / 24	46.7	2-16.5 / 15-20 / 19-24	4.0	80	20.7	48.4
32	22 / 24	53.4	15-20 / 19-24	4.0	80	22.3	56.0
36	35	59.6	23-35	4.0	95	22.3	62.4
40	35	65.5	23-35	4.0	95	22.3	68.6

**B**

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

# ITS 3101 A (PHM-EMI67) and ITS 4101 A (PHM-EMI67) In-Line Cylindrical Receptacle Assembly with EMI/RFI and Environmental PHM Backshell



### Application Notes:

1. In-line receptacle with an EMI/RFI PHM backshell.
2. Connector/Backshell Class "A" (non-environmental)—Wire sealing grommet not supplied.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of metric connector accessories are available.  
See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3101 A (PHM-EMI67) and ITS 4101 A (PHM-EMI67)  
In-Line Cylindrical Receptacle Assembly  
with EMI/RFI and Environmental PHM Backshell**



**TABLE I: DIMENSIONS**

Shell Size	PHM Size	ØA +0 -0.1	ØB min. – Max.	K ±0.2	L Max.	M +0.2 -0	ØQ ±0.1
10 SL	9	18.2	2–9	2.8	70	14.3	21.8
14 S	11	24.5	2–11	3.3	70	14.5	28.8
16 S	11	27.2	2–11	3.3	70	14.5	30.5
16	11	27.2	2–11	3.3	80	19.1	30.5
18	11 / 18	30.7	2–11 / 2–16.5	4.0	80	19.1	33.8
20	11 / 18	34.0	2–11 / 2–16.5	4.0	80	19.1	36.9
22	18	37.3	2–16.5	4.0	80	19.6	39.5
24	18 / 22 / 24	40.9	2–16.5 / 15–20 / 19–24	4.0	90	20.6	43.9
28	18 / 22 / 24	46.7	2–16.5 / 15–20 / 19–24	4.0	90	20.7	48.4
32	22 / 24	53.4	15–20 / 19–24	4.0	90	22.3	56.0
36	Contact the factory for information						
40							

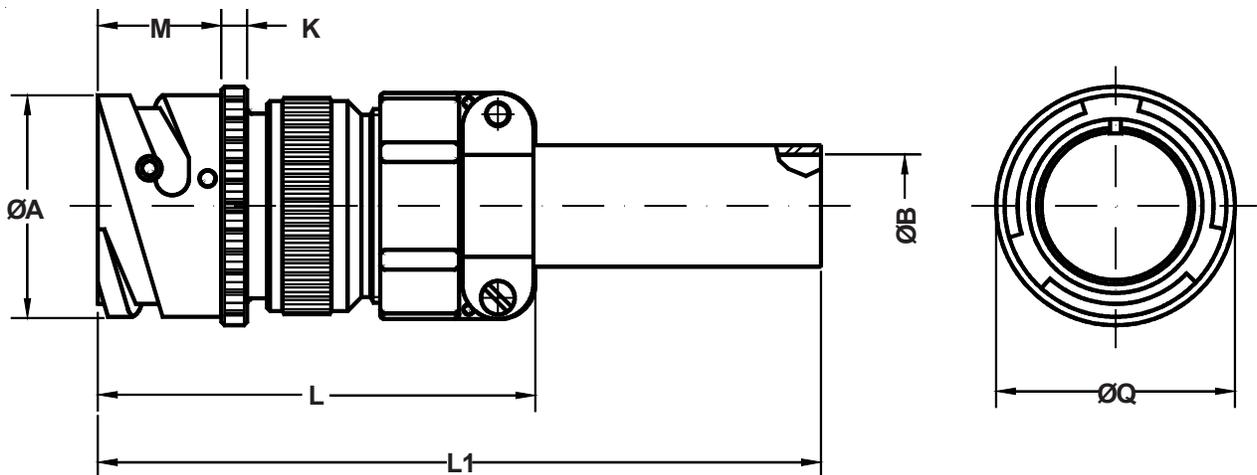
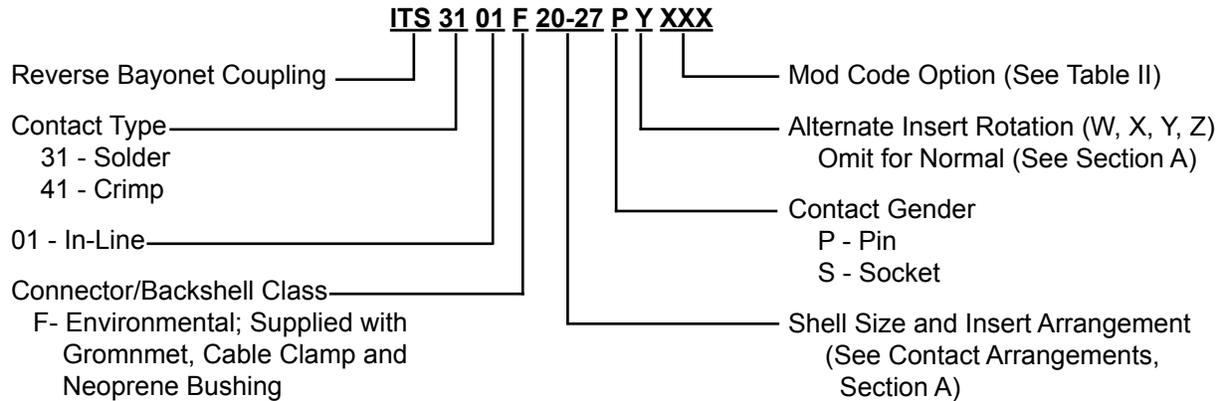
**B**

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 3101 (F) and ITS 4101 (F)

### In-Line Cylindrical Receptacle Assembly with Class A IT3057 Cable Clamp and Neoprene Bushing



#### Application Notes:

1. In-Line receptacle with an insulating grommet, environmental backshell, class A IT3057 cable clamp for individual wires and neoprene bushing.
2. Connector/Backshell Class "F" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available.  
See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3101 (F) and ITS 4101 (F)**  
**In-Line Cylindrical Receptacle Assembly**  
**with Class A IT3057 Cable Clamp and Neoprene Bushing**



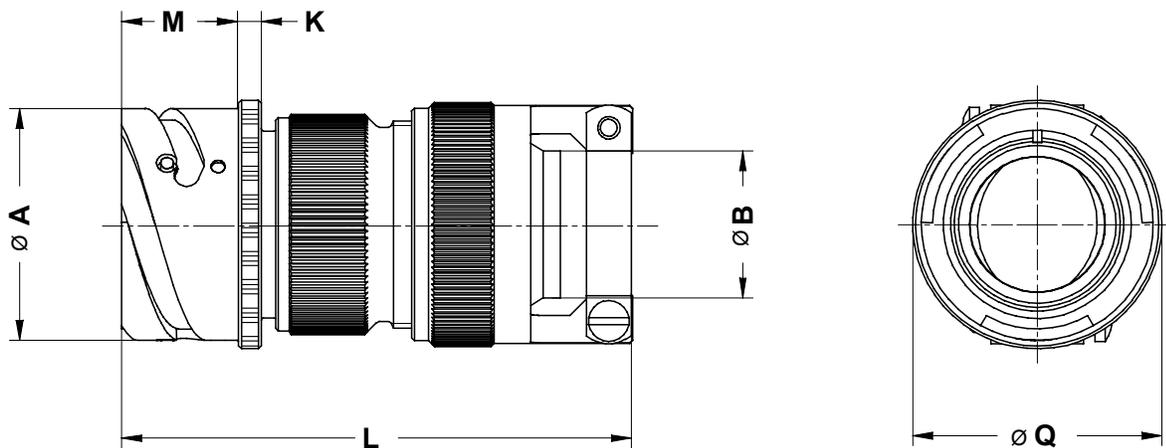
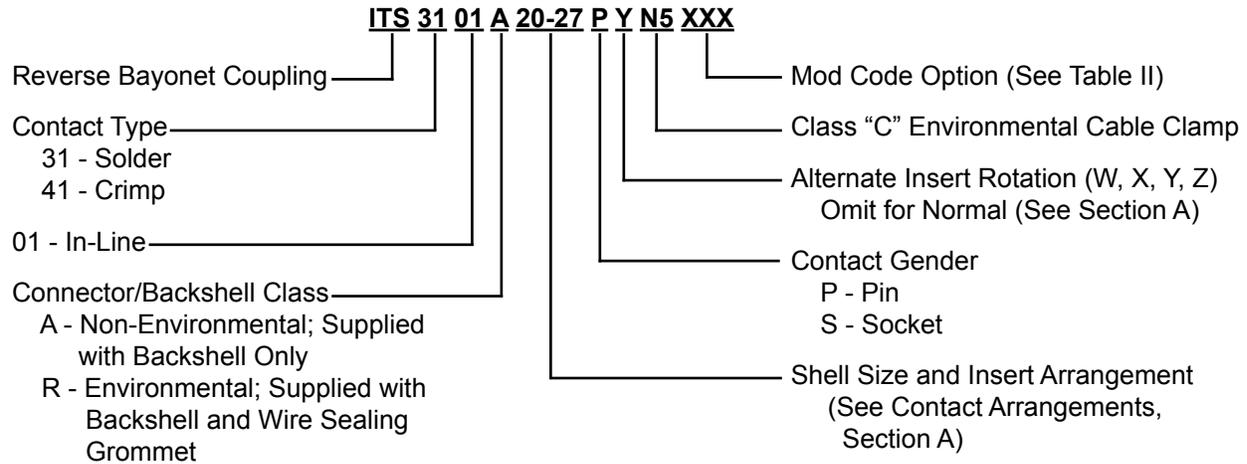
**TABLE I: DIMENSIONS**

Shell Size	ØA +0 -0.1	ØB ±0.1	K ±0.2	L Max.	L1 Max.	M +0.2 -0	ØQ ±0.1
10 SL	18.2	5.58	2.8	55.0	125	14.3	21.8
14 S	24.5	7.92	3.3	58.4	125	14.5	28.8
16 S	27.2	11.09	3.3	60.4	125	14.5	30.5
16	27.2	11.09	3.3	71.8	135	19.1	30.5
18	30.7	14.27	4.0	77.8	140	19.1	33.8
20	34.0	15.87	4.0	74.0	130	19.1	36.9
22	37.3	15.87	4.0	74.0	130	19.6	39.5
24	40.9	19.05	4.0	76.7	130	20.6	43.9
28	46.7	19.05	4.0	83.2	135	20.7	48.4
32	53.4	23.79	4.0	90.3	140	22.3	56.0
36	59.6	31.75	4.0	96.8	145	22.3	62.4
40	65.5	34.92	4.0	115.8	160	22.3	68.6

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

**ITS 3101 A (N5) and ITS 3101 R (N5)  
ITS 4101 A (N5) and ITS 4101 R (N5)  
In-Line Cylindrical Receptacle Assembly  
with Class C (Environmental) IT3057 Cable Clamp**



**Application Notes:**

1. In-line receptacle with a class C (environmental) IT3057 cable clamp for use with jacketed cable.
2. Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet; Class "R" (environmental)—Supplied with backshell and grommet.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts.

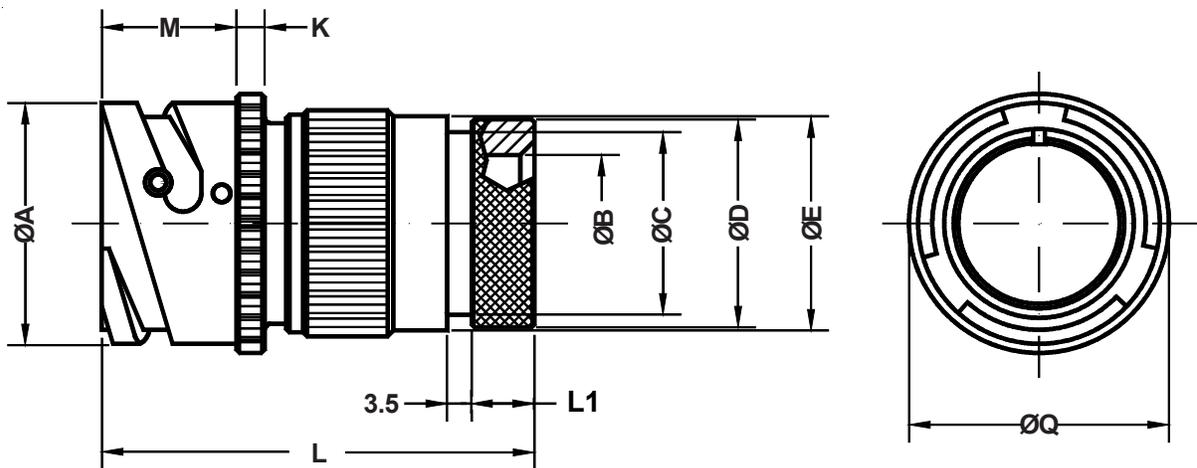
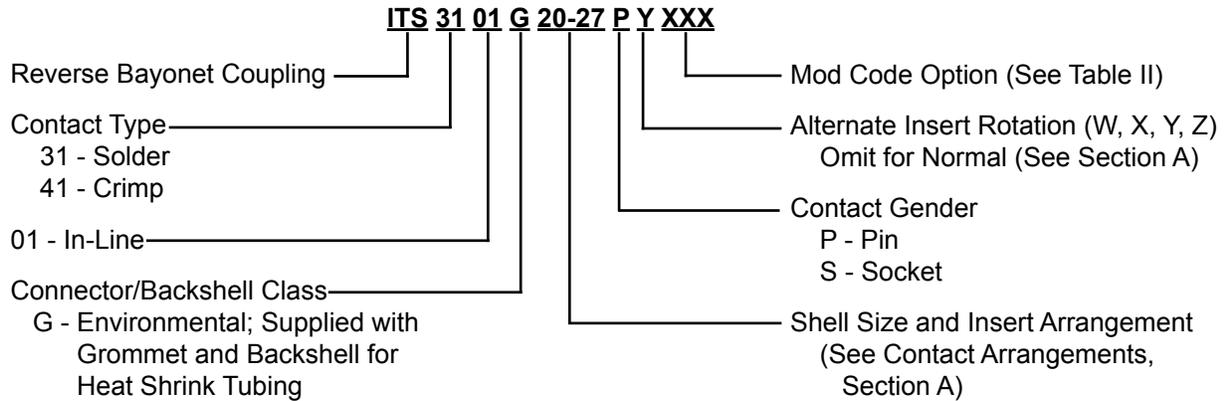
TABLE I: DIMENSIONS

Shell Size	ØA +0 -0.1	ØB		K ±0.2	L Max.	M +0.2 -0	ØQ ±0.1
		Open	Closed				
10 SL	18.2	7.93	2.38	2.8	73	14.3	21.8
14 S	24.5	11.12	5.84	3.3	77	14.5	28.8
16 S	27.2	13.48	8.00	3.3	77	14.5	30.5
16	27.2	13.48	8.00	3.3	88	19.1	30.5
18	30.7	15.87	9.60	4.0	91	19.1	33.8
20	34.0	19.00	11.30	4.0	91	19.1	36.9
22	37.3	19.00	11.30	4.0	92	19.6	39.5
24	40.9	23.80	15.50	4.0	97	20.6	43.9
28	46.7	23.80	15.50	4.0	103	20.7	48.4
32	53.4	31.75	23.40	4.0	113	22.3	56.0
36	59.6	35.00	23.40	4.0	120	22.3	62.4
40	65.5	41.25	29.90	4.0	135	22.3	68.6

TABLE II: MODIFICATION CODES

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 3101 (G) and ITS 4101 (G) In-Line Cylindrical Receptacle Assembly with Backshell for Heat Shrink Tubing



### Application Notes:

1. In-Line receptacle with backshell for heat shrink tubing.
2. Connector/Backshell Class "G" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available.  
See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3101 (G) and ITS 4101 (G)  
In-Line Cylindrical Receptacle Assembly  
with Backshell for Heat Shrink Tubing**



**TABLE I: DIMENSIONS**

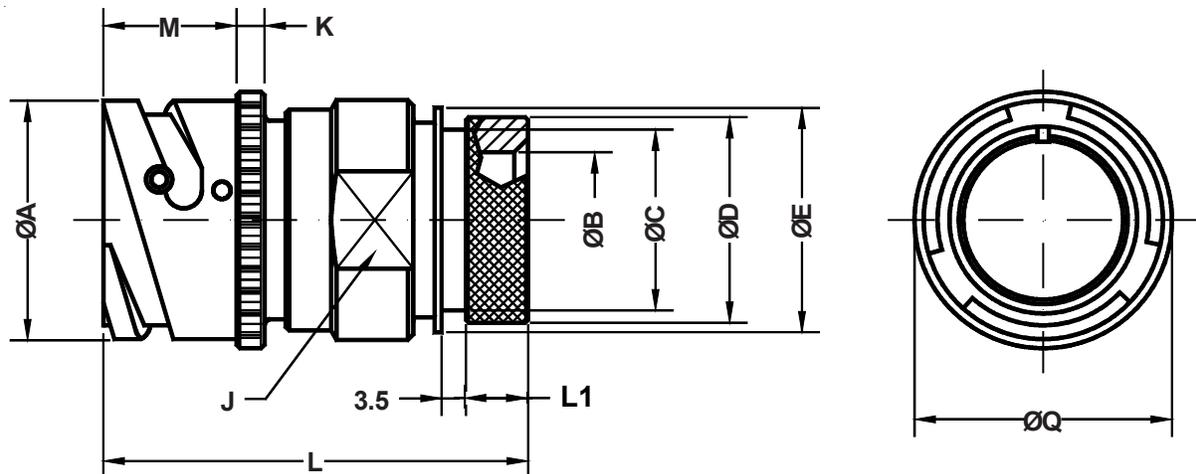
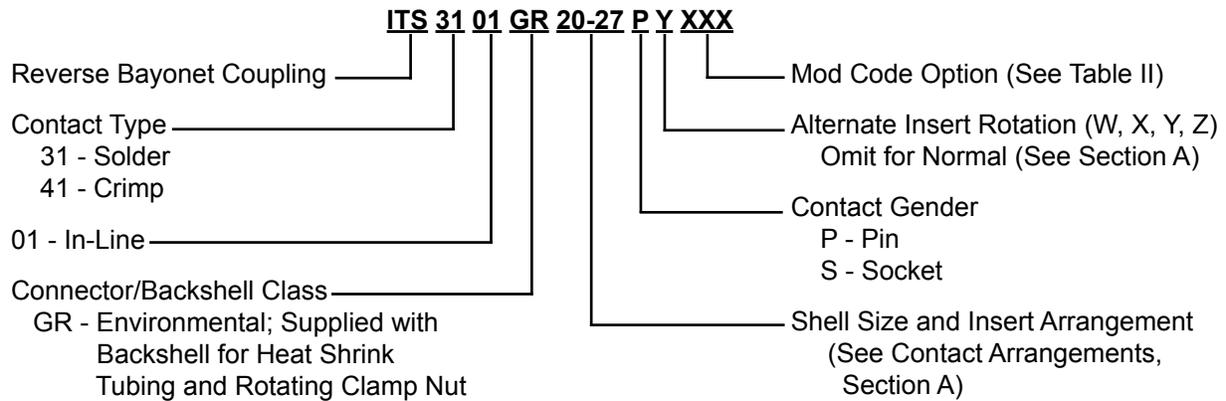
Shell Size	ØA +0 -0.1	ØB min.	ØC ±0.1	ØD ±0.2	ØE ±0.2	K ±0.2	L Max.	L1 Max.	M +0.2 -0	ØQ ±0.1
10 SL	18.2	8.5	13.0	15.5	17.0	2.8	52.7	8.2	14.3	21.8
14 S	24.5	12.0	16.5	19.1	20.1	3.3	53.4	8.2	14.5	28.8
16 S	27.2	14.5	21.5	23.9	23.5	3.3	53.4	8.2	14.5	30.5
16	27.2	14.5	21.5	23.9	23.5	3.3	65.8	8.0	19.1	30.5
18	30.7	17.5	21.7	23.9	26.5	4.0	65.8	8.0	19.1	33.8
20	34.0	19.5	26.0	29.6	30.5	4.0	66.1	8.9	19.1	36.9
22	37.3	22.0	26.0	29.6	33.6	4.0	66.1	8.9	19.6	39.5
24	40.9	25.0	34.5	37.8	36.1	4.0	65.7	9.2	20.6	43.9
28	46.7	29.0	34.5	37.8	41.4	4.0	66.2	9.2	20.7	48.4
32	53.4	34.0	43.6	47.8	48.6	4.0	73.8	11.7	22.3	56.0
36	59.6	38.5	43.6	47.8	54.8	4.0	83.8	11.7	22.3	62.4
40	65.5	48.0	52.6	57.8	60.9	4.0	83.8	11.7	22.3	68.6

**B**

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 3101 (GR) and ITS 4101 (GR) In-Line Cylindrical Receptacle Assembly with Rotating Clamp Nut Backshell for Heat-Shrink Tubing



### Application Notes:

1. In-line receptacle assembly with backshell for heat shrink tubing. Rotating coupling nut supplied.
2. Connector/Backshell Class "GR" (environmental)—wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available.  
See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3101 (GR) and ITS 4101 (GR)  
In-Line Cylindrical Receptacle Assembly  
with Rotating Clamp Nut Backshell for Heat-Shrink Tubing**



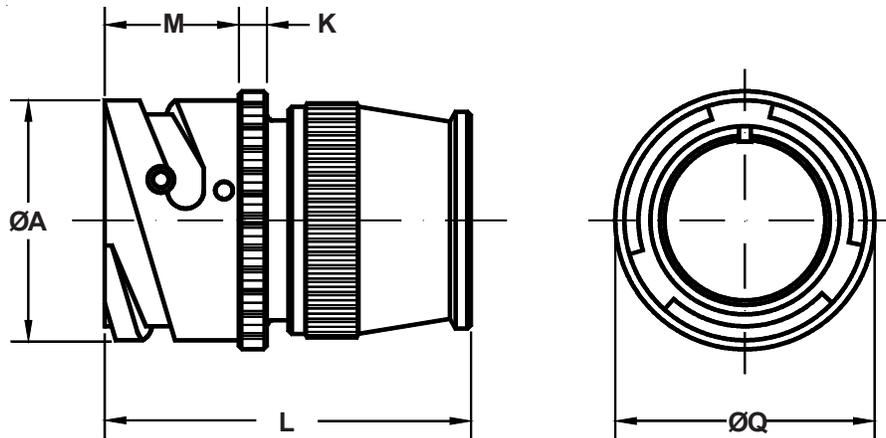
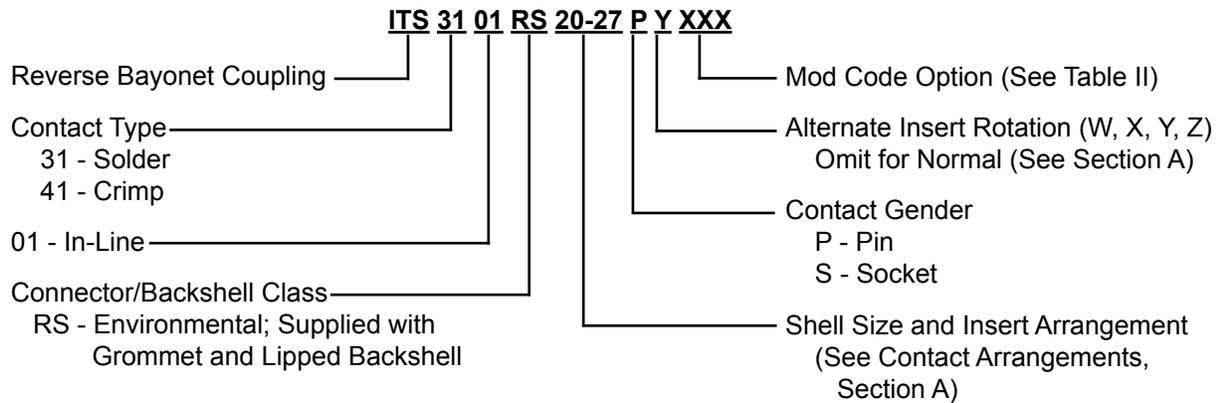
**TABLE I: DIMENSIONS**

Shell Size	ØA +0 -0.1	ØB min.	ØC ±0.1	ØD ±0.2	ØE ±0.1	J key	K ±0.2	L Max.	L1 ±0.1	M +0.2 -0	ØQ ±0.1
<b>10 SL</b>	18.2	8.6	13.0	15.5	17.0	20	2.8	52.7	8.2	14.3	21.8
<b>14 S</b>	24.5	10.7	16.5	19.1	20.1	23	3.3	53.4	8.2	14.5	28.8
<b>16 S</b>	27.2	14.0	24.9	23.9	23.5	26	3.3	53.4	8.0	14.5	30.5
<b>16</b>	27.2	14.0	24.9	23.9	23.5	26	3.3	65.8	8.0	19.1	30.5
<b>18</b>	30.7	17.5	21.7	23.9	26.5	28	4.0	65.8	8.0	19.1	33.8
<b>20</b>	34.0	18.8	26.2	29.6	30.2	32	4.0	66.1	8.9	19.1	36.9
<b>22</b>	37.3	21.0	26.2	29.6	33.6	36	4.0	66.1	9.2	19.6	39.5
<b>24</b>	40.9	25.4	34.0	37.8	36.1	39	4.0	65.7	9.5	20.6	43.9
<b>28</b>	46.7	28.4	34.3	37.8	41.4	46	4.0	66.2	9.2	20.7	48.4
<b>32</b>	53.4	34.0	43.6	47.8	48.6	52	4.0	73.8	11.7	22.3	56.0
<b>36</b>	59.6	40.5	43.6	47.8	54.0	58	4.0	83.8	11.5	22.3	62.4
<b>40</b>	65.5	49.0	52.6	57.8	61.0	65	4.0	83.8	11.5	22.3	68.6

**TABLE II: MODIFICATION CODES**

<b>CONTACT OPTIONS</b>	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
<b>FINISH OPTIONS</b>	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 3101 (RS) and ITS 4101 (RS) In-Line Cylindrical Receptacle Assembly with Lipped Backshell



### Application Notes:

1. In-line receptacle with a wire sealing grommet and backshell for use with individual wire assemblies.
2. Connector/Backshell Class "RS" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available.  
See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3101 (RS) and ITS 4101 (RS)  
In-Line Cylindrical Receptacle Assembly  
with Lipped Backshell**



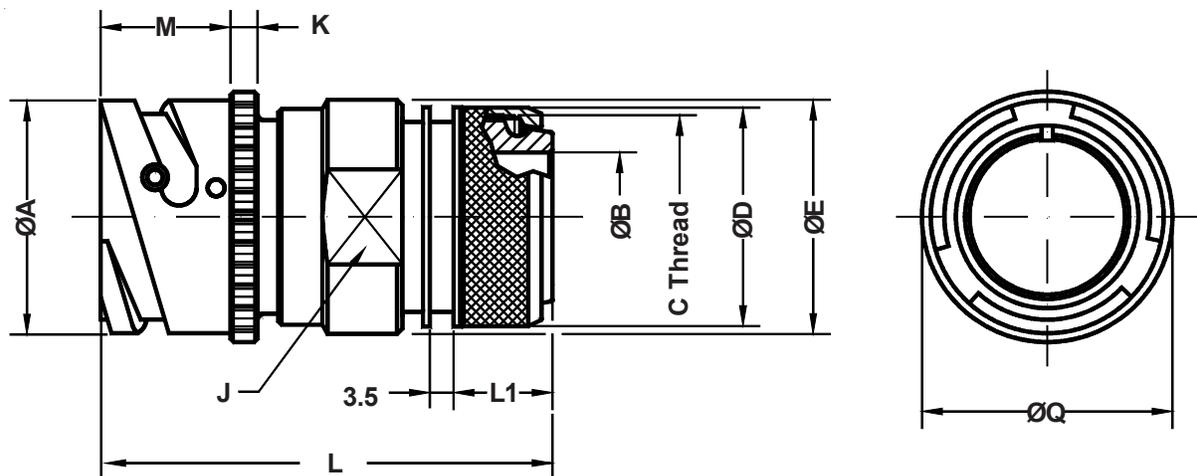
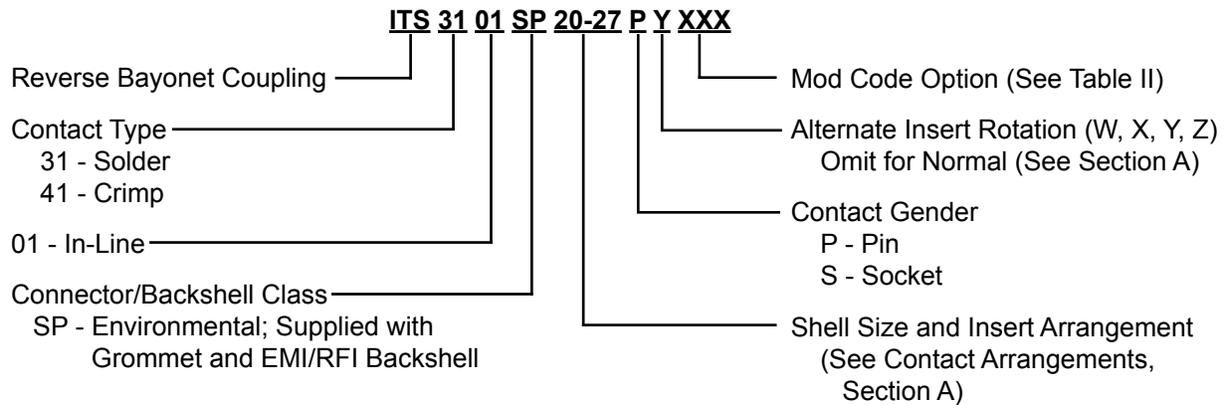
**TABLE I: DIMENSIONS**

Shell Size	ØA +0 -0.1	K ±0.2	L Max.	M +0.2 -0	ØQ ±0.1
10 SL	18.2	2.8	38.0	14.3	21.8
14 S	24.5	3.3	47.5	14.5	38.8
16 S	27.2	3.3	45.5	14.5	30.5
16	27.2	3.3	55.5	19.1	30.5
18	30.7	4.0	55.5	19.1	33.8
20	34.0	4.0	55.5	19.1	36.9
22	37.3	4.0	55.5	19.6	39.5
24	40.9	4.0	58.5	20.6	43.9
28	46.7	4.0	58.5	20.7	48.4
32	53.4	4.0	58.5	22.3	56.0
36	59.6	4.0	58.5	22.3	62.4
40	65.5	4.0	58.5	22.3	68.6

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 3101 (SP) and ITS 4101 (SP) In-Line Cylindrical Receptacle Assembly with Backshell for EMI/RFI Shield Termination



### Application Notes:

1. In-line receptacle with EMI/RFI shield termination backshell with rotating coupling nut. Cable shield is terminated with a "braid-trap" nut. Heat-shrink tubing may also be attached for additional environmental and mechanical protection.
2. Connector/Backshell Class "SP" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3101 (SP) and ITS 4101 (SP)  
In-Line Cylindrical Receptacle Assembly  
with Backshell for EMI/RFI Shield Termination**



**TABLE I: DIMENSIONS**

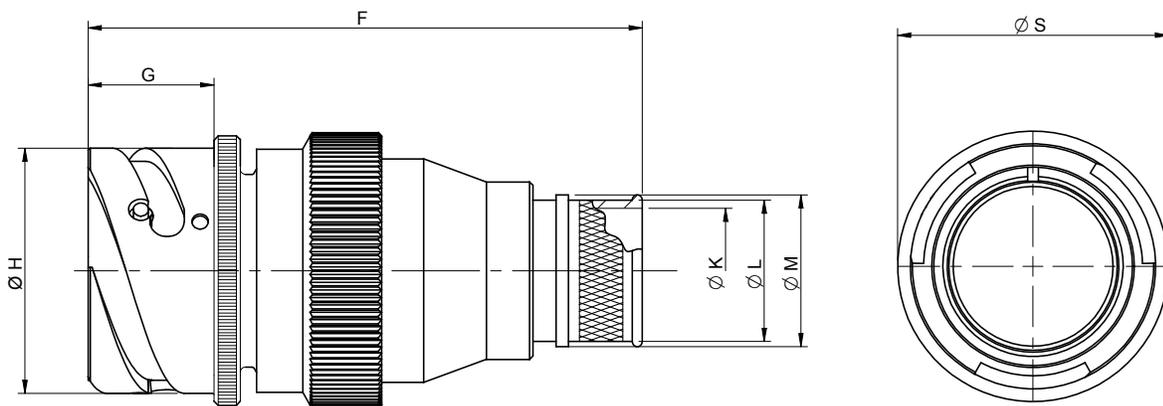
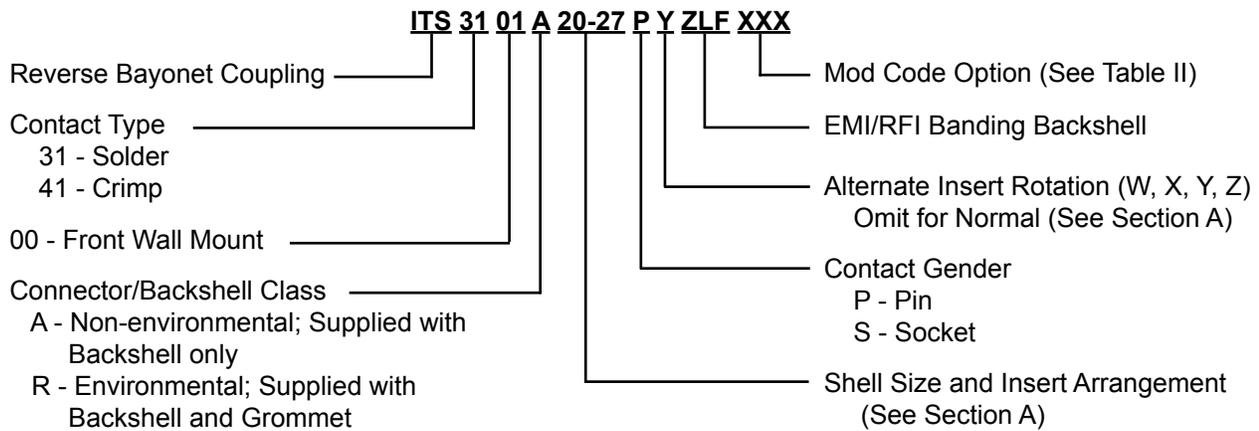
Shell Size	ØA +0 -0.1	ØB min.	C thread	ØD ±0.2	ØE ±0.2	J key	K ±0.2	L Max.	L1 Max.	M +0.2 -0	ØQ ±0.1
10 SL	18.2	8.5	M16 x 1	18.5	22.0	20	2.8	52.0	13.5	14.3	21.8
14 S	24.5	12.0	M20 x 1	22.3	25.0	23	3.3	52.0	13.5	14.5	28.8
16 S	27.2	14.5	M23 x 1	25.3	28.0	26	3.3	54.0	14.6	14.5	30.5
16	27.2	14.5	M23 x 1	25.3	28.0	26	3.3	63.0	14.6	19.1	30.5
18	30.7	17.5	M26 x 1	28.0	30.0	28	4.0	64.5	14.6	19.1	33.8
20	34.0	19.5	M30 x 1	32.3	34.5	32	4.0	64.5	14.6	19.1	36.9
22	37.3	22.0	M32 x 1	34.3	38.0	36	4.0	64.5	14.6	19.6	39.5
24	40.9	25.0	M36 x 1	38.3	41.0	39	4.0	66.0	14.6	20.6	43.9
28	46.7	29.0	M39 x 1	41.2	48.0	46	4.0	66.0	14.6	20.7	48.4
32	53.4	34.0	M45 x 1	48.3	54.0	52	4.0	67.5	14.6	22.3	56.0
36	59.6	38.5	M52 x 1	55.0	61.0	58	4.0	68.0	15.5	22.3	62.4
40	65.5	48.0	M59 x 1	62.0	68.0	65	4.0	68.0	15.5	22.3	68.6

**B**

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

# ITS 3101 A (ZLF) and ITS 4101 A (ZLF) In Line Cylindrical Receptacle Assembly with EMI/RFI Banding Backshell



### Application Notes:

1. In-line receptacle with rear-end backshell for attachment of BAND-IT® Shield termination bands
2. Connector/Backshell Class "A" (non-environmental)—Wire sealing grommet not supplied.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available.  
See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3101 A (ZLF) and ITS 4101 A (ZLF)**  
**In Line Cylindrical Receptacle Assembly**  
**with EMI/RFI Banding Backshell**



**TABLE I: DIMENSIONS**

SIZE	F (max)	G +0.2 -0	ØH +0 -0.1	S ±0.1		
<b>10SL</b>	54	14.3	18.2	<del>21.25</del>	21.8	3.2
<b>14S</b>	54	14.5	24.5	<del>28.38</del>	28.8	3.2
<b>16S</b>	54	14.5	27.2	<del>30.6</del>	30.5	3.2
<b>16</b>	66	19.1	27.2	<del>30.6</del>	30.5	3.2
<b>18</b>	66	19.1	30.7	<del>33.78</del>	33.8	3.2
<b>20</b>	67	19.1	34	<del>36.9</del>	36.9	3.2
<b>22</b>	67	19.6	37.3	<del>39.75</del>	39.5	3.2
<b>24</b>	70	20.6	40.9	<del>43.9</del>	43.9	3.7
<b>28</b>	70	20.7	46.7	<del>49.7</del>	48.4	3.7
<b>32</b>	71	22.3	53.4	<del>46.95</del>	56	4.3
<b>36</b>	71	22.3	59.6	<del>62.2</del>	62.4	4.3
<b>40</b>	71	22.3	65.5	<del>68.55</del>	68.6	4.3

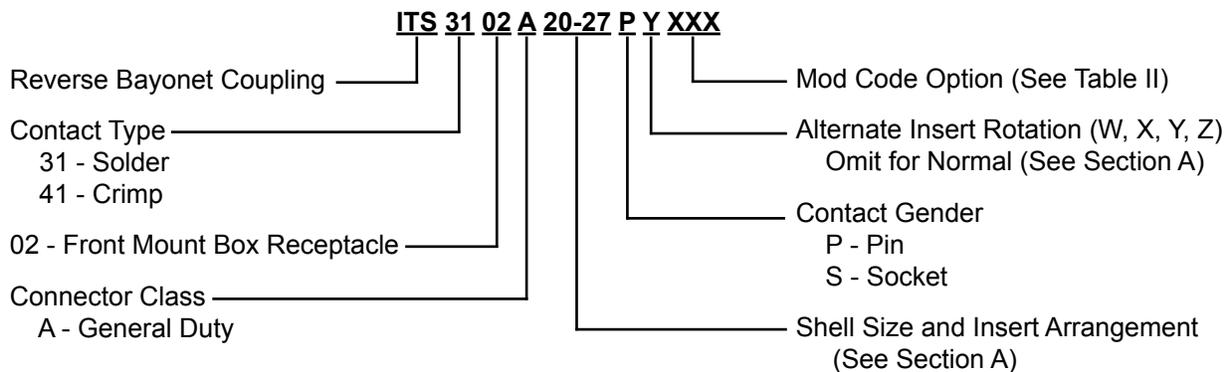
**TABLE III: ENTRY SIZE TABLE**

Entry size	ØK	ØL	ØM
01	3.2	6.4	7.9
02	4.8	7.9	9.5
03	6.4	9.5	11.1
04	7.9	11.1	12.7
05	9.5	12.7	14.3
06	11.1	14.3	15.8
07	12.7	15.9	17.4
08	14.3	17.5	19.1
09	15.9	19.1	20.6
10	17.5	20.6	22.2
11	19.1	22.2	23.8
12	20.6	23.8	25.4
13	22.2	25.4	27.0
14	23.8	27.0	28.5
15	25.4	28.6	30.1
16	27.0	30.2	31.8
17	28.6	31.8	33.3
18	31.8	34.9	36.5
19	34.9	38.1	39.7
20	38.1	41.3	42.8
21	41.3	44.5	46.0
22	44.5	47.6	49.2
23	47.6	50.8	52.4
24	50.8	54.0	55.5

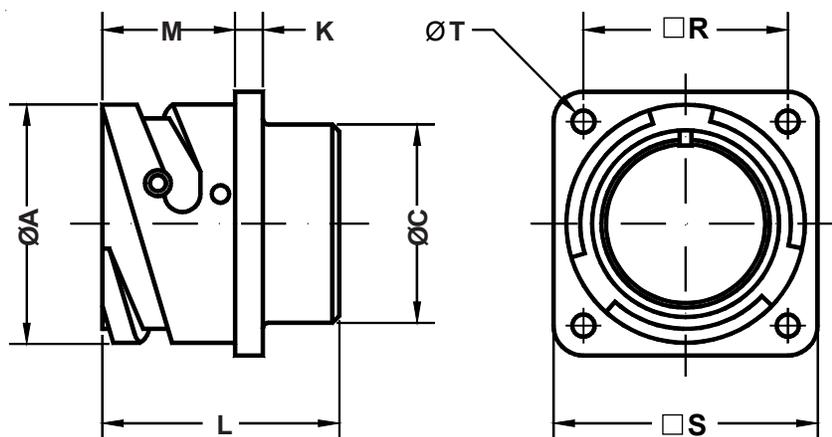
**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	





B



#### Application Notes:

1. Front panel mount square flange receptacle—No Accessory threads. Through mounting holes.
2. Connector Class “A” (General Duty).
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. Standard insert material is synthetic rubber.  
Add “FR” prefix to front of part number to specify fire resistant inserts.

**ITS 3102 (A) and ITS 4102 (A)**  
**Front Panel Mount Square Flange Receptacle**  
**No Accessory Threads**



**TABLE I: DIMENSIONS**

Shell Size	ØA +0 -0.1	ØC Max.	K ±0.2	L Max.	M +0.2 -0	R ±0.1	S +0.2	ØT +0.1 -0
10 SL	18.2	16.2	2.8	24.7	14.3	18.25	25.4	3.2
14 S	24.5	19.2	3.3	24.7	14.5	23.00	30.4	3.2
16 S	27.2	22.4	3.3	24.7	14.5	24.60	32.5	3.2
16	27.2	22.4	3.3	33.8	19.1	24.60	32.5	3.2
18	30.7	25.6	4.0	34.5	19.1	27.00	35.0	3.2
20	34.0	29.0	4.0	34.5	19.1	29.40	38.0	3.2
22	37.3	32.2	4.0	34.5	19.6	31.75	41.0	3.2
24	40.9	35.3	4.0	35.7	20.6	34.90	44.5	3.7
28	46.7	41.4	4.0	35.7	20.7	39.70	50.9	3.7
32	53.4	47.8	4.0	37.3	22.3	44.45	57.0	4.3
36	59.6	54.1	4.0	37.3	22.3	49.20	63.5	4.3
40	65.5	59.0	4.0	37.3	22.3	55.55	69.9	4.3

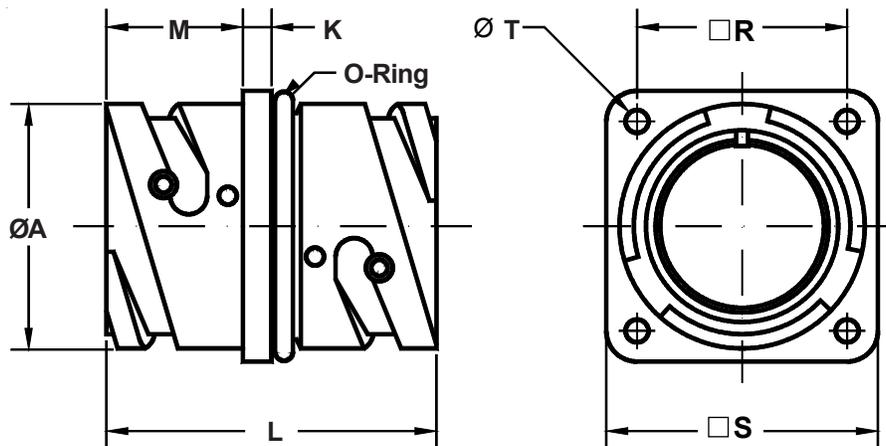
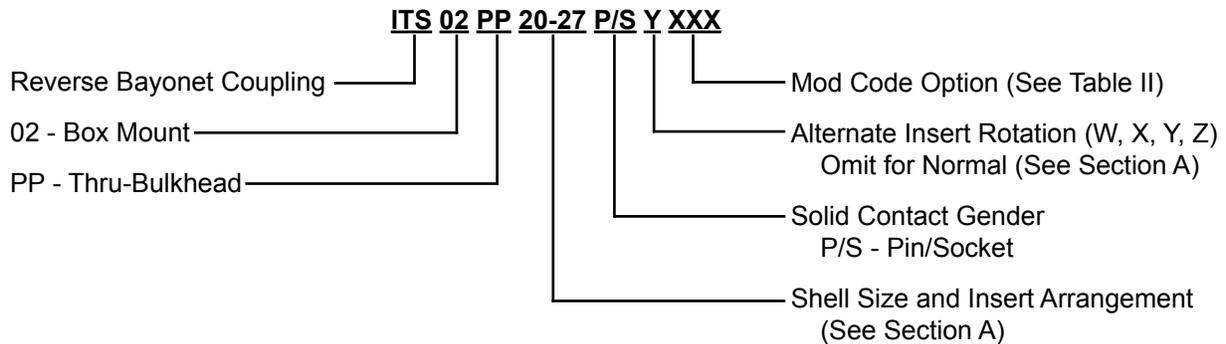


**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 02 PP

### Through Bulkhead Square Flange Receptacle Front Mount with "O"-Ring Seal



#### Application Notes:

1. Through Bulkhead Receptacle. Front mount square flange version. Connector features an o-ring mounting seal. Contacts are solid feedthrough style in a pin/socket configuration.
2. Threaded mounting holes.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 02 PP**  
**Through Bulkhead Square Flange Receptacle**  
**Front Mount with "O"-Ring Seal**



**TABLE I: DIMENSIONS**

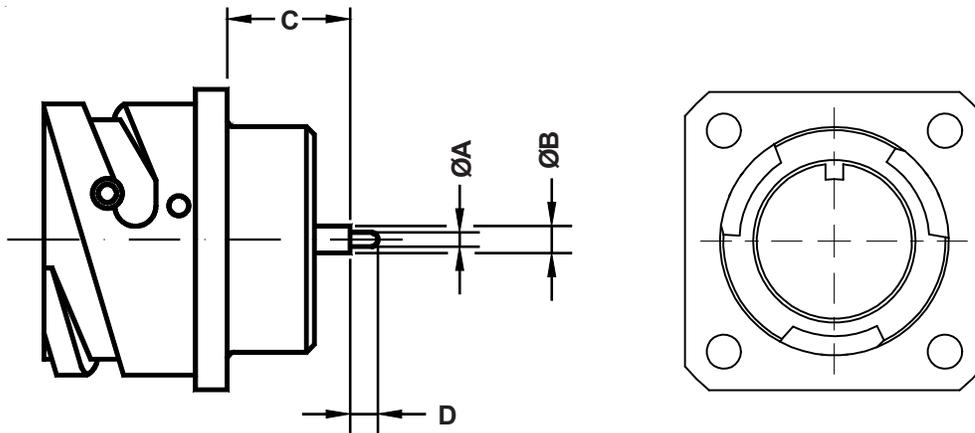
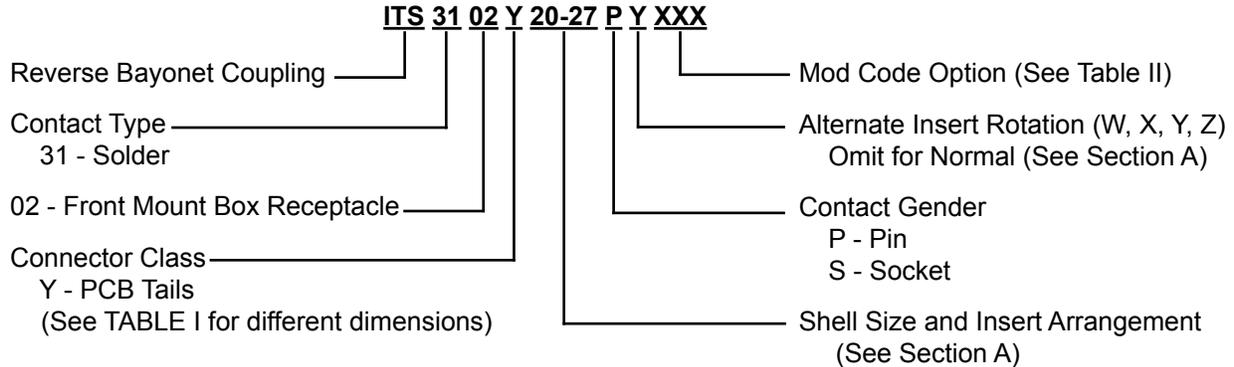
Shell Size	ØA +0 -0.1	K ±0.2	L ±0.3	M +0.2 -0	R ±0.1	S +0.2	T Thread
10 SL	18.2	2.8	37.5	14.3	18.25	25.4	M4
14 S	24.5	3.3	37.5	14.5	23.00	30.4	M4
16 S	27.2	3.3	37.5	14.5	24.60	32.5	M4
16	27.2	3.3	50.6	19.1	24.60	32.5	M4
18	30.7	4.0	51.4	19.1	27.00	35.0	M4
20	34.0	4.0	51.4	19.1	29.40	38.0	M4
22	37.3	4.0	51.4	19.6	31.75	41.0	M4
24	40.9	4.0	51.4	20.6	34.90	44.5	M4
28	46.7	4.0	51.4	20.7	39.70	50.9	M5
32	53.4	4.0	51.4	22.3	44.45	57.0	M5
36	59.6	4.0	51.4	22.3	49.20	63.5	M5
40	65.5	4.0	51.4	22.3	55.55	69.9	M5

**B**

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

# ITS 3102 (Y) Front Panel Mount Square Flange Receptacle with PCB Contacts No Accessory Threads



### Application Notes:

1. Front panel mount square flange receptacle with PCB contacts and no accessory threads. Contact factory for custom tail lengths.
2. Through mounting holes.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3102 (Y)**  
**Front Panel Mount Square Flange Receptacle**  
**with PCB Contacts**  
**No Accessory Threads**



**TABLE I: Y SIZE 16 AND 12 CONTACTS**

Shell size	Y#12				Y#16			
	A	B	C	D	A	B	C	D
10 SL	-	-	-	-	-	-	-	-
14 S	-	-	-	-	-	-	-	-
16 S	-	-	-	-	-	-	-	-
16	1.8	3.4	17.85	3.5	0.8	1.8	17.85	3.5
18	1.8	3.4	17.05	3.5	0.8	1.8	17.05	3.5
20	1.8	3.4	17.05	3.5	0.8	1.8	17.05	3.5
22	1.8	3.4	16.55	3.5	0.8	1.8	16.55	3.5
24	1.8	3.4	15.45	3.5	0.8	1.8	15.45	3.5
28	1.8	3.4	16.25	3.5	0.8	1.8	16.25	3.5
32	1.8	3.4	13.85	3.5	0.8	1.8	13.85	3.5
36	1.8	3.4	13.85	3.5	0.8	1.8	13.85	3.5
40	1.8	3.4	13.85	3.5	0.8	1.8	13.85	3.5

Please consult the factory for different PCB tail lengths

**TABLE II: OTHER CONTACTS - SIZE 16 ONLY**

Shell size	DS1				YL5				YL7			
	A	B	C	D	A	B	C	D	A	B	C	D
10 SL	0.8	1.8	13.80	3.6	-	-	-	-	-	-	-	-
14 S	0.8	1.8	12.40	3.6	-	-	-	-	-	-	-	-
16 S	0.8	1.8	12.40	3.6	-	-	-	-	-	-	-	-
16	0.8	1.8	14.60	3.6	0.8	1.8	17.85	5.0	0.8	1.8	14.35	7.0
18	0.8	1.8	13.80	3.6	0.8	1.8	17.05	5.0	0.8	1.8	13.55	7.0
20	0.8	1.8	13.80	3.6	0.8	1.8	17.05	5.0	0.8	1.8	13.55	7.0
22	0.8	1.8	13.30	3.6	0.8	1.8	17.05	5.0	0.8	1.8	13.55	7.0
24	0.8	1.8	12.20	3.6	0.8	1.8	15.40	5.0	0.8	1.8	11.9	7.0
28	0.8	1.8	13.00	3.6	0.8	1.8	15.40	5.0	0.8	1.8	11.9	7.0
32	-	-	-	-	0.8	1.8	16.70	5.0	-	-	-	-
36	-	-	-	-	0.8	1.8	16.70	5.0	-	-	-	-
40	-	-	-	-	0.8	1.8	16.70	5.0	-	-	-	-

**TABLE III: FINISH OPTIONS**

Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
	<b>Omit for standard version (Cadmium Olive Drab Finish)</b>

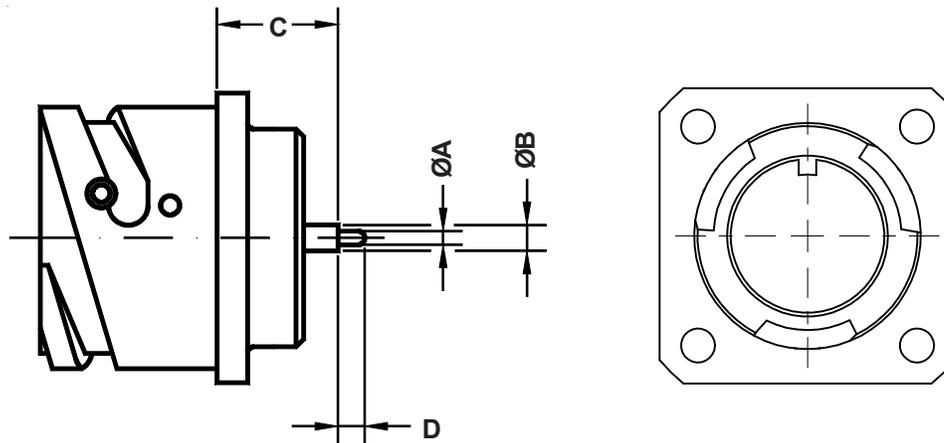
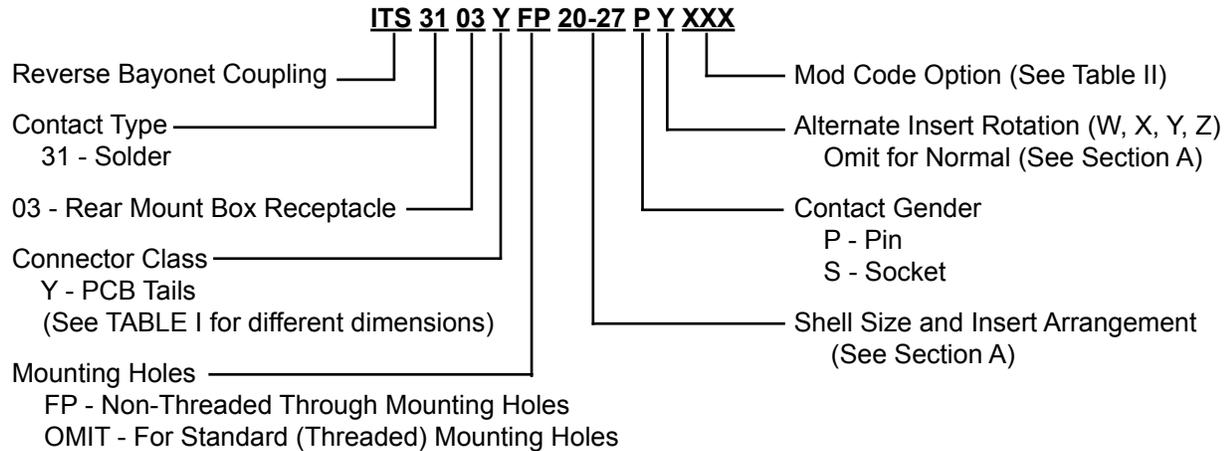
**TABLE IV: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B1	Connector with Gold Plated Contacts
	<b>Omit for standard version (Silver plated)</b>



## ITS 3103 (Y)

### Rear Panel Mount Square Flange Receptacle with PCB Contacts No Accessory Threads



#### Application Notes:

1. Rear panel mount square flange receptacle with PCB contacts—no accessory threads. Threaded mounting holes standard. Optional non-threaded through mounting holes available. Contact factory for custom tail lengths.
2. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
3. Standard contact material consists of copper alloy with silver plating or gold plating.
4. A broad range of other front and rear connector accessories are available. See our website and/or contact the factory for complete information.

**ITS 3103 (Y)**  
**Rear Panel Mount Square Flange Receptacle**  
**with PCB Contacts**  
**No Accessory Threads**



**TABLE I: Y SIZE 16 AND 12 CONTACTS**

Shell size	Y#12				Y#16			
	A	B	C	D	A	B	C	D
10 SL	-	-	-	-	-	-	-	-
14 S	-	-	-	-	-	-	-	-
16 S	-	-	-	-	-	-	-	-
16	1.8	3.4	16.85	3.5	0.8	1.8	16.85	3.5
18	1.8	3.4	16.85	3.5	0.8	1.8	16.85	3.5
20	1.8	3.4	16.85	3.5	0.8	1.8	16.85	3.5
22	1.8	3.4	16.85	3.5	0.8	1.8	16.85	3.5
24	1.8	3.4	16.85	3.5	0.8	1.8	16.85	3.5
28	1.8	3.4	16.55	3.5	0.8	1.8	16.55	3.5
32	1.8	3.4	15.95	3.5	0.8	1.8	15.95	3.5
36	1.8	3.4	15.95	3.5	0.8	1.8	15.95	3.5
40	1.8	3.4	15.75	3.5	0.8	1.8	15.75	3.5

Please consult the factory for different PCB tail lengths

**TABLE II: OTHER CONTACTS - SIZE 16 ONLY**

Shell size	DS1				YL5				YL7			
	A	B	C	D	A	B	C	D	A	B	C	D
10 SL	0.8	1.8	12.40	3.6	-	-	-	-	-	-	-	-
14 S	0.8	1.8	11.70	3.6	-	-	-	-	-	-	-	-
16 S	0.8	1.8	11.70	3.6	-	-	-	-	-	-	-	-
16	0.8	1.8	13.60	3.6	0.8	1.8	16.85	5.0	0.8	1.8	13.35	7.0
18	0.8	1.8	13.60	3.6	0.8	1.8	16.85	5.0	0.8	1.8	13.35	7.0
20	0.8	1.8	13.60	3.6	0.8	1.8	16.85	5.0	0.8	1.8	13.35	7.0
22	0.8	1.8	13.60	3.6	0.8	1.8	16.85	5.0	0.8	1.8	13.35	7.0
24	0.8	1.8	13.60	3.6	0.8	1.8	16.85	5.0	0.8	1.8	13.35	7.0
28	0.8	1.8	13.30	3.6	0.8	1.8	15.75	5.0	0.8	1.8	12.25	7.0
32	-	-	-	-	0.8	1.8	18.80	5.0	-	-	-	-
36	-	-	-	-	0.8	1.8	18.80	5.0	-	-	-	-
40	-	-	-	-	0.8	1.8	18.80	5.0	-	-	-	-

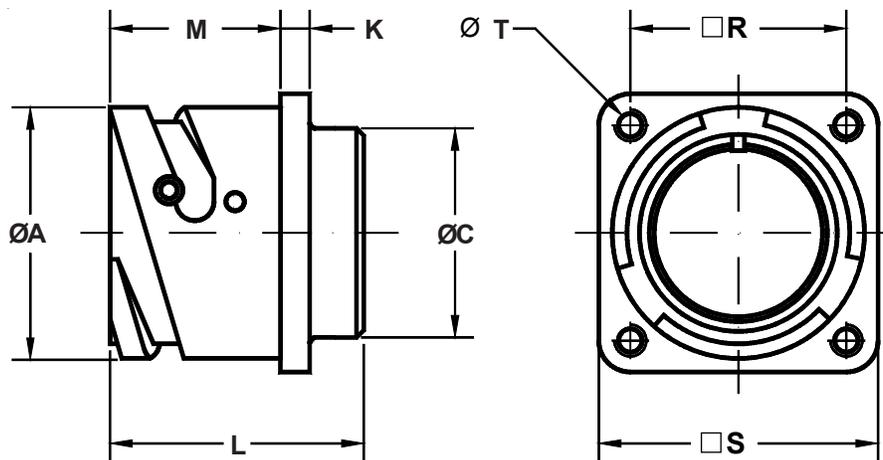
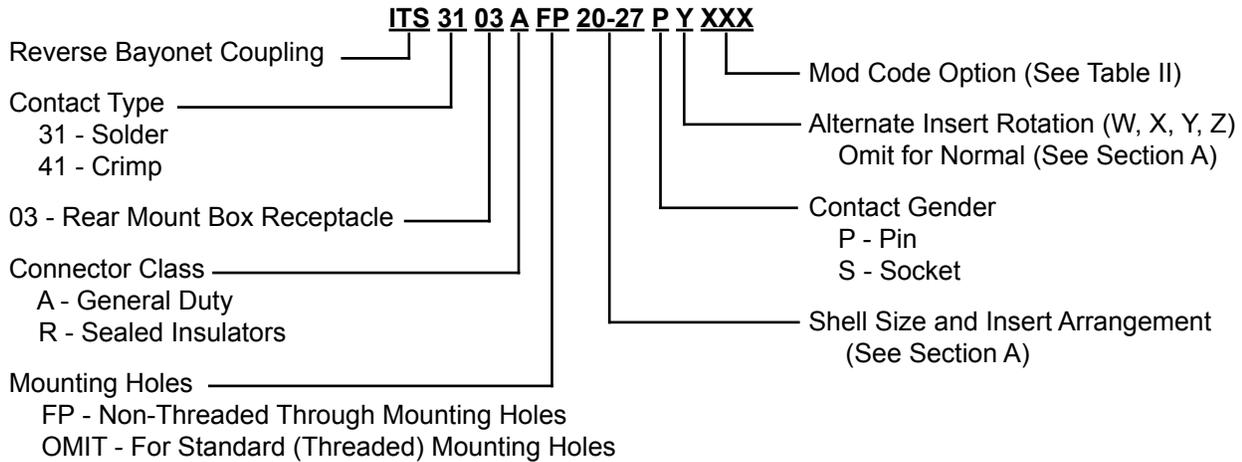
**TABLE III: FINISH OPTIONS**

Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
	<b>Omit for standard version (Cadmium Olive Drab Finish)</b>

**TABLE IV: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B1	Connector with Gold Plated Contacts
	<b>Omit for standard version (Silver plated)</b>





#### Application Notes:

1. Rear panel mount square flange receptacle—no accessory threads. Threaded mounting holes standard. Optional non-threaded through mounting holes.
2. Connector Class "A" (general duty).  
Connector Class "R" (environmental). Sealed insulator.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3103 (A), ITS 3103 (R),  
ITS 4103 (A), and ITS 4103 (R)  
Rear Panel Mount Square Flange Receptacle  
No Accessory Threads**



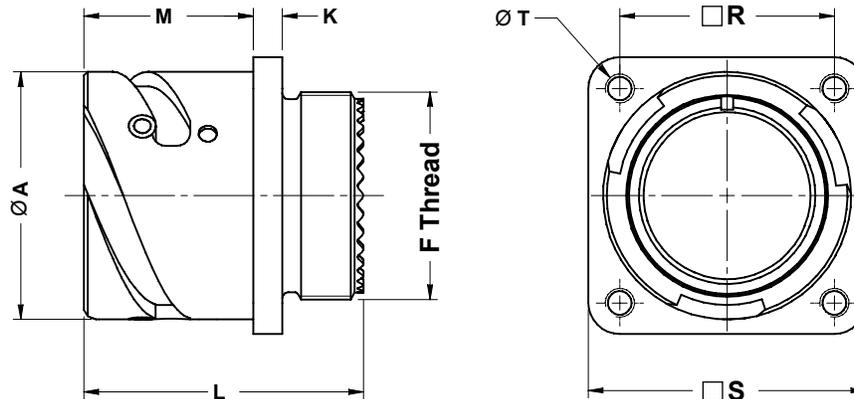
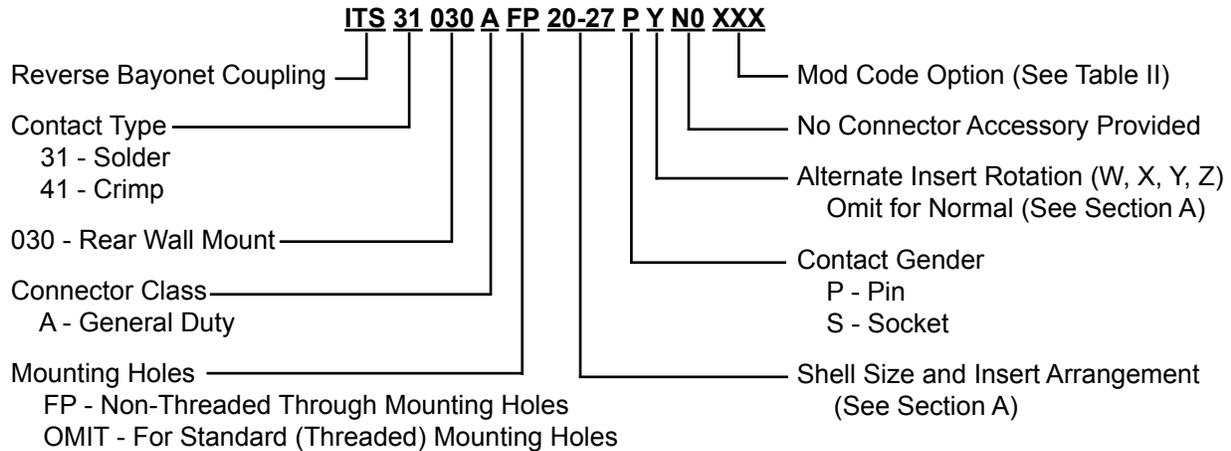
**TABLE I: DIMENSIONS**

Shell Size	ØA +0 -0.1	ØC Max.	K ±0.2	L Max.	M +0.2 -0	R ±0.1	S +0.2	T Thread
10 SL	18.2	16.2	2.8	24.7	18.5	18.25	25.4	M4
14 S	24.5	19.2	3.3	24.7	18.5	23.00	30.4	M4
16 S	27.2	22.4	3.3	24.7	18.5	24.60	32.5	M4
16	27.2	22.4	3.3	33.8	23.2	24.60	32.5	M4
18	30.7	25.6	4.0	34.2	23.2	27.00	35.0	M4
20	34.0	29.0	4.0	34.5	23.2	29.40	38.0	M4
22	37.3	32.2	4.0	33.8	23.2	31.75	41.0	M4
24	40.9	35.3	4.0	34.5	23.2	34.90	44.5	M4
28	46.7	41.4	4.0	34.5	24.4	39.70	50.9	M5
32	53.4	47.8	4.0	33.8	24.2	44.45	57.0	M5
36	59.6	54.1	4.0	33.8	24.2	49.20	63.5	M5
40	65.5	59.0	4.0	33.8	24.4	55.55	69.9	M5

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

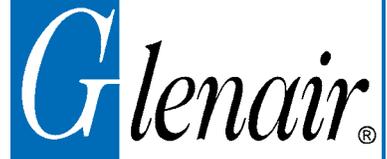
## ITS 31030 A (N0) and ITS 41030 A (N0) Rear Panel Mount Square Flange Receptacle with Backend Connector Accessory Mounting Threads



### Application Notes:

1. Rear panel mount square flange receptacle with rear threads for attachment of various backend connector accessories. Threaded mounting holes standard. Optional non-threaded through mounting holes available.
2. Connector Class "A" (general duty).
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 31030 A (N0) and ITS 41030 A (N0)  
Rear Panel Mount Square Flange Receptacle  
with Backend Connector Accessory Mounting Threads**



**TABLE I: DIMENSIONS**

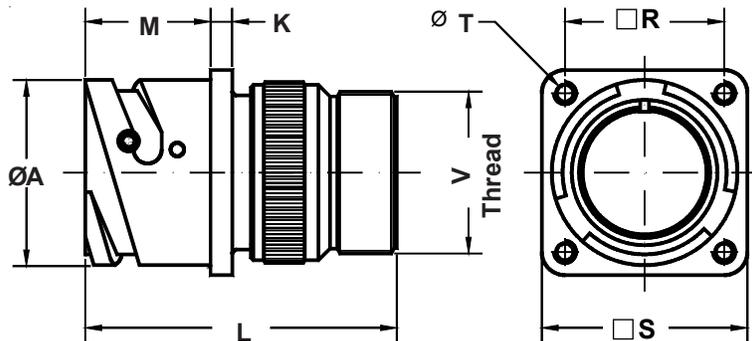
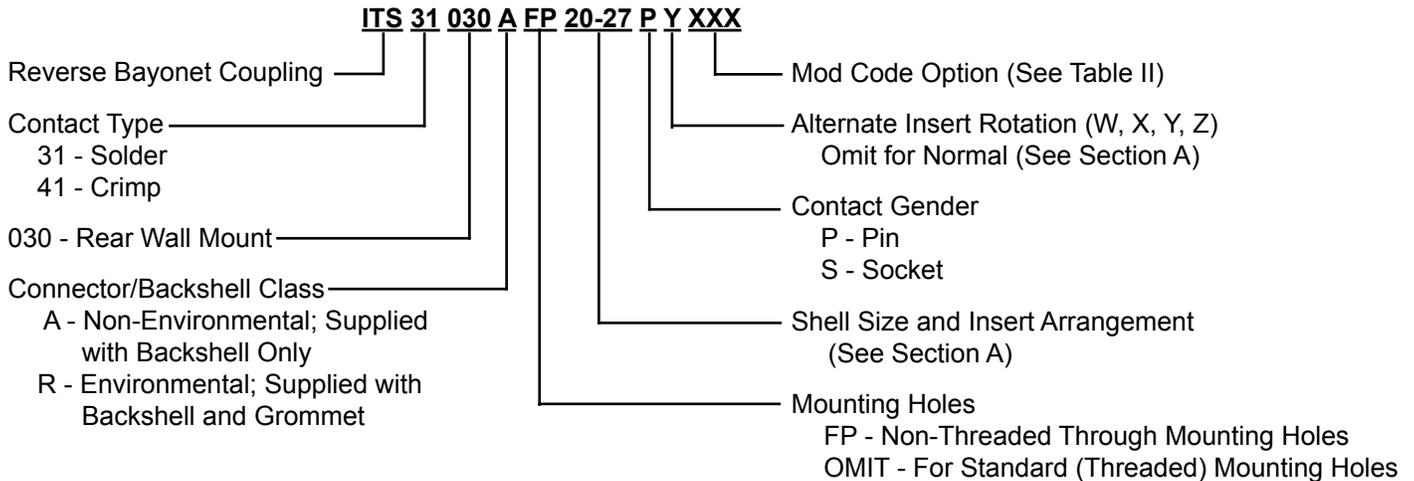
Shell Size	ØA +0 -0.1	K ±0.2	L Max.	M +0.2 -0	R ±0.1	S +0.2	T thread	F thread
<b>10 SL</b>	18.2	2.8	30.1	18.5	18.25	25.4	M4	0.6250 - 24UNEF
<b>14 S</b>	24.5	3.3	30.2	18.5	23.00	30.4	M4	0.7500 - 20UNEF
<b>16 S</b>	27.2	3.3	30.1	18.5	24.60	32.5	M4	0.8750 - 20UNEF
<b>16</b>	27.2	3.3	37.1	23.2	24.60	32.5	M4	0.8750 - 20UNEF
<b>18</b>	30.7	4.0	36.1	23.2	27.00	35.0	M4	1.0000 - 20UNEF
<b>20</b>	34.0	4.0	38.4	23.2	29.40	38.0	M4	1.1250 - 18UNEF
<b>22</b>	37.3	4.0	37.1	23.2	31.75	41.0	M4	1.2500 - 18UNEF
<b>24</b>	40.9	4.0	37.1	23.2	34.90	44.5	M4	1.3750 - 18UNEF
<b>28</b>	46.7	4.0	39.6	24.4	39.70	50.9	M5	1.6250 - 18UNEF
<b>32</b>	53.4	4.0	39.6	24.2	44.45	57.0	M5	1.8750 - 16UN
<b>36</b>	59.6	4.0	39.6	24.2	49.20	63.5	M5	2.0625 - 16UN
<b>40</b>	65.5	4.0	39.6	24.4	55.55	69.9	M5	2.3125 - 16UN

**TABLE II: MODIFICATION CODES**

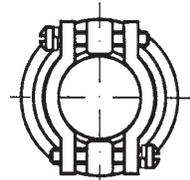
<b>CONTACT OPTIONS</b>	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
<b>Omit for standard version (Silver plated)</b>	
<b>FINISH OPTIONS</b>	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
<b>Omit for standard version (Cadmium Olive Drab Finish)</b>	

## ITS 31030 (A) and ITS 41030 (R)

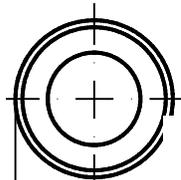
### Rear Panel Mount Square Flange Receptacle Assembly with Backshell for the Attachment of Additional Accessories



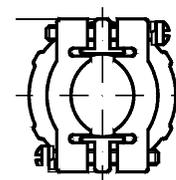
Order Cable Clamps and Sleeves Separately or Use Mod Codes (Table II) to Add Clamp to This Assembly.



**IT 3057 C  
Cable Clamp**



**IT 3420  
Neoprene Sleeve**



**IT 3057 A  
Cable Clamp**

#### Application Notes:

1. Rear panel mount square flange receptacle assembly with backshell for the attachment of strain relieving cable clamps or other accessories. Threaded mounting holes standard. Optional non-threaded holes available.
2. Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet; Class "R" (environmental)—Supplied with backshell and grommet.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 31030 (A) and ITS 41030 (R)**  
**Rear Panel Mount Square Flange Receptacle Assembly**  
**with Backshell for the Attachment of Additional Accessories**



**TABLE I: DIMENSIONS**

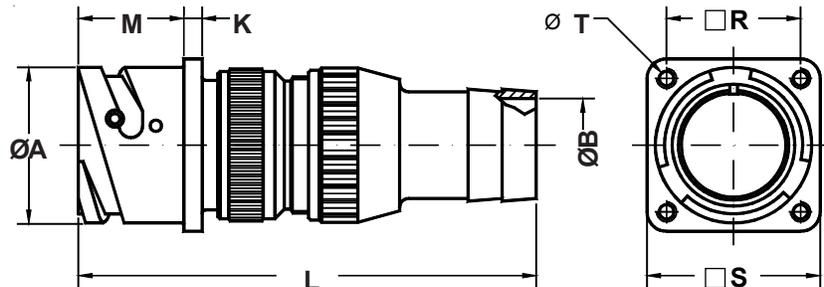
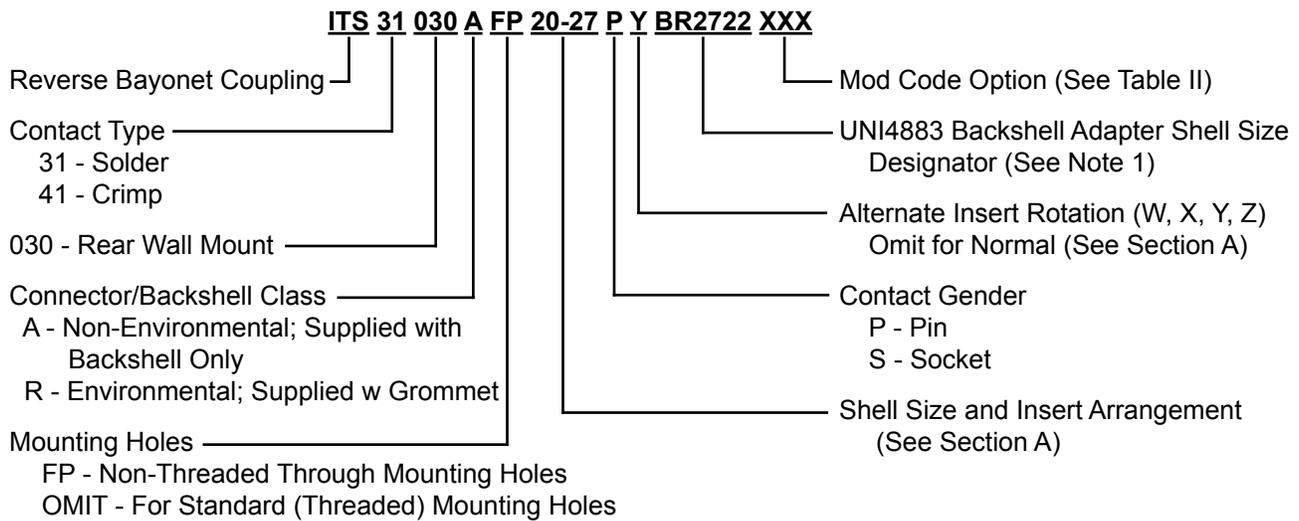
Shell Size	ØA +0 -0.1	K ±0.2	L Max.	M +0.2 -0	R ±0.1	S +0.2	T Thread	V Thread
<b>10 SL</b>	18.2	2.8	49.0	18.5	18.25	25.4	M4	0.6250 - 24UNEF
<b>14 S</b>	24.5	3.3	51.5	18.5	23.00	30.4	M4	0.7500 - 20UNEF
<b>16 S</b>	27.2	3.3	51.5	18.5	24.60	32.5	M4	0.8750 - 20UNEF
<b>16</b>	27.2	3.3	63.0	23.2	24.60	32.5	M4	0.8750 - 20UNEF
<b>18</b>	30.7	4.0	63.0	23.2	27.00	35.0	M4	1.0000 - 20UNEF
<b>20</b>	34.0	4.0	63.0	23.2	29.40	38.0	M4	1.1875 - 18UNEF
<b>22</b>	37.3	4.0	63.0	23.2	31.75	41.0	M4	1.1875 - 18UNEF
<b>24</b>	40.9	4.0	64.5	23.2	34.90	44.5	M4	1.4375 - 18UNEF
<b>28</b>	46.7	4.0	71.0	24.4	39.70	50.9	M5	1.4375 - 18UNEF
<b>32</b>	53.4	4.0	76.5	24.2	44.45	57.0	M5	1.7500 - 18UNS
<b>36</b>	59.6	4.0	82.0	24.2	49.20	63.5	M5	2.0000 - 18UNS
<b>40</b>	65.5	4.0	82.0	24.4	55.55	69.9	M5	2.2500 - 16UN

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS		ACCESSORY OPTIONS	
Sym	Description		
B0	Connector Less Contacts	N1	Connector with IT 3057 A cable clamp
B1	Connector with Gold Plated Contacts	N2	Connector with long backshell
Omit for standard version (Silver plated)		N5	Connector with IT 3057 C cable clamp
FINISH OPTIONS		N12	Connector with IT 3057 A cable clamp and IT 3420 neoprene sleeve
Omit for standard version (Cadmium Olive Drab Finish)		Omit for standard version	
Sym	Description and RoHS compliant (*)		
F2	Bright Nickel Plating (*)		
F6	Black Electrodeposited Paint (*)		
F7	Black Zn-Co Plating (*)		
F8	Olive Drab Zn-Co Plating		
F11	Electroless Nickel (*)		

## ITS 31030 A (BR) and ITS 41030 A (BR)

### Rear Panel Mount Square Flange Receptacle Assembly with Backshell for Termination of UNI4883 Rubber Conduit



**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	

FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

#### Application Notes:

- Rear panel mount square flange receptacle with backshell for termination of UNI4883 type rubber conduit. Threaded mounting holes standard. Optional non-threaded mounting holes available.
- Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet; Class "R" (environmental)—Supplied with backshell and grommet.
- Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
- Standard contact material consists of copper alloy with silver plating or gold plating.
- A broad range of other front and rear connector accessories are available. See our website and/or contact the factory for complete information.
- Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 31030 A (BR) and ITS 41030 A (BR)**  
**Rear Panel Mount Square Flange Receptacle Assembly**  
**with Backshell for Termination of UNI4883 Rubber Conduit**



**TABLE I: DIMENSIONS**

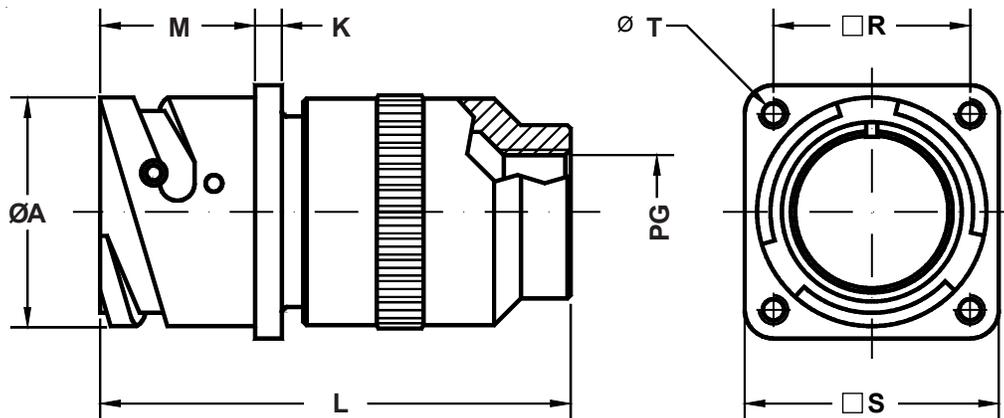
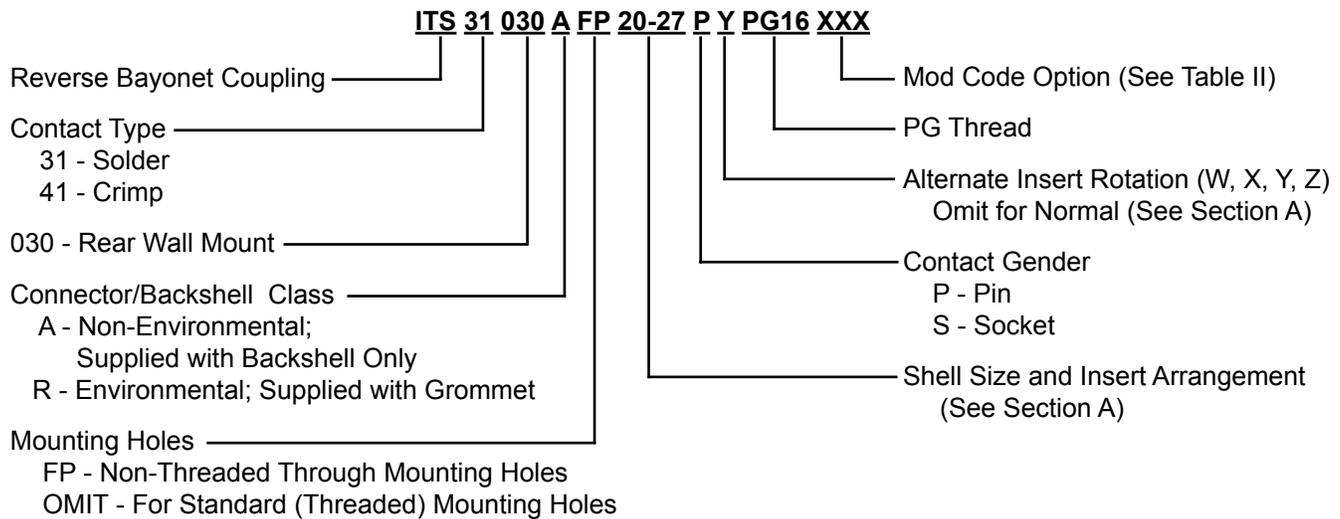
Shell Size	ØA +0 -0.1	ØB ±0.1	K ±0.2	L Max.	M +0.2 -0	R ±0.1	S +0.2	T Thread
10 SL	18.2	See Table III Below	2.8	95.0	18.5	18.25	25.4	M4
14 S	24.5		3.3	96.5	18.5	23.00	30.4	M4
16 S	27.2		3.3	96.5	18.5	24.60	32.5	M4
16	27.2		3.3	108.0	23.2	24.60	32.5	M4
18	30.7		4.0	108.0	23.2	27.00	35.0	M4
20	34.0		4.0	108.0	23.2	29.40	38.0	M4
22	37.3		4.0	108.0	23.2	31.75	41.0	M4
24	40.9		4.0	109.5	23.2	34.90	44.5	M4
28	46.7		4.0	116.0	24.4	39.70	50.9	M5
32	53.4		4.0	121.5	24.2	44.45	57.0	M5
36	59.6		4.0	127.0	24.2	49.20	63.5	M5
40	65.5		4.0	127.0	24.4	55.55	69.9	M5

**TABLE III: BACKSHELL DIMENSIONS**

Shell Size	Rubber tube in accordance with UNI 4883 to be used by size:		ØB ±0.1	ØQ ±0.2	
	Ø Min	Ø Max			
10SL	12.0	17.0	10.5		
18	22.0	27.0	20.5		
20 - 22	12.0	17.0	10.5		
20 - 22	22.0	27.0	20.5		
20 - 22	28.0	33.0	31.5		
24 - 28	20.0	25.0	16.5		
24 - 28	22.0	27.0	20.5		
24 - 28	26.0	31.0	22.5		
24 - 28	28.0	33.0	26.5		
24 - 28	30.0	35.0	26.5		
24 - 28	33.0	38.0	31.5		
24 - 28	45.0	50.0	36.2	24.5	53.0
32	26.0	31.0	24.5	26.5	53.0
32	28.0	33.0	26.5	31.5	53.0
32	33.0	38.0	31.5	31.5	53.0
32	35.0	40.0	31.5	40.0	53.0
32	45.0	50.0	40.0	26.5	57.4
36	30.0	35.0	26.5	31.5	57.4
36	33.0	38.0	31.5	31.5	57.4
36	35.0	40.0	31.5	43.5	57.4
36	45.0	50.0	43.5		
40	36.0	41.0	31.5		
40	40.0	45.0	38.5		
40	45.0	50.0	43.5		
40	50.0	55.0	48.5		



## ITS 31030 A (PG) and ITS 41030 A (PG) Rear Panel Mount Square Flange Receptacle Assembly with Backshell for Attachment of PG Cable Glands



### Notes:

1. Rear panel mount square flange receptacle assembly with backshell for use with PG cable glands (not included). Other types of PG backshells can be supplied in various sizes and angles upon request. Threaded mounting holes standard. Optional non-threaded mounting holes available.
2. Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet; Class "R" (environmental)—Supplied with backshell and grommet.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. Other types of front and rear connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 31030 A (PG) and ITS 41030 A (PG)**  
**Rear Panel Mount Square Flange Receptacle Assembly**  
**with Backshell for Attachment of PG Cable Glands**



**TABLE I: DIMENSIONS**

Shell Size	ØA +0 -0.1	K ±0.2	L Max.	M +0.2 -0	PG Thread	R ±0.1	S +0.2	T Thread
10 SL	18.2	2.8	55.0	18.5	7 / 9 / 11	18.25	25.4	M4
14 S	24.5	3.3	57.5	18.5	11 / 13.5	23.00	30.4	M4
16 S	27.2	3.3	57.5	18.5	9 / 11 / 16	24.60	32.5	M4
16	27.2	3.3	66.0	23.2	9 / 11 / 16	24.60	32.5	M4
18	30.7	4.0	71.5	23.2	9 / 11 / 16 / 21	27.00	35.0	M4
20	34.0	4.0	74.5	23.2	11 / 16 / 21	29.40	38.0	M4
22	37.3	4.0	74.5	23.2	13.5 / 16 / 21	31.75	41.0	M4
24	40.9	4.0	76.5	23.2	13.5 / 16 / 21 / 29	34.90	44.5	M4
28	46.7	4.0	81.5	24.4	16 / 21 / 29	39.70	50.9	M5
32	53.4	4.0	87.5	24.2	21 / 29	44.45	57.0	M5
36	59.6	4.0	92.5	24.2	21 / 29 / 36	49.20	63.5	M5
40	65.5	4.0	97.5	24.4	29 / 36	55.55	69.9	M5

B

**TABLE II: MODIFICATION CODES**

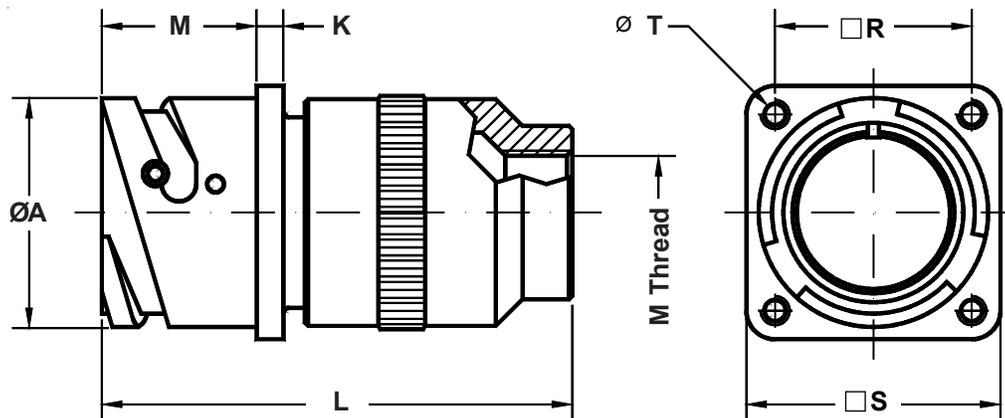
CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 31030 A (M) and ITS 41030 A (M)

### Rear Panel Mount Square Flange Receptacle Assembly with Backshell for Use with Metric Cable Glands

**ITS 31 030 A FP 20-27 P Y M25 XXX**

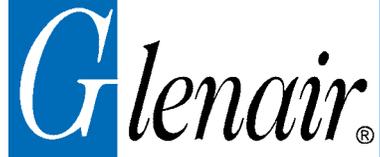
Reverse Bayonet Coupling	Mod Code Option (See Table II)
Contact Type 31 - Solder 41 - Crimp	Metric Thread
030 - Rear Wall Mount	Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
Connector/Backshell Class A - Non-Environmental; Supplied with Backshell Only R - Environmental; Supplied with Grommet	Contact Gender P - Pin S - Socket
Mounting Holes FP - Non-Threaded Through Mounting Holes OMIT - For Standard (Threaded) Mounting Holes	Shell Size and Insert Arrangement (See Section A)



#### Application Notes:

1. Rear panel mount square flange receptacle with backshell for the attachment of metric thread cable glands. Metric cable glands not included. Threaded mounting holes standard. Optional non-threaded mounting holes available.
2. Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet;  
Class "R" (environmental)—Supplied with backshell and grommet.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of metric connector accessories are available.  
See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 31030 A (M) and ITS 41030 A (M)**  
**Rear Panel Mount Square Flange Receptacle Assembly**  
**with Backshell for Use with Metric Cable Glands**



**TABLE I: DIMENSIONS**

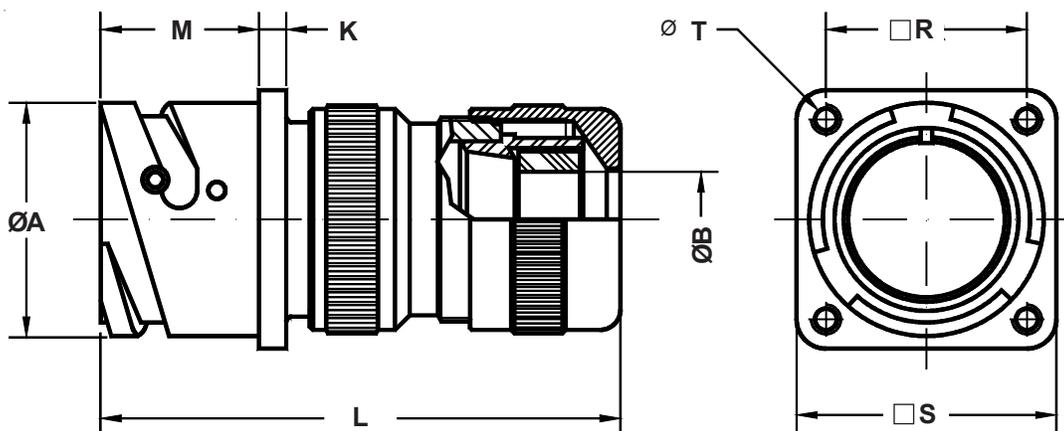
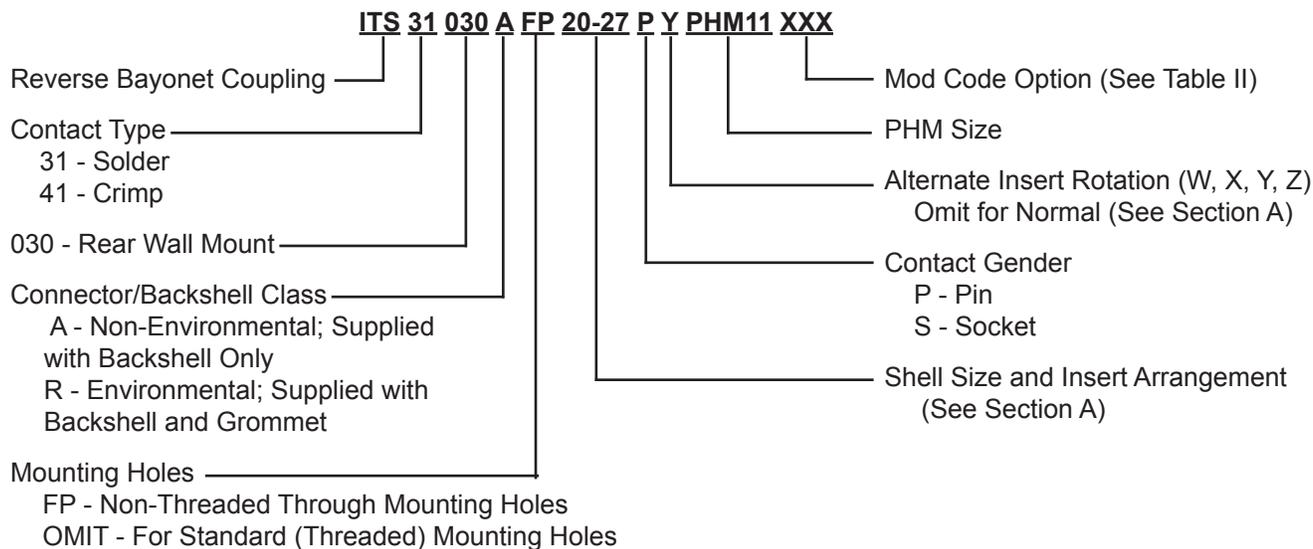
Shell Size	ØA +0 -0.1	C Max.	K ±0.2	L Max.	M +0.2 -0	M Thread Other M Threads available on request	R ±0.1	S +0.2	T Thread
<b>10 SL</b>	18.2	55.0	2.8	81.0	18.5	M12x1,5	18.25	25.4	M4
<b>14 S</b>	24.5	57.5	3.3	86.5	18.5	M16x1,5	23.00	30.4	M4
<b>16 S</b>	27.2	57.5	3.3	88.5	18.5	M16x1,5	24.60	32.5	M4
<b>16</b>	27.2	66.0	3.3	97.0	23.2	M16x1,5	24.60	32.5	M4
<b>18</b>	30.7	71.5	4.0	106.5	23.2	M20x1,5	27.00	35.0	M4
<b>20</b>	34.0	74.5	4.0	109.5	23.2	M25x1,5	29.40	38.0	M4
<b>22</b>	37.3	74.5	4.0	109.5	23.2	M25x1,5	31.75	41.0	M4
<b>24</b>	40.9	76.5	4.0	115.5	23.2	M32x1,5	34.90	44.5	M4
<b>28</b>	46.7	81.5	4.0	120.5	24.4	M32x1,5	39.70	50.9	M5
<b>32</b>	53.4	87.5	4.0	126.5	24.2	M36x1,5	44.45	57.0	M5
<b>36</b>	59.6	92.5	4.0	141.5	24.2	M40x1,5	49.20	63.5	M5
<b>40</b>	65.5	97.5	4.0	145.5	24.4	M48x1,5	55.55	69.9	M5

**B**

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 31030 A (PHM) and ITS 41030 A (PHM) Rear Panel Mount Square Flange Receptacle Assembly with Environmental PHM Backshell



### Application Notes:

1. Rear panel mount square flange receptacle with a PHM backshell. Threaded mounting holes. Optional non-threaded mounting holes available.
2. Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet; Class "R" (environmental)—Supplied with backshell and grommet.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating available.
5. A broad range of metric connector accessories are available.  
See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 31030 A (PHM) and ITS 41030 A (PHM)  
Rear Panel Mount Square Flange Receptacle Assembly  
with Environmental PHM Cable Clamp**



**TABLE I: DIMENSIONS**

Shell Size	PHM Size	ØA +0 -0.1	ØB min. – Max.	K ±0.2	L Max.	M +0.2 -0	R ±0.1	S +0.2	T Thread
10 SL	9	18.2	2-9	2.8	65	18.5	18.25	25.4	M4
14 S	11	24.5	2-11	3.3	65	18.5	23.00	30.4	M4
16 S	11	27.2	2-11	3.3	65	18.5	24.60	32.5	M4
16	11	27.2	2-11	3.3	75	23.2	24.60	32.5	M4
18	11 / 18	30.7	2-11 / 2-16.5	4.0	75	23.2	27.00	35.0	M4
20	11 / 18	34.0	2-11 / 2-16.5	4.0	75	23.2	29.40	38.0	M4
22	18	37.3	2-16.5	4.0	75	23.2	31.75	41.0	M4
24	18 / 22 / 24	40.9	2-16.5 / 15-20 / 19-24	4.0	85	23.2	34.90	44.5	M4
28	18 / 22 / 24	46.7	2-16.5 / 15-20 / 19-24	4.0	85	24.4	39.70	50.9	M5
32	22 / 24	53.4	15-20 / 19-24	4.0	85	24.2	44.45	57.0	M5
36	35	59.6	23-35	4.0	100	24.2	49.20	63.5	M5
40	35	65.5	23-35	4.0	100	24.4	55.55	69.9	M5

B

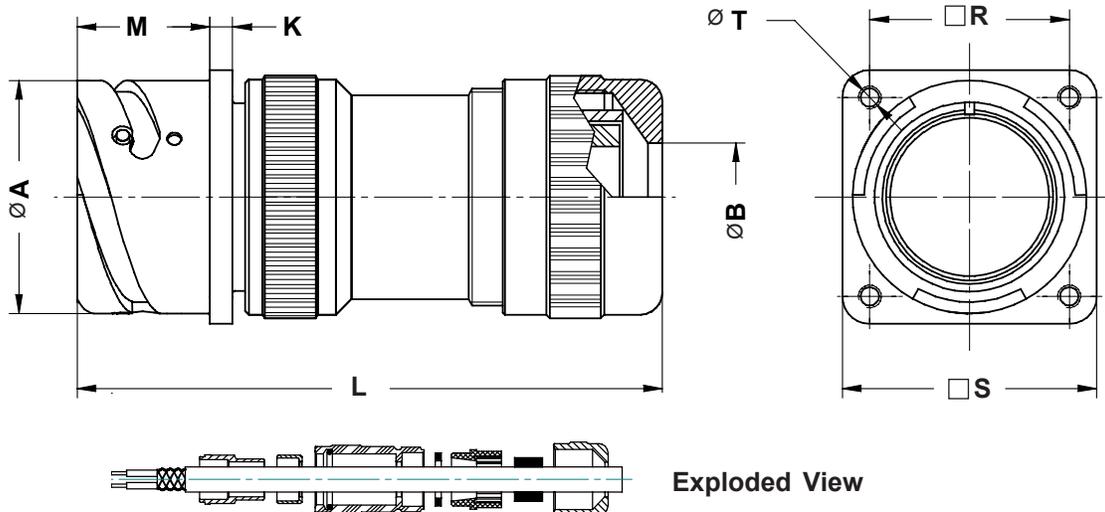
**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 31030 A (PHM-EMI67) and ITS 41030 A (PHM-EMI67) Rear Panel Mount Square Flange Receptacle Assembly with EMI/RFI and Environmental PHM Cable Clamp

**ITS 31 030 A FP 20-27 P Y PHM11EM167 XXX**

Reverse Bayonet Coupling	Mod Code Option (See Table II)
Contact Type 31 - Solder 41 - Crimp	PHM Size
030 - Rear Wall Mount	Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
Connector/Backshell Class A - Non-Environmental; Supplied with Backshell Only	Contact Gender P - Pin S - Socket
Mounting Holes FP - Non-Threaded Through Mounting Holes OMIT - For Standard (Threaded) Mounting Holes	Shell Size and Insert Arrangement (See Section A)



**Exploded View**

### Application Notes:

1. Rear panel mount square flange receptacle with an EMI/RFI PHM backshell. Threaded mounting holes. Optional non-threaded mounting holes available.
2. Connector/Backshell Class "A" (non-environmental)—No grommet supplied.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of metric connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 31030 A (PHM-EMI67) and ITS 41030 A (PHM-EMI67)**  
**Rear Panel Mount Square Flange Receptacle Assembly**  
**with EMI/RFI and Environmental PHM Cable Clamp**



**TABLE I: DIMENSIONS**

Shell Size	PHM Size	ØA +0 -0.1	ØB min. – Max.	K ±0.2	L Max.	M +0.2 -0	R ±0.1	S +0.2	T Thread
10 SL	9	18.2	2–9	2.8	75	18.5	18.25	25.4	M4
14 S	11	24.5	2–11	3.3	75	18.5	23.00	30.4	M4
16 S	11	27.2	2–11	3.3	75	18.5	24.60	32.5	M4
16	11	27.2	2–11	3.3	85	23.2	24.60	32.5	M4
18	11 / 18	30.7	2–11 / 2–16.5	4.0	85	23.2	27.00	35.0	M4
20	11 / 18	34.0	2–11 / 2–16.5	4.0	85	23.2	29.40	38.0	M4
22	18	37.3	2–16.5	4.0	85	23.2	31.75	41.0	M4
24	18 / 22 / 24	40.9	2–16.5 / 15–20 / 19–24	4.0	95	23.2	34.90	44.5	M4
28	18 / 22 / 24	46.7	2–16.5 / 15–20 / 19–24	4.0	95	24.4	39.70	50.9	M5
32	22 / 24	53.4	15–20 / 19–24	4.0	95	24.2	44.45	57.0	M5
36	Contact the factory for information								
40									

**B**

**TABLE II: MODIFICATION CODES**

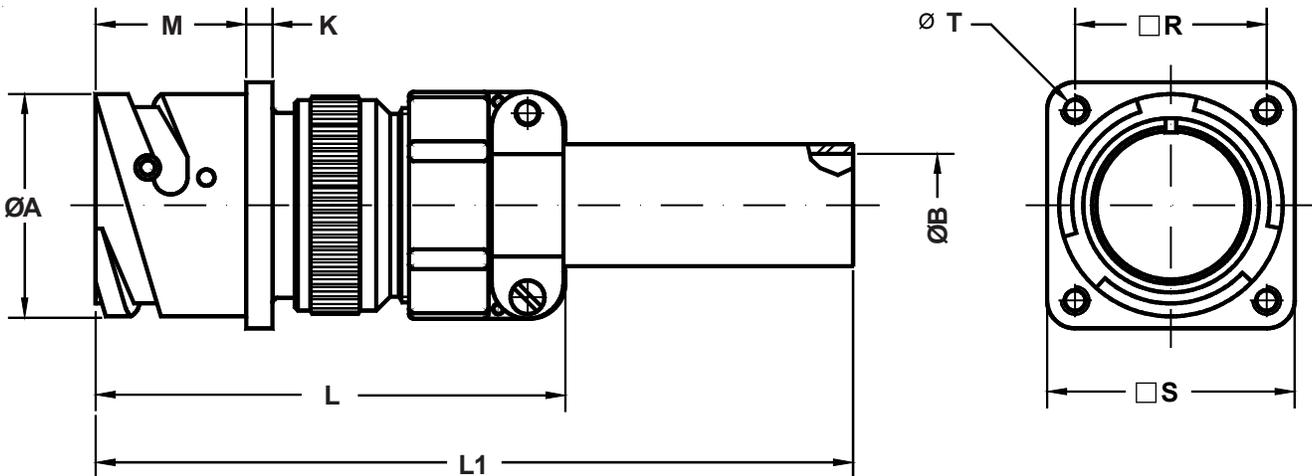
CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 31030 (F) and ITS 41030 (F)

### Rear Panel Mount Square Flange Receptacle Assembly with Class A IT3057 Cable Clamp and Neoprene Bushing

**ITS 31 030 F FP 20-27 P Y XXX**

Reverse Bayonet Coupling	Mod Code Option (See Table II)
Contact Type 31 - Solder 41 - Crimp	Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
030 - Rear Wall Mount	Contact Gender P - Pin S - Socket
Connector/Backshell Class F - Environmental; Supplied with Grommet, Cable Clamp and Neoprene Bushing	Shell Size and Insert Arrangement (See Section A)
Mounting Holes FP - Non-Threaded Through Mounting Holes OMIT - For Standard (Threaded) Mounting Holes	



#### Application Notes:

1. Rear panel mount square flange receptacle assembly with an insulating grommet, environmental backshell, class A IT3057 cable clamp for use with individual wires and a neoprene bushing. Threaded mounting holes. Optional non-threaded mounting holes available.
2. Connector/Backshell Class "F" (environmental)—Insulating grommet supplied.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts.

# ITS 31030 (F) and ITS 41030 (F)

Rear Panel Mount Square Flange Receptacle Assembly  
with Class A IT3057 Cable Clamp and Neoprene Bushing



**TABLE I: DIMENSIONS**

Shell Size	ØA +0 -0.1	ØB ±0.1	K ±0.2	L Max.	L1 Max.	M +0.2 -0	R ±0.1	S +0.2	T Thread
10 SL	18.2	5.58	2.8	60.0	130	18.5	18.25	25.4	M4
14 S	24.5	7.92	3.3	63.4	130	18.5	23.00	30.4	M4
16 S	27.2	11.09	3.3	65.4	130	18.5	24.60	32.5	M4
16	27.2	11.09	3.3	76.8	140	23.2	24.60	32.5	M4
18	30.7	14.27	4.0	82.8	145	23.2	27.00	35.0	M4
20	34.0	15.87	4.0	79.0	135	23.2	29.40	38.0	M4
22	37.3	15.87	4.0	79.0	135	23.2	31.75	41.0	M4
24	40.9	19.05	4.0	81.7	135	23.2	34.90	44.5	M4
28	46.7	19.05	4.0	88.2	140	24.4	39.70	50.9	M5
32	53.4	23.79	4.0	95.3	145	24.2	44.45	57.0	M5
36	59.6	31.75	4.0	101.8	150	24.2	49.20	63.5	M5
40	65.5	34.92	4.0	120.8	165	24.4	55.55	69.9	M5

**B**

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

**ITS 31030 A (N5) and ITS 31030 R (N5)**  
**ITS 41030 A (N5) and ITS 41030 R (N5)**  
**Rear Panel Mount Square Flange Receptacle Assembly**  
**with Class C (Environmental) IT3057 Cable Clamp**

**FR ITS 31 030 A FP 20-27 P Y N5 XXX**

Flame Resistant Rubber  
(Omit for Standard)

Reverse Bayonet Coupling

Contact Type  
31 - Solder  
41 - Crimp

030 - Rear Wall Mount

Connector/Backshell Class  
A - Non-Environmental; Supplied  
with Backshell Only  
R - Environmental; Supplied with  
Backshell and Grommet

Mod Code Option (See Table II)

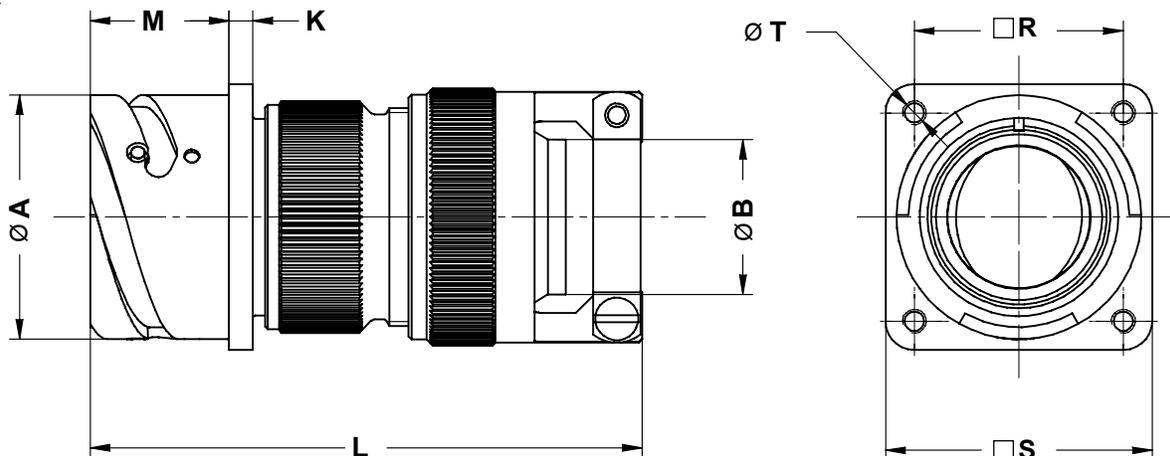
Class "C" Environmental Cable Clamp

Alternate Insert Rotation (W, X, Y, Z)  
Omit for Normal (See Section A)

Contact Gender  
P - Pin  
S - Socket

Shell Size and Insert Arrangement  
(See Section A)

Mounting Holes  
FP - Non-Threaded Through  
Mounting Holes  
OMIT - For Standard (Threaded)  
Mounting Holes



**Application Notes:**

1. Rear panel mount square flange receptacle with a class C (environmental) IT3057 cable clamp for use with jacketed cable. Threaded mounting holes. Optional non-threaded mounting holes available.
2. Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet; Class "R" (environmental)—Supplied with backshell and grommet.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 31030 A (N5) and ITS 31030 R (N5)  
ITS 41030 A (N5) and ITS 41030 R (N5)  
Rear Panel Mount Square Flange Receptacle Assembly  
with Class C (Environmental) IT3057 Cable Clamp**



**TABLE I: DIMENSIONS**

Shell Size	ØA +0 -0.1	ØB		K ±0.2	L Max.	M +0.2 -0	R ±0.1	S +0.2	T Thread
		Open	Closed						
10 SL	18.2	7.93	2.38	2.8	76	18.5	18.25	25.4	M4
14 S	24.5	11.12	5.84	3.3	80	18.5	23.00	30.4	M4
16 S	27.2	13.48	8.00	3.3	80	18.5	24.60	32.5	M4
16	27.2	13.48	8.00	3.3	88	23.2	24.60	32.5	M4
18	30.7	15.87	9.60	4.0	91	23.2	27.00	35.0	M4
20	34.0	19.00	11.30	4.0	91	23.2	29.40	38.0	M4
22	37.3	19.00	11.30	4.0	92	23.2	31.75	41.0	M4
24	40.9	23.80	15.50	4.0	95	23.2	34.90	44.5	M4
28	46.7	23.80	15.50	4.0	103	24.4	39.70	50.9	M5
32	53.4	31.75	23.40	4.0	113	24.2	44.45	57.0	M5
36	59.6	35.00	23.40	4.0	120	24.2	49.20	63.5	M5
40	65.5	41.25	29.90	4.0	135	24.4	55.55	69.9	M5

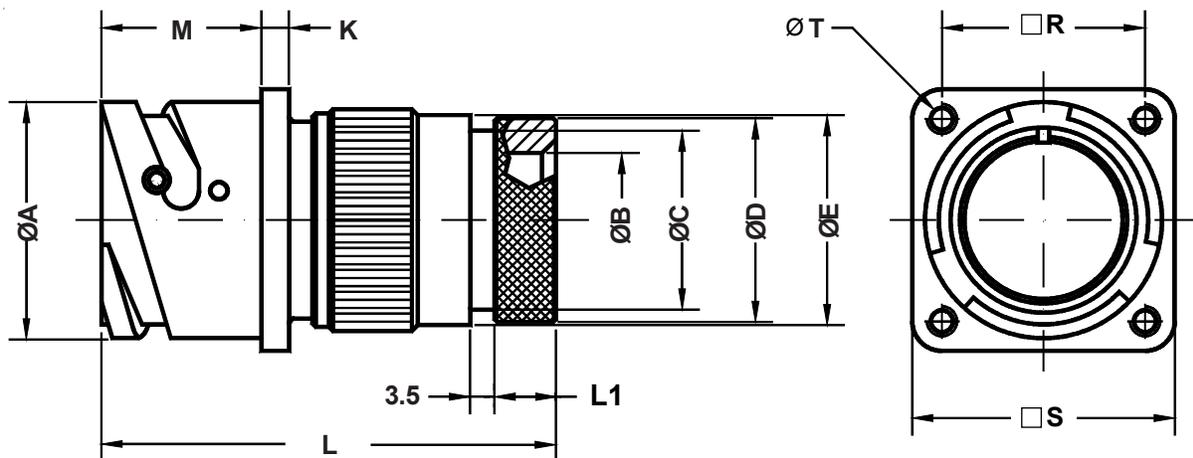
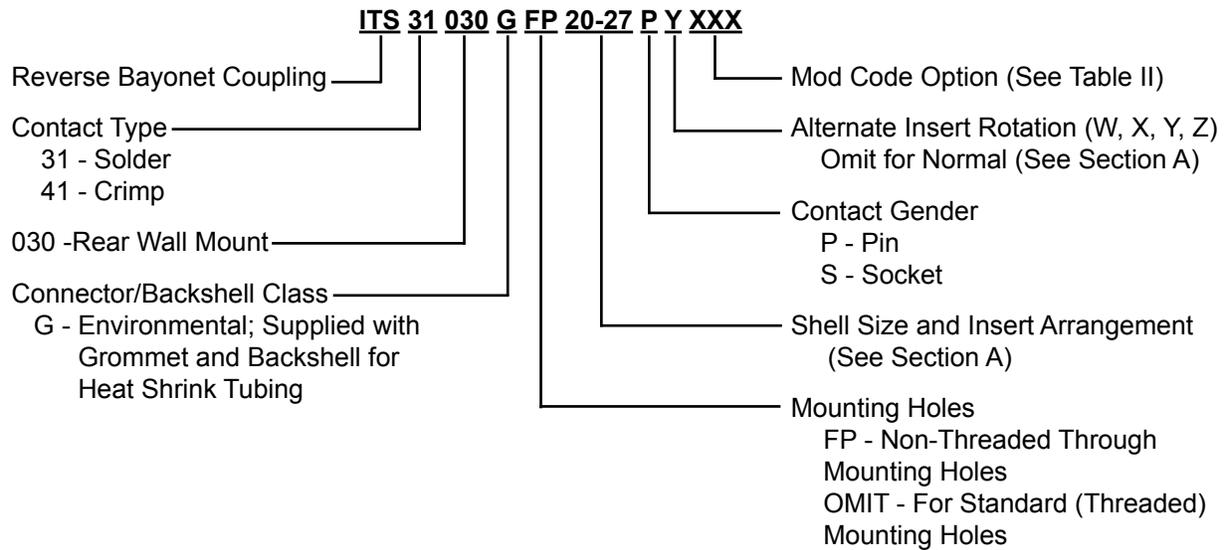
B

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 31030 (G) and ITS 41030 (G)

### Rear Panel Mount Square Flange Receptacle Assembly With Environmental Backshell for Heat Shrink Tubing



#### Application Notes:

1. Rear panel mount square flange receptacle assembly with a backshell for heat shrink tubing. Threaded mounting holes. Optional non-threaded mounting holes available.
2. Connector/Backshell Class "G" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 31030 (G) and ITS 41030 (G)**  
**Rear Panel Mount Square Flange Receptacle Assembly**  
**With Environmental Backshell for Heat Shrink Tubing**



**TABLE I: DIMENSIONS**

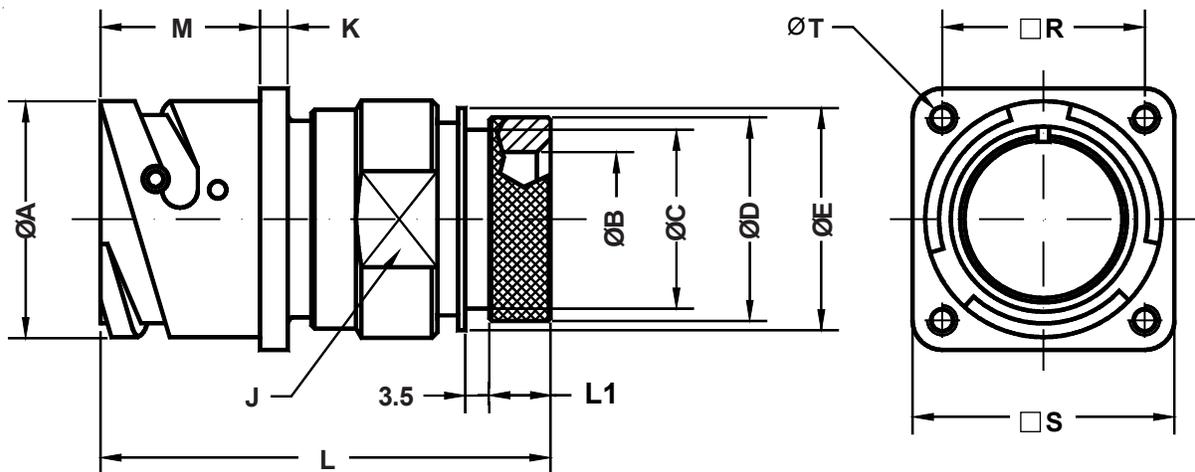
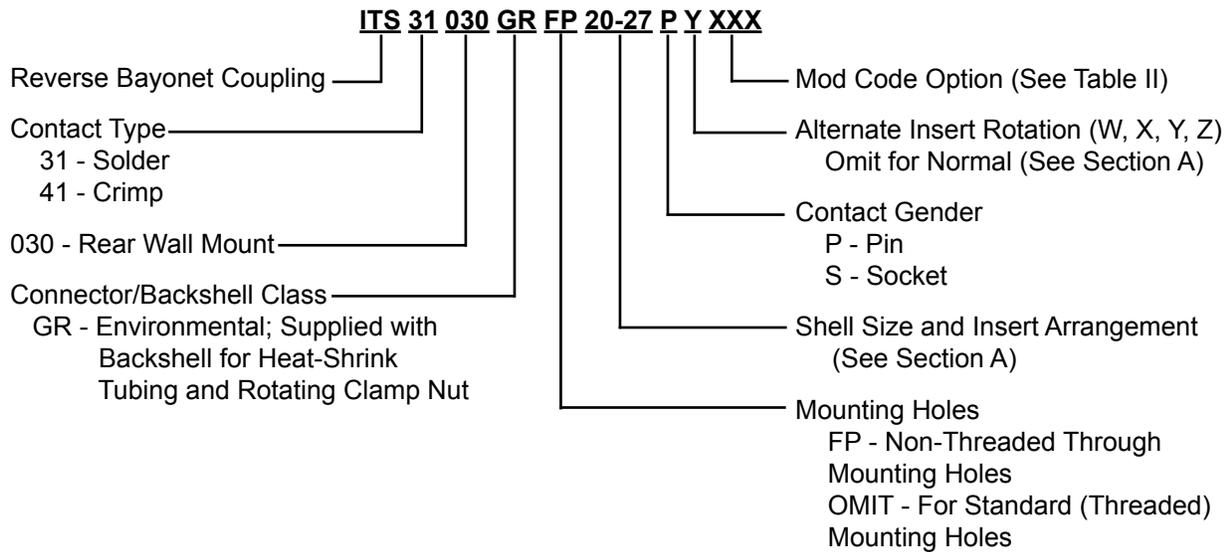
Shell Size	ØA +0 -0.1	ØB min.	ØC ±0.1	ØD ±0.2	ØE ±0.2	K ±0.2	L Max.	L1 Max.	M +0.2 -0	R ±0.1	S +0.2	T Thread
<b>10 SL</b>	18.2	8.5	13.0	15.5	17.0	2.8	57.5	8.2	18.5	18.25	25.4	M4
<b>14 S</b>	24.5	12.0	16.5	19.1	20.1	3.3	58.4	8.2	18.5	23.00	30.4	M4
<b>16 S</b>	27.2	14.5	21.5	23.9	23.5	3.3	58.4	8.2	18.5	24.60	32.5	M4
<b>16</b>	27.2	14.5	21.5	23.9	23.5	3.3	70.8	8.0	23.2	24.60	32.5	M4
<b>18</b>	30.7	17.5	21.7	23.9	26.5	4.0	70.8	8.0	23.2	27.00	35.0	M4
<b>20</b>	34.0	19.5	26.0	29.6	30.5	4.0	71.1	8.9	23.2	29.40	38.0	M4
<b>22</b>	37.3	22.0	26.0	29.6	33.6	4.0	71.1	8.9	23.2	31.75	41.0	M4
<b>24</b>	40.9	25.0	34.5	37.8	36.1	4.0	70.7	9.2	23.2	34.90	44.5	M4
<b>28</b>	46.7	29.0	34.5	37.8	41.4	4.0	71.2	9.2	24.4	39.70	50.9	M5
<b>32</b>	53.4	34.0	43.6	47.8	48.6	4.0	78.8	11.7	24.2	44.45	57.0	M5
<b>36</b>	59.6	38.5	43.6	47.8	54.8	4.0	88.8	11.7	24.2	49.20	63.5	M5
<b>40</b>	65.5	48.0	52.6	57.8	60.9	4.0	88.8	11.7	24.4	55.55	69.9	M5

**B**

**TABLE II: MODIFICATION CODES**

<b>CONTACT OPTIONS</b>	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
<b>FINISH OPTIONS</b>	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 31030 (GR) and ITS 41030 (GR) Rear Panel Mount Square Flange Receptacle Assembly with Rotating Clamp Nut for Heat-Shrink Tubing



### Application Notes:

1. Rear panel mount square flange receptacle with backshell for heat-shrink tubing. Rotating coupling nut supplied. Threaded mounting holes. Optional non-threaded mounting holes available.
2. Environmental class "GR" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 31030 (GR) and ITS 41030 (GR)**  
**Rear Panel Mount Square Flange Receptacle Assembly**  
**with Rotating Clamp Nut for Heat-Shrink Tubing**



**TABLE I: DIMENSIONS**

Shell Size	ØA +0 -0.1	ØB min.	ØC ±0.1	ØD ±0.2	ØE ±0.1	J key	K ±0.2	L Max.	L1 ±0.1	M +0.2 -0	R ±0.1	S +0.2	T Thread
10 SL	18.2	8.6	13.0	15.5	17.0	20	2.8	57.7	8.2	18.5	18.25	25.4	M4
14 S	24.5	10.7	16.5	19.1	20.1	23	3.3	58.4	8.2	18.5	23.00	30.4	M4
16 S	27.2	14.0	24.9	23.9	23.5	26	3.3	58.4	8.0	18.5	24.60	32.5	M4
16	27.2	14.0	24.9	23.9	23.5	26	3.3	70.8	8.0	23.2	24.60	32.5	M4
18	30.7	17.5	21.7	23.9	26.5	28	4.0	70.8	8.0	23.2	27.00	35.0	M4
20	34.0	18.8	26.2	29.6	30.2	32	4.0	71.1	8.9	23.2	29.40	38.0	M4
22	37.3	21.0	26.2	29.6	33.6	36	4.0	71.1	9.2	23.2	31.75	41.0	M4
24	40.9	25.4	34.0	37.8	36.1	39	4.0	70.7	9.5	23.2	34.90	44.5	M4
28	46.7	28.4	34.3	37.8	41.4	46	4.0	71.2	9.2	24.4	39.70	50.9	M5
32	53.4	34.0	43.6	47.8	48.6	52	4.0	78.8	11.7	24.2	44.45	57.0	M5
36	59.6	40.5	43.6	47.8	54.0	58	4.0	88.8	11.5	24.2	49.20	63.5	M5
40	65.5	49.0	52.6	57.8	61.0	65	4.0	88.8	11.5	24.4	55.55	69.9	M5

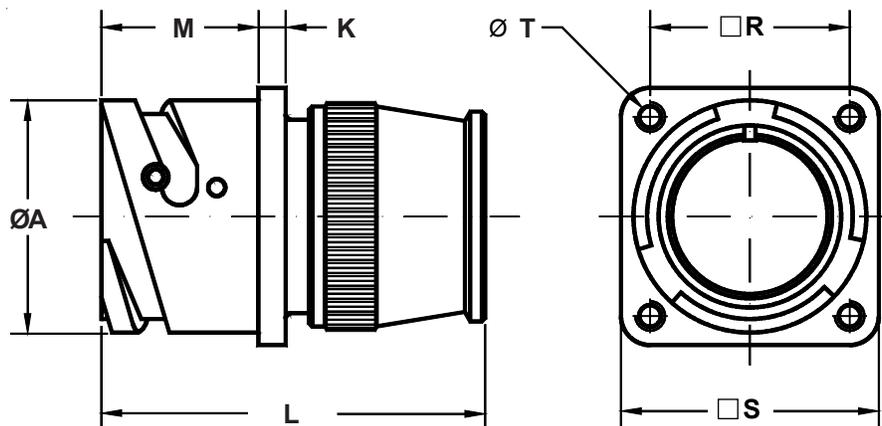
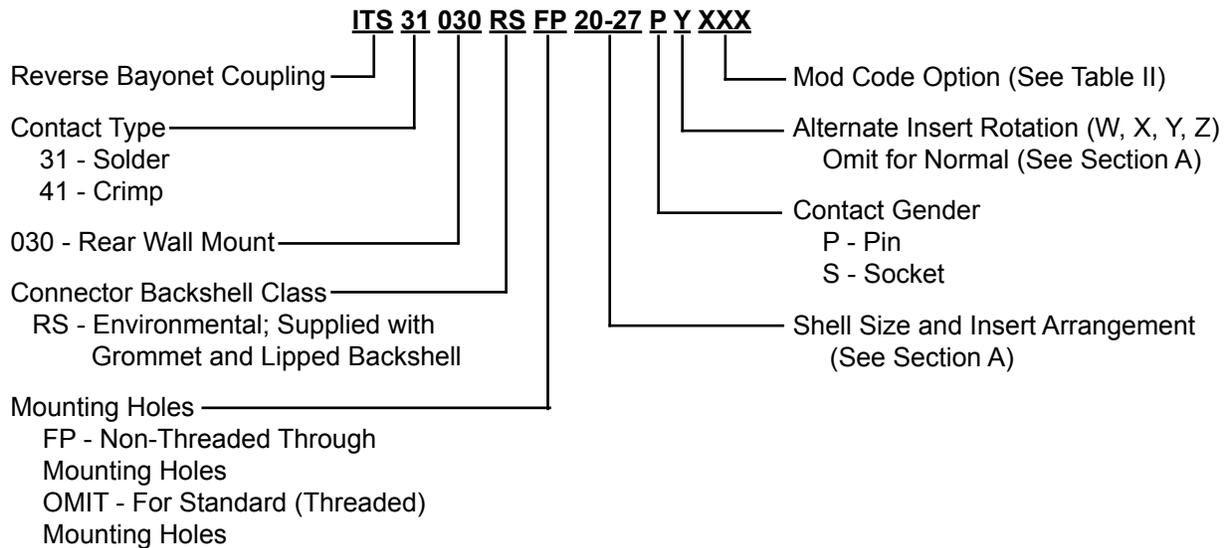
**B**

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 31030 (RS) and ITS 41030 (RS)

### Rear Panel Mount Square Flange Receptacle Assembly with Lipped Backshell



#### Application Notes:

1. Rear panel mount square flange receptacle with a wire sealing grommet and backshell for use with individual wire assemblies. Threaded mounting holes. Optional non-threaded mounting holes available.
2. Connector/backshell Class "RS" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 31030 (RS) and ITS 41030 (RS)**  
**Rear Panel Mount Square Flange Receptacle Assembly**  
**with Lipped Backshell**



**TABLE I: DIMENSIONS**

Shell Size	ØA +0 -0.1	K ±0.2	L Max.	M +0.2 -0	R ±0.1	S +0.2	T Thread
10 SL	18.2	2.8	43.0	18.5	18.25	25.4	M4
14 S	24.5	3.3	52.5	18.5	23.00	30.4	M4
16 S	27.2	3.3	50.5	18.5	24.60	32.5	M4
16	27.2	3.3	60.5	23.2	24.60	32.5	M4
18	30.7	4.0	60.5	23.2	27.00	35.0	M4
20	34.0	4.0	60.5	23.2	29.40	38.0	M4
22	37.3	4.0	60.5	23.2	31.75	41.0	M4
24	40.9	4.0	63.5	23.2	34.90	44.5	M4
28	46.7	4.0	63.5	24.4	39.70	50.9	M5
32	53.4	4.0	63.5	24.2	44.45	57.0	M5
36	59.6	4.0	63.5	24.2	49.20	63.5	M5
40	65.5	4.0	63.5	24.4	55.55	69.9	M5

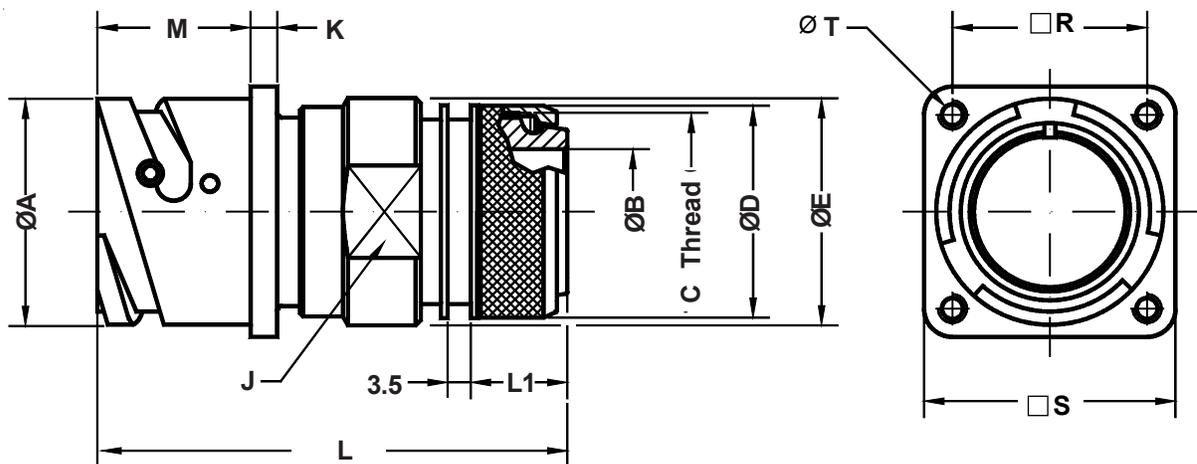
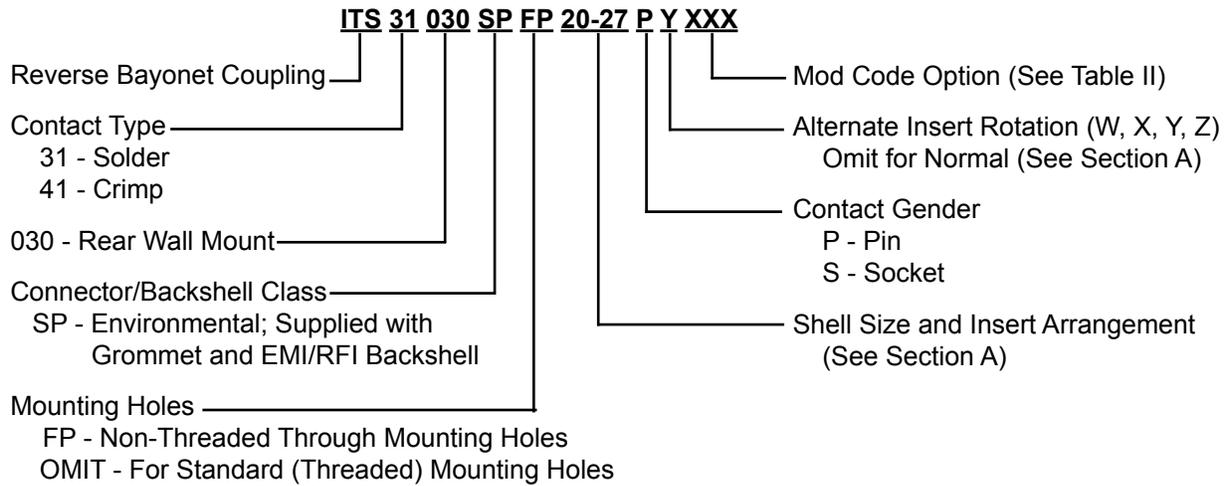


**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 31030 (SP) and ITS 41030 (SP)

### Rear Panel Mount Square Flange Receptacle Assembly with Backshell for EMI/RFI Shield Termination



#### Application Notes:

1. Rear panel mount square flange receptacle assembly with EMI/RFI Shield termination backshell. Backshell features rotating coupling nut and a "braid-trap" nut for termination of the braided shielding. Heat-shrink tubing may also be attached for additional environmental and mechanical protection. Threaded mounting holes. Optional non-threaded mounting holes available.
2. Connector/Backshell Class "SP" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available.  
See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 31030 (SP) and ITS 41030 (SP)**  
**Rear Panel Mount Square Flange Receptacle Assembly**  
**with Backshell for EMI/RFI Shield Termination**



**TABLE I: DIMENSIONS**

Shell Size	ØA +0 -0.1	ØB min.	C Thread	ØD ±0.2	ØE ±0.2	J Key	K ±0.2	L Max.	L1 Max.	M +0.2 -0	R ±0.1	S +0.2	T Thread
10 SL	18.2	8.5	M16 x 1	18.5	22.0	20	2.8	57.0	13.5	18.5	18.25	25.4	M4
14 S	24.5	12.0	M20 x 1	22.3	25.0	23	3.3	57.0	13.5	18.5	23.00	30.4	M4
16 S	27.2	14.5	M23 x 1	25.3	28.0	26	3.3	59.0	14.6	18.5	24.60	32.5	M4
16	27.2	14.5	M23 x 1	25.3	28.0	26	3.3	68.0	14.6	23.2	24.60	32.5	M4
18	30.7	17.5	M26 x 1	28.0	30.0	28	4.0	69.5	14.6	23.2	27.00	35.0	M4
20	34.0	19.5	M30 x 1	32.3	34.5	32	4.0	69.5	14.6	23.2	29.40	38.0	M4
22	37.3	22.0	M32 x 1	34.3	38.0	36	4.0	69.5	14.6	23.2	31.75	41.0	M4
24	40.9	25.0	M36 x 1	38.3	41.0	39	4.0	71.0	14.6	23.2	34.90	44.5	M4
28	46.7	29.0	M39 x 1	41.2	48.0	46	4.0	71.0	14.6	24.4	39.70	50.9	M5
32	53.4	34.0	M45 x 1	48.3	54.0	52	4.0	72.5	14.6	24.2	44.45	57.0	M5
36	59.6	38.5	M52 x 1	55.0	61.0	58	4.0	73.0	15.5	24.2	49.20	63.5	M5
40	65.5	48.0	M59 x 1	62.0	68.0	65	4.0	73.0	15.5	24.4	55.55	69.9	M5

B

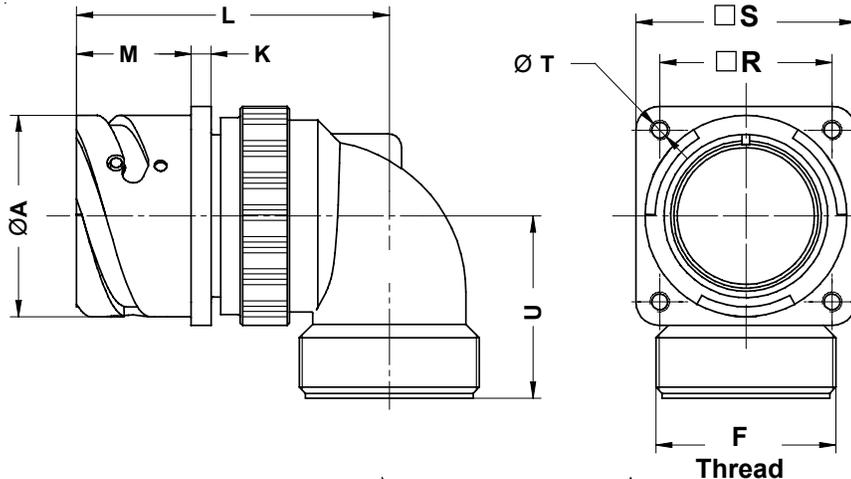
**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

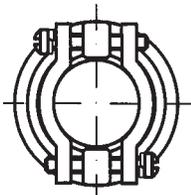
**ITS 31038 (A) and ITS 31038 (R)**  
**ITS 41038 (A) and ITS 41038 (R)**  
**Rear Panel Mount Square Flange Receptacle Assembly**  
**with 90° Backshell for the Attachment of Additional Accessories**

**ITS 31 038 A FP 20-27 P Y XXX**

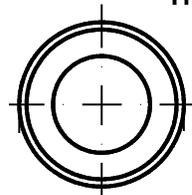
Reverse Bayonet Coupling	Mod Code Option (See Table II)
Contact Type 31 - Solder 41 - Crimp	Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
038 - Rear Wall Mount with 90° Backshell	Contact Gender P - Pin S - Socket
Connector/Backshell Class A - Non-Environmental; Supplied with 90° Backshell Only R - Environmental; Supplied with 90° Backshell and Grommet	Shell Size and Insert Arrangement (See Section A)
	Mounting Holes FP - Non-Threaded Through Mounting OMIT - For Std. (Threaded) Mounting



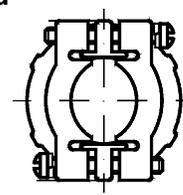
Order Cable Clamps and Sleeves Separately or Use Mod Codes (Table II) to Add Clamp to This Assembly.



**IT 3057 C**  
Cable Clamp



**IT 3420**  
Neoprene Sleeve



**IT 3057 A**  
Cable Clamp

**Application Notes:**

1. Rear panel mount square flange receptacle with 90° backshell. Threaded mounting holes. Optional non-threaded mounting holes available.
2. Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet; Class "R" (environmental)—Supplied with 90° backshell and grommet.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 31038 (A) and ITS 31038 (R)  
ITS 41038 (A) and ITS 41038 (R)**  
Rear Panel Mount Square Flange Receptacle Assembly  
with 90° Backshell for the Attachment of Additional Accessories



**TABLE I: DIMENSIONS**

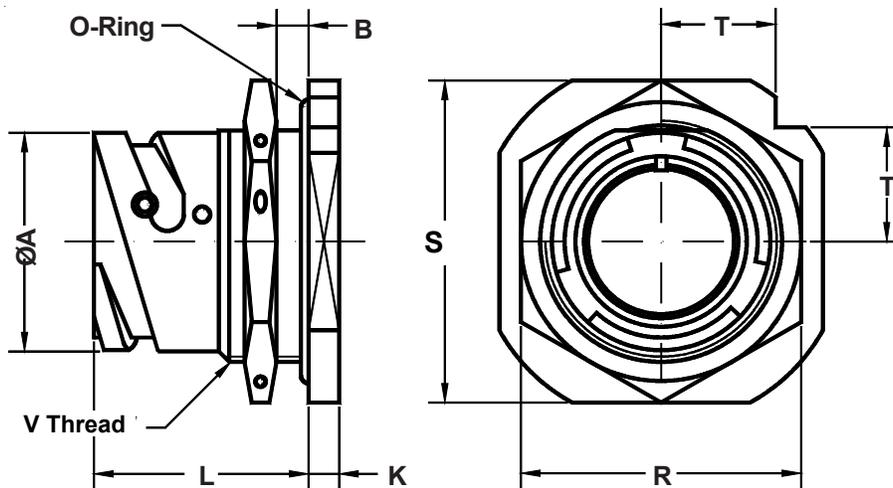
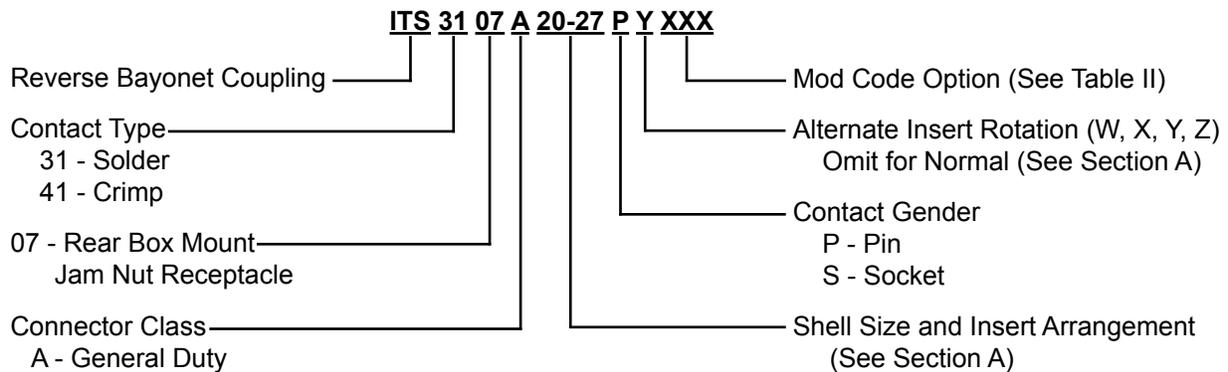
Shell Size	ØA +0 -0.1	F Thread	K ±0.2	L Max.	U ±0.2	M +0.2 -0	R ±0.1	S +0.2	T Thread
10 SL	18.2	0.6250 - 24UNEF	2.8	42	25.0	18.5	18.25	25.4	M4
14 S	24.5	0.7500 - 20UNEF	3.3	44	26.5	18.5	23.00	30.4	M4
16 S	27.2	0.8750 - 20UNEF	3.3	48	27.0	18.5	24.60	32.5	M4
16	27.2	0.8750 - 20UNEF	3.3	57	27.0	23.2	24.60	32.5	M4
18	30.7	1.0000 - 20UNEF	4.0	59	30.0	23.2	27.00	35.0	M4
20	34.0	1.1875 - 18UNEF	4.0	64	32.0	23.2	29.40	38.0	M4
22	37.3	1.1875 - 18UNEF	4.0	64	32.0	23.2	31.75	41.0	M4
24	40.9	1.4375 - 18UNEF	4.0	69	37.0	23.2	34.90	44.5	M4
28	46.7	1.4375 - 18UNEF	4.0	69	38.0	24.4	39.70	50.9	M5
32	53.4	1.7500 - 18UNS	4.0	74	45.5	24.2	44.45	57.0	M5
36	59.6	2.0000 - 18UNS	4.0	77	47.2	24.2	49.20	63.5	M5
40	65.5	2.2500 - 16UN	4.0	80	52.0	24.4	55.55	69.9	M5



**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS		ACCESSORY OPTIONS	
Sym	Description		
B0	Connector Less Contacts	N1	Connector with IT 3057 A cable clamp
B1	Connector with Gold Plated Contacts	N2	Connector with long backshell
Omit for standard version (Silver plated)		N5	Connector with IT 3057 C cable clamp
<b>FINISH OPTIONS</b>		N12	Connector with IT 3057 A cable clamp and IT 3420 neoprene sleeve
		Omit for standard version	
Sym	Description and RoHS compliant (*)		
F2	Bright Nickel Plating (*)		
F6	Black Electrodeposited Paint (*)		
F7	Black Zn-Co Plating (*)		
F8	Olive Drab Zn-Co Plating		
F11	Electroless Nickel (*)		
Omit for standard version (Cadmium Olive Drab Finish)			

## ITS 3107 (A) and ITS 4107 (A) Rear Panel Mount Jam Nut Receptacle No Accessory Threads



### Application Notes:

1. Rear panel mount jam nut receptacle without accessory threads.
2. Connector Class "A" - General Duty.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3107 (A) and ITS 4107 (A)**  
**Rear Panel Mount Jam Nut Receptacle**  
**No Accessory Threads**



**TABLE I: DIMENSIONS**

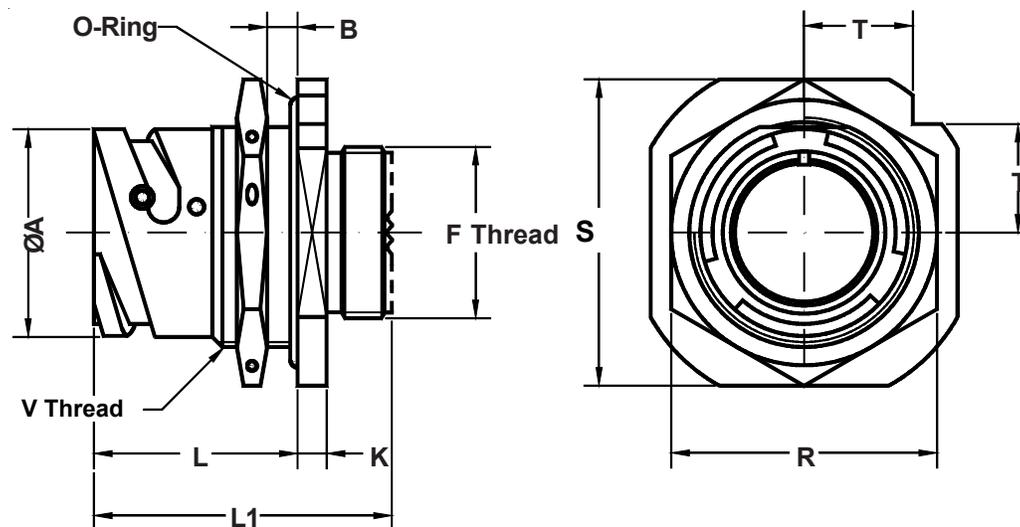
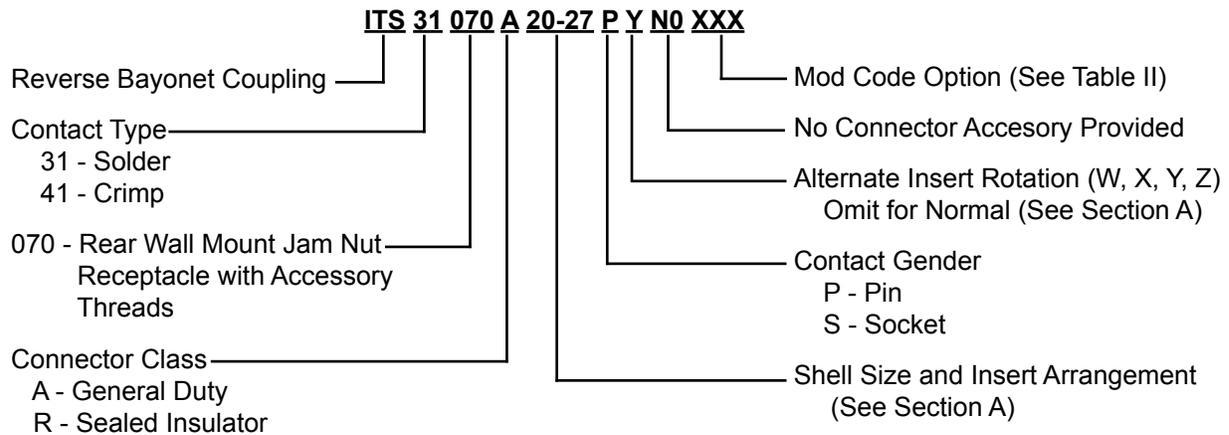
Shell Size	ØA +0 -0.1	B		K ±0.2	L ±0.1	R Key	S +0.2	T	V Thread
		Min.	Max.						
<b>10 SL</b>	18.2	2.4	5.2	4.0	24.5	27	31.8	11.2	0.8750 - 20UNEF
<b>14 S</b>	24.5	2.4	7.5	4.8	26.8	33	41.3	14.6	1.1250 - 18UNEF
<b>16 S</b>	27.2	2.4	7.5	4.8	26.8	38	44.4	15.7	1.2500 - 18UNEF
<b>16</b>	27.2	2.4	7.5	4.8	32.2	38	44.4	15.7	1.2500 - 18UNEF
<b>18</b>	30.7	2.4	9.0	4.8	33.7	40	47.6	16.8	1.3750 - 18 UNEF
<b>20</b>	34.0	2.4	9.0	4.8	33.7	44	50.8	18.0	1.5000 - 18UNEF
<b>22</b>	37.3	2.4	9.1	4.8	33.7	46	54.2	20.2	1.6250 - 18UNEF
<b>24</b>	40.9	2.4	9.1	4.8	33.7	51	57.2	20.2	1.7500 - 18UNS
<b>28</b>	46.7	2.4	8.5	5.6	35.2	55	63.5	22.5	2.0000 - 18UNS
<b>32</b>	53.4	2.4	6.5	5.6	35.2	62	69.8	24.7	2.2500 - 16UN
<b>36</b>	59.6	2.4	8.3	5.6	35.2	71	76.2	26.9	2.5000 - 16UN
<b>40</b>	65.5	2.4	8.3	5.6	35.2	75	83.5	29.6	2.7500 - 16UN

**B**

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

# ITS 31070 A (N0) and ITS 41070 A (N0) Rear Panel Mount Jam Nut Receptacle with Connector Accessory Mounting Threads



### Application Notes:

1. Rear panel mount jam nut receptacle with rear threads for attachment of various backend connector accessories. No backshell provided.
2. Connector Class "A" - General Duty.  
Connector Class "R" - Sealed insulator.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of other front and rear connector accessories are available.  
See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 31070 A (N0) and ITS 41070 A (N0)  
Rear Panel Mount Jam Nut Receptacle  
with Connector Accessory Mounting Threads**



**TABLE I: DIMENSIONS**

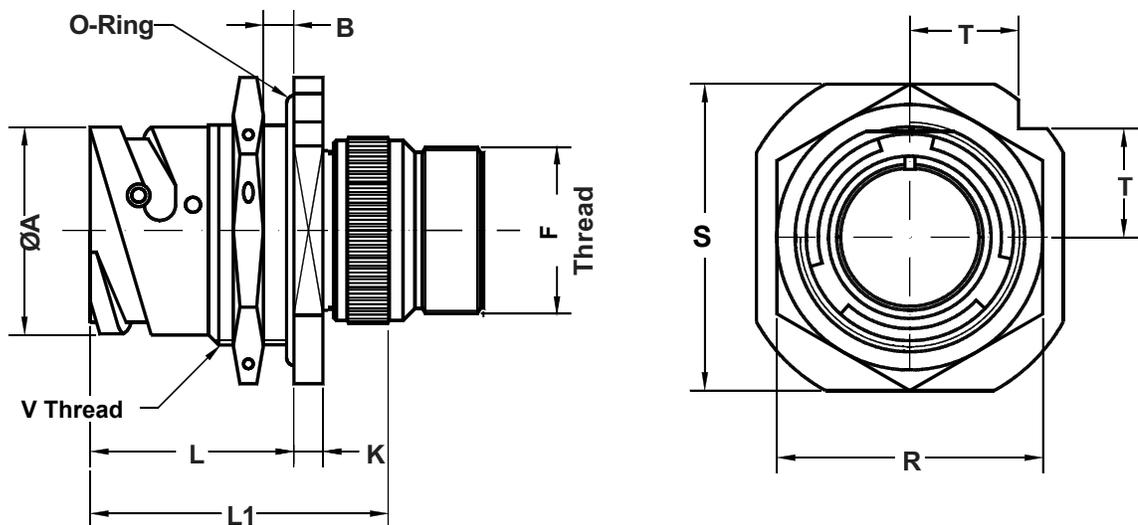
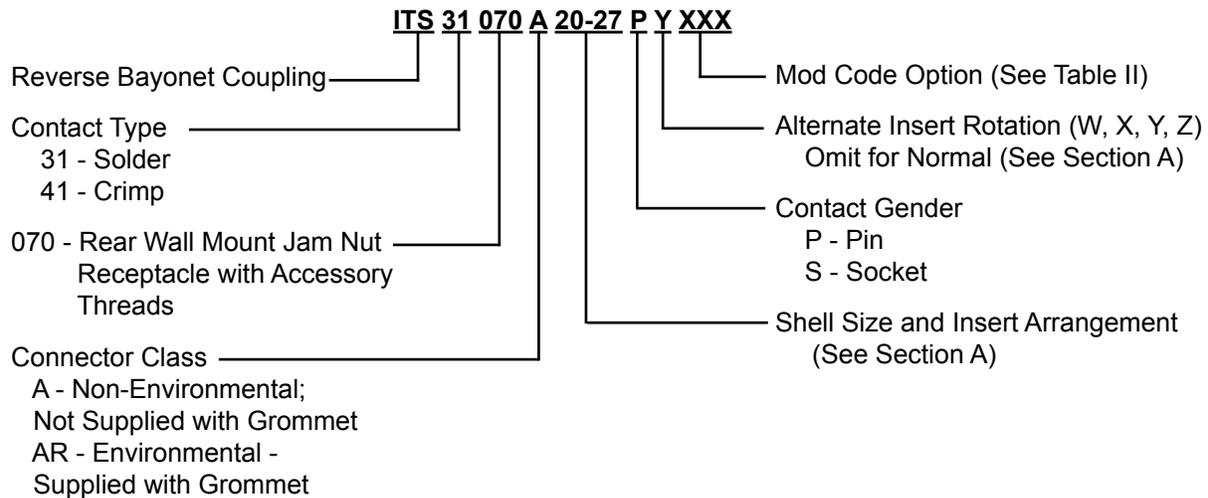
Shell Size	ØA +0 -0.1	B		F Thread	K ±0.2	L ±0.1	L1 ±0.25	R key	S +0.2	T	V Thread
		Min.	Max.								
<b>10 SL</b>	18.2	2.4	5.2	0.6250 - 24UNEF	4.0	24.5	36.2	27	31.8	11.2	0.8750 - 20UNEF
<b>14 S</b>	24.5	2.4	7.5	0.7500 - 20UNEF	4.8	26.8	38.9	33	41.3	14.6	1.1250 - 18UNEF
<b>16 S</b>	27.2	2.4	7.5	0.8750 - 20UNEF	4.8	26.8	38.9	38	44.4	15.7	1.2500 - 18UNEF
<b>16</b>	27.2	2.4	7.5	0.8750 - 20UNEF	4.8	32.2	48.5	38	44.4	15.7	1.2500 - 18UNEF
<b>18</b>	30.7	2.4	9.0	1.0000 - 20UNEF	4.8	33.7	49.3	40	47.6	16.8	1.3750 - 18 UNEF
<b>20</b>	34.0	2.4	9.0	1.1250 - 18UNEF	4.8	33.7	49.3	44	50.8	18.0	1.5000 - 18UNEF
<b>22</b>	37.3	2.4	9.1	1.2500 - 18UNEF	4.8	33.7	49.3	46	54.2	20.2	1.6250 - 18UNEF
<b>24</b>	40.9	2.4	9.1	1.3750 - 18 UNEF	4.8	33.7	49.3	51	57.2	20.2	1.7500 - 18UNS
<b>28</b>	46.7	2.4	8.5	1.6250 - 18UNEF	5.6	35.2	51.9	55	63.5	22.5	2.0000 - 18UNS
<b>32</b>	53.4	2.4	6.5	1.8750 - 16UN	5.6	35.2	51.9	62	69.8	24.7	2.2500 - 16UN
<b>36</b>	59.6	2.4	8.3	2.0625 - 16UNS	5.6	35.2	51.9	71	76.2	26.9	2.5000 - 16UN
<b>40</b>	65.5	2.4	8.3	2.3125 - 16UNS	5.6	35.2	51.9	75	83.5	29.6	2.7500 - 16UN



**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

**ITS 31070 (A) and ITS 31070 (AR)  
ITS 41070 (A) and ITS 41070 (AR)  
Rear Panel Mount Jam Nut Receptacle  
with Connector Accessory Mounting Threads**



**Application Notes:**

1. Rear panel mount jam nut receptacle with rear threads for attachment of various backend connector accessories. No backshell provided.
2. Connector Class "A" (non-environmental)—Not supplied with wire sealing grommet; Class "AR" - Supplied with wire sealing grommet.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 31070 (A) and ITS 31070 (AR)  
ITS 41070 (A) and ITS 41070 (AR)  
Rear Panel Mount Jam Nut Receptacle  
with Connector Accessory Mounting Threads**



**TABLE I: DIMENSIONS**

Shell Size	ØA +0 -0.1	B		F Thread	K ±0.2	L ±0.1	L1 ±0.25	R key	S +0.2	T	V Thread
		Min.	Max.								
<b>10 SL</b>	18.2	2.4	5.2	0.6250 - 24UNEF	4.0	24.5	36.2	27	31.8	11.2	0.8750 - 20UNEF
<b>14 S</b>	24.5	2.4	7.5	0.7500 - 20UNEF	4.8	26.8	38.9	33	41.3	14.6	1.1250 - 18UNEF
<b>16 S</b>	27.2	2.4	7.5	0.8750 - 20UNEF	4.8	26.8	38.9	38	44.4	15.7	1.2500 - 18UNEF
<b>16</b>	27.2	2.4	7.5	0.8750 - 20UNEF	4.8	32.2	48.5	38	44.4	15.7	1.2500 - 18UNEF
<b>18</b>	30.7	2.4	9.0	1.0000 - 20UNEF	4.8	33.7	49.3	40	47.6	16.8	1.3750 - 18 UNEF
<b>20</b>	34.0	2.4	9.0	1.1250 - 18UNEF	4.8	33.7	49.3	44	50.8	18.0	1.5000 - 18UNEF
<b>22</b>	37.3	2.4	9.1	1.2500 - 18UNEF	4.8	33.7	49.3	46	54.2	20.2	1.6250 - 18UNEF
<b>24</b>	40.9	2.4	9.1	1.3750 - 18 UNEF	4.8	33.7	49.3	51	57.2	20.2	1.7500 - 18UNS
<b>28</b>	46.7	2.4	8.5	1.6250 - 18UNEF	5.6	35.2	51.9	55	63.5	22.5	2.0000 - 18UNS
<b>32</b>	53.4	2.4	6.5	1.8750 - 16UN	5.6	35.2	51.9	62	69.8	24.7	2.2500 - 16UN
<b>36</b>	59.6	2.4	8.3	2.0625 - 16UNS	5.6	35.2	51.9	71	76.2	26.9	2.5000 - 16UN
<b>40</b>	65.5	2.4	8.3	2.3125 - 16UNS	5.6	35.2	51.9	75	83.5	29.6	2.7500 - 16UN



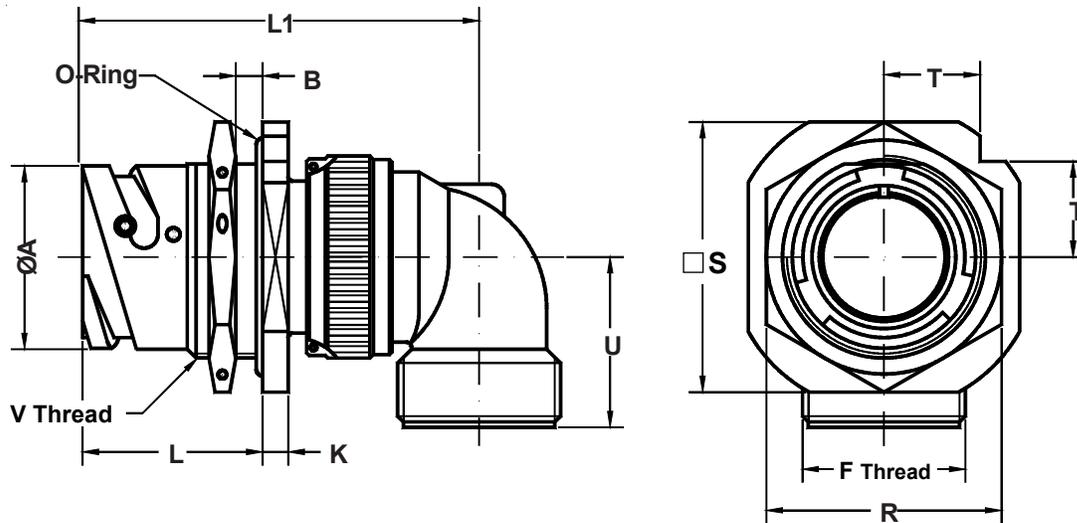
**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

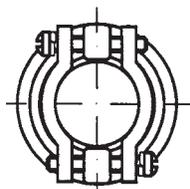
**ITS 31078 (A) and ITS 31078 (R)**  
**ITS 41078 (A) and ITS 41078 (R)**  
**Rear Panel Mount Jam Nut Receptacle**  
**with 90° Backshell for the Attachment of Additional Accessories**

**ITS 31 078 A 20-27 P Y XXX**

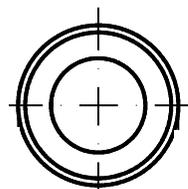
Reverse Bayonet Coupling	Mod Code Option (See Table II)
Contact Type 31 - Solder 41 - Crimp	Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
078 - Rear Wall Mount Jam Nut Receptacle with 90° Backshell	Contact Gender P - Pin S - Socket
Connector/Backshell Class A - Non-Environmental with 90° Backshell R - Environmental with 90° Backshell and Wire Sealing Grommet	Shell Size and Insert Arrangement (See Section A)



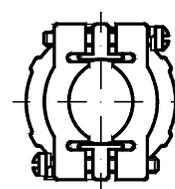
Order Cable Clamps and Sleeves Separately or Use Mod Codes (Table II) to Add Clamp to This Assembly.



**IT 3057 C**  
Cable Clamp



**IT 3420**  
Neoprene Sleeve



**IT 3057 A**  
Cable Clamp

**Application Notes:**

- Rear panel mount jam nut receptacle with 90° backshell.
- Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet; Class "R" (environmental)—Supplied with 90° backshell and grommet.
- Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
- Standard contact material consists of copper alloy with silver plating or gold plating.
- A broad range of additional connector accessories are available. Contact the factory for complete information.
- Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 31078 (A) and ITS 31078 (R)  
ITS 41078 (A) and ITS 41078 (R)  
Rear Panel Mount Jam Nut Receptacle  
with 90° Backshell for the Attachment of Additional Accessories**



Series ITS

**TABLE I: DIMENSIONS**

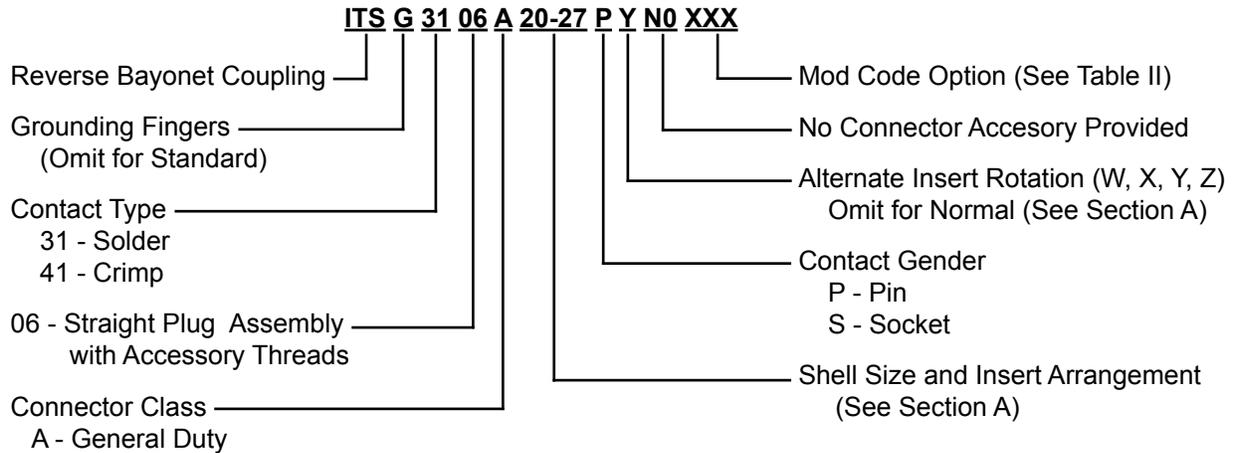
Shell Size	ØA +0 -0.1	B		F Thread	K ±0.2	L ±0.1	L1 Max.	R Key	S +0.2	T	U ±0.2	V Thread
		Min.	Max.									
<b>10 SL</b>	18.2	2.4	5.2	0.6250 - 24UNEF	4.0	24.5	50	27	31.8	11.2	25.0	0.8750 - 20UNEF
<b>14 S</b>	24.5	2.4	7.5	0.7500 - 20UNEF	4.8	26.8	55	33	41.3	14.6	26.5	1.1250 - 18UNEF
<b>16 S</b>	27.2	2.4	7.5	0.8750 - 20UNEF	4.8	26.8	58	38	44.4	15.7	27.0	1.2500 - 18UNEF
<b>16</b>	27.2	2.4	7.5	0.8750 - 20UNEF	4.8	32.2	68	38	44.4	15.7	27.0	1.2500 - 18UNEF
<b>18</b>	30.7	2.4	9.0	1.0000 - 20UNEF	4.8	33.7	70	40	47.6	16.8	30.0	1.3750 - 18 UNEF
<b>20</b>	34.0	2.4	9.0	1.1875 - 18UNEF	4.8	33.7	75	44	50.8	18.0	32.0	1.5000 - 18UNEF
<b>22</b>	37.3	2.4	9.1	1.1875 - 18UNEF	4.8	33.7	75	46	54.2	20.2	32.0	1.6250 - 18UNEF
<b>24</b>	40.9	2.4	9.1	1.4375 - 18UNEF	4.8	33.7	79	51	57.2	20.2	37.0	1.7500 - 18UNS
<b>28</b>	46.7	2.4	8.5	1.4375 - 18UNEF	5.6	35.2	81	55	63.5	22.5	38.0	2.0000 - 18UNS
<b>32</b>	53.4	2.4	6.5	1.7500 - 18UNS	5.6	35.2	85	62	69.8	24.7	45.5	2.2500 - 16UN
<b>36</b>	59.6	2.4	8.3	2.0000 - 18UNS	5.6	35.2	88	71	76.2	26.9	47.2	2.5000 - 16UN
<b>40</b>	65.5	2.4	8.3	2.2500 - 16UN	5.6	35.2	91	75	83.5	29.6	52.0	2.7500 - 16UN

**B**

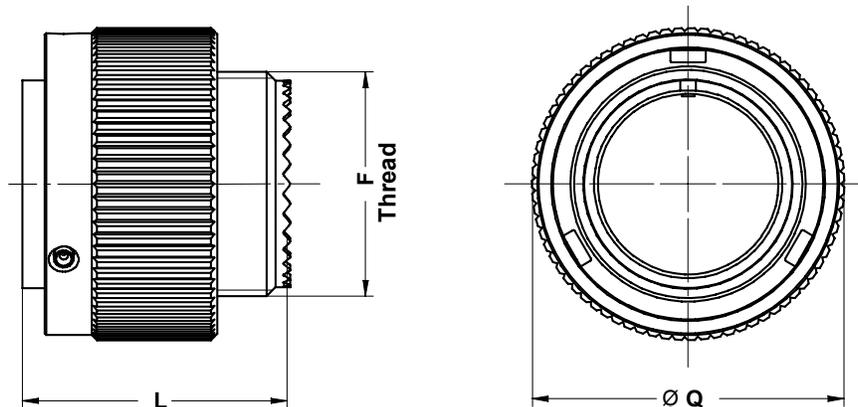
**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS		ACCESSORY OPTIONS	
Sym	Description		
B0	Connector Less Contacts	N1	Connector with IT 3057 A cable clamp
B1	Connector with Gold Plated Contacts	N2	Connector with long backshell
Omit for standard version (Silver plated)		N5	Connector with IT 3057 C cable clamp
<b>FINISH OPTIONS</b>		N12	Connector with IT 3057 A cable clamp and IT 3420 neoprene sleeve
		Omit for standard version	
Sym	Description and RoHS compliant (*)		
F2	Bright Nickel Plating (*)		
F6	Black Electrodeposited Paint (*)		
F7	Black Zn-Co Plating (*)		
F8	Olive Drab Zn-Co Plating		
F11	Electroless Nickel (*)		
Omit for standard version (Cadmium Olive Drab Finish)			

# ITS 3106 A (N0) and ITS 4106 A (N0) Straight Cylindrical Plug Connector with Backend Connector Accessory Mounting Threads



B



### Application Notes:

1. Straight plug with rear threads for attachment of various backend connector accessories. No backshell provided.
2. Connector Class "A" (General Duty).
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3106 A (N0) and ITS 4106 A (N0)  
Straight Cylindrical Plug Connector  
with Backend Connector Accessory Mounting Threads**



**TABLE I: DIMENSIONS**

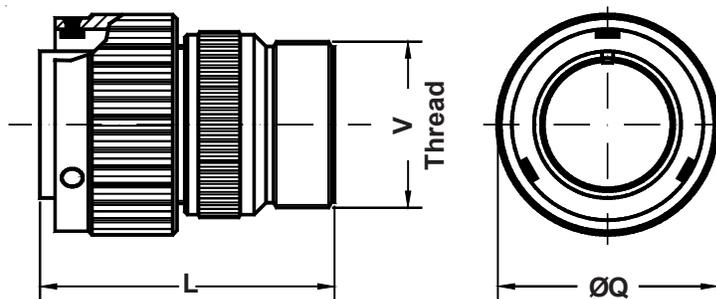
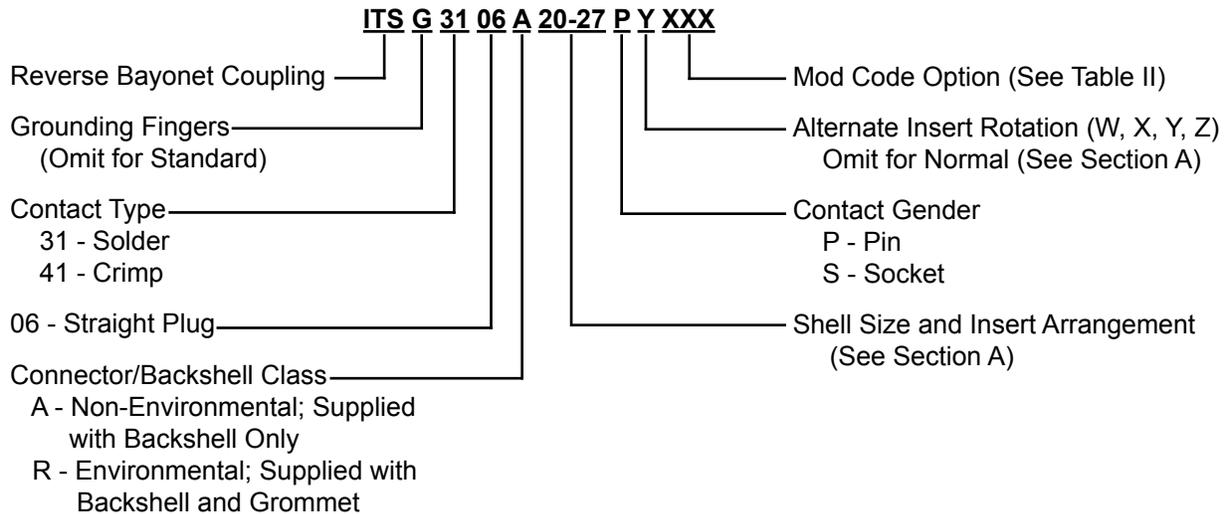
Shell Size	L	ØQ	F Thread
	Max.	±0.2	
10 SL	24.70	22.6	0.6250 - 24UNEF
14 S	24.70	29.0	0.7500 - 20UNEF
16 S	24.70	31.6	0.8750 - 20UNEF
16	34.25	31.6	0.8750 - 20UNEF
18	34.25	36.2	1.0000 - 20UNEF
20	34.25	39.8	1.1250 - 18UNEF
22	34.25	43.0	1.2500 - 18UNEF
24	35.85	46.4	1.3750 - 18UNEF
28	35.65	53.0	1.6250 - 18UNEF
32	37.45	60.0	1.8750 - 16UN
36	37.45	66.2	2.0625 - 16UN
40	37.45	72.3	2.3125 - 16UN



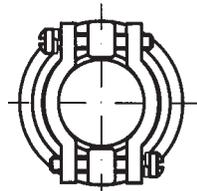
**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

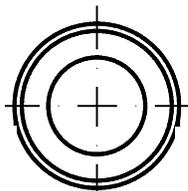
**ITS 3106 (A) and ITS 3106 (R)  
ITS 4106 (A) and ITS 4106 (R)  
Straight Cylindrical Plug Assembly  
with Backshell for the Attachment of Additional Accessories**



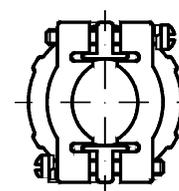
Order Cable Clamps and Sleeves Separately or Use Mod Codes (Table II) to Add Clamp to This Assembly.



**IT 3057 C  
Cable Clamp**



**IT 3420  
Neoprene Sleeve**



**IT 3057 A  
Cable Clamp**

**Application Notes:**

1. Straight plug with backshell for the attachment of strain relief cable clamps.
2. Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet; Class "R" (environmental)—Supplied with backshell and grommet.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts.

ITS 3106 (A) and ITS 3106 (R)  
 ITS 4106 (A) and ITS 4106 (R)  
**Straight Cylindrical Plug Assembly**  
 with Backshell for the Attachment of Additional Accessories



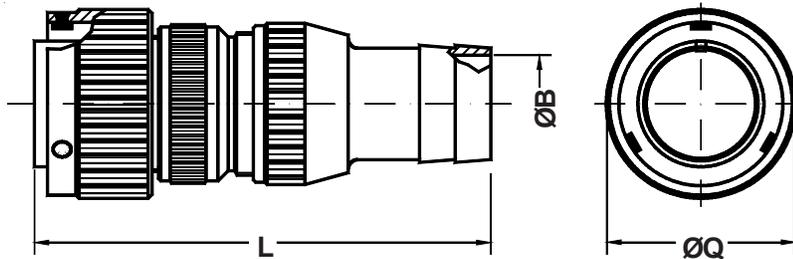
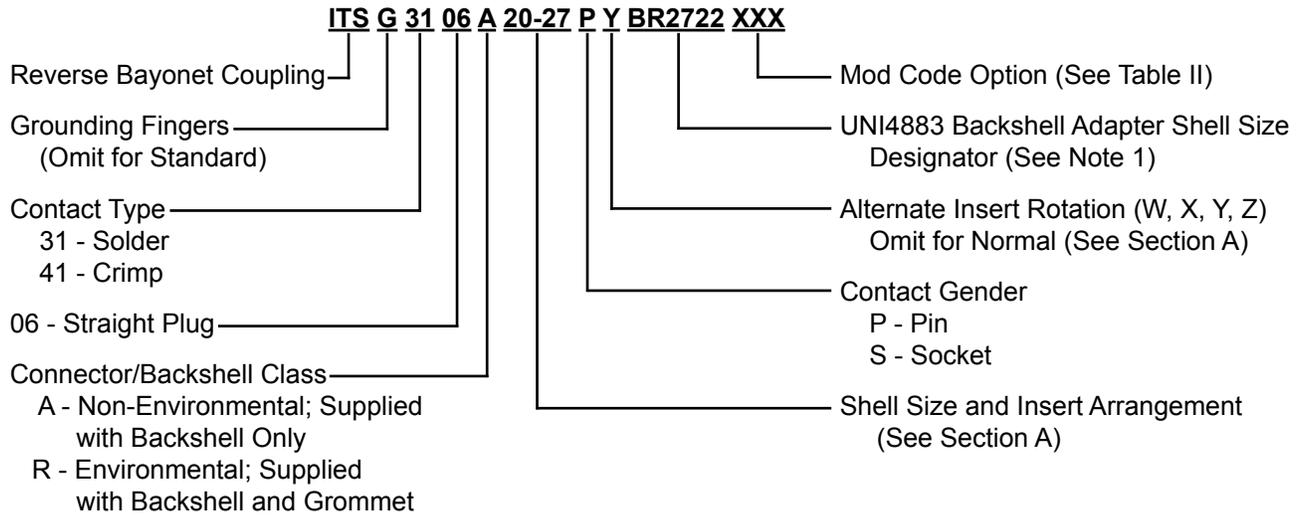
**TABLE I: DIMENSIONS**

Shell Size	L Max.	ØQ ±0.2	V Thread
10 SL	44.0	22.6	0.6250 - 24UNEF
14 S	46.4	29.0	0.7500 - 20UNEF
16 S	46.4	31.6	0.8750 - 20UNEF
16	57.8	31.6	0.8750 - 20UNEF
18	57.8	36.2	1.0000 - 20UNEF
20	58.1	39.8	1.1875 - 18UNEF
22	58.1	43.0	1.1875 - 18UNEF
24	59.7	46.4	1.4375 - 18UNEF
28	66.2	53.0	1.4375 - 18UNEF
32	71.3	60.0	1.7500 - 18UNS
36	76.8	66.2	2.0000 - 18UNS
40	76.8	72.3	2.2500 - 16UN

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS		ACCESSORY OPTIONS	
Sym	Description		
B0	Connector Less Contacts	N1	Connector with IT 3057 A cable clamp
B1	Connector with Gold Plated Contacts	N2	Connector with long backshell
Omit for standard version (Silver plated)		N5	Connector with IT 3057 C cable clamp
FINISH OPTIONS		N12	Connector with IT 3057 A cable clamp and IT 3420 neoprene sleeve
Sym	Description and RoHS compliant (*)	Omit for standard version	
F2	Bright Nickel Plating (*)		
F6	Black Electrodeposited Paint (*)		
F7	Black Zn-Co Plating (*)		
F8	Olive Drab Zn-Co Plating		
F11	Electroless Nickel (*)		
	Omit for standard version (Cadmium Olive Drab Finish)		

## ITS 3106 A (BR) and ITS 4106 A (BR) Straight Cylindrical Plug Assembly with Backshell for Termination of UNI4883 Rubber Conduit



**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	

FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

### Application Notes:

1. Straight plug with rear-end backshell for termination of UNI4883 type rubber conduit. Through mounting holes.
2. Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet;  
Class "R" (environmental)—Supplied with backshell and grommet.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating. Gold plating available.
5. A broad range of other front and rear connector accessories are available.  
See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3106 A (BR) and ITS 4106 A (BR)**  
**Straight Cylindrical Plug Assembly**  
 with Backshell for Termination of UNI4883 Rubber Conduit



**TABLE I: DIMENSIONS**

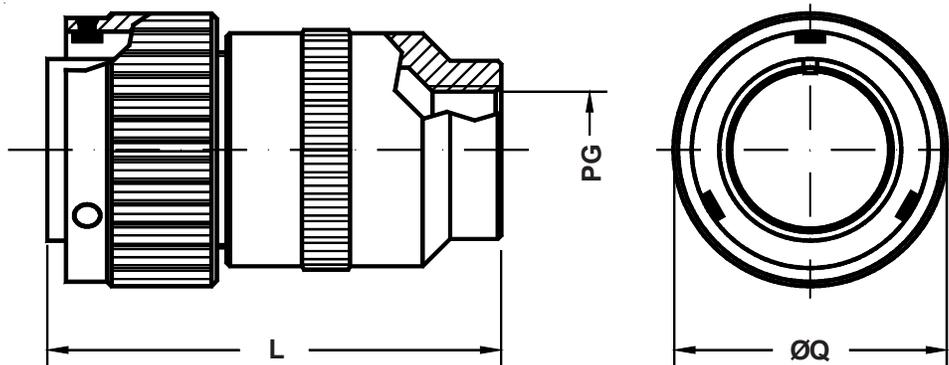
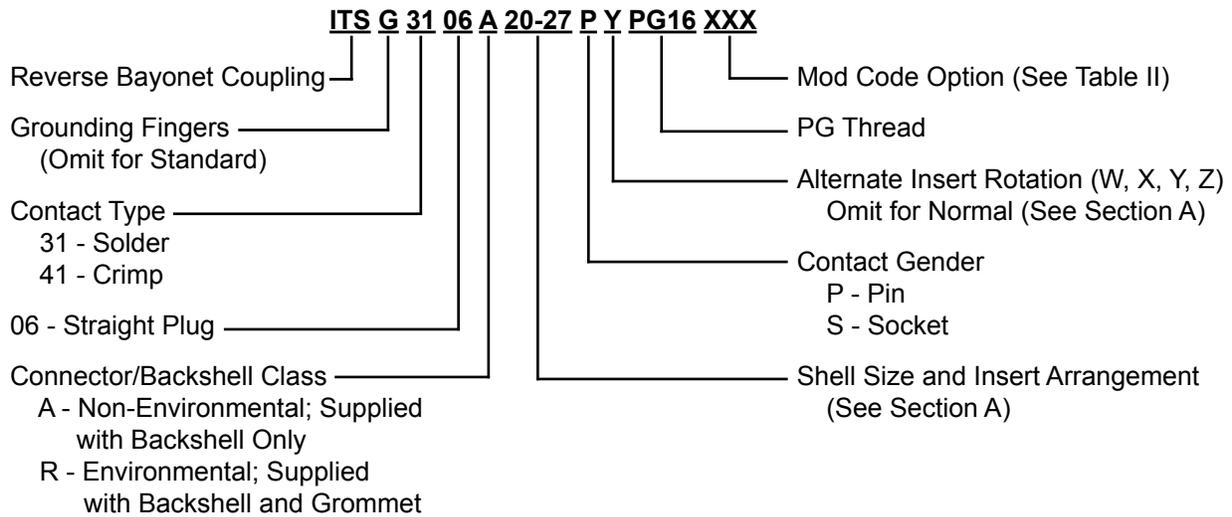
Shell Size	$\varnothing B$ $\pm 0.1$	L Max.	$\varnothing Q$ $\pm 0.2$
10 SL	See Table III Below	90.0	22.6
14 S		91.5	29.0
16 S		91.5	31.6
16		103.0	31.6
18		103.0	36.2
20		103.0	39.8
22		103.0	43.0
24		104.5	46.4
28		111.0	53.0
32		116.5	60.0
36		122.0	66.2
40		122.0	72.3

**TABLE III: BACKSHELL DIMENSIONS**

Shell Size	Rubber tube in accordance with UNI 4883 to be used by size:		$\varnothing B$ $\pm 0.1$	$\varnothing Q$ $\pm 0.2$	
	$\varnothing$ Min	$\varnothing$ Max			
10SL	12.0	17.0	10.5		
18	22.0	27.0	20.5		
20 - 22	12.0	17.0	10.5		
20 - 22	22.0	27.0	20.5		
20 - 22	28.0	33.0	31.5		
24 - 28	20.0	25.0	16.5		
24 - 28	22.0	27.0	20.5		
24 - 28	26.0	31.0	22.5		
24 - 28	28.0	33.0	26.5		
24 - 28	30.0	35.0	26.5		
24 - 28	33.0	38.0	31.5		
24 - 28	45.0	50.0	36.2	24.5	53.0
32	26.0	31.0	24.5	26.5	53.0
32	28.0	33.0	26.5	31.5	53.0
32	33.0	38.0	31.5	31.5	53.0
32	35.0	40.0	31.5	40.0	53.0
32	45.0	50.0	40.0	26.5	57.4
36	30.0	35.0	26.5	31.5	57.4
36	33.0	38.0	31.5	31.5	57.4
36	35.0	40.0	31.5	43.5	57.4
36	45.0	50.0	43.5		
40	36.0	41.0	31.5		
40	40.0	45.0	38.5		
40	45.0	50.0	43.5		
40	50.0	55.0	48.5		



## ITS 3106 A (PG) and ITS 4106 A (PG) Straight Cylindrical Plug Assembly with Backshell for Attachment of PG Cable Glands



### Notes:

1. Straight cylindrical plug assembly with backshell for use with PG cable glands (not included). Metric cable glands not included. Other types of PG backshells can be supplied in various sizes and angles upon request.
2. Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet; Class "R" (environmental)—Supplied with backshell and grommet.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. Other types of front and rear connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3106 A (PG) and ITS 4106 A (PG)  
Straight Cylindrical Plug Assembly  
with Backshell for Attachment of PG Cable Glands**



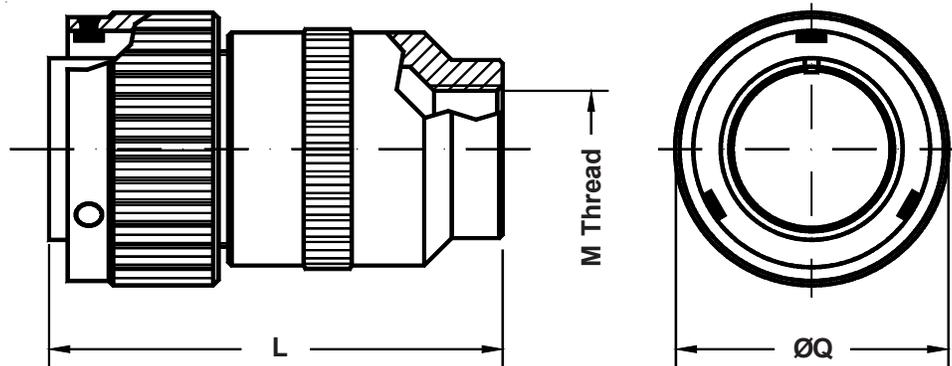
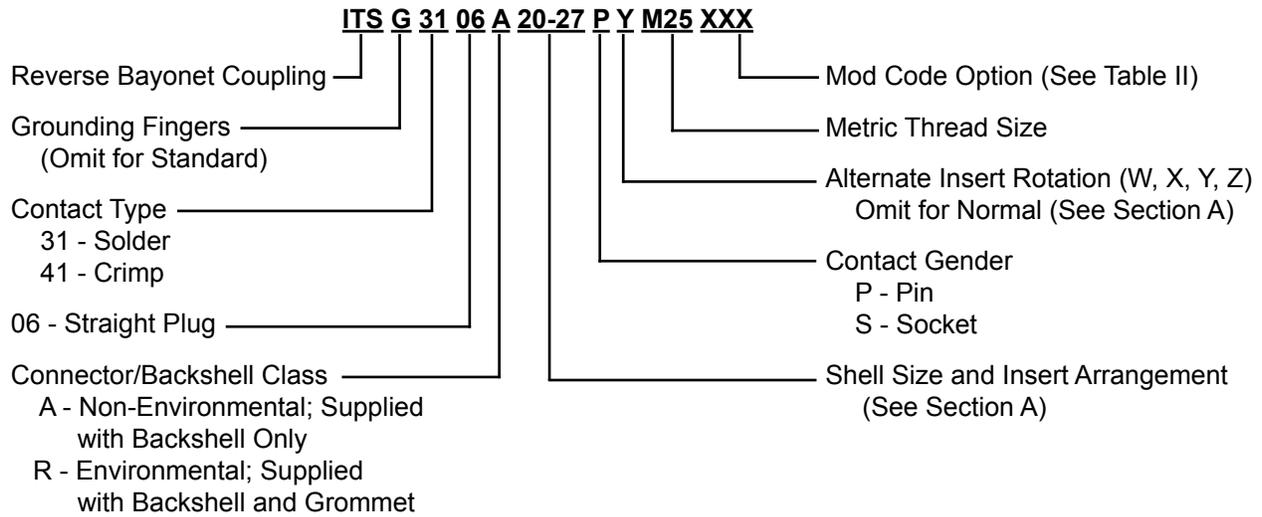
**TABLE I: DIMENSIONS**

Shell Size	L Max.	PG Thread	ØQ ±0.2
10 SL	50.0	7 / 9 / 11	22.6
14 S	52.5	11 / 13.5	29.0
16 S	52.5	9 / 11 / 16	31.6
16	61.0	9 / 11 / 16	31.6
18	66.5	9 / 11 / 16 / 21	36.2
20	69.5	11 / 16 / 21	39.8
22	69.5	13.5 / 16 / 21	43.0
24	71.5	13.5 / 16 / 21 / 29	46.4
28	76.5	16 / 21 / 29	53.0
32	82.5	21 / 29	60.0
36	87.5	21 / 29 / 36	66.2
40	92.5	29 / 36	72.3

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 3106 A (M) and ITS 4106 A (M) Straight Cylindrical Plug Assembly with Backshell for Use with Metric Cable Glands



### Application Notes:

1. Straight cylindrical plug assembly with backshell for attachment of metric thread cable glands. Metric cable glands not included.
2. Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet; Class "R" (environmental)—Supplied with backshell and grommet.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of metric connector accessories are available.  
See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts

**ITS 3106 A (M) and ITS 4106 A (M)  
Straight Cylindrical Plug Assembly  
with Backshell for Use with Metric Cable Glands**



**TABLE I: DIMENSIONS**

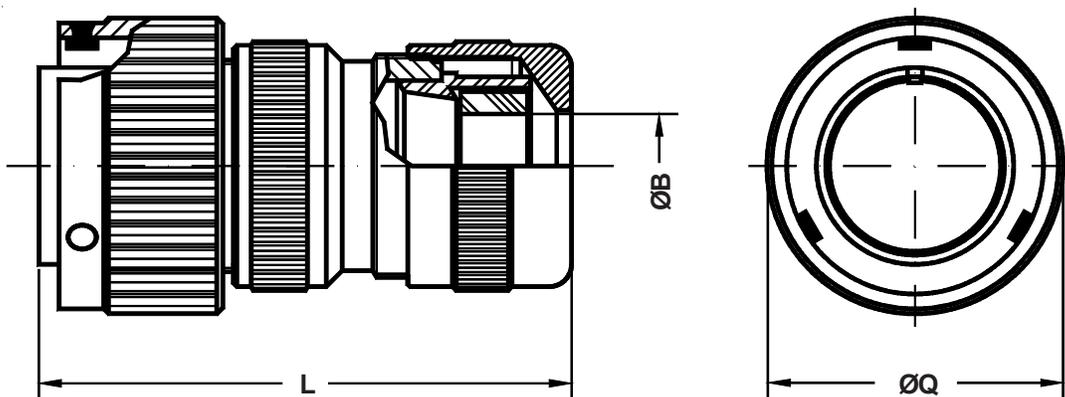
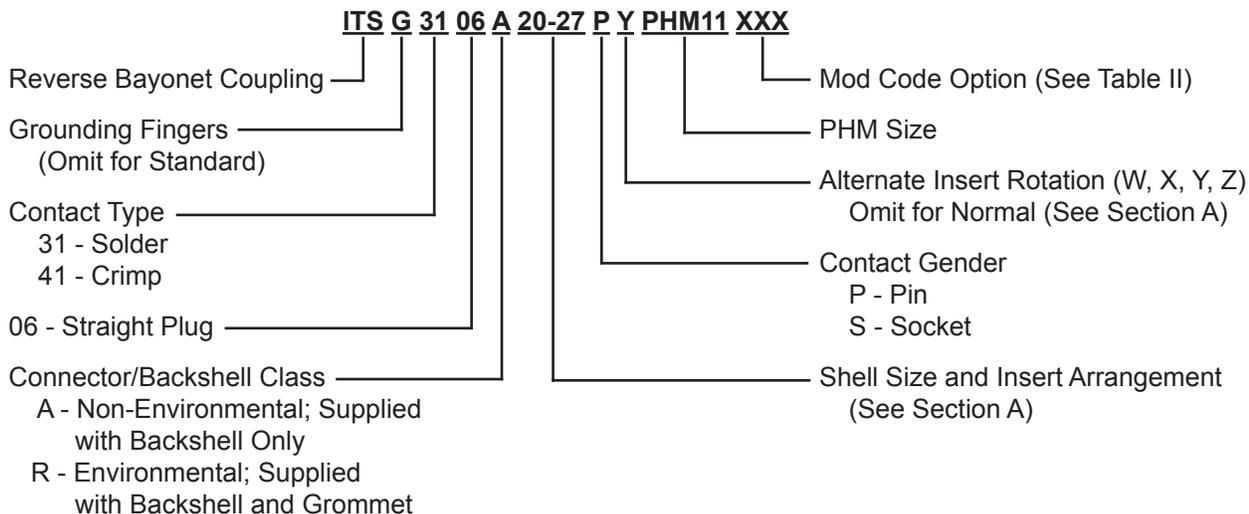
Shell Size	M Thread Other M Threads available on request	L Max.	ØQ ±0.2
10 SL	M12x1,5	76.0	22.6
14 S	M16x1,5	81.5	29.0
16 S	M16x1,5	83.5	31.6
16	M16x1,5	92.0	31.6
18	M20x1,5	101.5	36.2
20	M25x1,5	104.5	39.8
22	M25x1,5	104.5	43.0
24	M32x1,5	110.5	46.4
28	M32x1,5	115.5	53.0
32	M36x1,5	121.5	60.0
36	M40x1,5	136.5	66.2
40	M48x1,5	141.5	72.3

**B**

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 3106 A (PHM) and ITS 4106 A (PHM) Straight Cylindrical Plug Assembly with Environmental PHM Cable Clamp



### Application Notes:

1. Straight plug assembly with a PHM cable clamp.
2. Connector/Backshell Class "A" (non-environmental)—No grommet supplied.  
Connector/Backshell Class "R" (environmental)—Supplied with wire sealing grommet.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of metric connector accessories are available.  
See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts

**ITS 3106 A (PHM) and ITS 4106 A (PHM)  
Straight Cylindrical Plug Assembly  
with Environmental PHM Cable Clamp**



**TABLE I: DIMENSIONS**

Shell Size	PHM Size	ØB	L	ØQ
		min. – Max.	Max.	±0.2
10 SL	9	2–9	60	22.6
14 S	11	2–11	60	29.0
16 S	11	2–11	60	31.6
16	11	2–11	70	31.6
18	11 / 18	2–11 / 2–16.5	70	36.2
20	11 / 18	2–11 / 2–16.5	70	39.8
22	18	2–16.5	70	43.0
24	18 / 22 / 24	2–16.5 / 15–20 / 19–24	80	46.4
28	18 / 22 / 24	2–16.5 / 15–20 / 19–24	80	53.0
32	22 / 24	15–20 / 19–24	80	60.0
36	35	23–35	95	66.2
40	35	23–35	95	72.3

**B**

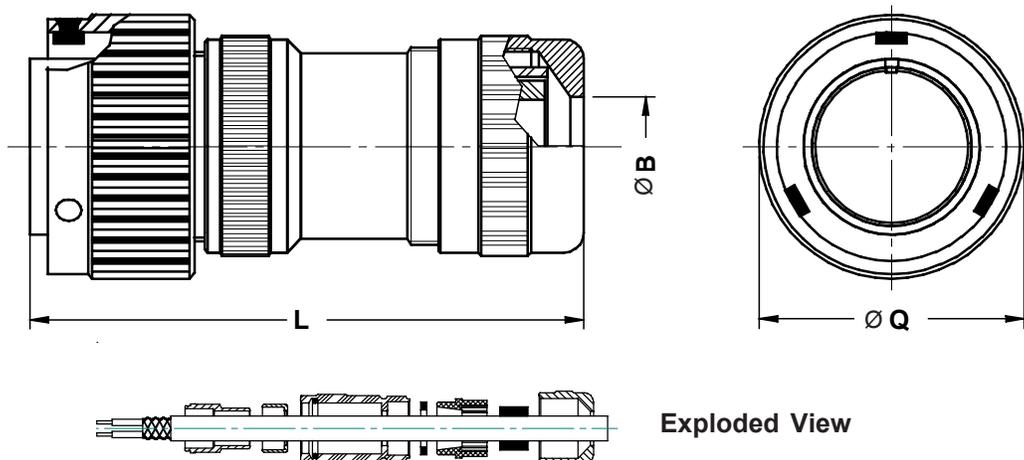
**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

# ITS 3106 A (PHM-EMI67) and ITS 4106 A (PHM-EMI67) Straight Cylindrical Plug Assembly with EMI/RFI and Environmental PHM Backshell

**ITS G 31 06 A 20-27 P Y PHM11EMI67 XXX**

Reverse Bayonet Coupling	Mod Code Option (See Table II)
Grounding Fingers (Omit for Standard)	PHM Size
Contact Type 31 - Solder 41 - Crimp	Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
06 - Straight Plug	Contact Gender P - Pin S - Socket
Connector/Backshell Class A - Non-Environmental; Supplied with Backshell Only	Shell Size and Insert Arrangement (See Section A)



Exploded View

### Application Notes:

1. Straight plug with an EMI/RFI PHM. IP67 when used with correct neoprene sealing bushing.
2. Connector/Backshell Class "A" (non-environmental)—No grommet supplied.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of metric connector accessories are available.  
See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts

**TABLE I: DIMENSIONS**

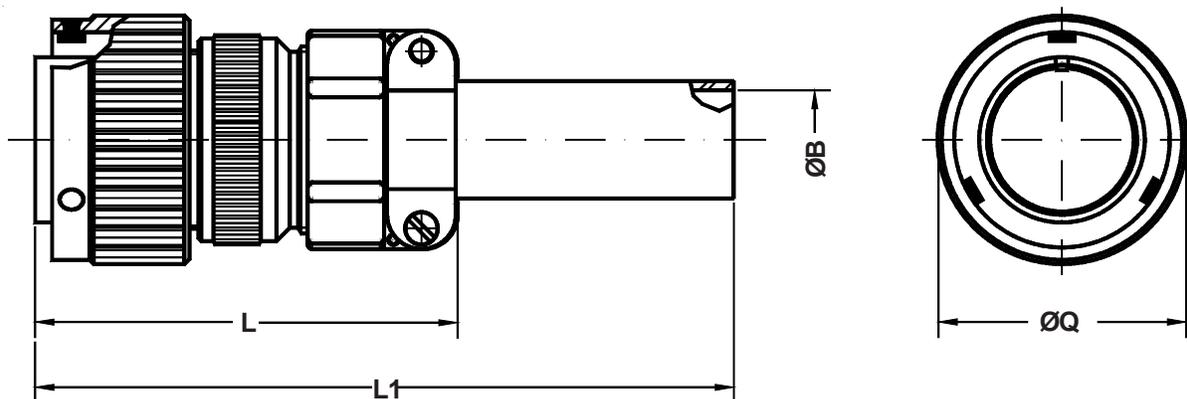
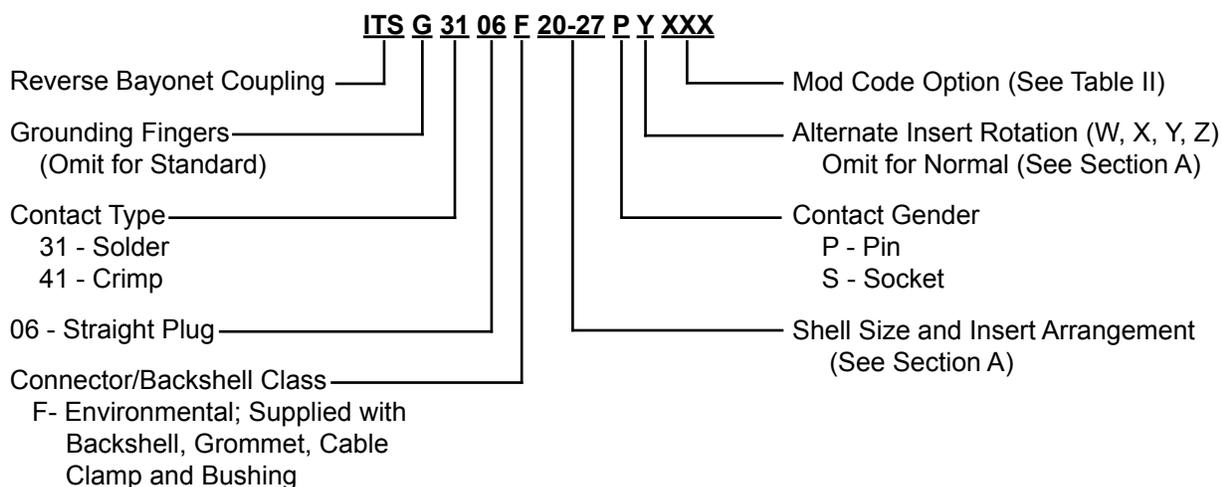
Shell Size	PHM Size	ØB		L Max.	ØQ ±0.2
		Min.	% Max.		
<b>10 SL</b>	9	2	9	70	22.6
<b>14 S</b>	11	2	11	70	29.0
<b>16 S</b>	11	2	11	70	31.6
<b>16</b>	11	2	11	80	31.6
<b>18</b>	11 / 18	2	11 / 2-16.5	80	36.2
<b>20</b>	11 / 18	2	11 / 2-16.5	80	39.8
<b>22</b>	18	2	16.5	80	43.0
<b>24</b>	18 / 22 / 24	2	16.5 / 15-20 / 19-24	90	46.4
<b>28</b>	18 / 22 / 24	2	16.5 / 15-20 / 19-24	90	53.0
<b>32</b>	22 / 24	15	20 / 19-24	90	60.0
<b>36</b>	35	23	35	105	66.2
<b>40</b>	35	23	35	105	72.3

**B**

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 3106 (F) and ITS 4106 (F) Straight Cylindrical Plug Assembly with Class A IT3057 Cable Clamp and Neoprene Bushing



### Application Notes:

1. Straight plug with an insulating grommet, environmental backshell, class A IT3057 cable clamp for individual wires and neoprene bushing.
2. Connector/Backshell Class "F" (environmental)—Supplied with wire sealing grommet.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available.  
See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts

**ITS 3106 (F) and ITS 4106 (F)**  
**Straight Cylindrical Plug Assembly**  
 with Class A IT3057 Cable Clamp and Neoprene Bushing



**TABLE I: DIMENSIONS**

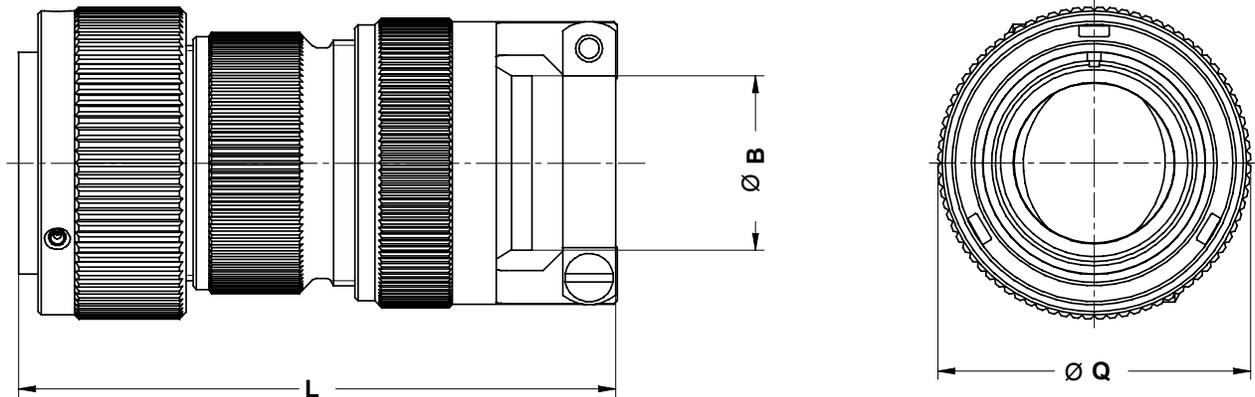
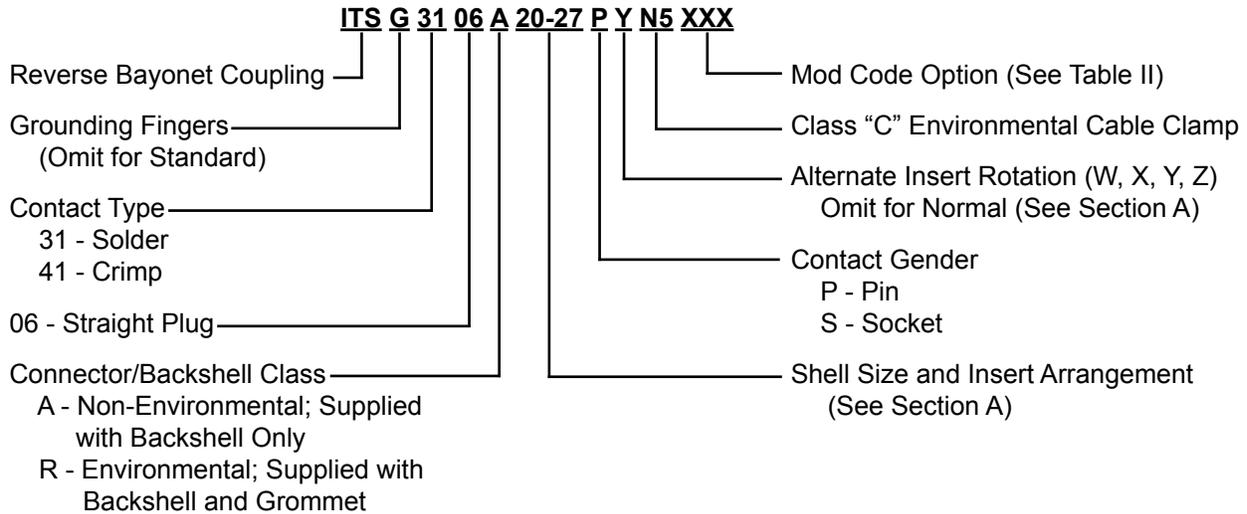
Shell Size	ØB ±0.1	L Max.	L1 Max.	ØQ ±0.2
10 SL	5.58	55.0	125	22.6
14 S	7.92	58.4	125	29.0
16 S	11.09	60.4	125	31.6
16	11.09	71.8	135	31.6
18	14.27	77.8	140	36.2
20	15.87	74.0	130	39.8
22	15.87	74.0	130	43.0
24	19.05	76.7	130	46.4
28	19.05	83.2	135	53.0
32	23.79	90.3	140	60.0
36	31.75	96.8	145	66.2
40	34.92	115.8	160	72.3

**B**

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

**ITS 3106 A (N5) and ITS 3106 R (N5)  
ITS 4106 A (N5) and ITS 4106 R (N5)  
Straight Cylindrical Plug Assembly  
with Class C (Environmental) IT3057 Cable Clamp**



**Application Notes:**

1. Straight cylindrical plug with a class C (environmental) IT3057 cable clamp for use with jacketed cable.
2. Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet; Class "R" (environmental)—Supplied with backshell and grommet.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating available.
5. A broad range of additional connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts

**ITS 3106 A (N5) and ITS 3106 R (N5)  
ITS 4106 A (N5) and ITS 4106 R (N5)  
Straight Cylindrical Plug Assembly  
with Class C (Environmental) IT3057 Cable Clamp**



**TABLE I: DIMENSIONS**

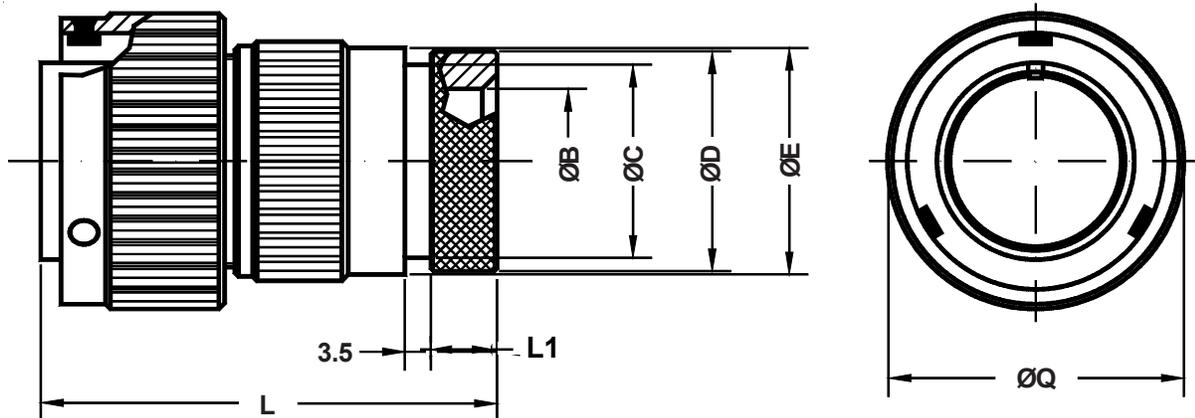
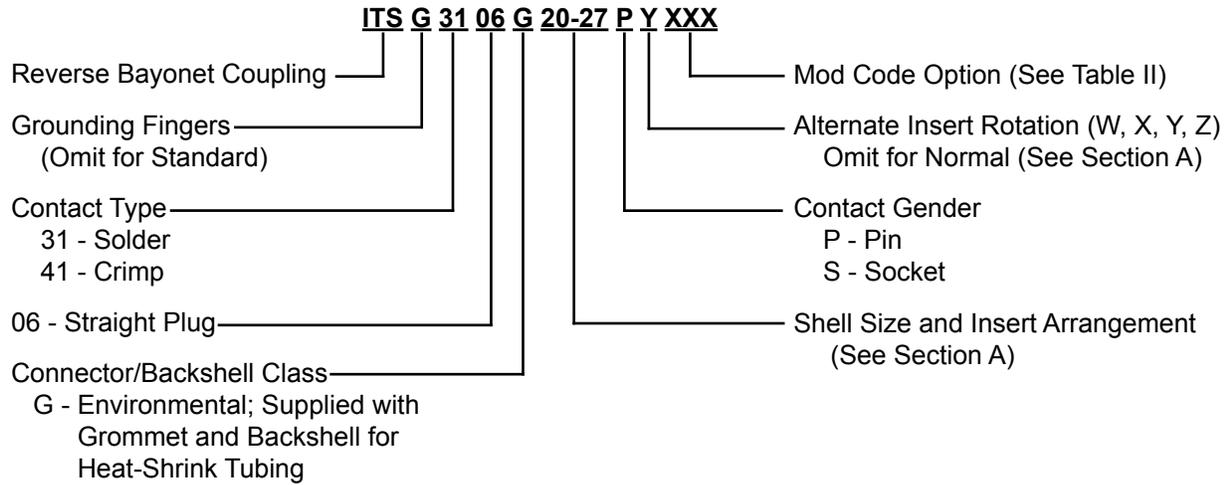
Shell Size	ØB		L Max.	ØQ ±0.2
	Open	Closed		
10 SL	7.93	2.38	73	22.6
14 S	11.12	5.84	77	29.0
16 S	13.48	8.00	77	31.6
16	13.48	8.00	88	31.6
18	15.87	9.60	91	36.2
20	19.00	11.30	91	39.8
22	19.00	11.30	92	43.0
24	23.80	15.50	97	46.4
28	23.80	15.50	103	53.0
32	31.75	23.40	113	60.0
36	35.00	23.40	120	66.2
40	41.25	29.90	135	72.3



**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 3106 (G) and ITS 4106 (G) Straight Cylindrical Plug Assembly with Environmental Backshell for Heat-Shrink Tubing



### Application Notes:

1. Straight cylindrical plug with a backshell for heat-shrink tubing.
2. Connector/Backshell Class "G" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available.  
See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3106 (G) and ITS 4106 (G)**  
**Straight Cylindrical Plug Assembly**  
**with Environmental Backshell for Heat-Shrink Tubing**



**TABLE I: DIMENSIONS**

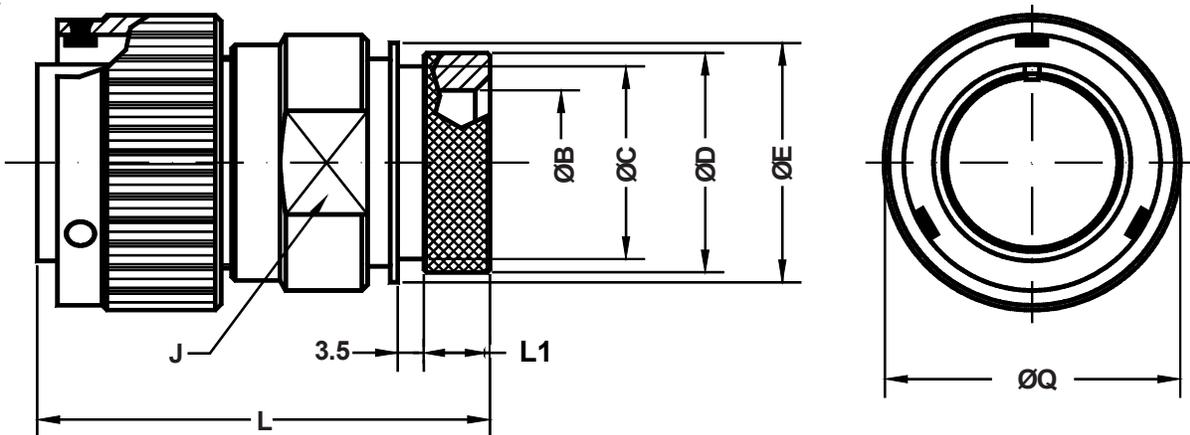
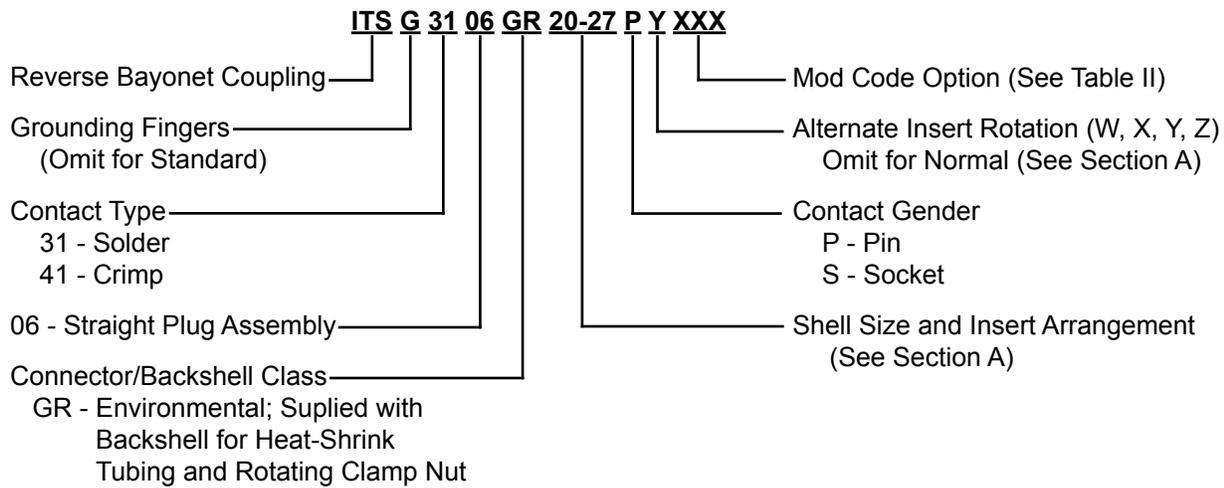
Shell Size	$\varnothing B$	$\varnothing C$	$\varnothing D$	$\varnothing E$	L	L1	$\varnothing Q$
	Min.	$\pm 0.1$	$\pm 0.2$	$\pm 0.2$	Max.	Max.	$\pm 0.2$
<b>10 SL</b>	8.5	13.0	15.5	17.0	52.7	8.2	22.6
<b>14 S</b>	12.0	16.5	19.1	20.1	53.4	8.2	29.0
<b>16 S</b>	14.5	21.5	23.9	23.5	53.4	8.2	31.6
<b>16</b>	14.5	21.5	23.9	23.5	65.8	8.0	31.6
<b>18</b>	17.5	21.7	23.9	26.5	65.8	8.0	36.2
<b>20</b>	19.5	26.0	29.6	30.5	66.1	8.9	39.8
<b>22</b>	22.0	26.0	29.6	33.6	66.1	8.9	43.0
<b>24</b>	25.0	34.5	37.8	36.1	65.7	9.2	46.4
<b>28</b>	29.0	34.5	37.8	41.4	66.2	9.2	53.0
<b>32</b>	34.0	43.6	47.8	48.6	73.8	11.7	60.0
<b>36</b>	38.5	43.6	47.8	54.8	83.8	11.7	66.2
<b>40</b>	48.0	52.6	57.8	60.9	83.8	11.7	72.3

**B**

**TABLE II: MODIFICATION CODES**

<b>CONTACT OPTIONS</b>	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
<b>Omit for standard version (Silver plated)</b>	
<b>FINISH OPTIONS</b>	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
<b>Omit for standard version (Cadmium Olive Drab Finish)</b>	

## ITS 3106 (GR) and ITS 4106 (GR) Straight Cylindrical Plug Assembly with Rotating Coupling Nut Shrink Boot Adapter



### Application Notes:

1. Straight cylindrical plug with a backshell for heat shrink tubing. Rotating coupling nut supplied.
2. Connector/Backshell Class "GR" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available.  
See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts

**ITS 3106 (GR) and ITS 4106 (GR)  
Straight Cylindrical Plug Assembly  
with Rotating Coupling Nut Shrink Boot Adapter**



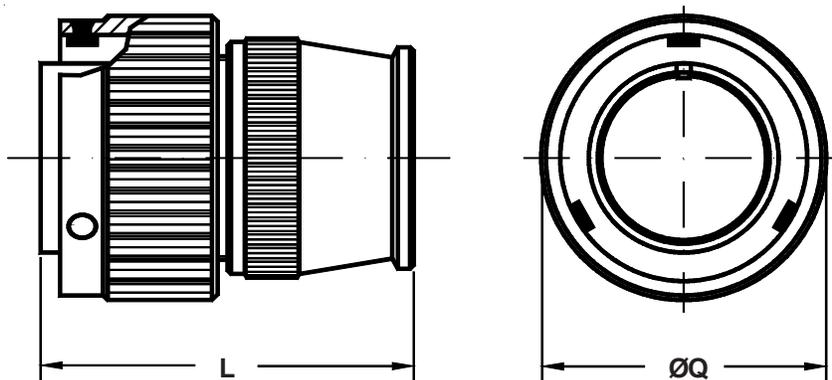
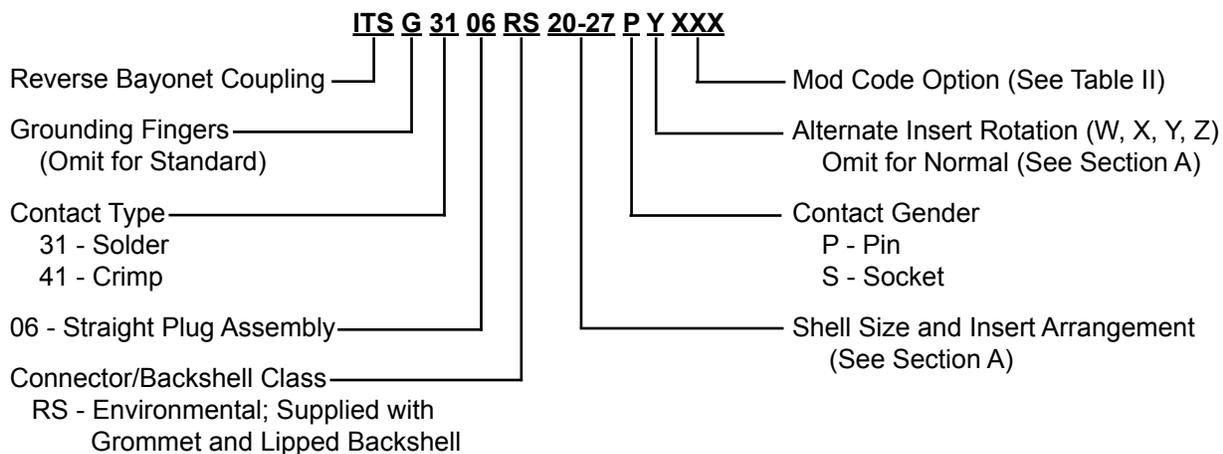
**TABLE I: DIMENSIONS**

Shell Size	ØB	ØC	ØD	ØE	J Key	L	L1	ØQ
	Min.	±0.1	±0.2	±0.1		Max.	±0.1	±0.2
<b>10 SL</b>	8.6	13.0	15.5	17.0	20	50.0	8.2	22.6
<b>14 S</b>	10.7	16.5	19.1	20.1	23	50.0	8.2	29.0
<b>16 S</b>	14.0	24.9	23.9	23.5	26	50.0	8.0	31.6
<b>16</b>	14.0	24.9	23.9	23.5	26	56.5	8.0	31.6
<b>18</b>	17.5	21.7	23.9	26.5	28	59.5	8.0	36.2
<b>20</b>	18.8	26.2	29.6	30.2	32	59.5	8.9	39.8
<b>22</b>	21.0	26.2	29.6	33.6	36	59.5	9.2	43.0
<b>24</b>	25.4	34.0	37.8	36.1	39	60.5	9.5	46.4
<b>28</b>	28.4	34.3	37.8	41.4	46	61.5	9.2	53.0
<b>32</b>	34.0	43.6	47.8	48.6	52	65.5	11.7	60.0
<b>36</b>	40.5	43.6	47.8	54.0	58	65.5	11.5	66.2
<b>40</b>	49.0	52.6	57.8	61.0	65	65.5	11.5	72.3

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 3106 (RS) and ITS 4106 (RS) Straight Cylindrical Plug Assembly with Lipped Backshell



### Application Notes:

1. Straight plug assembly with a wire sealing grommet and backshell for use with individual wire assemblies.
2. Connector/Backshell Class "RS" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available.  
See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts

**ITS 3106 (RS) and ITS 4106 (RS)  
Straight Cylindrical Plug Assembly  
with Lipped Backshell**



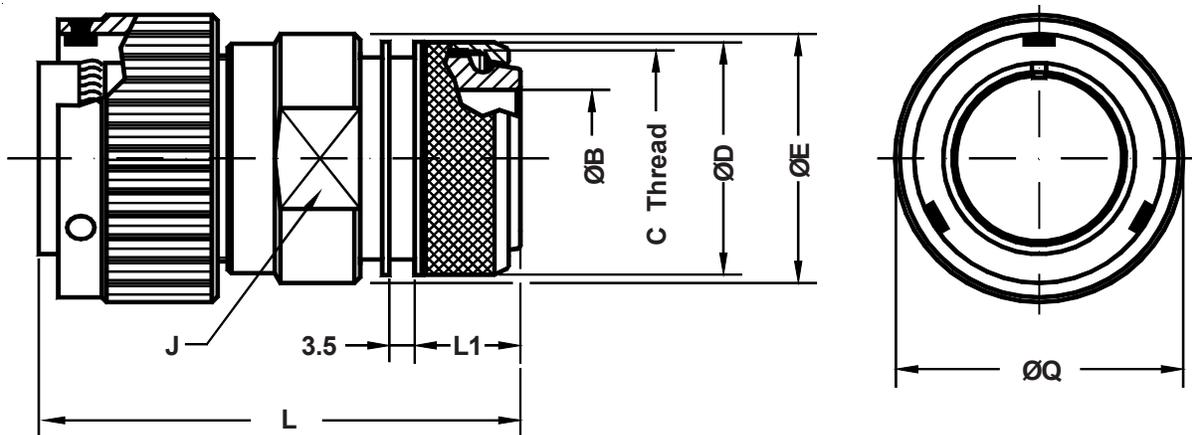
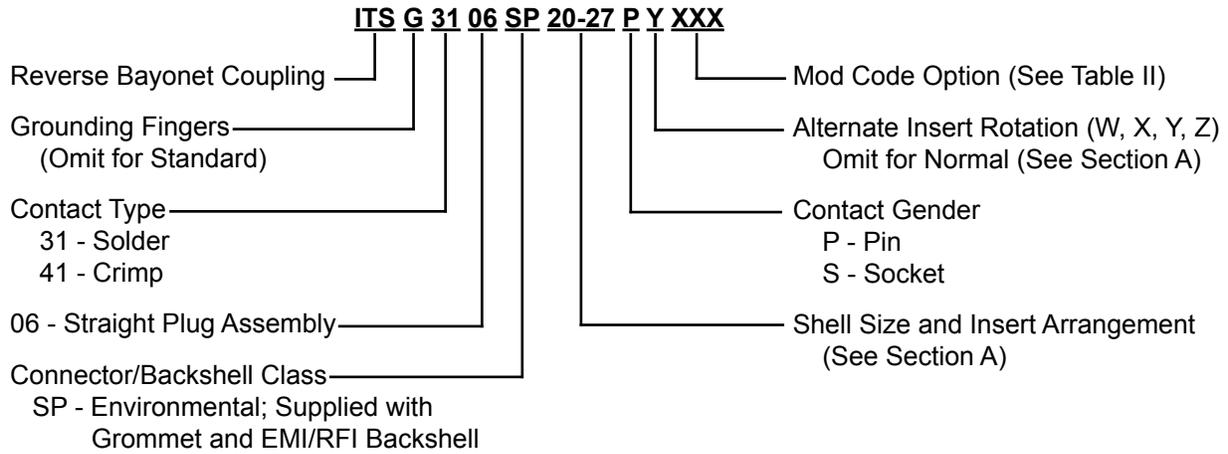
**TABLE I: DIMENSIONS**

Shell Size	L	ØQ
	Max.	±0.2
10 SL	38.0	22.6
14 S	47.5	29.0
16 S	45.5	31.6
16	55.5	31.6
18	55.5	36.2
20	55.5	39.8
22	55.5	43.0
24	58.5	46.4
28	58.5	53.0
32	58.5	60.0
36	58.5	66.2
40	58.5	72.3

**B**

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	



#### Application Notes:

1. Straight plug assembly with EMI/RFI shield termination backshell. Backshell features rotating coupling nut and a "braid-trap" for termination of cable shielding. Heat-shrink tubing may also be attached for additional environmental and mechanical protection.
2. Connector/Backshell Class "SP" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts

TABLE I: DIMENSIONS

Shell Size	ØB	C Thread	ØD	ØE	J Key	L	L1	ØQ
	Min.		±0.2	±0.2		Max.	±0.1	±0.2
10 SL	8.6	M16 x 1	18.5	22.0	20	52.0	13.5	22.6
14 S	10.7	M20 x 1	22.3	25.0	23	52.0	13.5	29.0
16 S	13.9	M23 x 1	25.3	28.0	26	52.0	14.6	31.6
16	13.9	M23 x 1	25.3	28.0	26	63.5	14.6	31.6
18	15.0	M26 x 1	28.0	30.0	28	63.5	14.6	36.2
20	18.8	M30 x 1	32.3	34.5	32	64.5	14.6	39.8
22	22.8	M32 x 1	34.3	38.0	36	64.5	14.6	43.0
24	25.4	M36 x 1	38.3	41.0	39	66.0	14.6	46.4
28	28.3	M39 x 1	41.2	48.0	46	66.0	14.6	53.0
32	35.0	M45 x 1	48.3	54.0	52	67.5	14.6	60.0
36	40.5	M52 x 1	55.0	61.0	58	68.0	15.5	66.2
40	48.0	M59 x 1	62.0	68.0	65	68.0	15.5	72.3

B

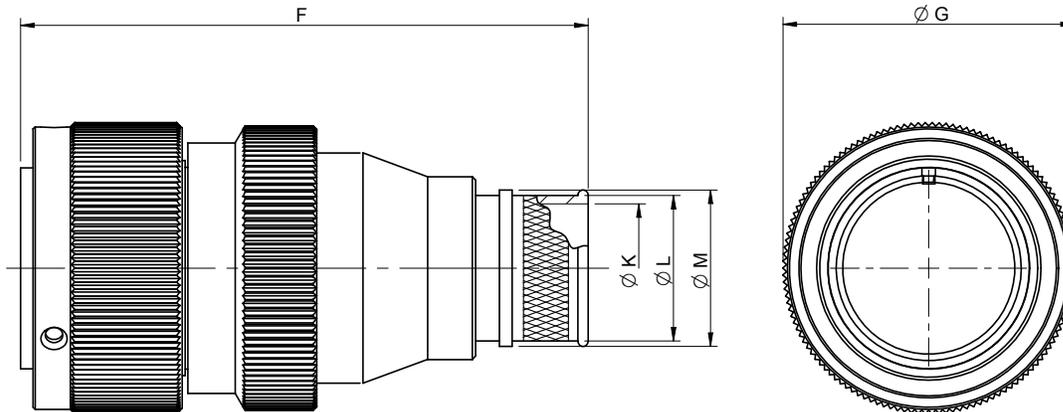
TABLE II: MODIFICATION CODES

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 3106 A (ZLF) and ITS 4106 A (ZLF) Straight Cylindrical Plug Assembly with EMI/RFI Banding Backshell

**ITS G 31 06 A 20-27 P Y ZLF XXX**

Reverse Bayonet Coupling	ITS	Mod Code Option (See Table II)
Grounding Finger (Omit for Standard)	G	BAND-IT Backshell
Contact Type 31 - Solder 41 - Crimp	31	Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
06 - Straight Plug	06	Contact Gender P - Pin S - Socket
Connector/Backshell Class A - Non-environmental; Supplied with Backshell only R - Environmental; Supplied with Backshell and Grommet	A	Shell Size and Insert Arrangement (See Section A)
	20-27	
	P	
	Y	
	ZLF	
	XXX	



### Application Notes:

1. Straight cylindrical plug assembly with backshell for attachment of BAND-IT® EMI/RFI Shield Termination Bands.
2. Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet; Class "R" (environmental)—Supplied with backshell and grommet.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3106 A (ZLF) and ITS 4106 A (ZLF)**  
**Straight Cylindrical Plug Assembly**  
**with EMI/RFI Banding Backshell**



**TABLE I: DIMENSIONS**

SIZE	F (max)	G (±0.2)
10SL	69	22.6
14S	76	29
16S	76	31.6
16	91	31.6
18	91	36.2
20	92	39.8
22	92	43
24	93	46.4
28	100	53
32	105	60
36	111	66.2
40	111	72.3

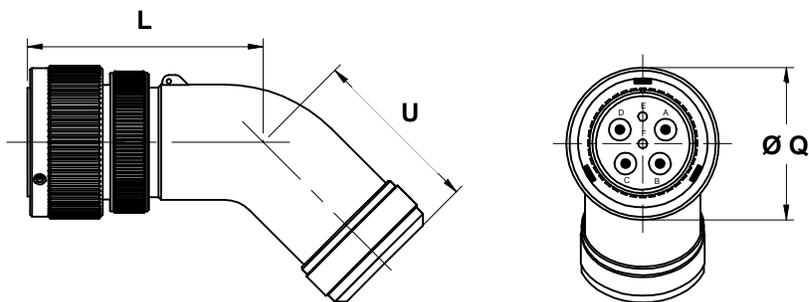
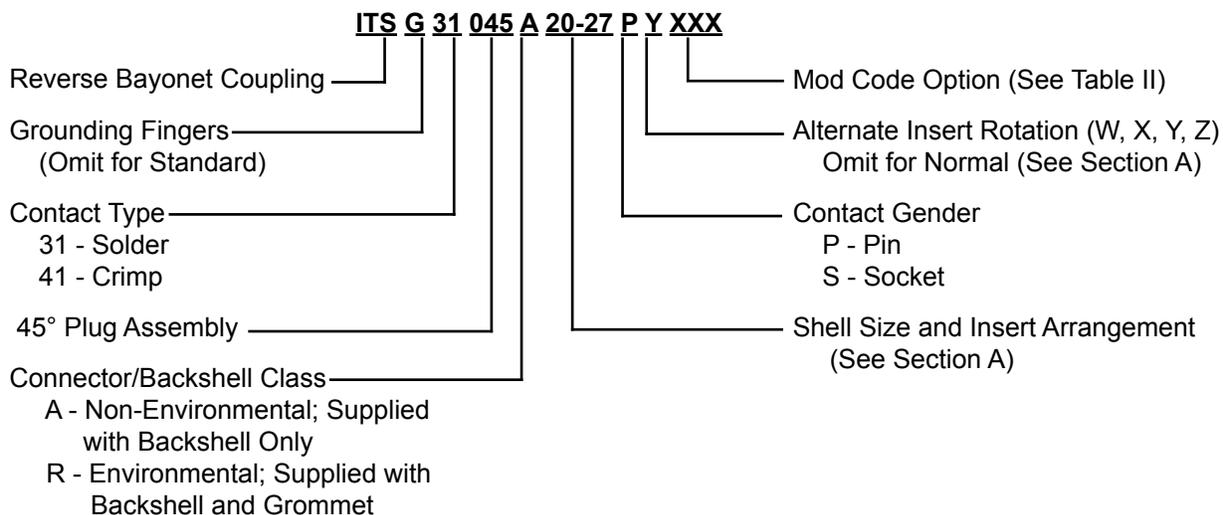
**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

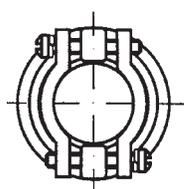
**TABLE III: ENTRY SIZE TABLE**

Entry size	ØK	ØL	ØM
01	3.2	6.4	7.9
02	4.8	7.9	9.5
03	6.4	9.5	11.1
04	7.9	11.1	12.7
05	9.5	12.7	14.3
06	11.1	14.3	15.8
07	12.7	15.9	17.4
08	14.3	17.5	19.1
09	15.9	19.1	20.6
10	17.5	20.6	22.2
11	19.1	22.2	23.8
12	20.6	23.8	25.4
13	22.2	25.4	27.0
14	23.8	27.0	28.5
15	25.4	28.6	30.1
16	27.0	30.2	31.8
17	28.6	31.8	33.3
18	31.8	34.9	36.5
19	34.9	38.1	39.7
20	38.1	41.3	42.8
21	41.3	44.5	46.0
22	44.5	47.6	49.2
23	47.6	50.8	52.4
24	50.8	54.0	55.5

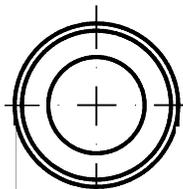
# ITS 31045 (A) and ITS 31045 (R) ITS 41045 (A) and ITS 41045 (R) Cylindrical Plug Assembly with 45° Backshell



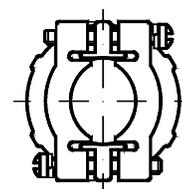
Order Cable Clamps and Sleeves Separately or Use Mod Codes (Table II) to Add Clamp to This Assembly.



**IT 3057 C**  
Cable Clamp



**IT 3420**  
Neoprene Sleeve



**IT 3057 A**  
Cable Clamp

### Application Notes:

- 45° plug assembly with backshell for the attachment of strain relief cable clamps.
- Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet; Class "R" (environmental)—Supplied with backshell and grommet.
- Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
- Standard contact material consists of copper alloy with silver plating or gold plating.
- A broad range of other front and rear connector accessories are available. See our website and/or contact the factory for complete information.
- Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts

**ITS 31045 (A) and ITS 31045 (R)  
ITS 41045 (A) and ITS 41045 (R)  
Cylindrical Plug Assembly with 45° Backshell**



**TABLE I: DIMENSIONS**

Shell Size	F Thread	L Max.	ØQ ±0.2	U ±0.2
16 S	0.8750 - 20UNEF	55.0	31.6	24.6
16	0.8750 - 20UNEF	64.0	31.6	24.6
18	1.0000 - 20UNEF	68.0	36.2	27.0
20	1.1875 - 18UNEF	73.0	39.8	28.6
22	1.1875 - 18UNEF	73.0	43.0	36.0
24	1.4375 - 18UNEF	81.0	46.4	44.3

For further sizes, please contact the factory.

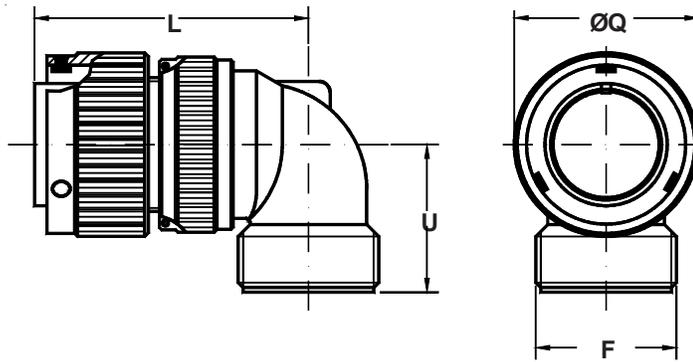
**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS		ACCESSORY OPTIONS	
Sym	Description		
B0	Connector Less Contacts	N1	Connector with IT 3057 A cable clamp
B1	Connector with Gold Plated Contacts	N2	Connector with long backshell
Omit for standard version (Silver plated)		N5	Connector with IT 3057 C cable clamp
FINISH OPTIONS		N12	Connector with IT 3057 A cable clamp and IT 3420 neoprene sleeve
Sym	Description and RoHS compliant (*)	Omit for standard version	
F2	Bright Nickel Plating (*)		
F6	Black Electrodeposited Paint (*)		
F7	Black Zn-Co Plating (*)		
F8	Olive Drab Zn-Co Plating		
F11	Electroless Nickel (*)		
	Omit for standard version (Cadmium Olive Drab Finish)		

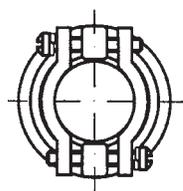
# ITS 3108 (A) and ITS 3108 (R) ITS 4108 (A) and ITS 4108 (R) Cylindrical Plug Assembly with 90° Backshell

**ITS G 31 08 A 20-27 P Y XXX**

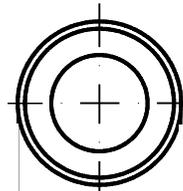
Reverse Bayonet Coupling	Mod Code Option (See Table II)
Grounding Fingers (Omit for Standard)	Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
Contact Type 31 - Solder 41 - Crimp	Contact Gender P - Pin S - Socket
08 - 90° Plug Assembly	Shell Size and Insert Arrangement (See Section A)
Connector/Backshell Class A - Non-Environmental; Supplied with Backshell Only R - Environmental; Supplied with Backshell and Grommet	



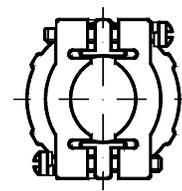
*Order Cable Clamps and Sleeves Separately or Use Mod Codes (Table II) to Add Clamp to This Assembly.*



**IT 3057 C  
Cable Clamp**



**IT 3420  
Neoprene Sleeve**



**IT 3057 A  
Cable Clamp**

### Application Notes:

- 90° plug assembly with backshell for the attachment of strain relief cable clamps.
- Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet; Class "R" (environmental)—Supplied with backshell and grommet.
- Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
- Standard contact material consists of copper alloy with silver plating or gold plating.
- A broad range of other front and rear connector accessories are available. See our website and/or contact the factory for complete information.
- Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts

ITS 3108 (A) and ITS 3108 (R)  
 ITS 4108 (A) and ITS 4108 (R)  
 Cylindrical Plug Assembly with 90° Backshell



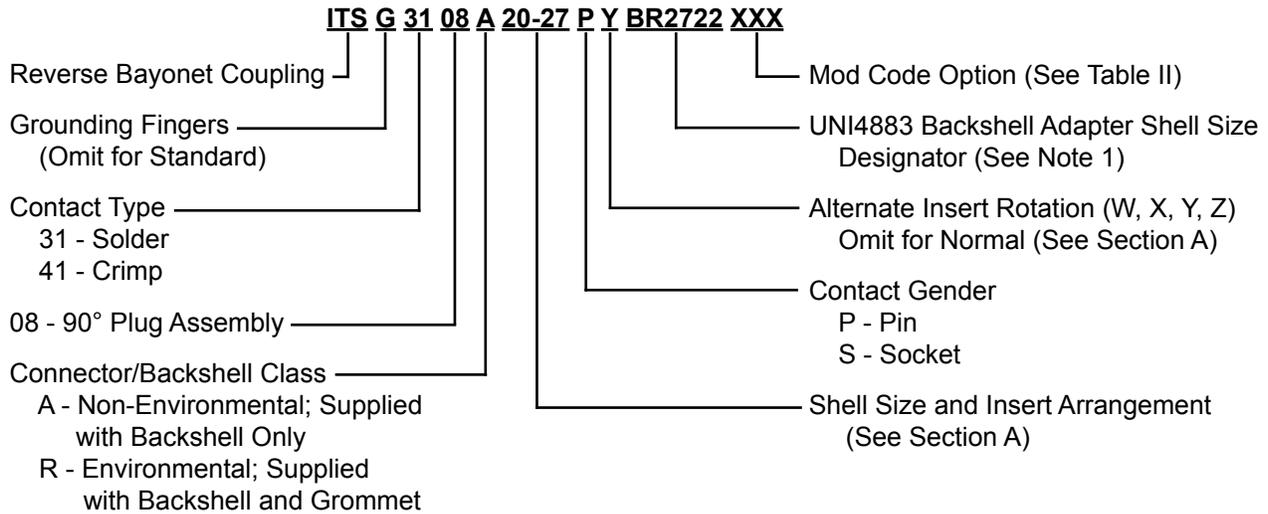
TABLE I: DIMENSIONS

Shell Size	F Thread	L Max.	ØQ ±0.2	U ±0.2
10 SL	0.6250 - 24UNEF	40	22.6	25.0
14 S	0.7500 - 20UNEF	42	29.0	26.5
16 S	0.8750 - 20UNEF	46	31.6	27.0
16	0.8750 - 20UNEF	55	31.6	27.0
18	1.0000 - 20UNEF	57	36.2	30.0
20	1.1875 - 18UNEF	62	39.8	32.0
22	1.1875 - 18UNEF	62	43.0	32.0
24	1.4375 - 18UNEF	67	46.4	37.0
28	1.4375 - 18UNEF	67	53.0	38.0
32	1.7500 - 18UNS	72	60.0	45.5
36	2.0000 - 18UNS	75	66.2	47.2
40	2.2500 - 16UN	78	72.3	52.0

TABLE II: MODIFICATION CODES

CONTACT OPTIONS		ACCESSORY OPTIONS	
Sym	Description		
B0	Connector Less Contacts	N1	Connector with IT 3057 A cable clamp
B1	Connector with Gold Plated Contacts	N2	Connector with long backshell
Omit for standard version (Silver plated)		N5	Connector with IT 3057 C cable clamp
FINISH OPTIONS		N12	Connector with IT 3057 A cable clamp and IT 3420 neoprene sleeve
Omit for standard version (Cadmium Olive Drab Finish)		Omit for standard version	
Sym	Description and RoHS compliant (*)		
F2	Bright Nickel Plating (*)		
F6	Black Electrodeposited Paint (*)		
F7	Black Zn-Co Plating (*)		
F8	Olive Drab Zn-Co Plating		
F11	Electroless Nickel (*)		

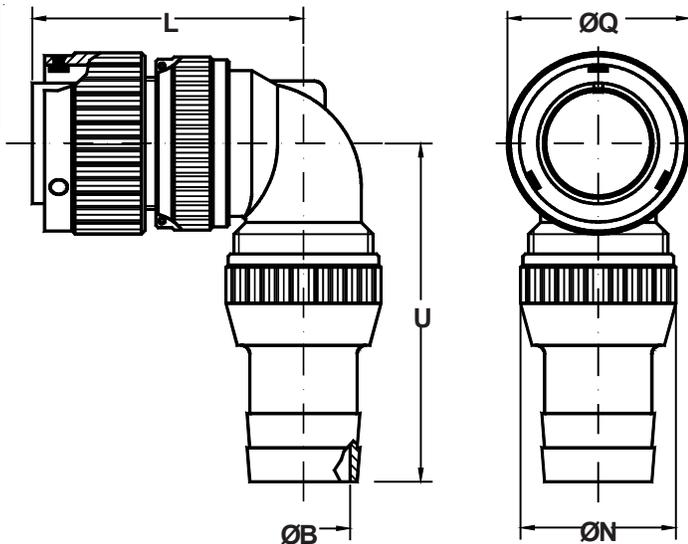
## ITS 3108 A (BR) and ITS 4108 A (BR) Cylindrical Plug Assembly with 90° Backshell for Termination of UNI4883 Rubber Conduits



**TABLE II: MODIFICATION CODES**

**CONTACT OPTIONS**

Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	



**Application Notes:**

1. 90° plug assembly with backshell for termination of UNI4883 type rubber conduit.
2. Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet;  
Class "R" (environmental)—Supplied with backshell and grommet.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy or gold plating.
5. A broad range of other front and rear connector accessories are available.  
See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts

**ITS 3108 A (BR) and ITS 4108 A (BR)  
Cylindrical Plug Assembly with 90° Backshell  
for Termination of UNI4883 Rubber Conduits**



**TABLE I: DIMENSIONS**

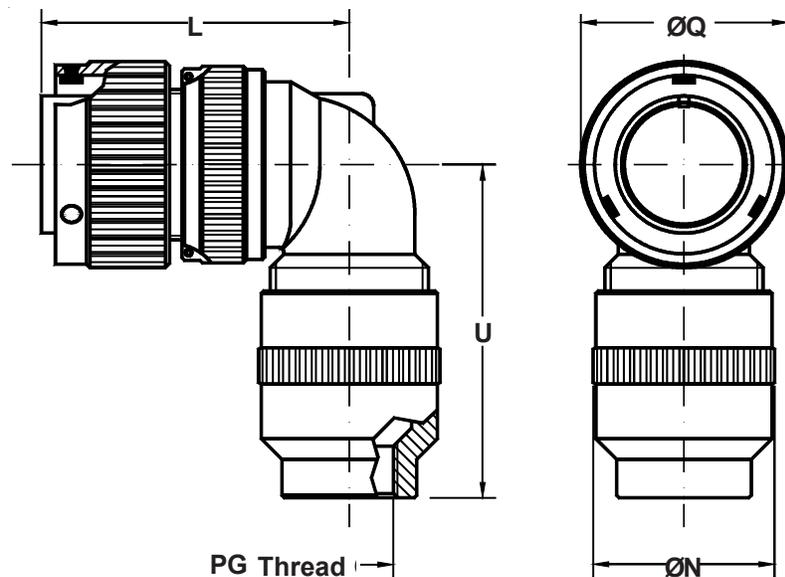
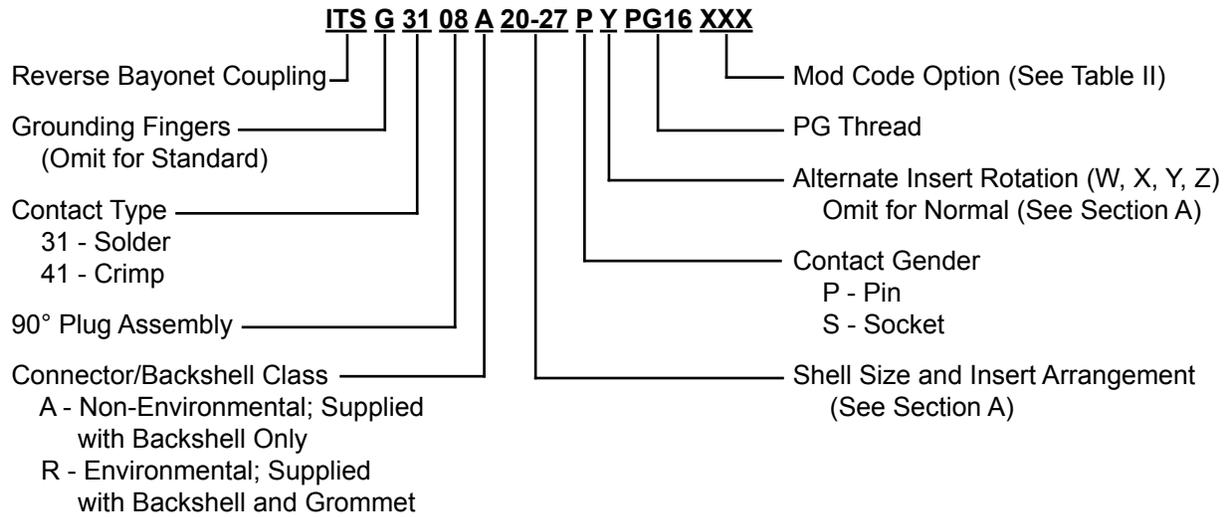
Shell Size	ØB ±0.1	L Max.	ØQ ±0.2	U Max.
10 SL	See Table below	90.0	22.6	75.0
18		103.0	36.2	80.0
20		103.0	39.8	82.0
22		103.0	43.0	82.0
24		104.5	46.4	87.0
28		111.0	53.0	88.0
32		116.5	60.0	95.5
36		122.0	66.2	97.2
40		122.0	72.3	102.0

**TABLE III: BACKSHELL DIMENSIONS**

Shell Size	Rubber tube in accordance with UNI 4883 to be used by size:		ØB ±0.1	ØQ ±0.2	
	Ø Min	Ø Max			
10SL	12.0	17.0	10.5		
18	22.0	27.0	20.5		
20 - 22	12.0	17.0	10.5		
20 - 22	22.0	27.0	20.5		
20 - 22	28.0	33.0	31.5		
24 - 28	20.0	25.0	16.5		
24 - 28	22.0	27.0	20.5		
24 - 28	26.0	31.0	22.5		
24 - 28	28.0	33.0	26.5		
24 - 28	30.0	35.0	26.5		
24 - 28	33.0	38.0	31.5	24.5	53.0
24 - 28	45.0	50.0	36.2	26.5	53.0
32	26.0	31.0	24.5	31.5	53.0
32	28.0	33.0	26.5	31.5	53.0
32	33.0	38.0	31.5	40.0	53.0
32	35.0	40.0	31.5	26.5	57.4
32	45.0	50.0	40.0	31.5	57.4
36	30.0	35.0	26.5	31.5	57.4
36	33.0	38.0	31.5	43.5	57.4
36	35.0	40.0	31.5		
36	45.0	50.0	43.5		
40	36.0	41.0	31.5	63.0	
40	40.0	45.0	38.5	63.0	
40	45.0	50.0	43.5	63.0	
40	50.0	55.0	48.5	63.0	



## ITS 3108 A (PG) and ITS 4108 A (PG) Cylindrical Plug Assembly with 90° Backshell for Use with PG Cable Glands



### Notes:

1. 90° plug with backshell for use with PG cable glands (not included).  
Other types of PG adaptors can be supplied in various sizes and angles upon request.
2. Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet;  
Class "R" (environmental)—Supplied with backshell and grommet.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating available.
5. Other types of front and rear connector accessories are available.  
See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts

**ITS 3108 A (PG) and ITS 4108 A (PG)  
Cylindrical Plug Assembly with  
90° Backshell for Use with PG Cable Glands**



**TABLE I: DIMENSIONS**

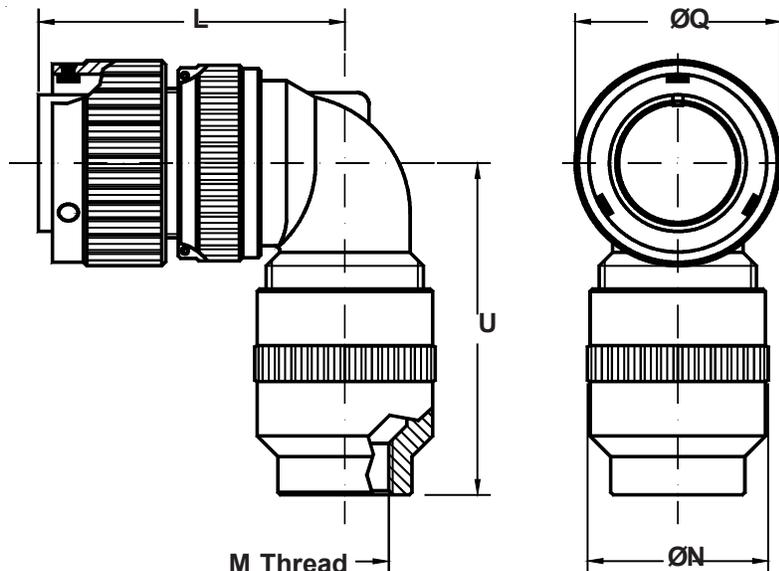
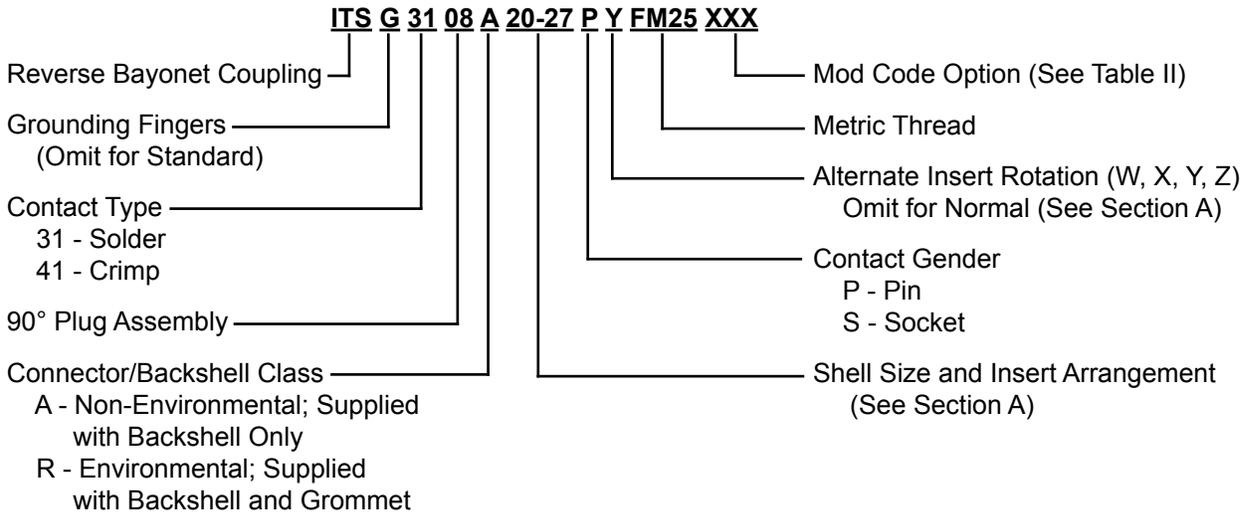
Shell Size	L Max.	ØN Max.	PG Thread	ØQ ±0.2	U Max.
<b>10 SL</b>	40	25	7 / 9 / 11	22.6	50.0
<b>14 S</b>	42	26	11 / 16	29.0	51.0
<b>16 S</b>	46	26	11 / 16	31.6	51.5
<b>16</b>	55	26	11 / 16	31.6	51.5
<b>18</b>	57	33	11 / 13.5 / 16 / 21	36.2	54.5
<b>20</b>	62	43	16 / 21 / 29	39.8	56.5
<b>22</b>	62	43	16 / 21 / 29	43.0	56.5
<b>24</b>	67	45	16 / 21 / 29	46.4	61.5
<b>28</b>	67	45	16 / 21 / 29	53.0	62.5
<b>32</b>	72	51	21 / 29	60.0	75.0
<b>36</b>	75	58	21 / 29	66.2	82.7
<b>40</b>	78	63	21 / 29 / 36	72.3	87.5

**B**

**TABLE II: MODIFICATION CODES**

<b>CONTACT OPTIONS</b>	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
<b>Omit for standard version (Silver plated)</b>	
<b>FINISH OPTIONS</b>	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
<b>Omit for standard version (Cadmium Olive Drab Finish)</b>	

## ITS 3108 A (M) and ITS 4108 A (M) Cylindrical Plug Assembly with 90° Backshell for Use with Metric Cable Glands



### Application Notes:

- 90° plug with backshell for the attachment of metric thread cable glands.
- Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet; Class "R" (environmental)—Supplied with backshell and grommet.
- Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
- Standard contact material consists of copper alloy with silver plating or gold plating.
- A broad range of metric connector accessories are available. See our website and/or contact the factory for complete information.
- Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts.
- Cable gland not supplied.

**ITS 3108 A (M) and ITS 4108 A (M)  
Cylindrical Plug Assembly with  
90° Backshell for Use with Metric Cable Glands**



**TABLE I: DIMENSIONS**

Shell Size	L Max.	ØN Max.	M Thread Other M Threads available on request	ØQ ±0.2	U Max.
10 SL	40	25	M12x1,5	22.6	80.0
14 S	42	26	M16x1,5	29.0	82.0
16 S	46	26	M16x1,5	31.6	82.5
16	55	26	M16x1,5	31.6	82.5
18	57	33	M20x1,5	36.2	89.5
20	62	43	M25x1,5	39.8	95.5
22	62	43	M25x1,5	43.0	95.5
24	67	45	M32x1,5	46.4	100.5
28	67	45	M32x1,5	53.0	101.5
32	72	51	M36x1,5	60.0	114.0
36	75	58	M40x1,5	66.2	121.7
40	78	63	M48x1,5	72.3	136.5

**B**

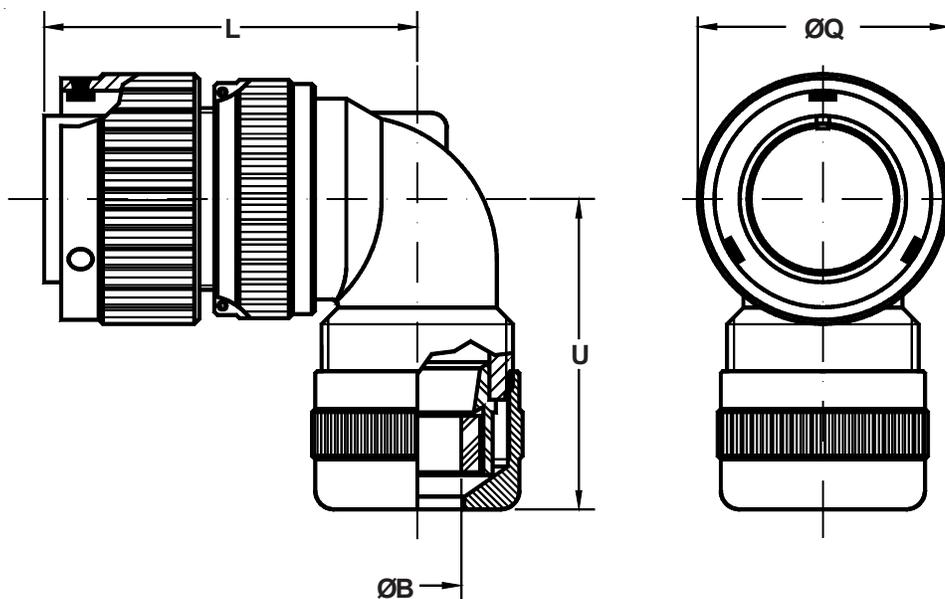
**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 3108 A (PHM) and ITS 4108 A (PHM) Cylindrical Plug Assembly with 90° Backshell with Environmental PHM Backshell

ITS G 31 08 A 20-27 P Y PHM11 XXX

Reverse Bayonet Coupling	Mod Code Option (See Table II)
Grounding Fingers (Omit for Standard)	PHM Size
Contact Type 31 - Solder 41 - Crimp	Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
90° Plug Assembly	Contact Gender P - Pin S - Socket
Environmental Class A - Non-Environmental; Supplied with Backshell Only R - Environmental; Supplied with Backshell and Grommet	Shell Size and Insert Arrangement (See Section A)



### Application Notes:

- 90° plug assembly with a cable-sealing PHM Backshell.
- Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet; Class "R" (environmental)—Supplied with backshell and grommet.
- Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
- Standard contact material consists of copper alloy with silver plating or gold plating.
- A broad range of metric connector accessories are available. See our website and/or contact the factory for complete information.
- Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts

**ITS 3108 A (PHM) and ITS 4108 A (PHM)  
Cylindrical Plug Assembly with 90° Backshell  
with Environmental PHM Backshell**



**TABLE I: DIMENSIONS**

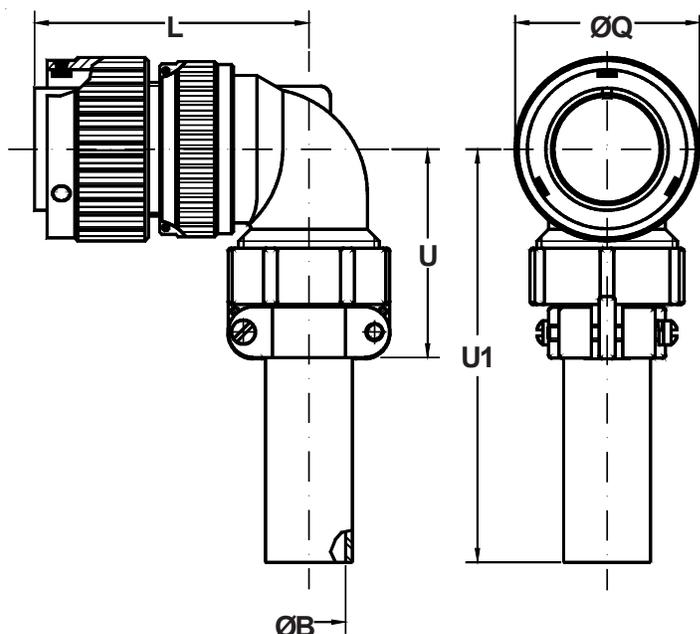
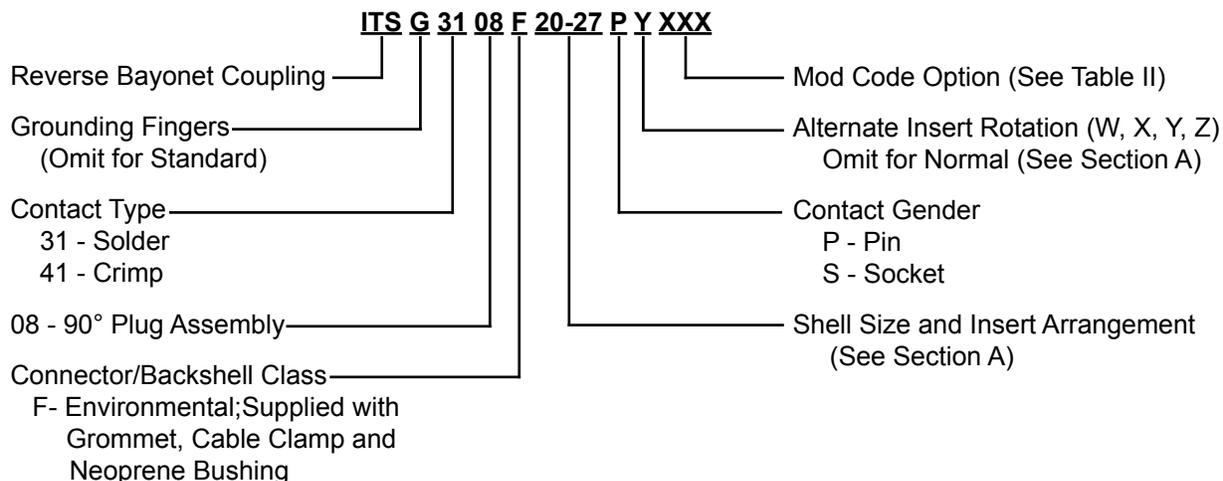
Shell Size	PHM Size	ØB min. – Max.	L Max.	ØQ ±0.2	U Max.
10 SL	9	2–9	40	22.6	40.0
14 S	11	2–11	42	29.0	41.5
16 S	11	2–11	46	31.6	40.0
16	11	2–11	55	31.6	40.0
18	11 / 18	2–11 / 2–16.5	57	36.2	47.0
20	11 / 18	2–11 / 2–16.5	62	39.8	49.0
22	18	2–16.5	62	43.0	49.0
24	18 / 22 / 24	2–16.5 / 15–20 / 19–24	67	46.4	58.0
28	18 / 22 / 24	2–16.5 / 15–20 / 19–24	67	53.0	59.0
32	22 / 24	15–20 / 19–24	72	60.0	70.5
36	35	23–35	75	66.2	72.2
40	35	23–35	78	72.3	77.0

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 3108 (F) and ITS 4108 (F)

### Cylindrical Plug Assembly with 90° Backshell with Class A IT3057 Cable Clamp and Neoprene Bushing



#### Application Notes:

1. 90° plug assembly with an insulating grommet, environmental backshell, class A IT3057 cable clamp for individual wires and neoprene bushing.
2. Connector/Backshell Class "F" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available.  
See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts

**ITS 3108 (F) and ITS 4108 (F)  
Cylindrical Plug Assembly with 90° Backshell  
with Class A IT3057 Cable Clamp and Neoprene Bushing**



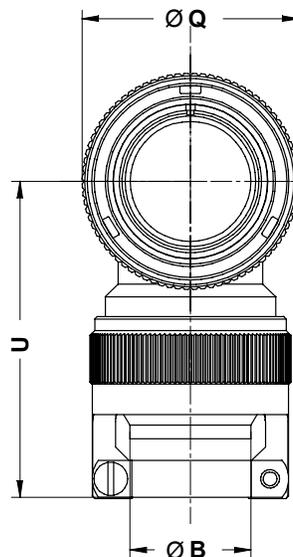
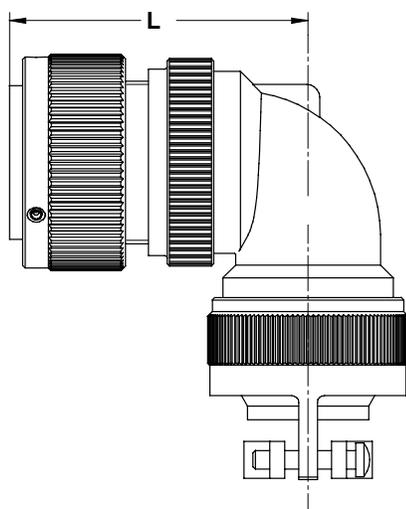
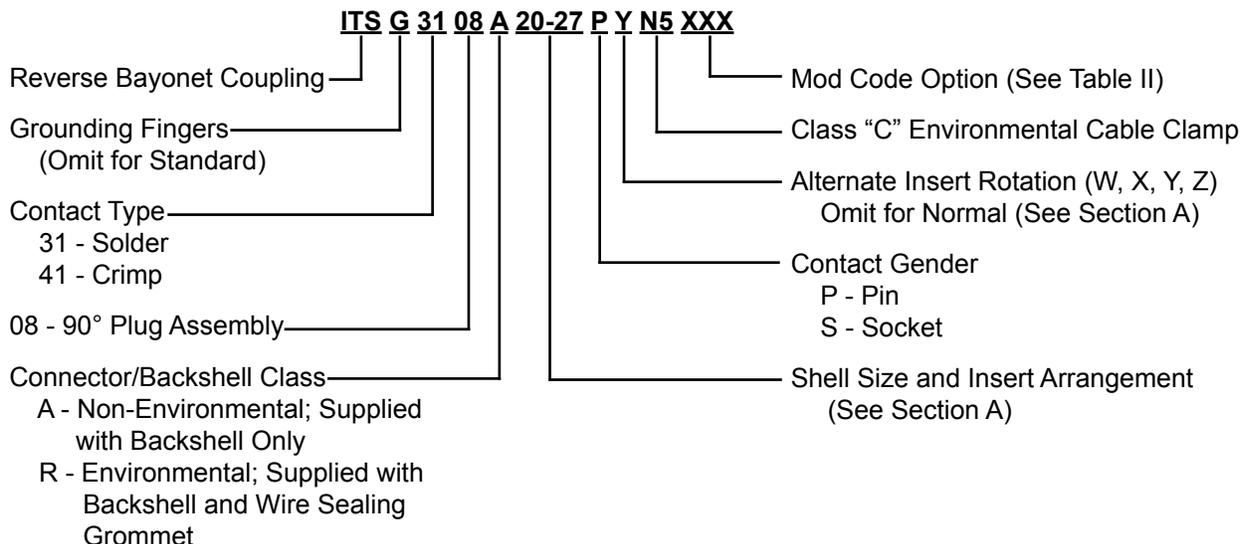
**TABLE I: DIMENSIONS**

Shell Size	ØB ±0.1	L Max.	ØQ ±0.2	U Max.	U1 Max.
10 SL	5.58	40	22.6	36.0	105
14 S	7.92	42	29.0	38.5	105
16 S	11.09	46	31.6	41.0	105
16	11.09	55	31.6	41.0	105
18	14.27	57	36.2	50.0	112
20	15.87	62	39.8	48.0	105
22	15.87	62	43.0	48.0	105
24	19.05	67	46.4	54.0	107
28	19.05	67	53.0	55.0	107
32	23.79	72	60.0	64.5	115
36	31.75	75	66.2	67.2	115
40	34.92	78	72.3	91.0	135

**B**

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	



#### Application Notes:

- 90° plug assembly with a class C (environmental) IT3057 cable clamp for use with jacketed cable.
- Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet; Class "R" (environmental)—Supplied with backshell and grommet.
- Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
- Standard contact material consists of copper alloy with silver plating or gold plating.
- A broad range of additional connector accessories are available. See our website and/or contact the factory for complete information.
- Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts

**ITS 3108 A (N5) and ITS 3108 R (N5)  
ITS 4108 A (N5) and ITS 4108 R (N5)  
Cylindrical Plug Assembly with 90° Backshell  
with Class C (Environmental) IT3057 Cable Clamp**



**TABLE I: DIMENSIONS**

Shell Size	ØB		L	ØQ	U
	Open	Closed	Max.	±0.2	Max.
<b>10 SL</b>	7.93	2.38	40	22.6	61
<b>14 S</b>	11.12	5.84	42	29.0	61
<b>16 S</b>	13.48	8.00	46	31.6	61
<b>16</b>	13.48	8.00	55	31.6	61
<b>18</b>	15.87	9.60	57	36.2	68
<b>20</b>	19.00	11.30	62	39.8	68
<b>22</b>	19.00	11.30	62	43.0	68
<b>24</b>	23.80	15.50	67	46.4	76
<b>28</b>	23.80	15.50	67	53.0	76
<b>32</b>	31.75	23.40	72	60.0	87
<b>36</b>	35.00	23.40	75	66.2	98
<b>40</b>	41.25	29.90	78	72.3	103

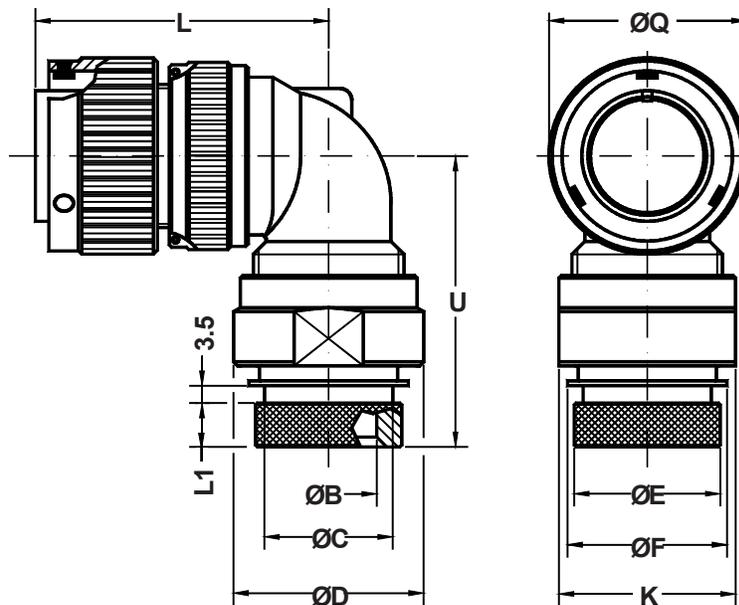
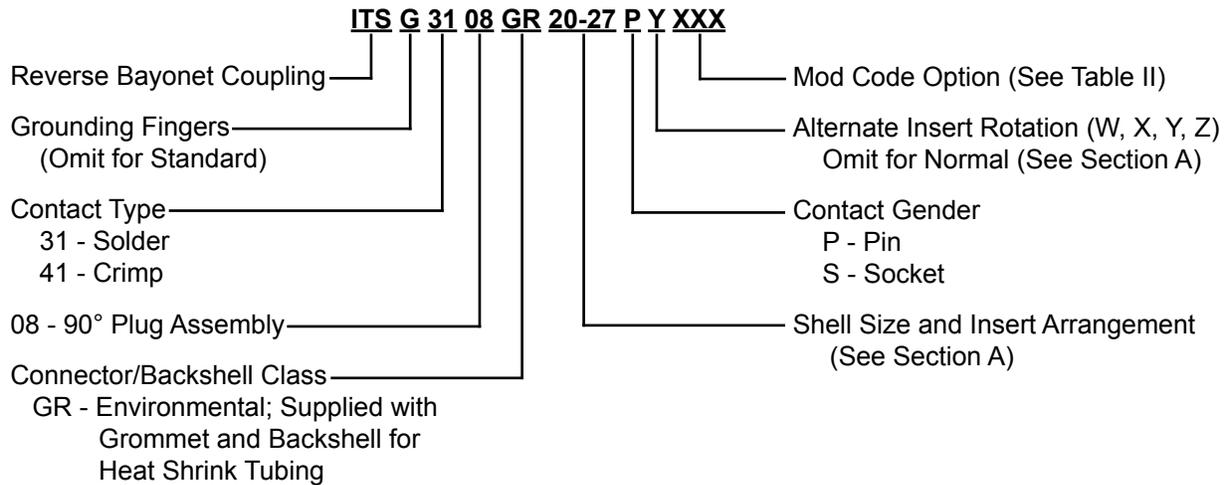
**B**

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

## ITS 3108 (GR) and ITS 4108 (GR)

### Cylindrical Plug Assembly with 90° Backshell and Rotating Clamp Nut Backshell for Heat Shrink Tubing



#### Application Notes:

1. 90° plug with backshell for heat-shrink tubing. Rotating coupling nut supplied
2. Connector/Backshell Class "GR" (environmental)—Wire sealing grommet supplied.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available.  
See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3108 (GR) and ITS 4108 (GR)**  
**Cylindrical Plug Assembly with 90° Backshell**  
**and Rotating Clamp Nut Backshell for Heat Shrink Tubing**



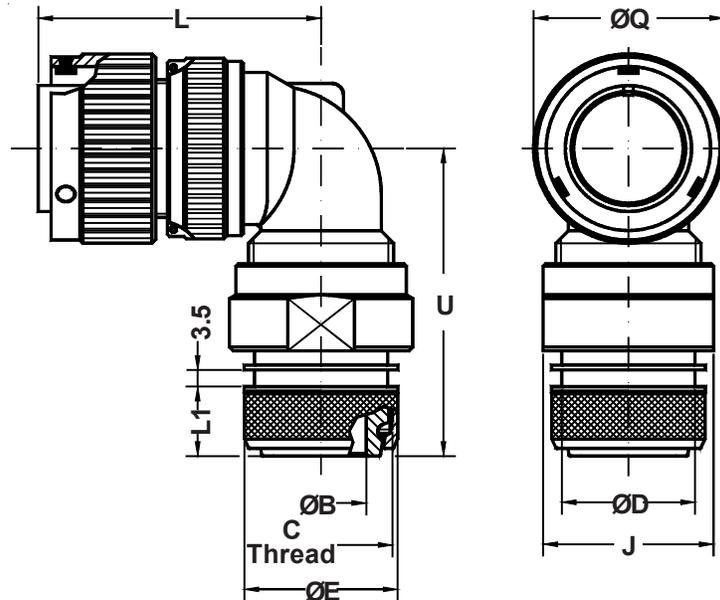
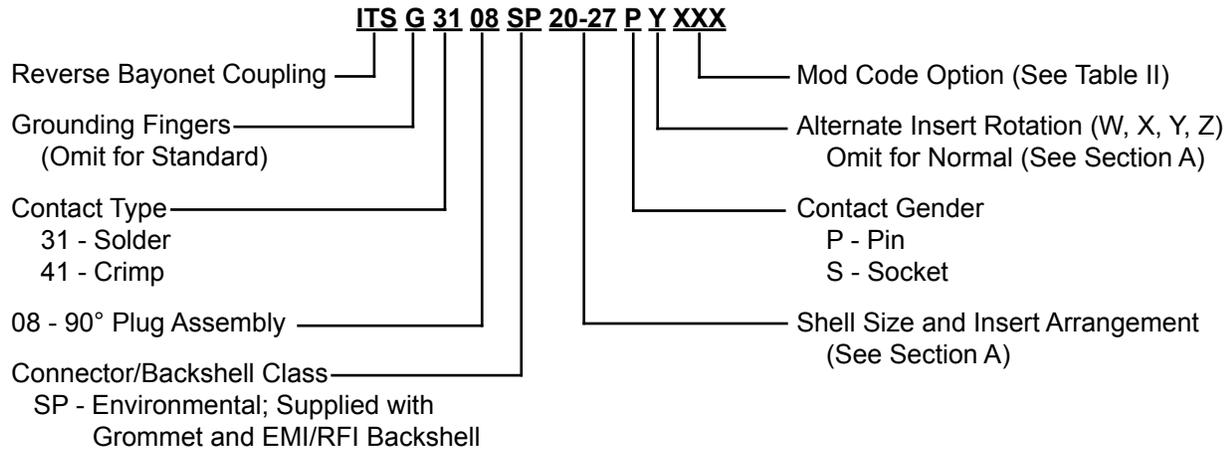
**TABLE I: DIMENSIONS**

Shell Size	ØB min.	ØC ±0.1	ØD +0 -0.1	ØE ±0.1	ØF ±0.2	K Key	L Max.	L1 ±0.1	ØQ ±0.2	U Max.
10 SL	8.6	13.0	22.0	17.0	17.0	20	40	8.2	22.6	51.0
14 S	10.7	16.5	25.0	20.1	20.1	23	42	8.2	29.0	52.5
16 S	14.0	24.9	28.0	23.5	23.5	26	46	8.0	31.6	53.0
16	14.0	24.9	28.0	23.5	23.5	26	55	8.0	31.6	50.0
18	17.5	21.7	31.0	26.5	26.5	29	57	8.0	36.2	56.0
20	18.8	26.2	36.0	30.2	30.5	34	62	8.9	39.8	57.5
22	21.0	26.2	38.0	33.6	33.6	36	62	9.2	43.0	57.5
24	25.4	34.0	41.0	36.1	36.1	39	67	9.5	46.4	62.5
28	28.4	34.3	48.0	41.4	41.4	46	67	9.2	53.0	64.5
32	34.0	43.6	54.0	48.6	48.6	52	72	11.7	60.0	72.0
36	40.5	43.6	61.0	54.0	54.8	59	75	11.5	66.2	76.0
40	49.0	52.6	68.0	61.0	60.9	66	78	11.5	72.3	81.0

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

**ITS 3108 (SP) and ITS G 3108 (SP)**  
**ITS 4108 (SP) and ITS G 4108 (SP)**  
**Cylindrical Plug Assembly with 90° Backshell**  
**and EMI/RFI Shield Termination Backshell**



**Application Notes:**

- 90° plug assembly with EMI/RFI shield termination backshell and rotating coupling nut. Cable shield is terminated with a "braid-trap" nut. Heat-shrink tubing may also be attached for additional environmental sealing.
- Connector/Backshell Class "SP" (environmental)—Wire sealing grommet supplied.
- Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
- Standard contact material consists of copper alloy with silver plating or gold plating.
- A broad range of additional connector accessories are available. See our website and/or contact the factory for complete information.
- Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts

**ITS 3108 (SP) and ITS G 3108 (SP)  
ITS 4108 (SP) and ITS G 4108 (SP)  
Cylindrical Plug Assembly with 90° Backshell  
and EMI/RFI Shield Termination Backshell**



**TABLE I: DIMENSIONS**

Shell Size	ØB	C Thread	ØD	ØE	J Key	L	L1	ØQ	U
	min.		±0.1	±0.2		Max.	±0.1	±0.2	Max.
<b>10 SL</b>	8.6	M16 x 1	13.0	18.5	20	40	13.5	22.6	53.0
<b>14 S</b>	10.7	M20 x 1	16.5	22.3	23	42	13.5	29.0	54.5
<b>16 S</b>	13.9	M23 x 1	21.5	25.3	26	46	14.6	31.6	55.0
<b>16</b>	13.9	M23 x 1	21.5	25.3	26	55	14.6	31.6	57.0
<b>18</b>	15.0	M26 x 1	21.7	28.0	28	57	14.6	36.2	60.0
<b>20</b>	18.8	M30 x 1	26.0	32.3	32	62	14.6	39.8	63.0
<b>22</b>	22.8	M32 x 1	26.0	34.3	36	62	14.6	43.0	63.0
<b>24</b>	25.4	M36 x 1	34.5	38.3	39	67	14.6	46.4	68.0
<b>28</b>	28.3	M39 x 1	34.5	41.2	46	67	14.6	53.0	69.0
<b>32</b>	35.0	M45 x 1	43.6	48.3	52	72	14.6	60.0	76.5
<b>36</b>	40.5	M52 x 1	43.6	55.0	58	75	15.5	66.2	78.5
<b>40</b>	48.0	M59 x 1	52.6	62.0	65	78	15.5	72.3	83.0

**B**

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	

# ITS 3108 A (ZLF) and ITS 4108 A (ZLF) Cylindrical Plug Assembly with 90° BAND-IT Backshell

**ITS G 31 08 A 20-27 P Y ZLF XXX**

Reverse Bayonet Coupling

Grounding Finger  
(Omit for Standard)

Contact Type  
31 - Solder  
41 - Crimp

08 - 90° Plug Assembly

Connector/Backshell Class  
A - Non-environmental; Supplied with  
Backshell only  
R - Environmental; Supplied with  
Backshell and Grommet

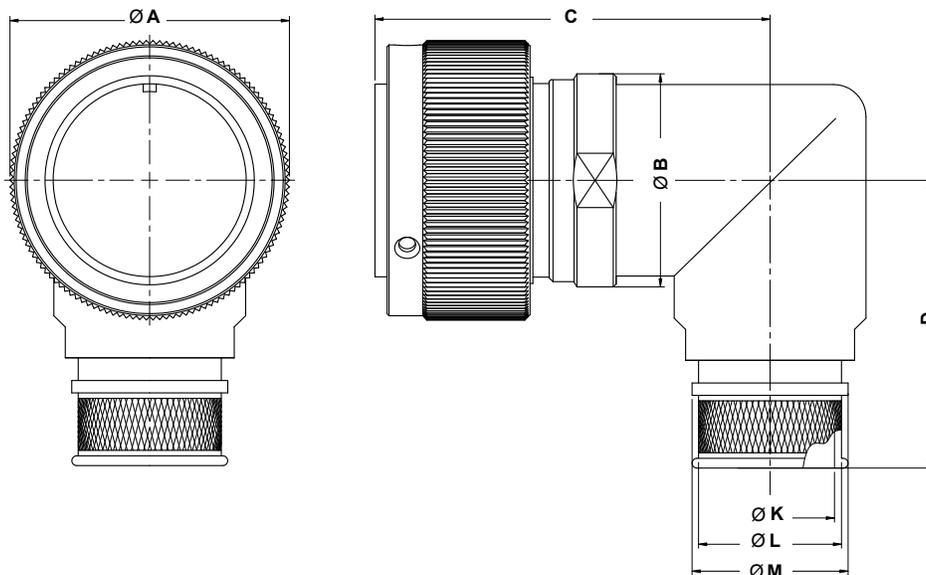
Mod Code Option (See Table II)

BAND-IT Backshell

Alternate Insert Rotation (W, X, Y, Z)  
Omit for Normal (See Section A)

Contact Gender  
P - Pin  
S - Socket

Shell Size and Insert Arrangement  
(See Section A)



### Application Notes:

1. Straight cylindrical plug assembly with backshell for attachment of BAND-IT.
2. Connector/Backshell Class "A" (non-environmental)—Not supplied with wire sealing grommet; Class "R" (environmental)—Supplied with backshell and grommet.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber. Add "FR" prefix to front of part number to specify fire resistant inserts.

**ITS 3108 A (ZLF) and ITS 4108 A (ZLF)  
Cylindrical Plug Assembly  
with 90° BAND-IT Backshell**



**TABLE I: DIMENSIONS**

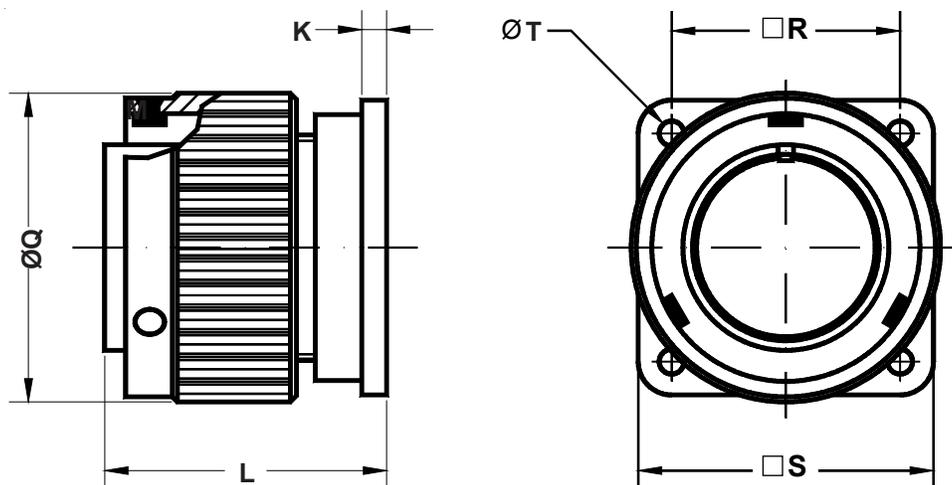
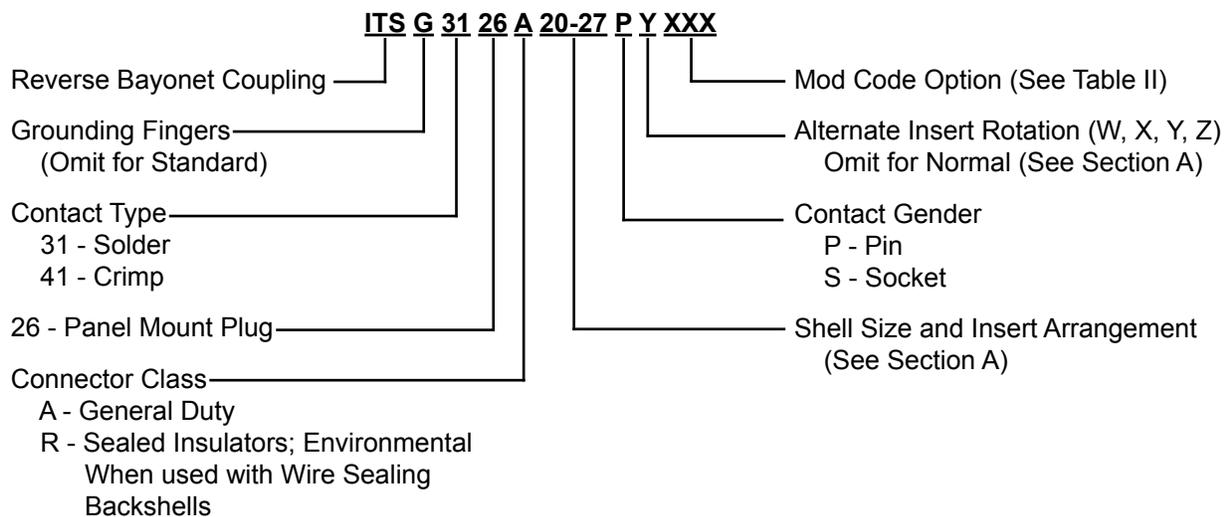
Shell size	P.N. entry	ØA	ØB	C max	D max	Entry size
10 SL	10	24.7	20.8	29.0	53.0	01÷06
14 S	14	24.7	27.3	41.0	54.5	03÷08
16 S	16	24.7	29.8	45.0	55.0	05÷10
18	18	34.25	34.3	53.0	60.0	07÷12
20	20	34.25	38.3	62.0	63.0	09÷14
22	22	34.25	41.3	62.0	63.0	11÷16
24	24	35.85	44.8	68.0	68.0	12÷17
28	28	35.65	51.3	68.0	69.0	13÷19
32	32	37.45	58.3	72.0	76.5	17÷22
36	36	37.45	66.2	75.0	78.5	19÷23
40	40	37.45	70.8	80.0	83.0	21÷24

**TABLE III: ENTRY SIZE TABLE**

Entry size	ØK	ØL	ØM
01	3.2	6.4	7.9
02	4.8	7.9	9.5
03	6.4	9.5	11.1
04	7.9	11.1	12.7
05	9.5	12.7	14.3
06	11.1	14.3	15.8
07	12.7	15.9	17.4
08	14.3	17.5	19.1
09	15.9	19.1	20.6
10	17.5	20.6	22.2
11	19.1	22.2	23.8
12	20.6	23.8	25.4
13	22.2	25.4	27.0
14	23.8	27.0	28.5
15	25.4	28.6	30.1
16	27.0	30.2	31.8
17	28.6	31.8	33.3
18	31.8	34.9	36.5
19	34.9	38.1	39.7
20	38.1	41.3	42.8
21	41.3	44.5	46.0
22	44.5	47.6	49.2
23	47.6	50.8	52.4
24	50.8	54.0	55.5

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	


**Application Notes:**

1. Panel mount square flange plug with coupling nut for ITS 3101 or ITS 4101 receptacles. Through mounting holes.
2. Connector Class "A" (general duty).  
Connector Class "R" (environmental)—Sealed insulators.
3. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of other front and rear connector accessories are available. See our website and/or contact the factory for complete information.
6. Standard insert material is synthetic rubber.  
Add "FR" prefix to front of part number to specify fire resistant inserts

ITS 3126 (A), ITS 3126 (R),  
ITS 4126 (A) and ITS 4126 (R)  
Square Flange Panel Mount Plug



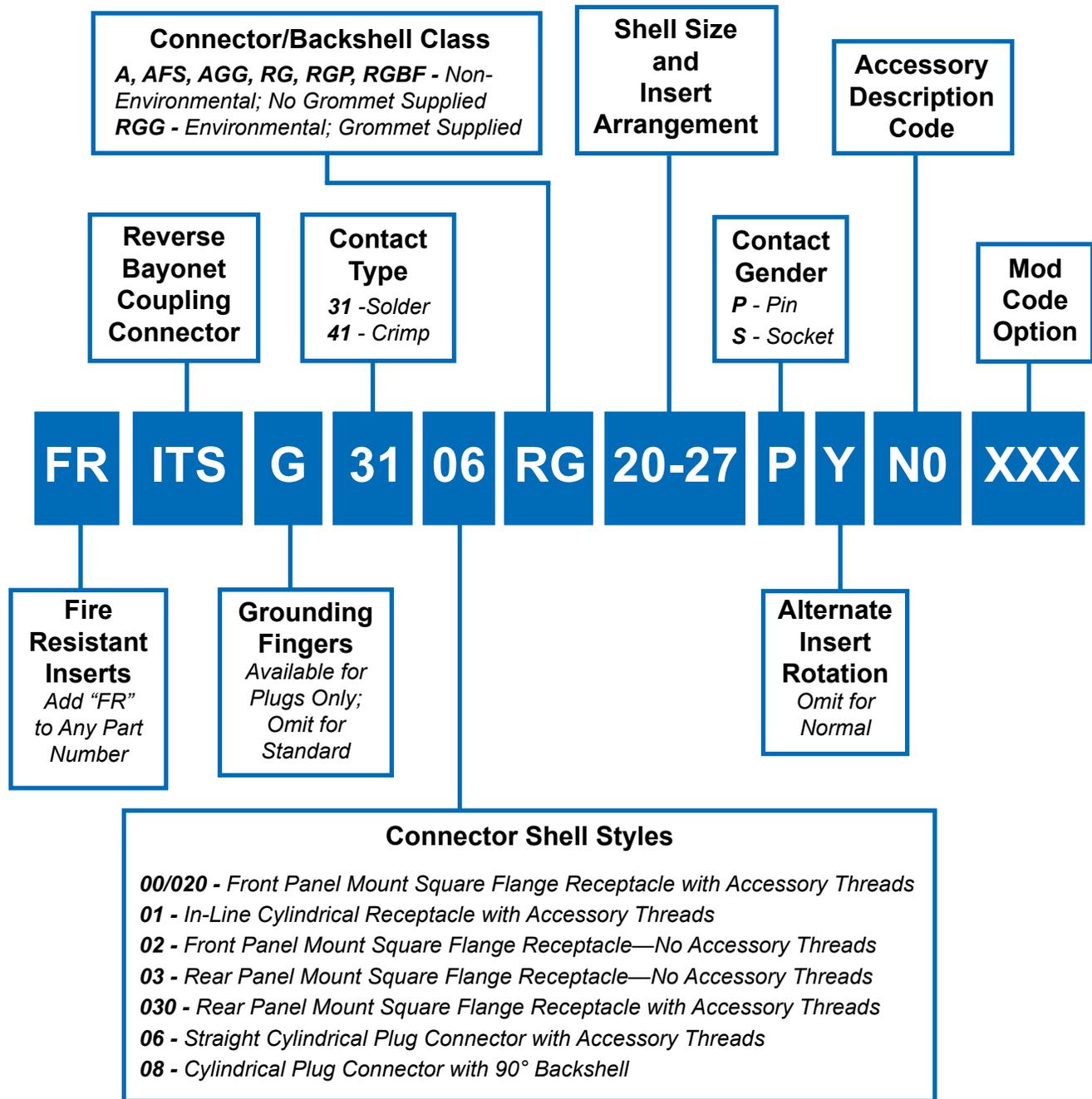
TABLE I: DIMENSIONS

Shell Size	K ±0.2	L Max.	ØQ ±0.2	R ±0.1	S +0.2	ØT +0.1 -0
10 SL	2.8	29.9	22.6	18.25	25.4	3.2
14 S	3.3	29.9	29.0	23.00	30.4	3.2
16 S	3.3	35.1	31.6	24.60	32.5	3.2
16	3.3	35.1	31.6	24.60	32.5	3.2
18	4.0	40.2	36.2	27.00	35.0	3.2
20	4.0	43.8	39.8	29.40	38.0	3.2
22	4.0	43.8	43.0	31.75	41.0	3.2
24	4.0	43.8	46.4	34.90	44.5	3.7
28	4.0	44.0	53.0	39.70	50.9	3.7
32	4.0	45.1	60.0	44.45	57.0	4.3
36	4.0	45.1	66.2	49.20	63.5	4.3
40	4.0	45.1	72.3	55.55	69.9	4.3

B

TABLE II: MODIFICATION CODES

CONTACT OPTIONS	
Sym	Description
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
Omit for standard version (Cadmium Olive Drab Finish)	





#### PRODUCT FEATURES

- Fast, Easy Bayonet Coupling: 1/4 Turn
- IP67 Rated Outer Shell Rubber Coating
- All Shell Styles: Box Mount, Jam-Nut, In-Line, etc.
- High Shock and Vibration Resistance
- Contact Sizes from #20 to #4/0 in more than 500 Insert Arrangements
- Audible and Visual Coupling Indicators
- Keyed Polarization
- Solder, Crimp, PCB and Thermocouple Terminations

## Rubber-Coated Reverse Bayonet Connector Provides Optimal Mechanical and Environmental Protection

### For Harsh Applications

The Glenair Series ITS-RG Connector is a unique rubber coated version of the Series ITS designed for use in harsh environmental applications. The ITS-RG connector offers the same electrical performance as the standard ITS family with better insulation of the connector from high current and voltage. The ruggedized rubber covering prevents infiltrations and guarantees a Protection Index of IP67. Designed for railway applications, oil-patch applications and other environments where critical interconnects are exposed to the effects of oils, dust, water or other irksome pollutants, the ITS-RG is ready for immediate application with a wide range of standard shell styles, backshells and accessories.

### Material Specifications

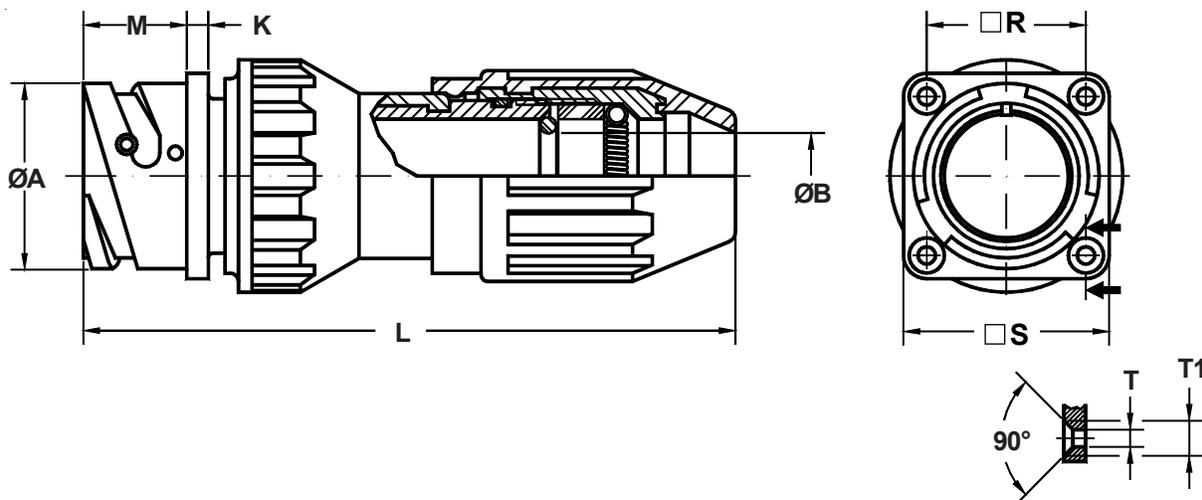
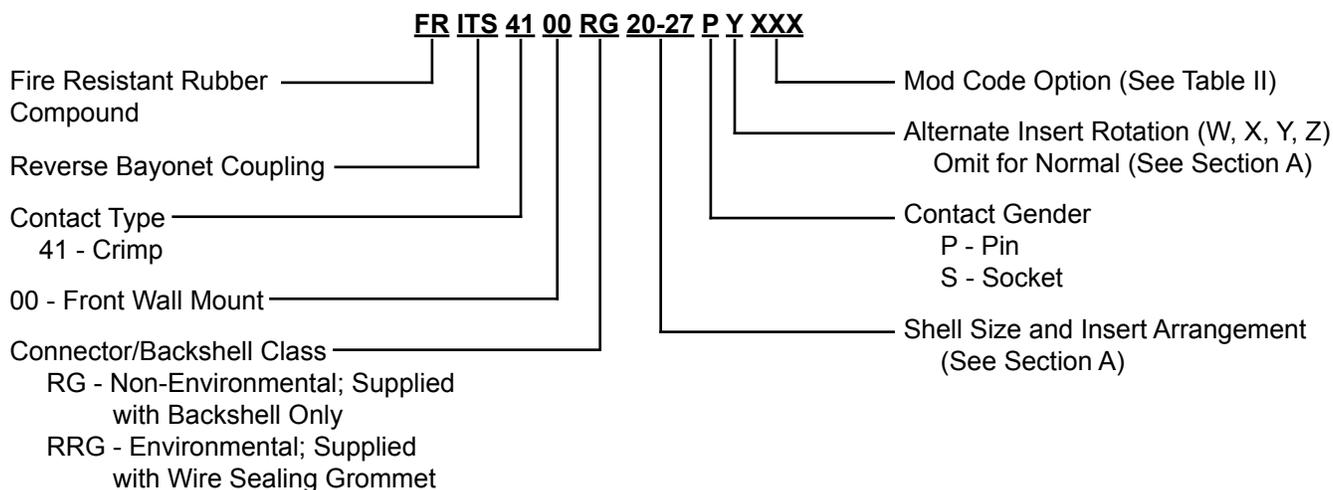
**Rubber Coating:** Outer insulating material (Vamac G) is in conformity with the strictest safety norms regarding fire resistance, toxicity and smoke including ASTM C542, ASTM E662/83 and CEI 20.37/85.

**Metal Parts:** Aluminum alloy with cadmium free surface coatings.

**Contacts:** Copper alloy with silver plating (standard) or gold plating (available on request).

**Insulating Parts:** High insulation synthetic rubber, halogen free, resistant to oils and temperature extremes (-55°C to +125°C).

## ITS 4100 (RG) and ITS 4100 (RRG) Front Panel Mount Square Flange Receptacle with Rubber-Coated Cable Sealing Backshell



### Application Notes:

1. Front panel mount square flange receptacle with rubber-coated cable sealing backshell with spring style strain relief for use with jacketed cables. Through mounting holes.
2. RG - Non-Environmental; Supplied with backshell only  
RRG - Environmental; Supplied with wire sealing grommet
3. Standard materials configuration consists of aluminum alloy with plating ROHS compliant.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available.  
See our website and/or contact the factory for complete information.

**ITS 4100 (RG) and ITS 4100 (RRG)  
Front Panel Mount Square Flange Receptacle  
with Rubber-Coated Cable Sealing Backshell**



**TABLE I: DIMENSIONS**

Shell Size	ØA +0 -0.1	ØB		K ±0.2	L Max.	M +0.2 -0	R ±0.1	S ±0.2	ØT H13	ØT1
		min.	Max.							
<b>14 S</b>	24.5	9.52	12.70	3.3	85	14.5	23.00	30.4	3.2	6.5
<b>16 S</b>	27.2	12.70	15.90	3.3	90	14.5	24.60	32.5	3.2	6.5
<b>16</b>	27.2	12.70	15.90	3.3	90	19.1	24.60	32.5	3.2	6.5
<b>18</b>	30.7	12.70	15.90	4.0	101	19.1	27.00	35.0	3.2	6.5
<b>20</b>	34.0	15.90	19.00	4.0	119	19.1	29.40	38.0	3.2	6.5
<b>22</b>	37.3	15.90	19.00	4.0	119	19.6	31.75	41.0	3.2	6.5
<b>24</b>	40.9	19.00	22.20	4.0	140	20.6	34.90	44.5	3.7	7.5
<b>28</b>	46.7	22.20	25.40	4.0	140	20.7	39.70	50.9	3.7	7.5
<b>32</b>	53.4	28.50	31.75	4.0	142	22.3	44.45	57.0	4.3	8.0
<b>36</b>	59.6	31.75	34.90	4.0	151	22.3	49.20	63.5	4.3	8.0
<b>40</b>	65.5	38.00	41.27	4.0	153	22.3	55.55	69.9	4.3	8.0

**TABLE II: MODIFICATION CODES**

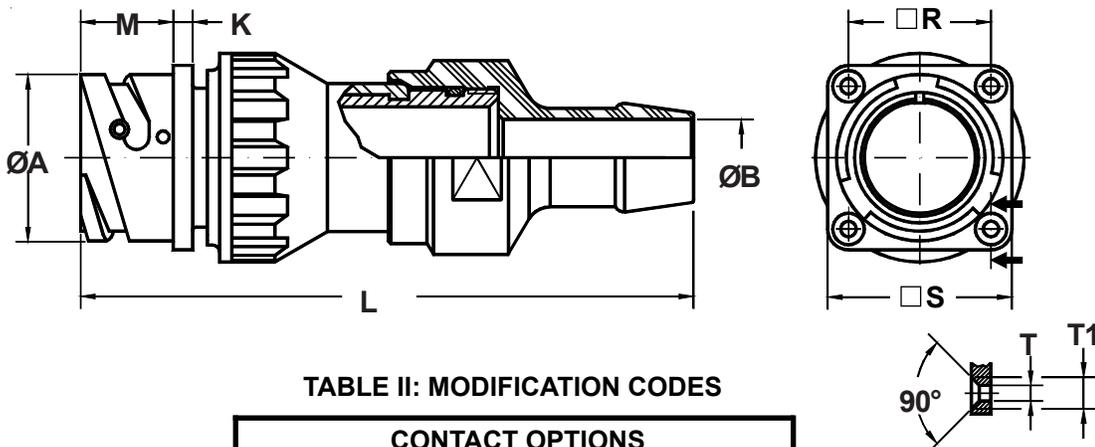
CONTACT OPTIONS	
Sym	Description
B0	Connector less contacts
B1	Connector with gold plated contacts
Omit for version Silver plated	



## ITS 4100 RG (D1) and ITS 4100 RRG (D1) Front Panel Mount Square Flange Receptacle with Backshell for Termination of UNI4883 Rubber Conduit

**FR ITS 41 00 RG 20-27 P Y D12722 XXX**

Fire Resistant Rubber Compound	FR	Mod Code Option (See Table II)	XXX
Reverse Bayonet Coupling	ITS	UNI4883 Backshell Adapter Shell Size Designator (See Table III)	D12722
Contact Type 41 - Crimp	41	Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)	Y
00 - Front Wall Mount	00	Contact Gender P - Pin S - Socket	P
Connector/Backshell Class RG - Non-Environmental; Not Supplied with Wire Sealing Grommet RRG - Environmental; Supplied with Wire Sealing Grommet	RG	Shell Size and Insert Arrangement (See Section A)	20-27



**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector less contacts
B1	Connector with gold plated contacts
Omit for version Silver plated	

### Application Notes:

1. Front panel mount square flange receptacle with rear backshell for termination of UNI4883 type rubber conduit. Through mounting holes.
2. RG - Non-Environmental; Supplied with backshell only  
RRG - Environmental; Supplied with wire sealing grommet
3. Standard materials configuration consists of aluminum alloy with plating ROHS compliant.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available.  
See our website and/or contact the factory for complete information.

**ITS 4100 RG (D1) and ITS 4100 RRG (D1)  
Front Panel Mount Square Flange Receptacle  
with Backshell for Termination of UNI4883 Rubber Conduit**



**TABLE I: DIMENSIONS**

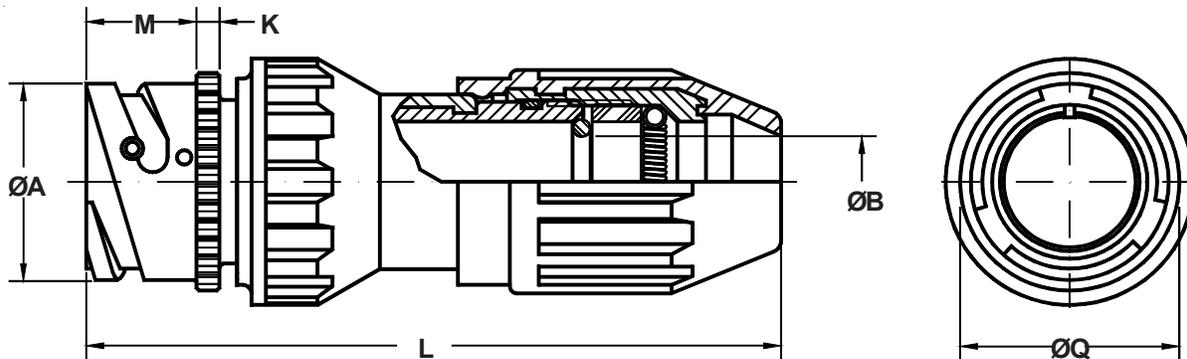
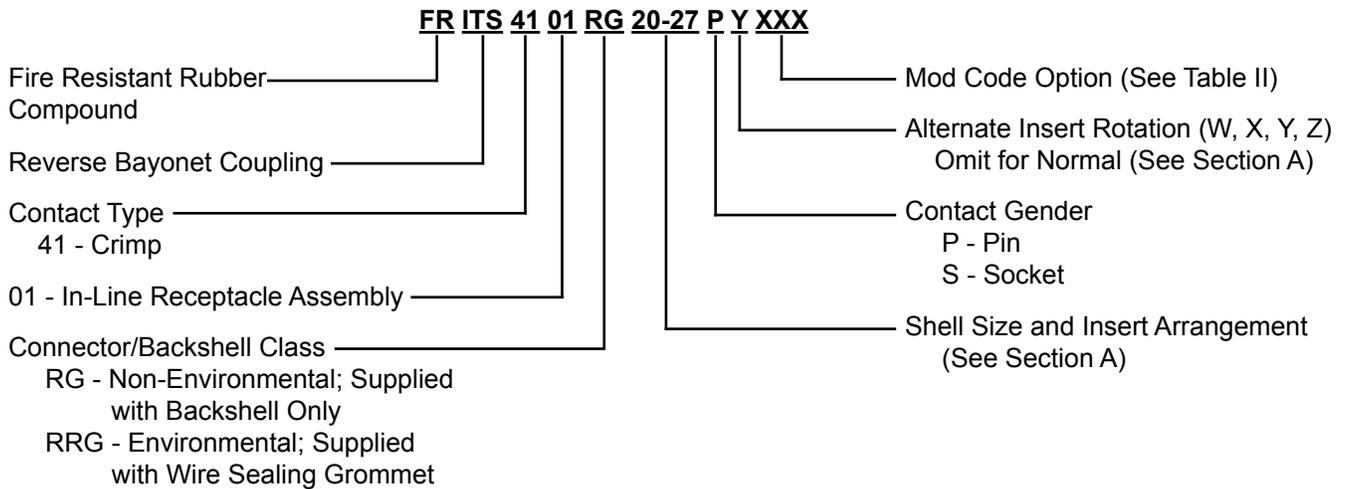
Shell Size	$\varnothing A$	$\varnothing B$	$K$	$L$	$M$	$R$	$S$	$\varnothing T$	$\varnothing T1$
	+0 -0.1		$\pm 0.2$	Max.	+0.2 -0	$\pm 0.1$	$\pm 0.2$	H13	
14 S	24.5	See Table III Below	3.3	85	14.5	23.00	30.4	3.2	6.5
16 S	27.2		3.3	90	14.5	24.60	32.5	3.2	6.5
16	27.2		3.3	90	19.1	24.60	32.5	3.2	6.5
18	30.7		4.0	101	19.1	27.00	35.0	3.2	6.5
20	34.0		4.0	119	19.1	29.40	38.0	3.2	6.5
22	37.3		4.0	119	19.6	31.75	41.0	3.2	6.5
24	40.9		4.0	140	20.6	34.90	44.5	3.7	7.5
28	46.7		4.0	140	20.7	39.70	50.9	3.7	7.5
32	53.4		4.0	142	22.3	44.45	57.0	4.3	8.0
36	59.6		4.0	151	22.3	49.20	63.5	4.3	8.0
40	65.5		4.0	153	22.3	55.55	69.9	4.3	8.0

**TABLE III: BACKSHELL DIMENSIONS RUBBER CONDUIT**

Shell Size	In accordance with UNI 4883		$\varnothing B$ $\pm 0.1$	$\pm 0.2$
	$\varnothing$ Min.	$\varnothing$ Max.		
10SL	12.0	17.0	10.5	
18	22.0	27.0	20.5	
20 - 22	12.0	17.0	10.5	
20 - 22	22.0	27.0	20.5	
20 - 22	28.0	33.0	31.5	
24 - 28	20.0	25.0	16.5	
24 - 28	22.0	27.0	20.5	
24 - 28	26.0	31.0	22.5	
24 - 28	28.0	33.0	26.5	
24 - 28	30.0	35.0	26.5	
24 - 28	33.0	38.0	31.5	
24 - 28	45.0	50.0	36.2	
32	26.0	31.0	24.5	
32	28.0	33.0	26.5	
32	33.0	38.0	31.5	
32	35.0	40.0	31.5	
32	45.0	50.0	40.0	
36	30.0	35.0	26.5	
36	33.0	38.0	31.5	
36	35.0	40.0	31.5	
36	45.0	50.0	43.5	
40	36.0	41.0	31.5	
40	40.0	45.0	38.5	
40	45.0	50.0	43.5	
40	50.0	55.0	48.5	



## ITS 4101 (RG) and ITS 4101 (RRG) Cylindrical In-Line Receptacle Assembly with Rubber-Coated Cable Sealing Backshell



### Application Notes:

1. Cylindrical in-line receptacle assembly with rubber-coated cable sealing backshell with spring style strain relief for use with jacketed cables.
2. RG - Non-Environmental; Supplied with backshell only  
RRG - Environmental; Supplied with wire sealing grommet
3. Standard materials configuration consists of aluminum alloy with plating ROHS compliant.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available.  
See our website and/or contact the factory for complete information.

**ITS 4101 (RG) and ITS 4101 (RRG)  
Cylindrical In-Line Receptacle Assembly  
with Rubber-Coated Cable Sealing Backshell**



**TABLE I: DIMENSIONS**

Shell Size	ØA +0 -0.1	ØB		K ±0.2	L Max.	M +0.2 -0	ØQ ±0.1
		min.	Max.				
<b>14 S</b>	24.5	9.52	12.70	3.3	85	14.5	28.8
<b>16 S</b>	27.2	12.70	15.90	3.3	90	14.5	30.5
<b>16</b>	27.2	12.70	15.90	3.3	90	19.1	30.5
<b>18</b>	30.7	12.70	15.90	4.0	101	19.1	33.8
<b>20</b>	34.0	15.90	19.00	4.0	119	19.1	36.9
<b>22</b>	37.3	15.90	19.00	4.0	119	19.6	39.5
<b>24</b>	40.9	19.00	22.20	4.0	140	20.6	43.9
<b>28</b>	46.7	22.20	25.40	4.0	140	20.7	48.4
<b>32</b>	53.4	28.50	31.75	4.0	142	22.3	56.0
<b>36</b>	59.6	31.75	34.90	4.0	151	22.3	62.4
<b>40</b>	65.5	38.00	41.27	4.0	153	22.3	68.6

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector less contacts
B1	Connector with gold plated contacts
<b>Omit for version Silver plated</b>	

# ITS 4101 RG (D1) and ITS 4101 RRG (D1) Cylindrical In-Line Receptacle Assembly with Rubber-Coated Backshell for Termination of UNI4883 Rubber Conduit

**FR ITS 41 01 RG 20-27 P Y D12722 XXX**

Fire Resistant Rubber  
Compound

Reverse Bayonet Coupling

Contact Type  
41 - Crimp

01 - In-Line Receptacle Assembly

Connector/Backshell Class  
RG - Non-Environmental; Supplied  
with Backshell Only  
RRG - Environmental; Supplied  
with Wire Sealing Grommet

Mod Code Option (See Table II)

UNI4883 Backshell Adapter Shell Size  
Designator (See Table III)

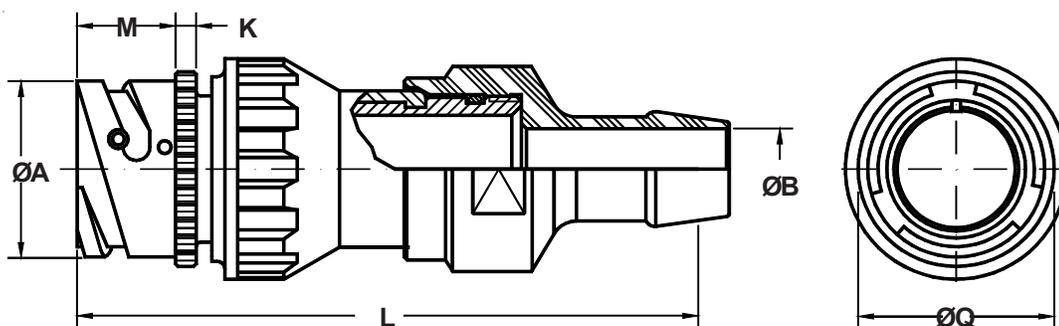
Alternate Insert Rotation (W, X, Y, Z)  
Omit for Normal (See Section A)

Contact Gender  
P - Pin  
S - Socket

Shell Size and Insert Arrangement  
(See Section A)

**TABLE II: MODIFICATION CODES**

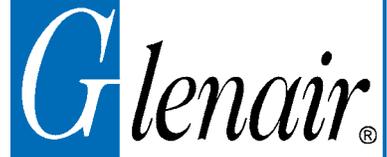
CONTACT OPTIONS	
Sym	Description
B0	Connector less contacts
B1	Connector with gold plated contacts
<b>Omit for version Silver plated</b>	



### Application Notes:

- In-line receptacle assembly with rear backshell for termination of UNI41883 type rubber conduit.
- RG - Non-Environmental; Supplied with backshell only  
RRG - Environmental; Supplied with wire sealing grommet
- Standard materials configuration consists of aluminum alloy with plating ROHS compliant.
- Standard contact material consists of copper alloy with silver plating or gold plating.
- A broad range of additional connector accessories are available.  
See our website and/or contact the factory for complete information.

**ITS 4101 RG (D1) and ITS 4101 RRG (D1)  
Cylindrical In-Line Receptacle Assembly  
with Rubber-Coated Backshell  
for Termination of UNI4883 Rubber Conduit**



Series ITS-RG

**TABLE I: DIMENSIONS**

Shell Size	ØA +0 -0.1	ØB	K ±0.2	L Max.	M +0.2 -0	ØQ ±0.1
14 S	24.5	See Table III Below	3.3	85	14.5	28.8
16 S	27.2		3.3	90	14.5	30.5
16	27.2		3.3	90	19.1	30.5
18	30.7		4.0	101	19.1	33.8
20	34.0		4.0	119	19.1	36.9
22	37.3		4.0	119	19.6	39.5
24	40.9		4.0	140	20.6	43.9
28	46.7		4.0	140	20.7	48.4
32	53.4		4.0	142	22.3	56.0
36	59.6		4.0	151	22.3	62.4
40	65.5		4.0	153	22.3	68.6

**TABLE III: BACKSHELL DIMENSIONS RUBBER CONDUIT**

Shell Size	In accordance with UNI 4883		ØB ±0.1	±0.2
	ø Min.	ø Max.		
10SL	12.0	17.0	10.5	
18	22.0	27.0	20.5	
20 - 22	12.0	17.0	10.5	
20 - 22	22.0	27.0	20.5	
20 - 22	28.0	33.0	31.5	
24 - 28	20.0	25.0	16.5	
24 - 28	22.0	27.0	20.5	
24 - 28	26.0	31.0	22.5	
24 - 28	28.0	33.0	26.5	
24 - 28	30.0	35.0	26.5	
24 - 28	33.0	38.0	31.5	
24 - 28	45.0	50.0	36.2	
32	26.0	31.0	24.5	
32	28.0	33.0	26.5	
32	33.0	38.0	31.5	
32	35.0	40.0	31.5	
32	45.0	50.0	40.0	
36	30.0	35.0	26.5	
36	33.0	38.0	31.5	
36	35.0	40.0	31.5	
36	45.0	50.0	43.5	
40	36.0	41.0	31.5	
40	40.0	45.0	38.5	
40	45.0	50.0	43.5	
40	50.0	55.0	48.5	



## ITS 4102 (AFS) and ITS 4102 (RFS) Front Panel Mount Square Flange Receptacle No Accessory Threads

**FR ITS 41 02 AFS 20-27 P Y XXX**

Fire Resistant Rubber  
Compound

Reverse Bayonet Coupling

Contact Type  
41 - Crimp

02 - Front Box Mount

Connector Class  
A - General Duty  
R - Sealed Insulator

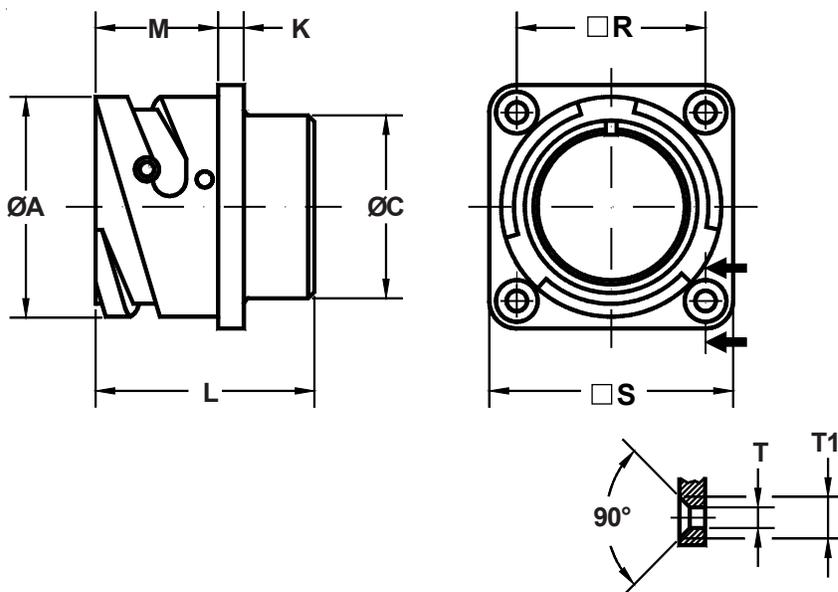
FS - Chamfered Mounting Holes

Mod Code Option (See Table II)

Alternate Insert Rotation (W, X, Y, Z)  
Omit for Normal (See Section A)

Contact Gender  
P - Pin  
S - Socket

Shell Size and Insert Arrangement  
(See Section A)



### Application Notes:

1. Front panel mount square flange receptacle—No accessory threads. Chamfered mounting holes.
2. Connector class:  
A - general duty  
R - sealed insulator  
FS - chamfered mounting holes
3. Standard materials configuration consists of aluminum alloy with plating ROHS compliant.
4. Standard contact material consists of copper alloy with silver plating or gold plating.

**ITS 4102 (AFS) and ITS 4102 (RFS)  
Front Panel Mount Square Flange Receptacle  
No Accessory Threads**



**TABLE I: DIMENSIONS**

Shell Size	ØA +0 -0.1	ØC Max.	K ±0.2	L ±0.3	M +0.2 -0	R ±0.1	S ±0.2	ØT H13	ØT1
<b>14 S</b>	24.5	19.2	3.3	24.7	14.5	23.00	30.4	3.2	6.5
<b>16 S</b>	27.2	22.4	3.3	24.7	14.5	24.60	32.5	3.2	6.5
<b>16</b>	27.2	22.4	3.3	33.8	19.1	24.60	32.5	3.2	6.5
<b>18</b>	30.7	25.6	4.0	34.5	19.1	27.00	35.0	3.2	6.5
<b>20</b>	34.0	29.0	4.0	34.5	19.1	29.40	38.0	3.2	6.5
<b>22</b>	37.3	32.2	4.0	34.5	19.6	31.75	41.0	3.2	6.5
<b>24</b>	40.9	35.3	4.0	35.7	20.6	34.90	44.5	3.7	7.5
<b>28</b>	46.7	41.4	4.0	35.7	20.7	39.70	50.9	3.7	7.5
<b>32</b>	53.4	47.8	4.0	37.3	22.3	44.45	57.0	4.3	8.0
<b>36</b>	59.6	54.1	4.0	37.3	22.3	49.20	63.5	4.3	8.0
<b>40</b>	65.5	59.0	4.0	37.3	22.3	55.55	69.9	4.3	8.0

**TABLE II: MODIFICATION CODES**

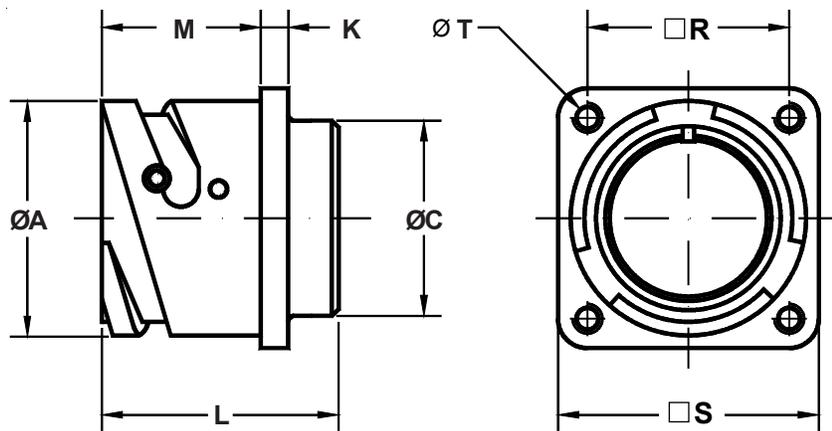
CONTACT OPTIONS	
Sym	Description
B0	Connector less contacts
B1	Connector with gold plated contacts
<b>Omit for version Silver plated</b>	



## ITS 4103 (A) and ITS 4103 (R) Rear Panel Mount Square Flange Receptacle No Accessory Threads

**FR ITS 41 03 A FP 20-27 P Y XXX**

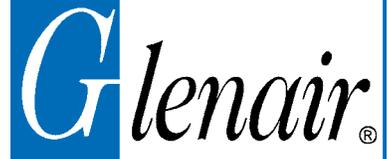
<p>Fire Resistant Rubber Compound ————</p> <p>Reverse Bayonet Coupling ————</p> <p>Contact Type ———— 41 - Crimp</p> <p>02 - Rear Box Mount ————</p> <p>Connector Class ———— A - General Duty R - Sealed Insulator</p> <p>Mounting Holes ———— FP - Non-Threaded Through Mounting Holes OMIT - For Standard (Threaded) Mounting Holes</p>	<p>Mod Code Option (See Table II)</p> <p>Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)</p> <p>Contact Gender P - Pin S - Socket</p> <p>Shell Size and Insert Arrangement (See Section A)</p>
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### Application Notes:

1. Rear panel mount square flange receptacle—No accessory threads. Through mounting holes. Optional non-threaded mounting holes available.
2. Non-environmental (no grommet supplied).
3. Standard materials configuration consists of aluminum alloy with plating ROHS compliant.
4. Standard contact material consists of copper alloy with silver plating or gold plating.

**ITS 4103 (A) and ITS 4103 (R)  
Rear Panel Mount Square Flange Receptacle  
No Accessory Threads**



**TABLE I: DIMENSIONS**

Shell Size	ØA +0 -0.1	ØC Max.	K ±0.2	L Max.	M +0.2 -0	R ±0.1	S +0.2	T Thread
10 SL	18.2	16.2	2.8	24.7	18.5	18.25	25.4	M4
14 S	24.5	19.2	3.3	24.7	18.5	23.00	30.4	M4
16 S	27.2	22.4	3.3	24.7	18.5	24.60	32.5	M4
16	27.2	22.4	3.3	33.8	23.2	24.60	32.5	M4
18	30.7	25.6	4.0	34.2	23.2	27.00	35.0	M4
20	34.0	29.0	4.0	34.5	23.2	29.40	38.0	M4
22	37.3	32.2	4.0	33.8	23.2	31.75	41.0	M4
24	40.9	35.3	4.0	34.5	23.2	34.90	44.5	M4
28	46.7	41.4	4.0	34.5	24.4	39.70	50.9	M5
32	53.4	47.8	4.0	33.8	24.2	44.45	57.0	M5
36	59.6	54.1	4.0	33.8	24.2	49.20	63.5	M5
40	65.5	59.0	4.0	33.8	24.4	55.55	69.9	M5

**TABLE II: MODIFICATION CODES**

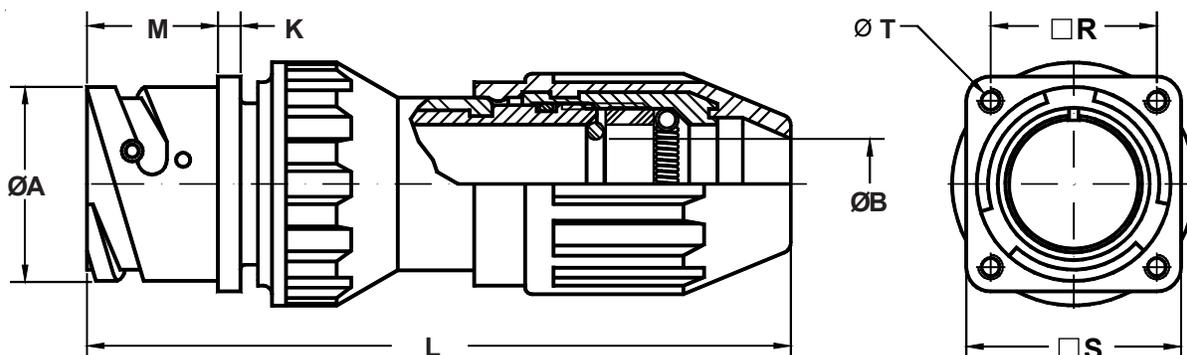
CONTACT OPTIONS	
Sym	Description
B0	Connector less contacts
B1	Connector with gold plated contacts
<b>Omit for version Silver plated</b>	



## ITS 41030 (RG) and ITS 41030 (RRG) Rear Panel Mount Square Flange Receptacle with Rubber-Coated Cable Sealing Backshell

**FR ITS 41 030 RG FP 20-27 P Y XXX**

<p>Fire Resistant Rubber Compound ————</p> <p>Reverse Bayonet Coupling ————</p> <p>Contact Type 41 - Crimp</p> <p>030 - Rear Wall Mount</p> <p>Connector/Backshell Class RG - Non-Environmental; Supplied with Backshell Only RRG - Environmental; Supplied with Wire Sealing Grommet</p>	<p>Mod Code Option (See Table II)</p> <p>Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)</p> <p>Contact Gender P - Pin S - Socket</p> <p>Shell Size and Insert Arrangement (See Section A)</p> <p>Mounting Holes FP - Non-Threaded Through Mounting Holes OMIT - For Standard (Threaded) Mounting Holes</p>
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### Application Notes:

1. Rear panel mount square flange receptacle assembly with rubber-coated cable sealing backshell with spring style strain relief for use with jacketed cables. Through mounting holes. Optional non-threaded mounting holes available.
2. RG - Non-Environmental; Supplied with backshell only  
RRG - Environmental; Supplied with wire sealing grommet
3. Standard materials configuration consists of aluminum alloy with plating ROHS compliant.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available.  
See our website and/or contact the factory for complete information.

**ITS 41030 (RG) and ITS 41030 (RRG)  
Rear Panel Mount Square Flange Receptacle  
with Rubber-Coated Cable Sealing Backshell**



**TABLE I: DIMENSIONS**

Shell Size	ØA +0 -0.1	ØB		K ±0.2	L Max.	M +0.2 -0	R ±0.1	S ±0.2	T Thread
		Min.	Max.						
14 S	24.5	9.52	12.70	3.3	90	18.5	23.00	30.4	M4
16 S	27.2	12.70	15.90	3.3	95	18.5	24.60	32.5	M4
16	27.2	12.70	15.90	3.3	95	23.2	24.60	32.5	M4
18	30.7	12.70	15.90	4.0	106	23.2	27.00	35.0	M4
20	34.0	15.90	19.00	4.0	124	23.2	29.40	38.0	M4
22	37.3	15.90	19.00	4.0	124	23.2	31.75	41.0	M4
24	40.9	19.00	22.20	4.0	145	23.2	34.90	44.5	M4
28	46.7	22.20	25.40	4.0	145	24.4	39.70	50.9	M5
32	53.4	28.50	31.75	4.0	147	24.2	44.45	57.0	M5
36	59.6	31.75	34.90	4.0	156	24.2	49.20	63.5	M5
40	65.5	38.00	41.27	4.0	158	24.4	55.55	69.9	M5

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector less contacts
B1	Connector with gold plated contacts
Omit for version Silver plated	



**257-012**  
**Environment Resistant Receptacle**  
**MIL-DTL-5015 Type**  
**Mates to Mil-C-5015 (MS3106) Type Plug Connector**

2 = RECEPTACLE ASSEMBLY  
 SHELL SIZE, TABLE I  
 INSERT ARRANGEMENT DASH NO  
 CONTACT STYLE:  
 P = PIN  
 S = SOCKET  
 ALTERNATE INSERT POSITION, OMIT FOR NORMAL  
 M = MOLDING ADAPTER  
 P = POTTING ADAPTER  
 (OMIT FOR NONE)

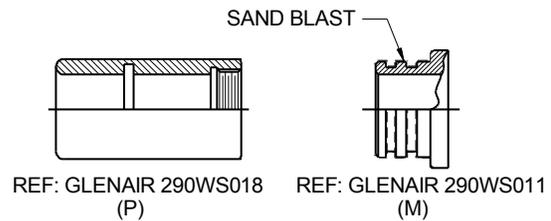
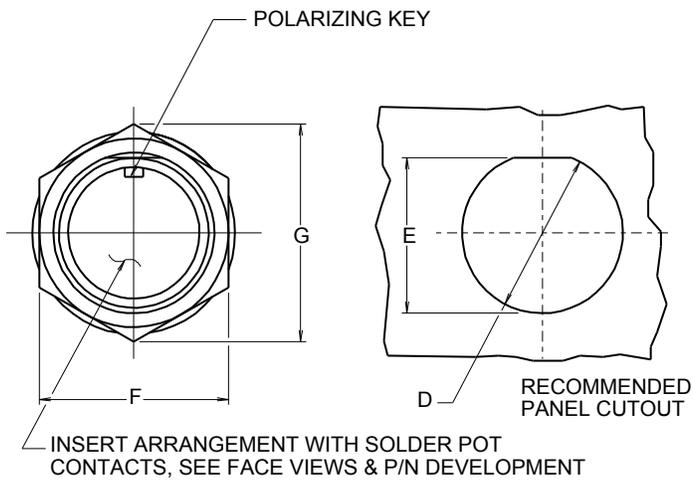
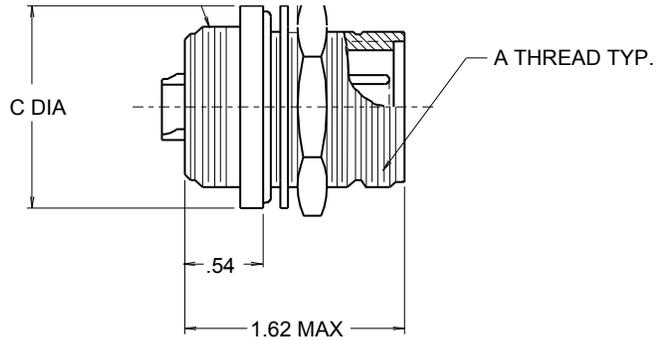


TABLE I: CONNECTOR DIMENSIONS

SHELL SIZE	A THREAD CLASS 2A	B THREAD CLASS 2A	C MAX	D +.010 - .000 (+0.3 - 0)	E +.010 - .000 (+0.3 - 0)	F MAX	G MAX
10SL	5/8 -24 UNEF	5/8 -24 UNEF	1.03 (26.2)	.635 (16.1)	.585 (14.9)	.875 (22.2)	.94 (23.9)
12	3/4 -20 UNEF	3/4 -20 UNEF	1.16 (29.5)	.760 (19.3)	.710 (18.0)	1.000 (25.4)	1.09 (27.7)
14S	7/8 -20 UNEF	7/8 -20 UNEF	1.28 (32.5)	.885 (22.5)	.835 (21.2)	1.125 (28.6)	1.25 (31.8)
16S	1 -20 UNEF	1 -20 UNEF	1.42 (36.1)	1.010 (25.7)	.960 (24.4)	1.250 (31.8)	1.39 (35.3)
18	1 1/8 -18 UNEF	1 1/8 -16 UN	1.66 (42.2)	1.135 (28.8)	1.085 (27.6)	1.500 (38.1)	1.69 (42.9)
20	1 1/4 -18 UNEF	1 1/4 -16 UN	1.78 (45.2)	1.260 (32.0)	1.210 (30.7)	1.625 (41.3)	1.82 (46.2)
24	1 1/2 -18 UNEF	1 1/2 -16 UN	2.03 (51.6)	1.510 (38.4)	1.460 (37.1)	1.875 (47.6)	2.12 (53.8)
28	1 3/4 -18 UNEF	1 3/4 -18 UN	2.28 (57.9)	1.760 (44.7)	1.710 (43.4)	2.125 (54.0)	2.42 (61.5)

**TABLE I: DIMENSIONS**

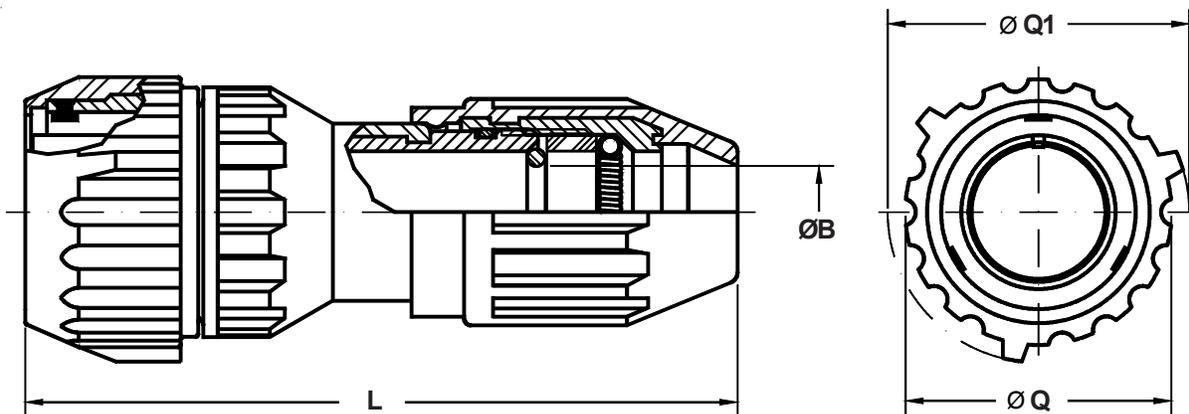
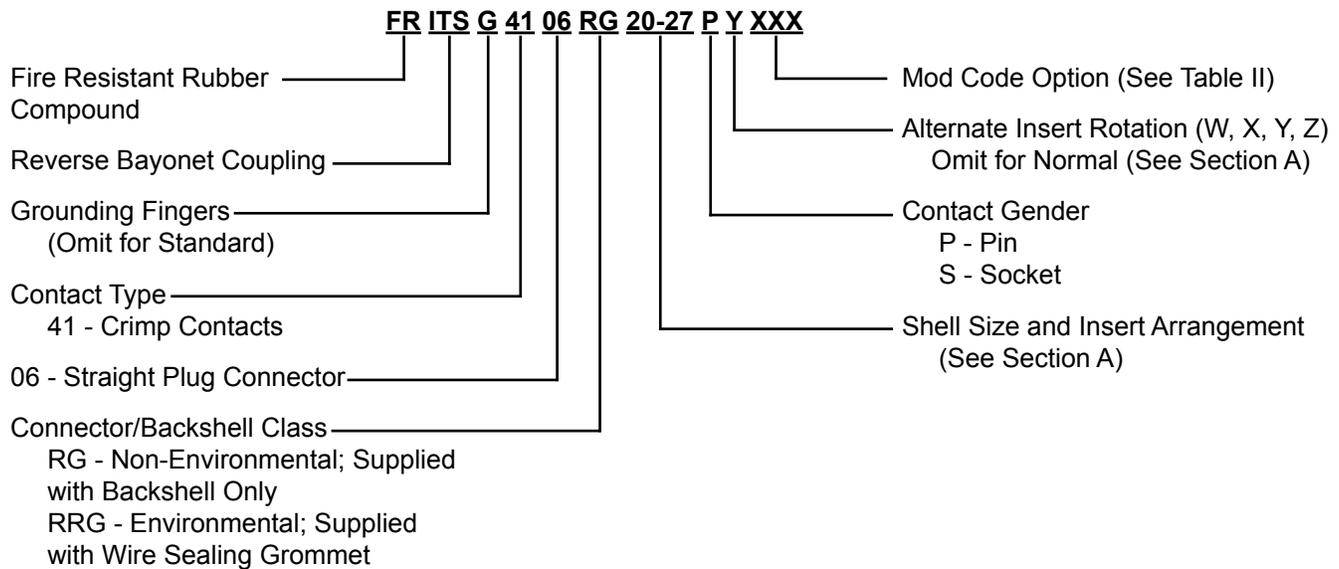
Shell Size	L Max.	ØQ ±0.5	ØQ1 ±0.5	F Thread
<b>10 SL</b>	46.0	28.6	33.5	0.6250 - 24UNEF
<b>14 S</b>	48.4	35.0	42.0	0.7500 - 20UNEF
<b>16 S</b>	48.4	38.0	45.0	0.8750 - 20UNEF
<b>16</b>	59.8	38.0	45.0	0.8750 - 20UNEF
<b>18</b>	59.8	43.5	49.0	1.0000 - 20UNEF
<b>20</b>	60.1	46.0	51.5	1.1875 - 18UNEF
<b>22</b>	60.1	50.5	56.0	1.1875 - 18UNEF
<b>24</b>	61.7	54.0	60.0	1.4375 - 18UNEF
<b>28</b>	68.2	61.0	67.0	1.4375 - 18UNEF
<b>32</b>	73.3	68.0	76.0	1.7500 - 18UNS
<b>36</b>	78.8	74.0	82.0	2.0000 - 18UNS
<b>40</b>	78.8	80.0	88.0	2.2500 - 16UN

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector less contacts
B1	Connector with gold plated contacts
<b>Omit for version Silver plated</b>	



## ITS 4106 (RG) and ITS 4106 (RRG) Straight Cylindrical Plug Connector with Rubber-Coated Cable Sealing Backshell



### Application Notes:

1. Straight plug connector with rubber-coated cable sealing backshell with spring style strain relief for use with jacketed cables.
2. RG - Non-Environmental; Supplied with backshell only  
RRG - Environmental; Supplied with wire sealing grommet
3. Standard materials configuration consists of aluminum alloy with plating ROHS compliant.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available.  
See our website and/or contact the factory for complete information.

**ITS 4106 (RG) and ITS 4106 (RRG)  
Straight Cylindrical Plug Connector  
with Rubber-Coated Cable Sealing Backshell**



**TABLE I: DIMENSIONS**

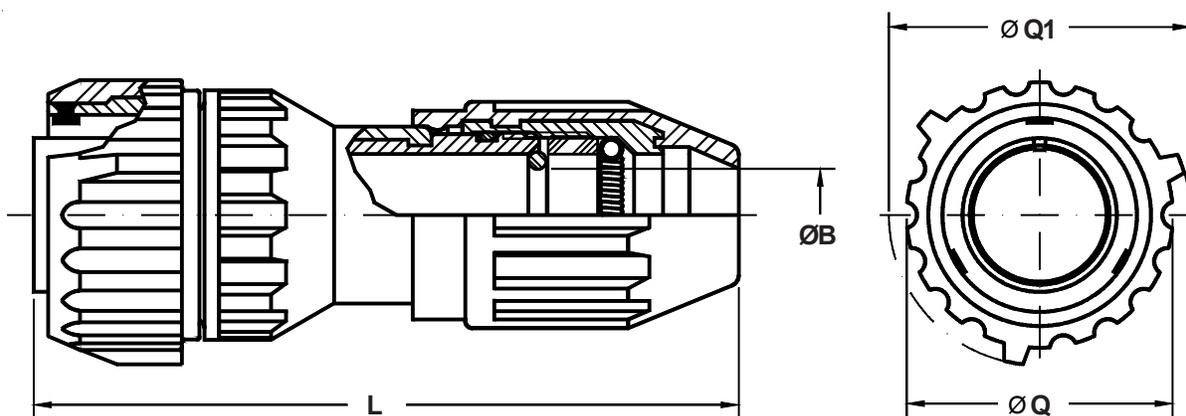
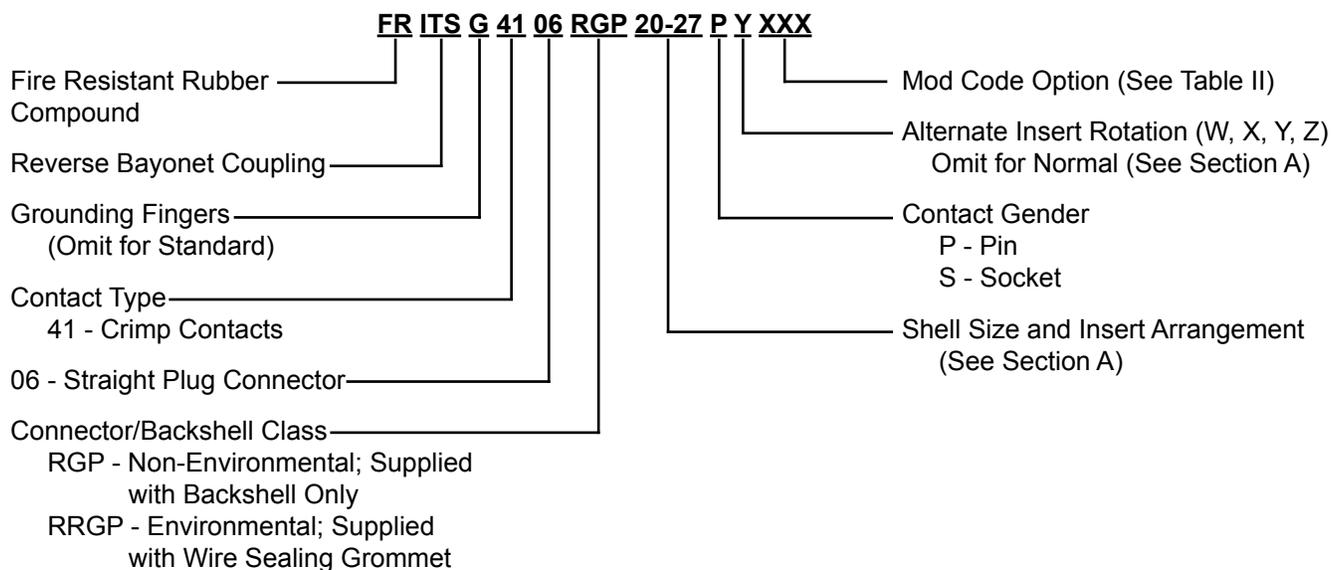
Shell Size	ØB		L	ØQ	ØQ1
	Min.	Max.	Max.	±0.5	±0.5
<b>14 S</b>	9.52	12.70	92	35.0	42.0
<b>16 S</b>	12.70	15.90	92	38.0	45.0
<b>16</b>	12.70	15.90	98	38.0	45.0
<b>18</b>	12.70	15.90	101	43.5	49.0
<b>20</b>	15.90	19.00	119	46.0	51.5
<b>22</b>	15.90	19.00	119	50.5	56.0
<b>24</b>	19.00	22.20	143	54.0	60.0
<b>28</b>	22.20	25.40	143	61.0	67.0
<b>32</b>	28.50	31.75	145	68.0	76.0
<b>36</b>	31.75	34.90	155	74.0	82.0
<b>40</b>	38.00	41.27	157	80.0	88.0

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector less contacts
B1	Connector with gold plated contacts
<b>Omit for version Silver plated</b>	



## ITS 4106 (RGP) and ITS 4106 (RRGP) Straight Cylindrical Plug Connector with Rubber-Coated Cable Sealing Backshell for Use with 03 and 030 Receptacles



### Application Notes:

1. Straight plug connector with rubber-coated cable sealing backshell with spring style strain relief for use with jacketed cables. Designed for use with 03 and 030 receptacles.
2. RGP - Non-Environmental; Supplied with backshell only;  
RRGP - Environmental; Supplied with wire sealing grommet.
3. Standard materials configuration consists of aluminum alloy with plating ROHS compliant..
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available.  
See our website and/or contact the factory for complete information.

**ITS 4106 (RGP) and ITS 4106 (RRGP)**  
**Straight Cylindrical Plug Connector**  
**with Rubber-Coated Cable Sealing Backshell**  
**for Use with 03 and 030 Receptacles**



**TABLE I: DIMENSIONS**

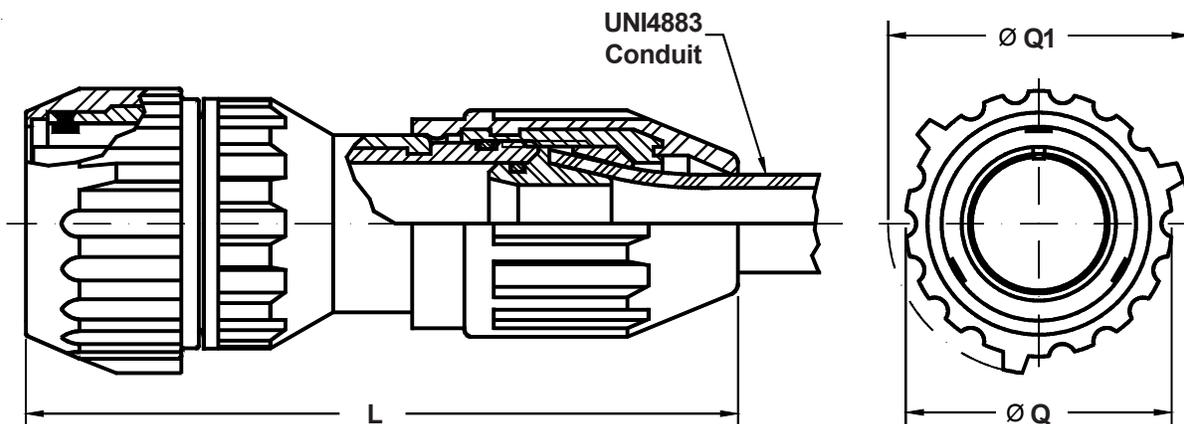
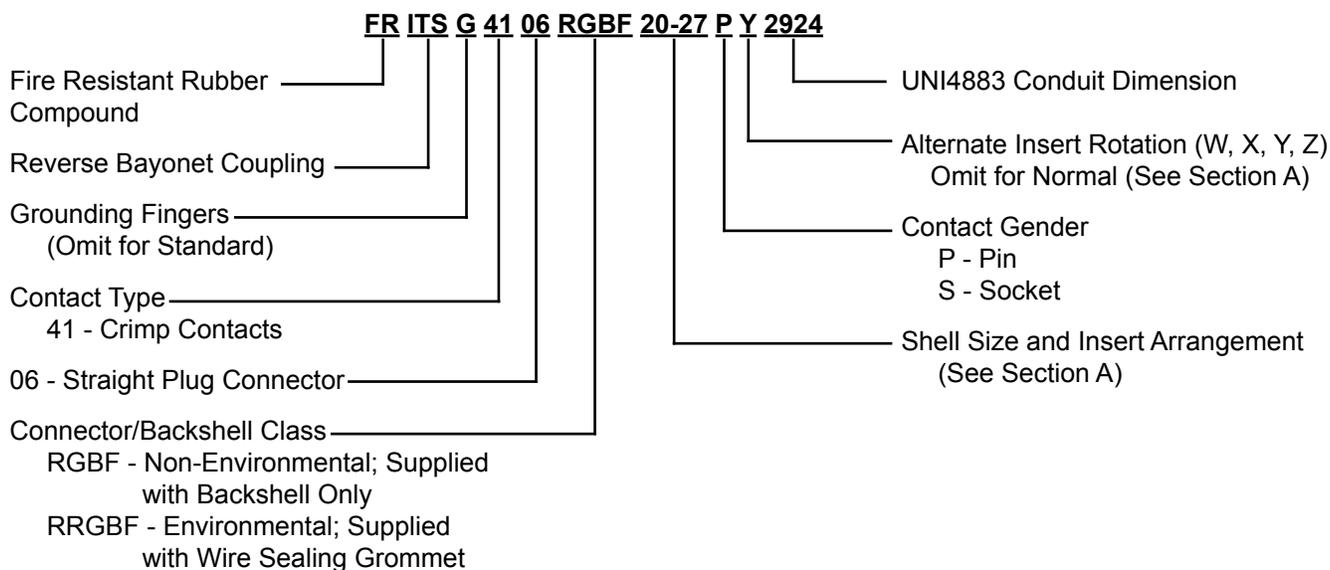
<i>Shell size</i>	ØB		L	ØQ	ØQ1
	min.	Max.	Max.	±0.5	±0.5
<b>14 S</b>	9.52	12.70	92	35.0	42.0
<b>16 S</b>	12.70	15.90	92	38.0	45.0
<b>16</b>	12.70	15.90	98	38.0	45.0
<b>18</b>	12.70	15.90	101	43.5	49.0
<b>20</b>	15.90	19.00	119	46.0	51.5
<b>22</b>	15.90	19.00	119	50.5	56.0
<b>24</b>	19.00	22.20	143	54.0	60.0
<b>28</b>	22.20	25.40	143	61.0	67.0
<b>32</b>	28.50	31.75	145	68.0	76.0
<b>36</b>	31.75	34.90	155	74.0	82.0
<b>40</b>	38.00	41.27	157	80.0	88.0

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector less contacts
B1	Connector with gold plated contacts
<b>Omit for version Silver plated</b>	



## ITS 4106 (RGBF) and ITS 4106 (RRGBF) Straight Cylindrical Plug Connector with Rubber-Coated Threaded Adapter for Use with UNI4883 Conduit



### Application Notes:

1. Straight plug connector with rubber-coated threaded adapter for termination of UNI4883 conduit.
2. RGBF - Non-Environmental. Supplied with backshell only;  
RRGBF - Environmental. Supplied with wire sealing grommet.
3. Standard materials configuration consists of aluminum alloy with plating ROHS compliant.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available.  
See our website and/or contact the factory for complete information.

**ITS 4106 (RGBF) and ITS 4106 (RRGBF)  
Straight Cylindrical Plug Connector  
with Rubber-Coated Threaded Adapter  
for Use with UNI4883 Conduit**



**TABLE I: DIMENSIONS**

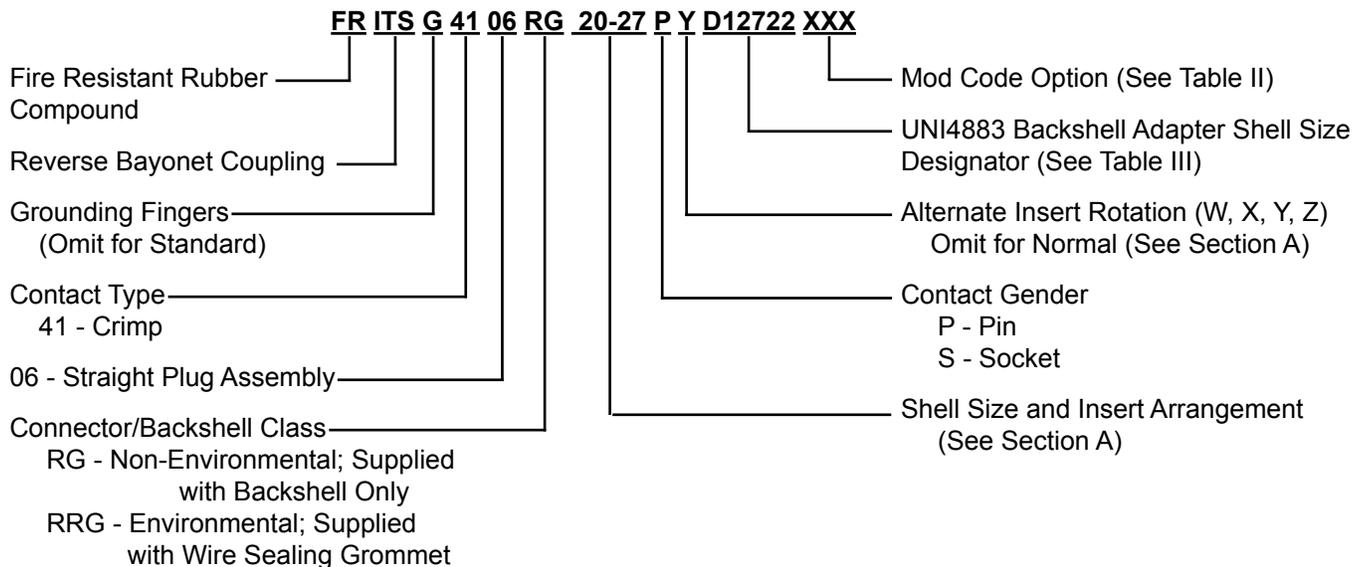
<i>Shell size</i>	<b>L Max.</b>	<b>ØQ ±0.5</b>	<b>ØQ1 ±0.5</b>	<i>Rubber conduits UNI 4883</i>
<b>14 S</b>	92	35.0	42.0	20x15 23x18 27x22 29x24 33x28 38x33 40x35 48x43 50x45
<b>16 S</b>	92	38.0	45.0	
<b>16</b>	98	38.0	45.0	
<b>18</b>	101	43.5	49.0	
<b>20</b>	119	46.0	51.5	
<b>22</b>	119	50.5	56.0	
<b>24</b>	143	54.0	60.0	
<b>28</b>	143	61.0	67.0	
<b>32</b>	145	68.0	76.0	
<b>36</b>	155	74.0	82.0	
<b>40</b>	157	80.0	88.0	

**TABLE II: MODIFICATION CODES**

<b>CONTACT OPTIONS</b>	
<b>Sym</b>	<b>Description</b>
B0	Connector less contacts
B1	Connector with gold plated contacts
<b>Omit for version Silver plated</b>	

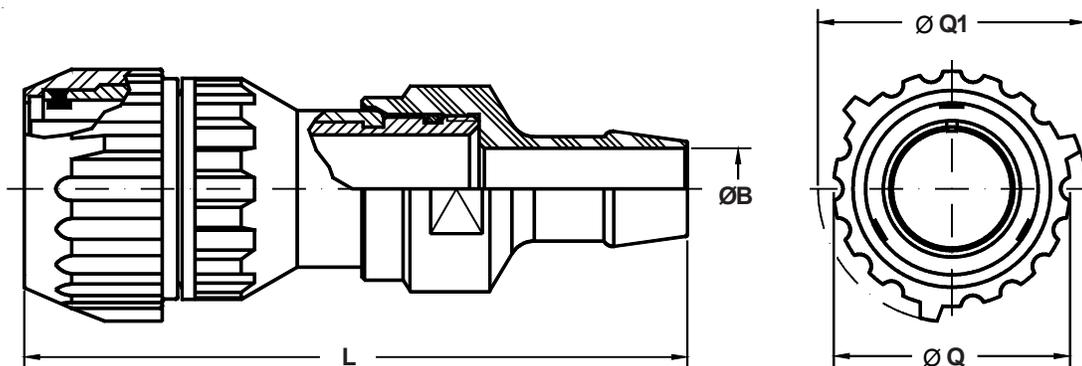


## ITS 4106 RG and ITS 4106 RRG Straight Plug Assembly with Rubber-Coated Backshell for Termination of UNI4883 Rubber Conduit



**TABLE II: MODIFICATION CODES**

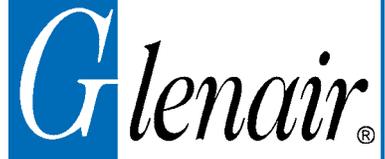
CONTACT OPTIONS	
Sym	Description
B0	Connector less contacts
B1	Connector with gold plated contacts
Omit for version Silver plated	



**Application Notes:**

1. Straight plug assembly with rubber-coated backshell for termination of UNI41883 type rubber conduit.
2. RG - Non-Environmental. Supplied with backshell only;  
RRG - Environmental. Supplied with wire sealing grommet.
3. Standard materials configuration consists of aluminum alloy with plating ROHS compliant.
4. Standard contact material consists of copper alloy with silver plating or gold plating.
5. A broad range of additional connector accessories are available.  
See our website and/or contact the factory for complete information.

**ITS 4106 RG and ITS 4106 RRG  
Straight Plug Assembly  
with Rubber-Coated Backshell  
for Termination of UNI4883 Rubber Conduit**



Series ITS-RG

**TABLE I: DIMENSIONS**

Shell size	ØB	L	ØQ	ØQ1
		Max.	±0.5	±0.5
14 S	See Table III Below	-	35.0	42.0
16 S		-	38.0	45.0
16		-	38.0	45.0
18		115	43.5	49.0
20		128	46.0	51.5
22		128	50.5	56.0
24		150	54.0	60.0
28		150	61.0	67.0
32		150	68.0	76.0
36		160	74.0	82.0
40		150	80.0	88.0

**TABLE III: BACKSHELL DIMENSIONS RUBBER CONDUIT**

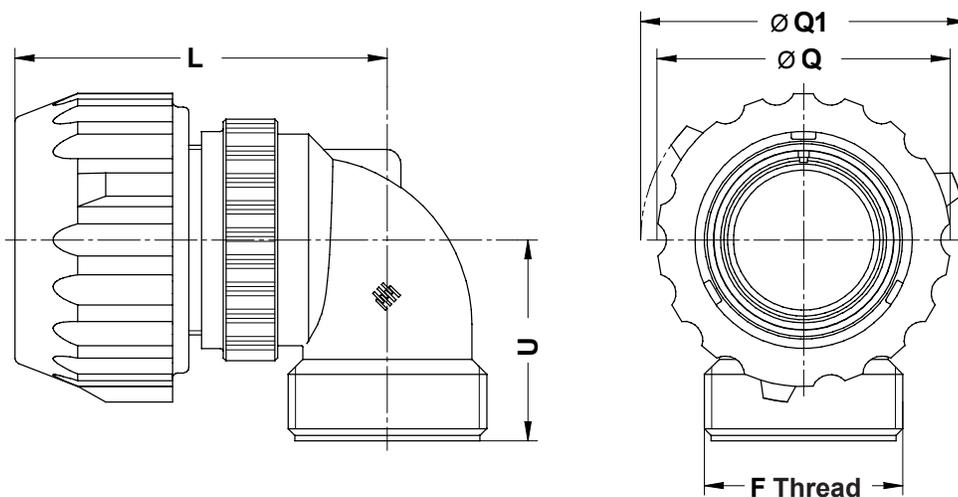
Shell Size	In accordance with UNI 4883		ØB ±0.1	±0.2
	ø Min.	ø Max.		
10SL	12.0	17.0	10.5	
18	22.0	27.0	20.5	
20 - 22	12.0	17.0	10.5	
20 - 22	22.0	27.0	20.5	
20 - 22	28.0	33.0	31.5	
24 - 28	20.0	25.0	16.5	
24 - 28	22.0	27.0	20.5	
24 - 28	26.0	31.0	22.5	
24 - 28	28.0	33.0	26.5	
24 - 28	30.0	35.0	26.5	
24 - 28	33.0	38.0	31.5	
24 - 28	45.0	50.0	36.2	
32	26.0	31.0	24.5	
32	28.0	33.0	26.5	
32	33.0	38.0	31.5	
32	35.0	40.0	31.5	
32	45.0	50.0	40.0	
36	30.0	35.0	26.5	
36	33.0	38.0	31.5	
36	35.0	40.0	31.5	
36	45.0	50.0	43.5	
40	36.0	41.0	31.5	
40	40.0	45.0	38.5	
40	45.0	50.0	43.5	
40	50.0	55.0	48.5	



## ITS 3108 (AGG) and ITS 4108 (RGG) 90° Plug Connector with Rubber-Coated Coupling Nut

**FR ITS G 41 08 AGG 20-27 P Y XXX**

Fire Resistant Rubber Compound	FR	Mod Code Option (See Table II)	XXX
Reverse Bayonet Coupling	ITS	Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)	Y
Grounding Fingers (Omit for Standard)	G	Contact Gender P - Pin S - Socket	P
Contact Type 41 - Crimp Contacts	41	Shell Size and Insert Arrangement (See Section A)	20-27
Connector/Backshell Class AGG - Non-Environmental RGG - Environmental; Supplied with Grommet	AGG		
08 - 90° Plug Assembly	08		



### Application Notes:

- 90° plug connector with rubber-coated coupling nut.
- AGG - Non-Environmental. Supplied with backshell only;  
RGG - Environmental. Supplied with wire sealing grommet.
- Standard materials configuration consists of aluminum alloy with plating ROHS compliant.
- Standard contact material consists of copper alloy with silver plating or gold plating.
- A broad range of additional connector accessories are available.  
See our website and/or contact the factory for complete information.

**ITS 3108 (AGG) and ITS 4108 (RGG)  
90° Plug Connector with Rubber-Coated Coupling Nut**



**TABLE I: DIMENSIONS**

<i>Shell size</i>	<i>F thread</i>	L	ØQ	ØQ1	U
		Max.	±0.5	±0.5	±0.2
<b>10 SL</b>	0.6250 - 24UNEF	42	28.6	33.5	25.0
<b>14 S</b>	0.7500 - 20UNEF	44	35.0	42.0	26.5
<b>16 S</b>	0.8750 - 20UNEF	48	38.0	45.0	27.0
<b>16</b>	0.8750 - 20UNEF	57	38.0	45.0	27.0
<b>18</b>	1.0000 - 20UNEF	59	43.5	49.0	30.0
<b>20</b>	1.1875 - 18UNEF	64	46.0	51.5	32.0
<b>22</b>	1.1875 - 18UNEF	64	50.5	56.0	32.0
<b>24</b>	1.4375 - 18UNEF	69	54.0	60.0	37.0
<b>28</b>	1.4375 - 18UNEF	69	61.0	67.0	38.0
<b>32</b>	1.7500 - 18UNS	74	68.0	76.0	45.5
<b>36</b>	2.0000 - 18UNS	77	74.0	82.0	47.2
<b>40</b>	2.2500 - 16UN	80	80.0	88.0	52.0

**TABLE II: MODIFICATION CODES**

<b>CONTACT OPTIONS</b>	
<b>Sym</b>	<b>Description</b>
B0	Connector less contacts
B1	Connector with gold plated contacts
<b>Omit for version Silver plated</b>	



## ITS 4108 (RG) and ITS 4108 (RRG) 90° Cylindrical Plug Connector with Rubber-Coated Cable Sealing Backshell

**FR ITS G 41 08 RG 20-27 P Y XXX**

Fire Resistant Rubber  
Compound

Reverse Bayonet Coupling

Grounding Fingers  
(Omit for Standard)

Contact Type  
41 - Crimp Contacts

08 - 90° Plug Connector

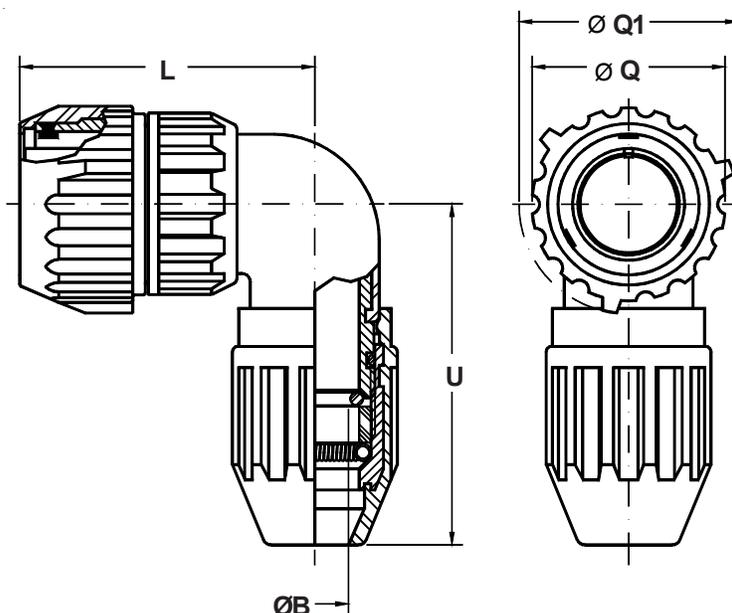
Connector/Backshell Class  
RG - Non-Environmental; Supplied  
with Backshell Only  
RRG - Environmental; Supplied  
with Wire Sealing Grommet

Mod Code Option (See Table II)

Alternate Insert Rotation (W, X, Y, Z)  
Omit for Normal (See Section A)

Contact Gender  
P - Pin  
S - Socket

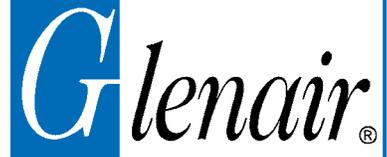
Shell Size and Insert Arrangement  
(See Section A)



### Application Notes:

- 90° plug connector with rubber-coated cable clamp.
- RG - Non-Environmental. Supplied with backshell only;  
RRG - Environmental. Supplied with wire sealing grommet.
- Standard materials configuration consists of aluminum alloy with plating ROHS compliant.
- Standard contact material consists of copper alloy with silver plating or gold plating.
- A broad range of additional connector accessories are available.  
See our website and/or contact the factory for complete information.

**ITS 4108 (RG) and ITS 4108 (RRG)  
90° Cylindrical Plug Connector  
with Rubber-Coated Cable Sealing Backshell**



**TABLE I: DIMENSIONS**

<i>Shell size</i>	ØB		L	ØQ	ØQ1	U
	min.	Max.	Max.	±0.5	±0.5	Max.
<b>14 S</b>	9.52	12.70	57	35.0	42.0	60
<b>16 S</b>	12.70	15.90	58	38.0	45.0	68
<b>16</b>	12.70	15.90	67	38.0	45.0	68
<b>18</b>	12.70	15.90	68	43.5	49.0	70
<b>20</b>	15.90	19.00	71	46.0	51.5	72
<b>22</b>	15.90	19.00	71	50.5	56.0	72
<b>24</b>	19.00	22.20	76	54.0	60.0	80
<b>28</b>	22.20	25.40	76	61.0	67.0	80
<b>32</b>	28.50	31.75	80	68.0	76.0	88
<b>36</b>	31.75	34.90	84	74.0	82.0	95
<b>40</b>	38.00	41.27	88	80.0	88.0	98

**TABLE II: MODIFICATION CODES**

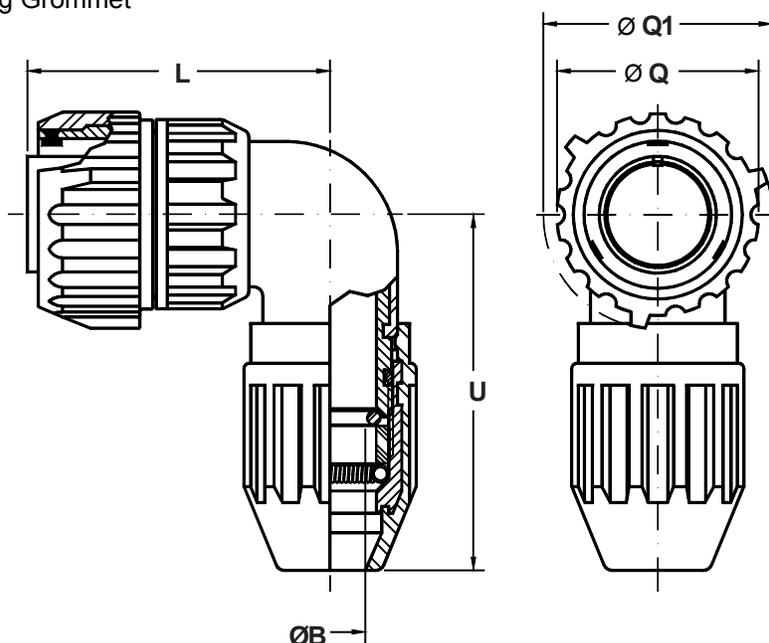
CONTACT OPTIONS	
Sym	Description
B0	Connector less contacts
B1	Connector with gold plated contacts
<b>Omit for version Silver plated</b>	



## ITS 4108 (RGP) and ITS 4108 (RRGP) 90° Cylindrical Plug Connector with Rubber-Coated Cable Sealing Backshell for Use with 03 and 030 Receptacles

**FR ITS G 41 08 RGP 20-27 P Y XXX**

<p>Fire Resistant Rubber Compound</p> <p>Reverse Bayonet Coupling</p> <p>Grounding Fingers (Omit for Standard)</p> <p>Contact Type 41 - Crimp Contacts</p> <p>08 - 90° Plug Connector</p> <p>Connector/Backshell Class RGP - Non-Environmental; Supplied with Backshell Only RRGP - Environmental; Supplied with Wire Sealing Grommet</p>	<p>Mod Code Option (See Table II)</p> <p>Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)</p> <p>Contact Gender P - Pin S - Socket</p> <p>Shell Size and Insert Arrangement (See Section A)</p>
---	---



### Application Notes:

- 90° cylindrical plug connector with rubber-coated cable sealing backshell with spring style strain relief for use with jacketed cables. Designed for use with 03 and 030 receptacles.
- RGP - Non-Environmental. Supplied with backshell only;  
RRGP - Environmental. Supplied with wire sealing grommet.
- Standard materials configuration consists of aluminum alloy with plating ROHS compliant.
- Standard contact material consists of copper alloy with silver plating or gold plating.
- A broad range of additional connector accessories are available.  
See our website and/or contact the factory for complete information.

**ITS 4108 (RGP) and ITS 4108 (RRGP)  
90° Cylindrical Plug Connector  
with Rubber-Coated Cable Sealing Backshell  
for Use with 03 and 030 Receptacles**



**TABLE I: DIMENSIONS**

<i>Shell size</i>	ØB		L	ØQ	ØQ1	U
	min.	Max.	Max.	±0.5	±0.5	Max.
<b>14 S</b>	9.52	12.70	57	35.0	42.0	60
<b>16 S</b>	12.70	15.90	58	38.0	45.0	68
<b>16</b>	12.70	15.90	67	38.0	45.0	68
<b>18</b>	12.70	15.90	68	43.5	49.0	70
<b>20</b>	15.90	19.00	71	46.0	51.5	72
<b>22</b>	15.90	19.00	71	50.5	56.0	72
<b>24</b>	19.00	22.20	76	54.0	60.0	80
<b>28</b>	22.20	25.40	76	61.0	67.0	80
<b>32</b>	28.50	31.75	80	68.0	76.0	88
<b>36</b>	31.75	34.90	84	74.0	82.0	95
<b>40</b>	38.00	41.27	88	80.0	88.0	98

**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector less contacts
B1	Connector with gold plated contacts
<b>Omit for version Silver plated</b>	



# ITS 4108 RG (D1) and ITS 4108 RRG (D1) 90° Cylindrical Plug Assembly with Rubber-Coated Backshell for Termination of UNI4883 Rubber Conduit

**FR ITS G 41 08 RG 20-27 P Y D12722 XXX**

Fire Resistant Rubber Compound

Reverse Bayonet Coupling

Grounding Fingers  
(Omit for Standard)

Contact Type  
41 - Crimp

08 - 90° Plug Assembly

Connector/Backshell Class  
RG (D1) - Non-Environmental; Supplied with Backshell Only  
RRG (D1) - Environmental; Supplied with Wire Sealing Grommet

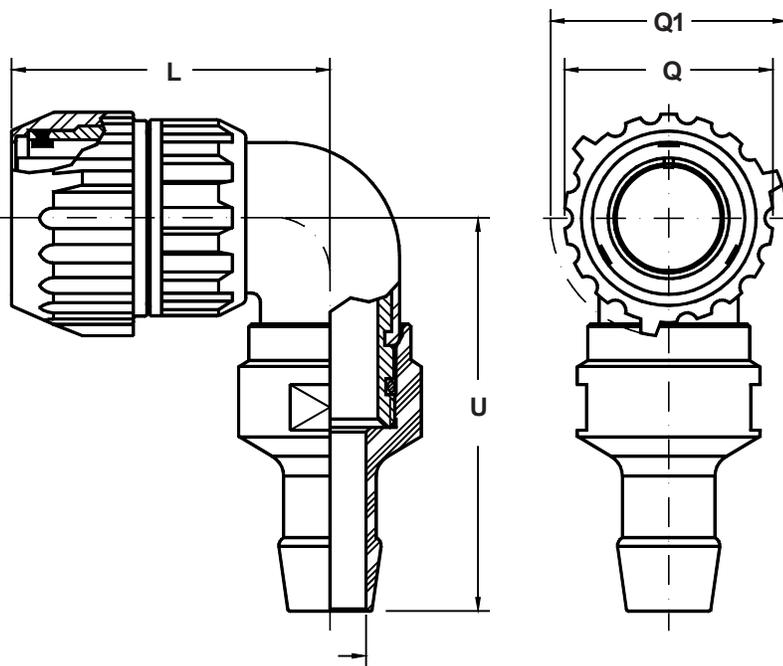
Mod Code Option (See Table II)

UNI4883 Backshell Adapter Shell Size Designator (See Table III)

Alternate Insert Rotation (W, X, Y, Z)  
Omit for Normal (See Section A)

Contact Gender  
P - Pin  
S - Socket

Shell Size and Insert Arrangement (See Section A)



**TABLE II: MODIFICATION CODES**

CONTACT OPTIONS	
Sym	Description
B0	Connector less contacts
B1	Connector with gold plated contacts
Omit for version Silver plated	

### Application Notes:

- 90° plug assembly with rubber-coated backshell for termination of UNI41883 type rubber conduit.
- RG (D1) - Non-Environmental. Supplied with backshell only;  
RRG (D1) - Environmental. Supplied with wire sealing grommet.
- Standard materials configuration consists of aluminum alloy with plating ROHS compliant.
- Standard contact material consists of copper alloy with silver plating or gold plating.
- A broad range of additional connector accessories are available.  
See our website and/or contact the factory for complete information.

**ITS 4108 RG (D1) and ITS 4108 RRG (D1)  
90° Cylindrical Plug Assembly  
with Rubber-Coated Backshell  
for Termination of UNI4883 Rubber Conduit**



Series ITS-RG

**TABLE I: DIMENSIONS**

Shell size	Rubber conduits UNI 4883	L	ØQ	ØQ1	U
		Max.	±0.5	±0.5	Max.
14 S		57	35.0	42.0	-
16 S	20x15	58	38.0	45.0	-
16	23x18	67	38.0	45.0	-
18	27x22	68	43.5	49.0	85
20	29x24	71	46.0	51.5	85
22	33x28	71	50.5	56.0	85
24	38x33	76	54.0	60.0	85
28	40x35	76	61.0	67.0	85
32	48x43	80	68.0	76.0	85
36	50x45	84	74.0	82.0	90
40		88	80.0	88.0	95

**TABLE III: BACKSHELL DIMENSIONS RUBBER CONDUIT**

Shell Size	In accordance with UNI 4883		ØB ±0.1	±0.2
	ø Min.	ø Max.		
10SL	12.0	17.0	10.5	
18	22.0	27.0	20.5	
20 - 22	12.0	17.0	10.5	
20 - 22	22.0	27.0	20.5	
20 - 22	28.0	33.0	31.5	
24 - 28	20.0	25.0	16.5	
24 - 28	22.0	27.0	20.5	
24 - 28	26.0	31.0	22.5	
24 - 28	28.0	33.0	26.5	
24 - 28	30.0	35.0	26.5	
24 - 28	33.0	38.0	31.5	
24 - 28	45.0	50.0	36.2	
32	26.0	31.0	24.5	
32	28.0	33.0	26.5	
32	33.0	38.0	31.5	
32	35.0	40.0	31.5	
32	45.0	50.0	40.0	
36	30.0	35.0	26.5	
36	33.0	38.0	31.5	
36	35.0	40.0	31.5	
36	45.0	50.0	43.5	
40	36.0	41.0	31.5	
40	40.0	45.0	38.5	
40	45.0	50.0	43.5	
40	50.0	55.0	48.5	



# To Most People It's Just a Connector



## To Glenair It's a Promise

Most customers have a simple expectation when they go shopping for safety-critical interconnect components: They want fast and accurate service. Glenair addresses this most basic customer requirement in several different ways. First and foremost, by providing immediate access to our technical information and product documentation: whether you prefer an office visit, the telephone, the Internet, a CD or a printed catalog, Glenair is ready with answers to your most complex questions and design challenges. Secondly, Glenair stocks thousands of popular catalog products for those situations

when even a two or three week lead-time is just too long. We stock over 70,000 interconnect components—bagged and tagged and ready for immediate shipment. And for those situations when a customized solution is required, our engineers are fully versed in all aspects of interconnect system design: from shielding against EMI, to reducing weight and connector package size, to stopping corrosion and other forms of environmental damage.

You have a simple expectation: fast and accurate service. At Glenair, we're ready to give you exactly that. It's a promise.



1211 Air Way

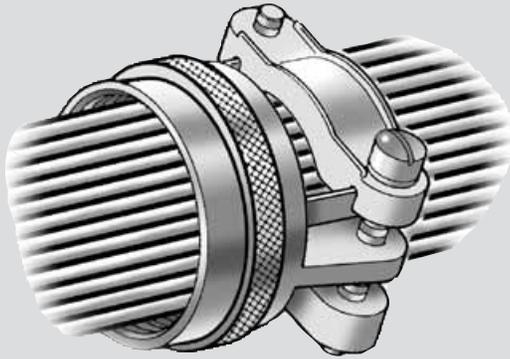
Glendale, California 91201-2497

Telephone: 818-247-6000 · Facsimile: 818-500-9912 · E-Mail: [sales@glenair.com](mailto:sales@glenair.com)

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**Glenair Series ITS  
Reverse Bayonet 5015 Type Connector Accessories  
Product Line Overview**



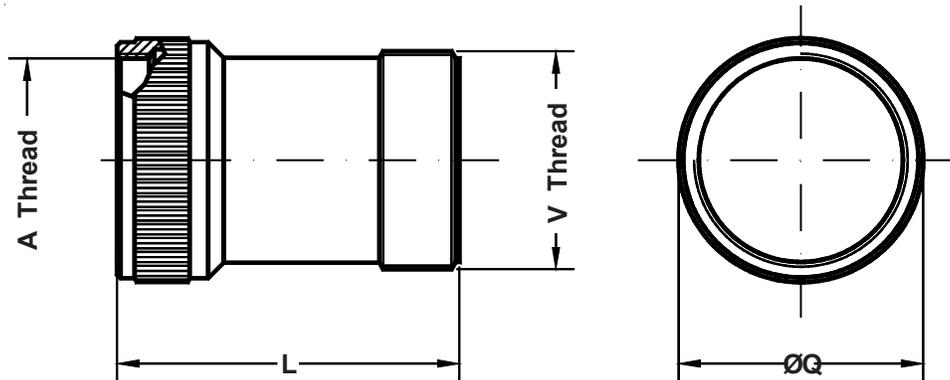
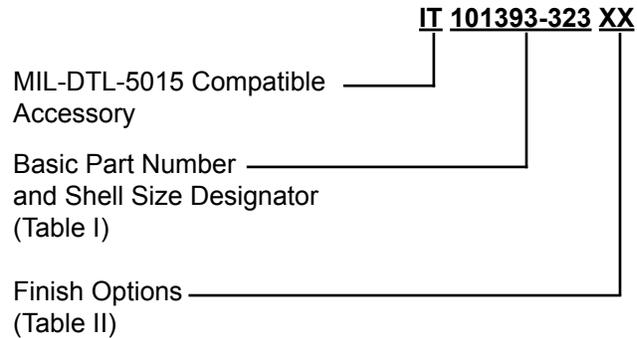
**PRODUCT FEATURES**

- **Full Line of Environmental, Mechanical and EMI/RFI Connector Backshells and Front-End Accessories**
- **Legacy Reverse Bayonet Accessories as well as Dozens of Newer Glenair Designs**
- **All Materials and Finishes Including Aluminum, Stainless Steel and Marine-Bronze**
- **Backshell Styles Include Extender Backshells, Conduit Adapters, and Environmental Cable Clamps**
- **Other Accessories Include Protective Covers, Dummy Stowage Receptacles, Mounting Gaskets and Wire-Hole Plugs**
- **Select From Hundreds of Part Numbers, Many Available for Immediate Same-Day Shipment**

## Glenair Offers the Industry's Largest Selection of Reverse Bayonet Connector Backshell and Accessories

### Complete Flexibility in Ordering

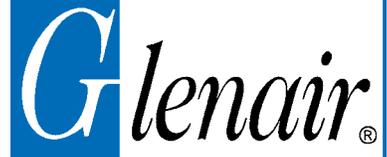
The Glenair Series ITS and ITS-RG Reverse Bayonet Connector lines are designed for the ultimate convenience in ordering. Choose from connectors already outfitted with the most popular backshells, or order your connectors and accessories separately. Both approaches offer excellent availability and fast turnaround. Many part numbers are in stock, ready for immediate same-day shipment.



### Application Notes:

1. To make wiring easier an extender backshell is available for use with cable clamp IT3057-XX A to C
2. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
3. A broad range of other front and rear connector accessories are available.  
See our website and/or contact the factory for complete information.

**IT 101393-XX3**  
**Extender Backshell for Plug Connectors**  
**for Use with Cable Clamp IT3057-XX A/B/C**



**TABLE I: ADAPTER PART NUMBERS, SHELL SIZE, THREAD AND DIMENSIONS**

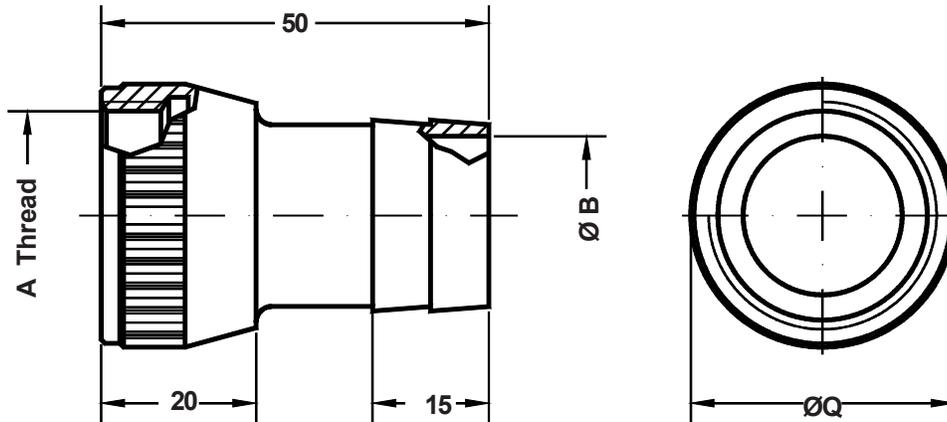
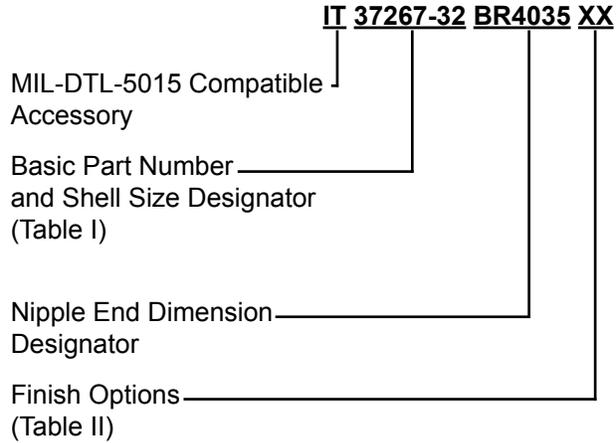
Part Number	Shell Size	A Thread	L	ØQ	V Thread
			Max.	±0.2	
IT 101393-123	10 SL	0.6250 - 24UNEF	50.0	20.0	0.6250 - 24UNEF
IT 101393-143	14 S	0.7500 - 20UNEF	50.0	23.0	0.7500 - 20UNEF
IT 101393-163	16 S	0.8750 - 20UNEF	50.0	25.0	0.8750 - 20UNEF
IT 101393-173	16	0.8750 - 20UNEF	54.0	25.0	0.8750 - 20UNEF
IT 101393-183	18	1.0000 - 20UNEF	56.0	29.5	1.0000 - 20UNEF
IT 101393-203	20	1.1250 - 18UNEF	56.0	32.0	1.1875 - 18UNEF
IT 101393-223	22	1.2500 - 18UNEF	56.0	35.0	1.1875 - 18UNEF
IT 101393-243	24	1.3750 - 18UNEF	56.0	38.5	1.4375 - 18UNEF
IT 101393-283	28	1.6250 - 18UNEF	61.0	45.0	1.4375 - 18UNEF
IT 101393-323	32	1.8750 - 16UN	61.0	53.2	1.7500 - 18UNS
IT 101393-363	36	2.0625 - 16UN	61.0	57.4	2.0000 - 18UNS
IT 101393-403	40	2.3125 - 16UN	61.0	63.2	2.2500 - 16UN

**TABLE II**

FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
	Omit for standard version (Cadmium Olive Drab Finish)



# IT 37267-XXBRXX BR Adapter for Termination of UNI4883 Rubber Conduit



### Application Notes:

1. Backshell for the attachment of UNI4883 type rubber conduit.
2. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
3. A broad range of other front and rear connector accessories are available.  
See our website and/or contact the factory for complete information.

**IT 37267-XXBRXX**  
**BR Adapter**  
for Termination of UNI4883 Rubber Conduit



**TABLE I: ADAPTER PART NUMBERS, SHELL SIZE, THREAD AND DIMENSIONS**

Part Number	Shell size	A Thread	ØB ±0.1	ØQ ±0.2
IT 37267-10BR1712	10SL	0.6250 - 24UNEF	10.5	20.0
IT 37267-18BR2722	18	1.0000 - 20UNEF	20.5	30.0
IT 37267-20BR1712	20 - 22	1.1875 - 18UNEF	10.5	34.0
IT 37267-20BR2722	20 - 22	1.1875 - 18UNEF	20.5	34.0
IT 37267-20BR2833	20 - 22	1.1875 - 18UNEF	31.5	42.0
IT 37267-28BR2520	24 - 28	1.4375 - 18UNEF	16.5	45.0
IT 37267-28BR2722	24 - 28	1.4375 - 18UNEF	20.5	45.0
IT 37267-28BR3126	24 - 28	1.4375 - 18UNEF	22.5	45.0
IT 37267-28BR3328	24 - 28	1.4375 - 18UNEF	26.5	45.0
IT 37267-28BR3530	24 - 28	1.4375 - 18UNEF	26.5	45.0
IT 37267-28BR3833	24 - 28	1.4375 - 18UNEF	31.5	45.0
IT 37267-28BR5045	24 - 28	1.4375 - 18UNEF	43.5	52.0
IT 37267-32BR3126	32	1.7500 - 18UNS	24.5	53.0
IT 37267-32BR3328	32	1.7500 - 18UNS	26.5	53.0
IT 37267-32BR3833	32	1.7500 - 18UNS	31.5	53.0
IT 37267-32BR4035	32	1.7500 - 18UNS	31.5	53.0
IT 37267-32BR5045	32	1.7500 - 18UNS	40.0	53.0
IT 37267-36BR3530	36	2.0000 - 18UNS	26.5	57.4
IT 37267-36BR3833	36	2.0000 - 18UNS	31.5	57.4
IT 37267-36BR4035	36	2.0000 - 18UNS	31.5	57.4
IT 37267-36BR5045	36	2.0000 - 18UNS	43.5	57.4
IT 37267-40BR4136	40	2.2500 - 16UN	31.5	63.0
IT 37267-40BR4540	40	2.2500 - 16UN	38.5	63.0
IT 37267-40BR5045	40	2.2500 - 16UN	43.5	63.0
IT 37267-40BR5550	40	2.2500 - 16UN	48.5	63.0

**TABLE II**

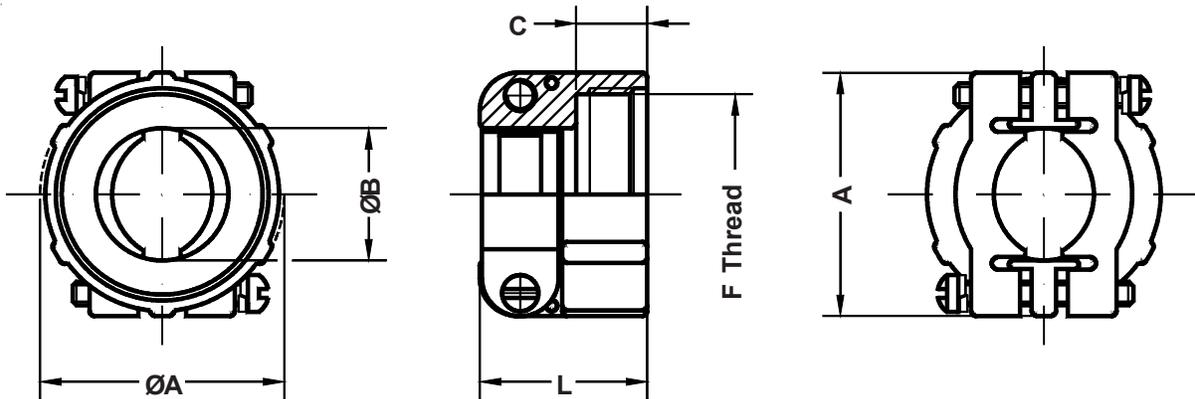
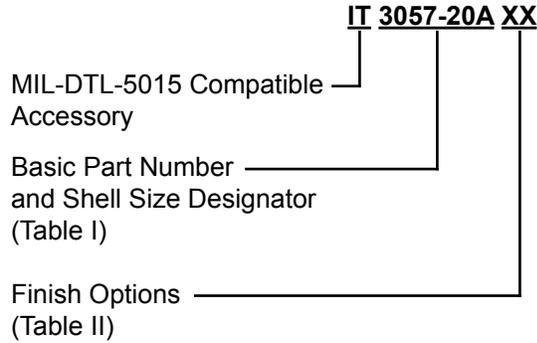
FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
	Omit for standard version (Cadmium Olive Drab Finish)



## IT 3057-XXA

### Cable Clamp, General Duty

for Jacketed or Multipolar Cable or Wires Protected by Tubing



D

#### Application Notes:

1. General duty cable clamp suitable for jacketed or multipolar cable or wires protected by tubing.
2. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
3. A broad range of other front and rear connector accessories are available.  
See our website and/or contact the factory for complete information.

**IT 3057-XXA**  
**Cable Clamp, General Duty**  
 for Jacketed or Multipolar Cable or Wires Protected by Tubing



**TABLE I: CABLE CLAMP PART NUMBERS SHELL SIZE, SLEEVING, DIMENSIONS & THREAD**

Part Number	Shell Size	Sleeve to Use	ØA	ØB	C	F Thread	L Max.
IT 3057- 4A	10 SL	IT 3420- 4	25	8.2	10.2	0.6250 - 24UNEF	21.0
IT 3057- 6A	14 S	IT 3420- 6	27	11.2	10.2	0.7500 - 20UNEF	22.2
IT 3057- 8A	16 S - 16	IT 3420- 8	28	14.2	10.2	0.8750 - 20UNEF	24.0
IT 3057-10A	18	IT 3420-10	33	16.0	10.2	1.0000 - 20UNEF	28.5
IT 3057-12A	20 - 22	IT 3420-12	35	19.0	10.2	1.1875 - 18UNEF	24.0
IT 3057-16A	24 - 28	IT 3420-16	43	23.8	10.5	1.4375 - 18UNEF	26.0
IT 3057-20A	32	IT 3420-20	51	31.7	12.5	1.7500 - 18UNS	28.0
IT 3057-24A	36	IT 3420-24	58	35.0	14.0	2.0000 - 18UNS	29.4
IT 3057-28A	40	IT 3420-28	65	41.2	14.0	2.2500 - 16UN	42.8

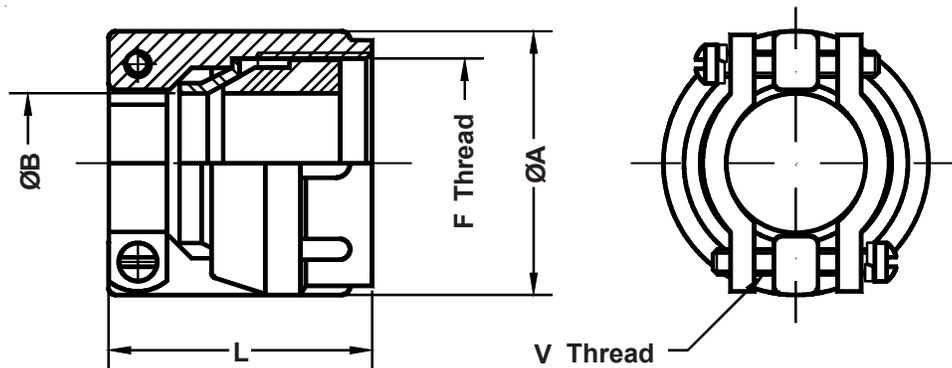
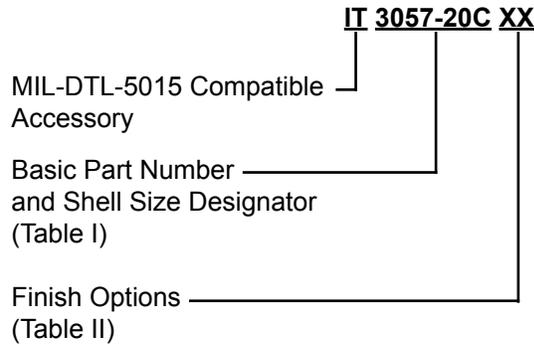
**TABLE II**

FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
	Omit for standard version (Cadmium Olive Drab Finish)



## IT 3057-XXC

### Waterproof Cable Clamp for Jacketed Cable or Wires Protected by Tubing



D

#### Application Notes:

1. Waterproof cable clamp suitable for jacketed cable or wires protected by tubing. Assures watertight integrity of connector.
2. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
3. A broad range of other front and rear connector accessories are available.  
See our website and/or contact the factory for complete information.

**IT 3057-XXC**  
**Waterproof Cable Clamp**  
for Jacketed Cable or Wires Protected by Tubing



**TABLE I: CABLE CLAMP PART NUMBERS, SHELL SIZE, SLEEVING, DIMENSIONS & THREAD**

Part Number	Shell Size	Sleeve to Use	ØA	ØB		F Thread	L	V Thread
				min.	Max.			
IT 3057- 4C	10 SL	IT 3420 - 4A	22.6	2.38	7.93	0.6250 - 24UNEF	32.3	6 - 32NC
IT 3057- 6C	14 S	IT 3420 - 4A / 6A	25.8	5.84	11.12	0.7500 - 20UNEF	32.3	6 - 32NC
IT 3057- 8C	16 S - 16	IT 3420 - 6A / 8A	28.1	8.00	13.48	0.8750 - 20UNEF	32.3	6 - 32NC
IT 3057-10C	18	IT 3420 - 6A / 10A	31.0	9.60	15.87	1.0000 - 20UNEF	35.3	6 - 32NC
IT 3057-12C	20 - 22	IT 3420 - 8A / 12A	37.3	11.30	19.00	1.1875 - 18UNEF	35.7	8 - 32NC
IT 3057-16C	24 - 28	IT 3420 - 8A / 12A / 16A	42.0	15.50	23.80	1.4375 - 18UNEF	38.5	8 - 32NC
IT 3057-20C	32	IT 3420 - 12A / 16A / 20A	54.0	23.40	31.75	1.7500 - 18UNS	44.8	250 - 20NC
IT 3057-24C	36	IT 3420 - 16A / 18A / 24A	57.1	23.40	35.00	2.0000 - 18UNS	51.6	250 - 20NC
IT 3057-28C	40	IT 3420 - 16A / 20A / 28A	63.5	29.90	41.25	2.2500 - 16UN	51.6	250 - 20NC

**TABLE II**

FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
	<b>Omit for standard version (Cadmium Olive Drab Finish)</b>

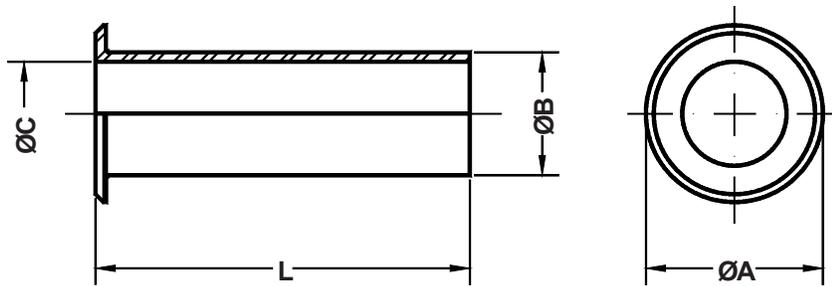


## IT 3420-XX (Class A) and IT 3420-XXA (Class C) Neoprene Sleeve for Protection & Reduction used with Class A or C Cable Clamps

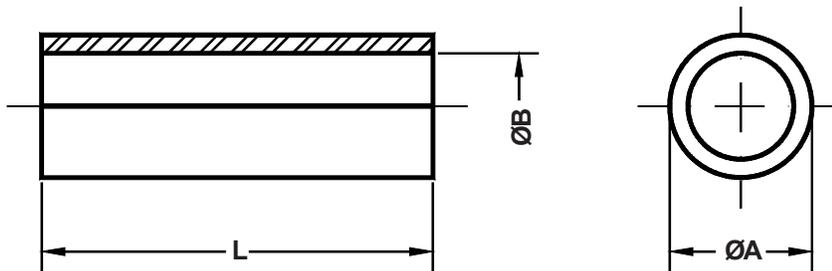
**IT 3420-XX**

MIL-DTL-5015 Compatible  
Accessory

Basic Part Number  
and Shell Size Designator  
(See Table I and Table II)



IT3420-XX Neoprene Sleeve used with Class A Cable Clamps



IT3420-XXA Neoprene Sleeve used with Class C Cable Clamps

D

### Application Notes:

1. IT3420-XX: Neoprene bushing for protection and reduction, used with class A cable clamps.
2. IT3420-XXA: Neoprene bushing for protection and reduction, used with class C cable clamps.
3. A broad range of other front and rear connector accessories are available.

See our website and/or contact the factory for complete information.

**IT 3420-XX (Class A) and IT 3420-XXA (Class C)  
Neoprene Sleeve for Protection & Reduction  
used with Class A or C Cable Clamps**



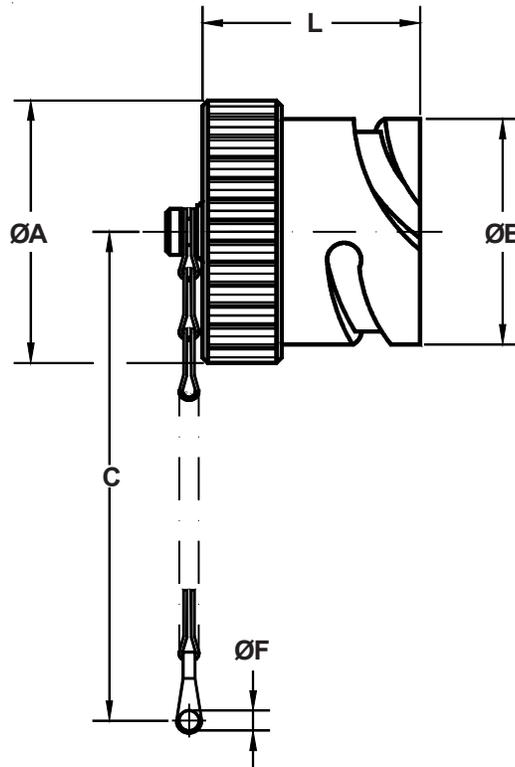
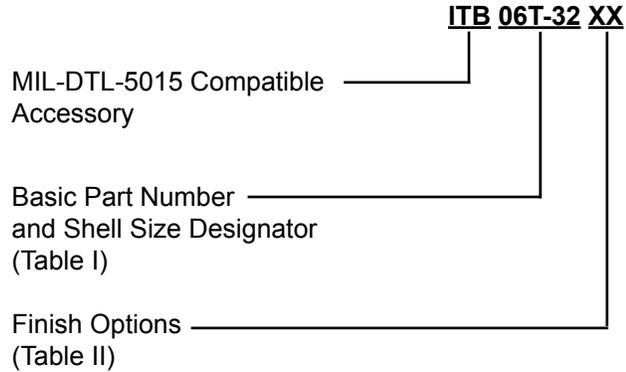
**TABLE I: IT3420-XX NEOPRENE SLEEVE PART NUMBERS & DIMENSIONS**

Part Number	∅A ±0.1	∅B ±0.1	∅C ±0.1	L ±0.1
IT 3420 - 4	12.8	7.67	5.58	69.8
IT 3420 - 6	15.7	10.84	7.92	66.8
IT 3420 - 8	18.8	14.02	11.09	63.5
IT 3420 - 10	22.0	15.62	14.27	60.3
IT 3420 - 12	27.0	18.79	15.87	57.1
IT 3420 - 16	33.3	23.54	19.05	53.9
IT 3420 - 20	40.5	31.49	23.79	50.8
IT 3420 - 24	46.9	34.67	31.75	47.6
IT 3420 - 28	52.9	40.99	34.92	44.4

**TABLE II: IT3420-XXA NEOPRENE PART NUMBERS & SLEEVE DIMENSIONS**

Part Number	∅A ±0.1	∅B ±0.1	L ±0.1
IT 3420 - 4A	7.63	5.56	50.5
IT 3420 - 6A	10.50	7.93	50.5
IT 3420 - 8A	13.50	11.10	50.5
IT 3420 - 10A	15.70	11.10	50.5
IT 3420 - 12A	18.50	13.74	50.9
IT 3420 - 16A	23.60	19.00	50.9
IT 3420 - 20A	31.10	23.80	50.2
IT 3420 - 24A	33.90	28.50	51.1
IT 3420 - 28A	40.60	31.80	50.2
IT 3420 - 29A	45.00	41.00	50.5

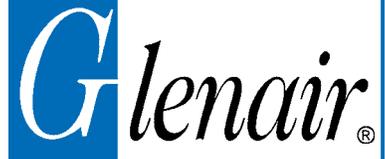
## ITB 06T-XX Plug Connector Cap with Stainless Steel Chain



### Application Notes:

1. Metal protective cover for bayonet plug connectors with stainless steel chain.
2. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
3. A broad range of other front and rear connector accessories are available.  
See our website and/or contact the factory for complete information.

**ITB 06T-XX**  
**Plug Connector Cap**  
**with Stainless Steel Chain**



**TABLE I: PLUG CONNECTOR CAP PART NUMBERS, CONNECTOR SIZE AND DIMENSIONS**

Part Number	Connector Size	ØA Max	ØB ±0.1	C min	ØF +0.2 -0	L Max
ITB 06T-10SL	10SL	22.7	18.2	108	4.3	24.0
ITB 06T-14	14S	30.0	24.6	123	4.3	24.0
ITB 06T-16	16S	32.5	27.4	123	4.3	24.0
ITB 06T-17	16	32.5	27.4	123	4.3	33.0
ITB 06T-18	18	36.4	30.8	123	4.3	33.0
ITB 06T-20	20	40.5	34.2	138	4.8	33.0
ITB 06T-22	22	43.5	37.4	138	4.8	33.0
ITB 06T-24	24	46.5	40.9	138	4.8	33.0
ITB 06T-28	28	54.0	46.7	206	4.8	33.0
ITB 06T-32	32	60.0	53.4	206	5.6	34.2
ITB 06T-36	36	66.2	59.6	206	5.6	34.2
ITB 06T-40	40	73.0	65.5	206	5.6	34.2

**TABLE II**

<b>FINISH OPTIONS</b>	
<b>Sym</b>	<b>Description and RoHS compliant (*)</b>
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
	<b>Omit for standard version (Cadmium Olive Drab Finish)</b>



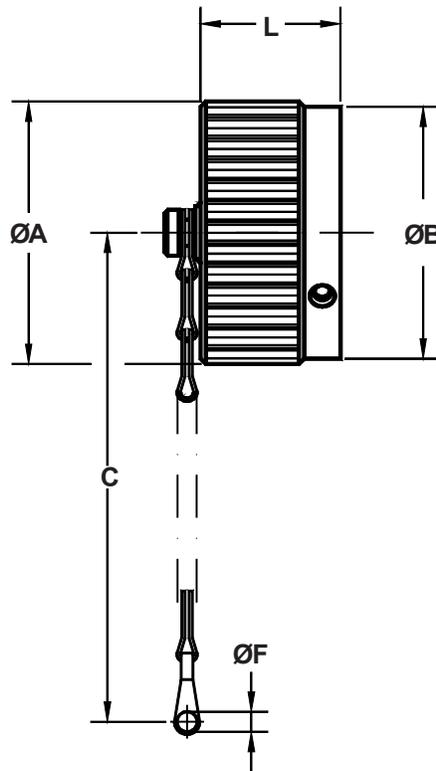
## ITB 02T-XX Receptacle Connector Cap with Stainless Steel Chain

**ITB 02T-32 XX**

MIL-DTL-5015 Compatible  
Accessory

Basic Part Number  
and Shell Size Designator  
(Table I)

Finish Options  
(Table II)



D

### Application Notes:

1. Metal protective cover for bayonet receptacle connectors with stainless steel chain.
2. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
3. A broad range of other front and rear connector accessories are available.  
See our website and/or contact the factory for complete information.

**ITB 02T-XX**  
**Receptacle Connector Cap**  
**with Stainless Steel Chain**



**TABLE I: RECEPTACLE CONNECTOR CAP PART NUMBERS, CONNECTOR SIZE AND DIMENSIONS**

Part Number	Connector Size	ØA Max	ØB ±0.1	C min	ØF +0.2 -0	L Max
ITB 02T-10SL	10SL	22.7	22.4	108	4.3	15.5
ITB 02T-14	14S	29.1	28.8	108	4.3	15.5
ITB 02T-16	16S	32.5	31.6	108	4.3	15.5
ITB 02T-17	16	32.5	31.6	123	4.3	21.2
ITB 02T-18	18	36.4	35.1	123	4.3	21.2
ITB 02T-20	20	39.8	38.5	123	4.3	21.2
ITB 02T-22	22	43.0	41.7	123	4.3	21.2
ITB 02T-24	24	46.5	45.2	123	4.3	21.2
ITB 02T-28	28	53.3	52.0	206	5.6	21.2
ITB 02T-32	32	60.0	58.7	206	5.6	21.2
ITB 02T-36	36	66.2	64.9	206	5.6	21.2
ITB 02T-40	40	72.3	71.3	206	5.6	21.2

**TABLE II**

FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
	Omit for standard version (Cadmium Olive Drab Finish)

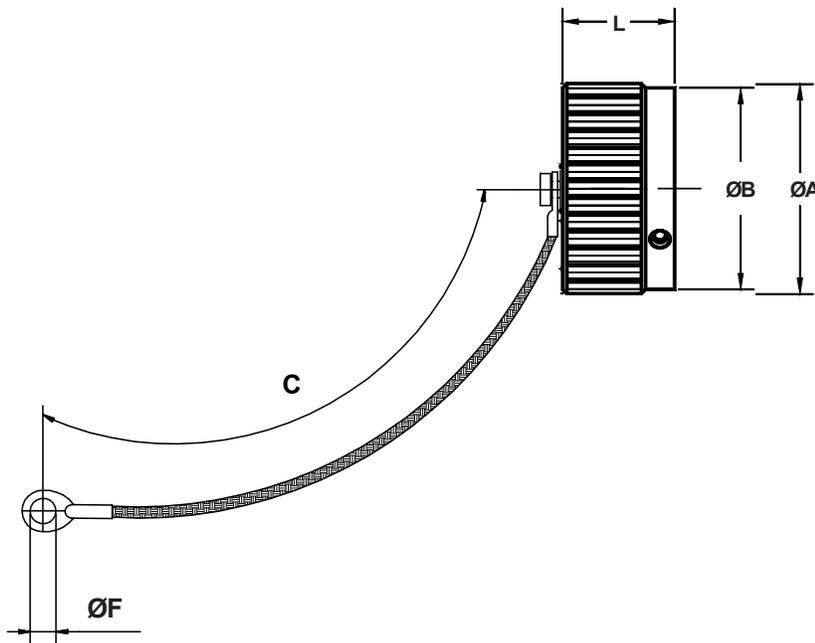
## ITB 02TF-XX Receptacle Connector Cap with Stainless Steel Wire Rope

**ITB 02TF-32 XX**

MIL-DTL-5015 Compatible  
Accessory

Basic Part Number  
and Shell Size Designator  
(Table I)

Finish Options  
(Table II)



D

### Application Notes:

1. Metal protective cover for bayonet receptacle connectors with stainless steel wire rope.
2. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
3. A broad range of other front and rear connector accessories are available.  
See our website and/or contact the factory for complete information.

**ITB 02TF-XX**  
**Receptacle Connector Cap**  
**with Stainless Steel Wire Rope**



**TABLE I: RECEPTACLE CONNECTOR CAP PART NUMBERS, CONNECTOR SIZE AND DIMENSIONS**

Part Number	Connector Size	ØA Max	ØB ±0.1	C min	ØF +0.2 -0	L Max
ITB 02TF-10SL	10SL	22.7	22.4	193	4.3	15.5
ITB 02TF -14	14S	29.1	28.8	193	4.3	15.5
ITB 02TF -16	16S	32.5	31.6	193	4.3	15.5
ITB 02TF -17	16	32.5	31.6	193	4.3	21.2
ITB 02TF -18	18	36.4	35.1	193	4.3	21.2
ITB 02TF -20	20	39.8	38.5	193	4.3	21.2
ITB 02TF -22	22	43.0	41.7	193	4.3	21.2
ITB 02TF -24	24	46.5	45.2	193	4.3	21.2
ITB 02TF -28	28	53.3	52.0	193	5.6	21.2
ITB 02TF -32	32	60.0	58.7	193	5.6	21.2
ITB 02TF -36	36	66.2	64.9	193	5.6	21.2
ITB 02TF -40	40	72.3	71.3	193	5.6	21.2

**TABLE II**

FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
	Omit for standard version (Cadmium Olive Drab Finish)



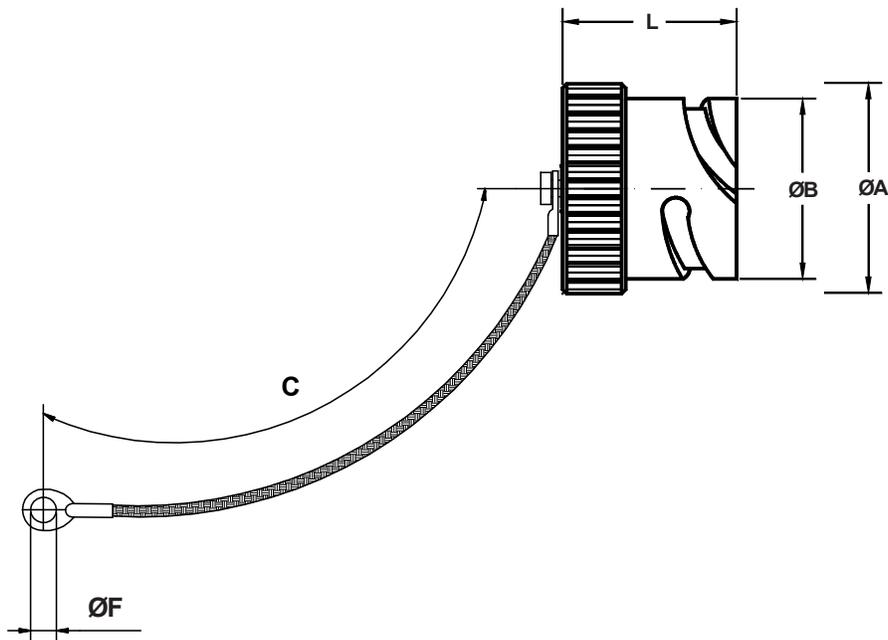
## ITB 06TF-XX Plug Connector Cap with Stainless Steel Wire Rope

**ITB 06TF-32 XX**

MIL-DTL-5015 Compatible  
Accessory

Basic Part Number  
and Shell Size Designator  
(Table I)

Finish Options  
(Table II)



D

### Application Notes:

1. Metal protective cover for bayonet plug connectors with stainless steel wire rope.
2. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
3. A broad range of other front and rear connector accessories are available.  
See our website and/or contact the factory for complete information.

**ITB 06TF-XX**  
**Plug Connector Cap**  
with Stainless Steel Wire Rope



**TABLE I: RECEPTACLE CONNECTOR CAP PART NUMBERS, CONNECTOR SIZE AND DIMENSIONS**

Part Number	Connector Size	ØA Max	ØB ±0.1	C min	ØF +0.2 -0	L Max
ITB 06TF-10SL	10SL	22.7	18.2	193	4.3	24.0
ITB 06TF -14	14S	30.0	24.6	193	4.3	24.0
ITB 06TF -16	16S	32.5	27.4	193	4.3	24.0
ITB 06TF -17	16	32.5	27.4	193	4.3	33.0
ITB 06TF -18	18	36.4	30.8	193	4.3	33.0
ITB 06TF -20	20	40.5	34.2	193	4.8	33.0
ITB 06TF -22	22	43.5	37.4	193	4.8	33.0
ITB 06TF -24	24	46.5	40.9	193	4.8	33.0
ITB 06TF -28	28	54.0	46.7	193	4.8	33.0
ITB 06TF -32	32	60.0	53.4	193	5.6	34.2
ITB 06TF -36	36	66.2	59.6	193	5.6	34.2
ITB 06TF -40	40	73.0	65.5	193	5.6	34.2

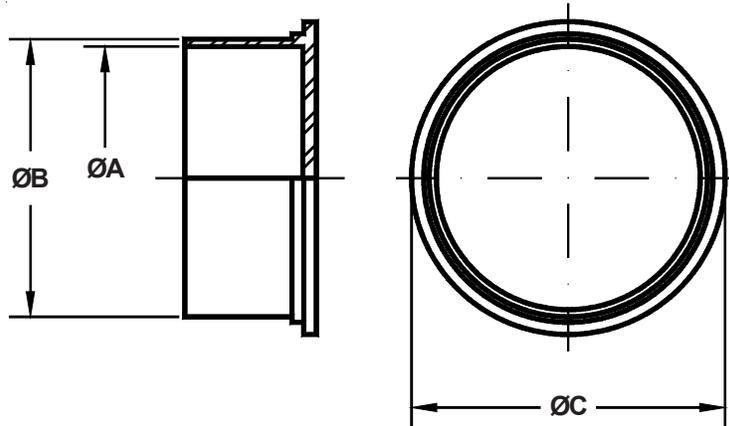
**TABLE II**

FINISH OPTIONS	
Sym	Description and RoHS compliant (*)
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
	Omit for standard version (Cadmium Olive Drab Finish)



**TABLE I: PLUG PLASTIC DUST CAP**  
**PART NUMBERS, SHELL SIZE AND DIMENSIONS**

Part Number	Shell Size	$\varnothing A$ $\pm 0.25$	$\varnothing B$ $\pm 0.25$	$\varnothing C$ $\pm 0.78$
IT 90376-10R	Plug 10SL	15.37	16.89	21.33
IT 90376-14R	Plug 14S	21.59	22.99	28.57
IT 90376-16R	Plug 16S - 16	23.80	26.29	30.99
IT 90376-18R	Plug 18	27.76	29.34	33.78
IT 90376-20R	Plug 20	31.28	33.04	37.21
IT 90376-22R	Plug 22	34.04	35.81	40.38
IT 90376-24R	Plug 24	37.16	38.94	43.18
IT 90376-28R	Plug 28	43.56	45.46	49.53
IT 90376-32R	Plug 32	49.91	51.82	56.39
IT 90376-36R	Plug 36	56.26	58.16	61.85
IT 90376-40R	Plug 40	61.98	64.26	67.56



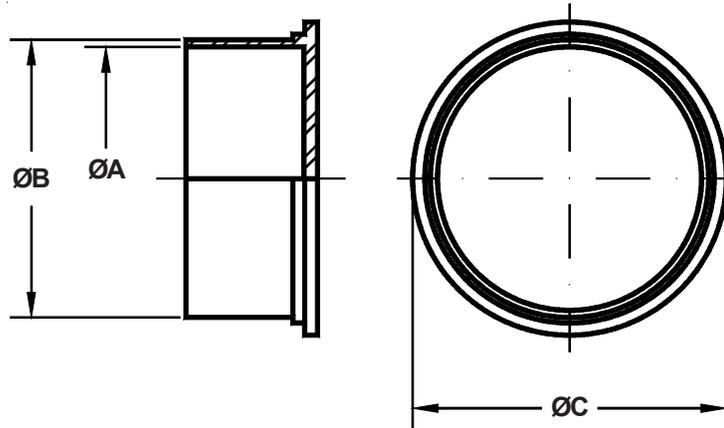
D

**Application Notes:**

1. Plastic cap for plug connectors for protection against dust and mechanical damage.

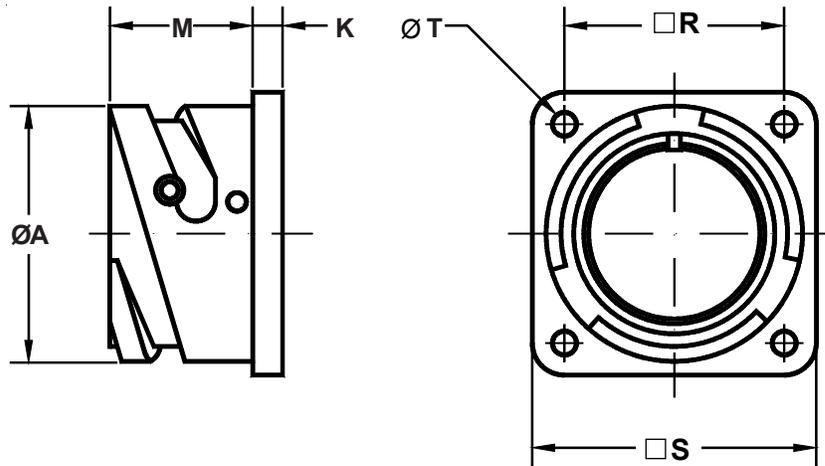
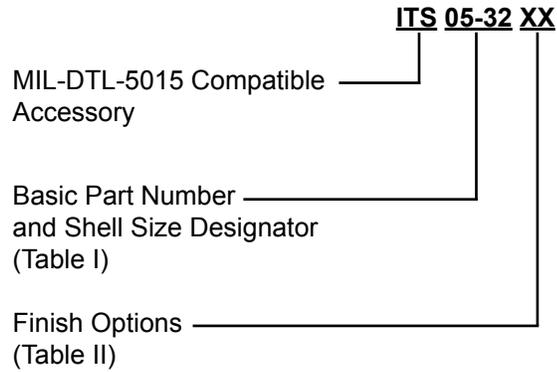
TABLE II: RECEPTACLE PLASTIC DUST CAP  
 PART NUMBERS, SHELL SIZE AND DIMENSIONS

Part Number	Shell size	ØA ±0.25	ØB ±0.25	ØC ±0.78
TP02-10SL	Receptacle 10SL	18.00	20.60	25.00
TP02-14S	Receptacle 14S	24.40	27.05	30.00
IT90376-18Y	Receptacle 16S - 16	26.11	27.63	31.75
TP02-18	Receptacle 18	30.40	33.15	37.00
IT90376-22R	Receptacle 20	34.04	35.81	40.38
IT90376-24R	Receptacle 22	37.16	38.94	43.18
TP02-24	Receptacle 24	40.65	43.20	47.00
TP02-28	Receptacle 28	46.45	49.05	52.00
TP02-32	Receptacle 32	53.15	55.75	60.00
TP02-36	Receptacle 36	59.35	61.95	66.00
TP02-40	Receptacle 40	65.25	67.85	72.00



**Application Notes:**

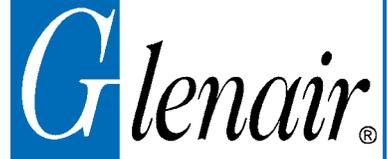
1. Plastic cap for receptacle connectors for protection against dust and mechanical damage.



### Application Notes:

1. Dummy receptacle stowage fitting protects the plug connector when not in use.
2. Standard materials configuration consists of aluminum alloy. For platings, see TABLE II finish options.
3. A broad range of other front and rear connector accessories are available.  
See our website and/or contact the factory for complete information.

**ITS 05-XX  
Dummy Plug Stowage Receptacle**



**TABLE I: DUMMY PLUG RECEPTACLE SHELL SIZE & DIMENSIONS**

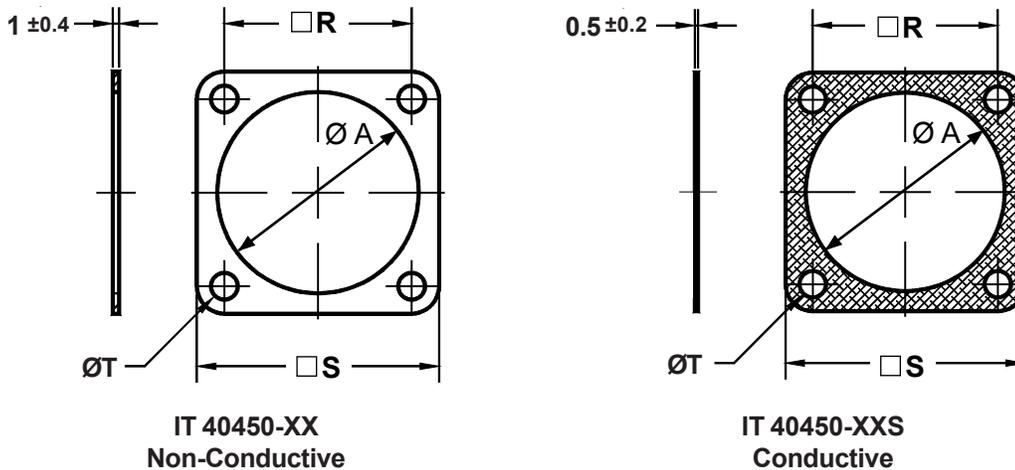
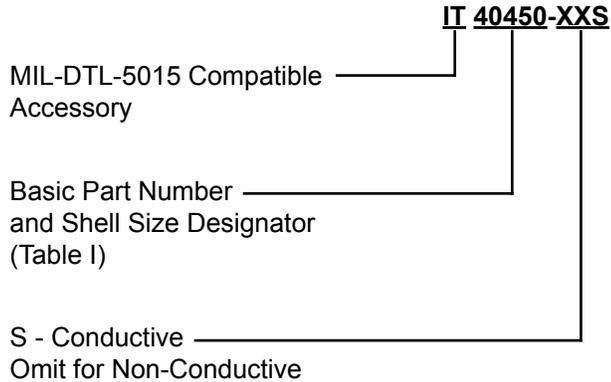
Shell Size	ØA +0 -0.1	K ±0.2	M +0.2 -0	R ±0.1	S +0.2	ØT +0.1 -0
<b>10 SL</b>	18.2	2.8	14.3	18.25	25.4	3.2
<b>14 S</b>	24.5	3.3	14.5	23.00	30.4	3.2
<b>16 S</b>	27.2	3.3	14.5	24.60	32.5	3.2
<b>16</b>	27.2	3.3	19.1	24.60	32.5	3.2
<b>18</b>	30.7	4.0	19.1	27.00	35.0	3.2
<b>20</b>	34.0	4.0	19.1	29.40	38.0	3.2
<b>22</b>	37.3	4.0	19.6	31.75	41.0	3.2
<b>24</b>	40.9	4.0	20.6	34.90	44.5	3.7
<b>28</b>	46.7	4.0	20.7	39.70	50.9	3.7
<b>32</b>	53.4	4.0	22.3	44.45	57.0	4.3
<b>36</b>	59.6	4.0	22.3	49.20	63.5	4.3
<b>40</b>	65.5	4.0	22.3	55.55	69.9	4.3

**TABLE II**

<b>FINISH OPTIONS</b>	
<b>Sym</b>	<b>Description and RoHS compliant (*)</b>
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
	<b>Omit for standard version (Cadmium Olive Drab Finish)</b>



## IT 40450-XX and IT 40450-XX (S) Connector Mounting Gaskets for Front-Mounted Square Flange Receptacle



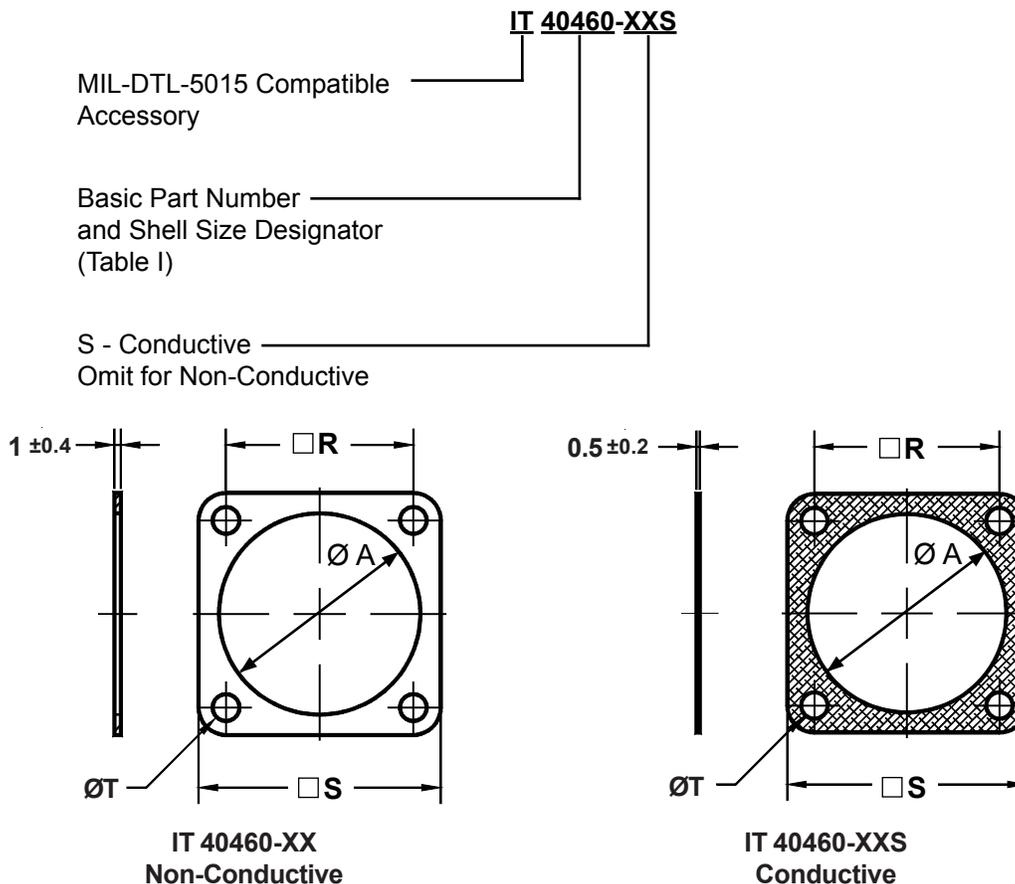
**TABLE I: CONDUCTIVE & NON-CONDUCTIVE FIXED CONNECTOR GASKETS  
PART NUMBERS, SHELL SIZE & DIMENSIONS**

Part Number	Shell Size	ØA +1	R ±0.2	S ±0.5	ØT +0.5
IT 40450 - 10	10SL	15.7	18.2	25.4	4.2
IT 40450 - 14	14S	22.1	23.0	30.0	4.2
IT 40450 - 16	16S - 16	25.3	24.6	32.5	4.2
IT 40450 - 18	18	28.4	27.0	35.0	4.2
IT 40450 - 20	20	31.6	29.4	38.0	4.2
IT 40450 - 22	22	34.8	31.8	41.0	4.2
IT 40450 - 24	24	38.0	34.9	44.5	4.2
IT 40450 - 28	28	44.3	39.7	50.8	5.1
IT 40450 - 32	32	50.7	44.5	57.0	5.1
IT 40450 - 36	36	57.0	49.2	63.5	5.1
IT 40450 - 40	40	61.9	55.5	69.9	5.1

### Application Notes:

1. Conductive and non-conductive gasket for front-mount square flange receptacles.
2. A broad range of other front and rear connector accessories are available.  
See our website and/or contact the factory for complete information.

# IT 40460-XX and IT 40460-XX (S) Connector Mounting Gasket for Rear-Mounted Square Flange Receptacle



**TABLE I: CONDUCTIVE & NON-CONDUCTIVE FIXED CONNECTOR GASKETS  
PART NUMBERS, SHELL SIZE & DIMENSIONS**

Part Number	Shell Size	ØA +0.3	R ±0.2	S ±0.5	ØT +0.5
IT 40460 - 10	10SL	18.2	18.2	25.4	4.2
IT 40460 - 14	14S	24.6	23.0	30.0	4.2
IT 40460 - 16	16S - 16	27.4	24.6	32.5	4.2
IT 40460 - 18	18	30.8	27.0	35.0	4.2
IT 40460 - 20	20	34.2	29.4	38.0	4.2
IT 40460 - 22	22	37.4	31.8	41.0	4.2
IT 40460 - 24	24	40.9	34.9	44.5	4.2
IT 40460 - 28	28	46.7	39.7	50.8	5.1
IT 40460 - 32	32	53.4	44.5	57.0	5.1
IT 40460 - 36	36	59.6	49.2	63.5	5.1
IT 40460 - 40	40	65.5	55.5	69.9	5.1

**Application Notes:**

1. Conductive and non-conductive gasket for front-mount square flange receptacles.
2. A broad range of other front and rear connector accessories are available.  
See our website and/or contact the factory for complete information.



# HIGH SPEED DATA TRANSMISSION

**USB, RJ45 and Quadrax Interconnects in Sealed,  
Ruggedized M5015 and M26482 Type Packaging**



**G**lenair has bridged the gap between high performance data transmission systems and rugged field-ready circular connectors by integrating the two into a single, refined package. Users no longer have to worry about damaging delicate high bandwidth connections in harsh conditions. The MIL-DTL-5015 type connector shells provide impact resistance, ingress protection and positive coupling—all in a wide array of shell styles and finishes.





#### PRODUCT FEATURES

- Complete Assortment of Assembly Tools and Accessories
- Wire Sealing Plugs and Grommets
- Precision Machined Pin and Socket Crimp Contacts: Silver (Standard) and Gold
- Optional Coaxial Contacts
- Industry Standard Contact Insertion and Removal Tools
- Manual and Pneumatic Crimp Tools, Locators Dies and Turrets for All Contact and Wire Gauges

## Complete Convenience in MIL-DTL-5015 Type Connector Assembly: Every Contact, Tool and Accessory for the Job—No Gaps

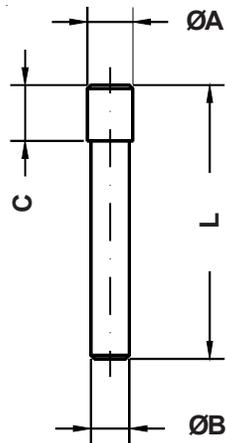
### One-Stop-Shopping

Glenair is pleased to offer our ruggedized power and signal connector customers complete convenience in assembly tool procurement for our Series ITS and other MIL-DTL-5015 type products. We selected the best available assembly tools and equipment for the job, including manual and pneumatic crimp tools, durable contact insertion and removal tools and all the smaller tools and accessories required for efficient assembly and termination of these crimp-contact environmental connectors.

Please note: Glenair Series ITS Connectors are supplied standard with silver plated contacts. For gold contacts or other product modifications, please contact the factory.

**TABLE I: WIRE HOLE PLUG FOR CONTACT INSERTS**  
**PART NUMBERS, CONTACT SIZES, DIMENSIONS & COLOR**

Part Number	Contact Size	ØA	ØB	C	L	Color
10 - 305045 - 16	16S - 16	2.6	2.2	3.2	15.7	Blue
10 - 101033 - 13	12	4.6	3.7	3.2	11.9	Giallo / Yellow
10 - 305045 - 8	8	7.6	6.4	3.1	11.8	White
10 - 305045 - 4	4	10.9	9.7	3.1	11.8	Green
10 - 305045 - 0	0	15.0	13.5	4.3	14.3	Black
10 - 305045 - 01	0M	16.0	14.5	4.3	14.5	Black



**10-305045-XX**

**Application Notes:**

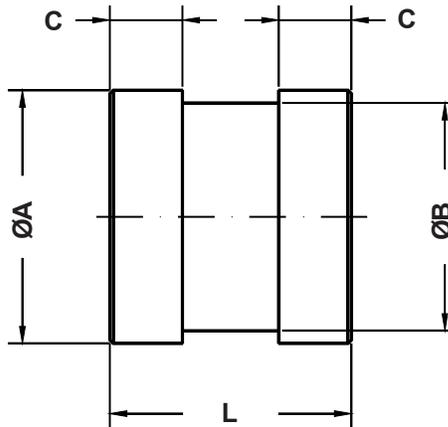
1. Wire hole plug for contact inserts.

**IT-101033-XX**  
**Wire Hole Plug**  
 for Wire Sealing Grommets



**TABLE I: WIRE HOLE PLUG FOR CONTACT INSERTS**  
**PART NUMBERS, CONTACT SIZES, DIMENSIONS & COLOR**

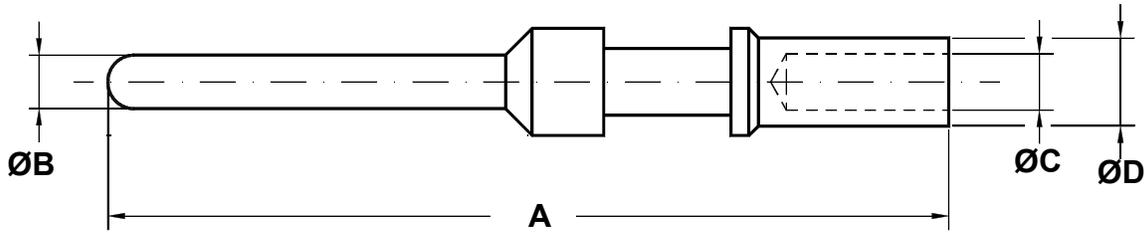
<i>Commital P/N</i>	<i>Contact size</i>	$\varnothing A$	$\varnothing B$	C	L	<i>Color</i>
<b>10 - 101033 - 12</b>	16S - 16	3.7	2.8	3.2	11.9	Blu / Blue
<b>10 - 101033 - 13</b>	12	4.6	3.7	3.2	11.9	Giallo / Yellow
<b>10 - 101033 - 14</b>	8	5.8	5.0	3.2	11.9	Bianco / White
<b>10 - 101033 - 15</b>	4	8.5	7.6	3.2	11.9	Verde / Green
<b>10 - 101033 - 16</b>	0	13.5	12.8	3.2	11.9	Nero / Black



IT-101033-XX

**Application Notes:**

1. Wire hole plug for wire sealing grommets.



**TABLE I: PIN CRIMP CONTACT PART NUMBERS, SIZE & DIMENSIONS**

PART NUMBER	CONTACT SIZE	A		ØB		ØC		ØD		WIRE SIZE		OVERALL OUTSIDE DIAMETER	
		mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm <sup>2</sup>	AWG	mm	Inches
10-375-20	20	24,30	0,957	1,00	0,039	1,30	0,051	1,93	0,076	0,15-0,6	26-20	2,0	0,079
10-40579	18	29,60	1,165	1,40	0,055	1,30	0,051	1,93	0,076	0,15-0,6	26-20	2,2	0,087
10-40553	16S	26,60	1,047	1,58	0,062	1,70	0,067	2,60	0,102	1-1,5	18-16	3,2	0,126
10-40553-12	16S	26,60	1,047	1,58	0,062	1,19	0,047	2,59	0,102	0,6	20	3,2	0,126
10-40553-13	16S	26,60	1,047	1,58	0,062	1,30	0,051	1,93	0,076	0,15-0,6	26-20	3,2	0,126
10-40553-15	16S	26,60	1,047	1,58	0,062	1,50	0,059	2,60	0,102	0,75-1,0	18	3,2	0,126
10-40553-20	16S	26,60	1,047	1,58	0,062	2,00	0,079	2,90	0,114	1-2	14	3,2	0,126
10-40553-26	16S	26,60	1,047	1,58	0,062	2,50	0,098	3,80	0,150	3	12	3,8	0,150
10-40557	16	31,75	1,250	1,58	0,062	1,70	0,067	2,60	0,102	1-1,5	18-16	3,2	0,126
10-40557-08	16	31,75	1,250	1,58	0,062	0,85	0,033	1,55	0,061	0,15-0,2	26-24	3,2	0,126
10-40557-12	16	31,75	1,250	1,58	0,062	1,20	0,047	2,60	0,102	0,6	20	3,2	0,126
10-40557-13	16	31,75	1,250	1,58	0,062	1,30	0,051	1,93	0,076	0,15-0,6	26-20	3,2	0,126
10-40557-15	16	31,75	1,250	1,58	0,062	1,50	0,059	2,60	0,102	0,75-1,0	18	3,2	0,126
10-40557-20	16	31,75	1,250	1,58	0,062	2,00	0,079	2,90	0,114	1-2	14	3,2	0,126
10-40557-26	16	31,75	1,250	1,58	0,062	2,50	0,098	3,80	0,150	3	12	3,8	0,150
10-40557-32	16	31,75	1,250	1,58	0,062	0,45	0,018	1,95	0,077	/	32-28	3,2	0,126
10-40561	12	37,65	1,482	2,38	0,094	2,50	0,098	3,90	0,154	2,5-3,5	12	4,8	0,189
10-40561-12	12	37,65	1,482	2,38	0,094	1,20	0,047	2,60	0,102	0,6	20	4,8	0,189
10-40561-15	12	37,65	1,482	2,38	0,094	1,50	0,059	3,40	0,134	0,75-1,0	18	4,8	0,189
10-40561-20	12	37,65	1,482	2,38	0,094	2,00	0,079	3,90	0,154	1-2	18-14	4,8	0,189
10-40561-22	12	37,65	1,482	2,38	0,094	2,10	0,083	3,90	0,154	2,5	/	4,8	0,189
10-40561-30	12	37,65	1,482	2,38	0,094	3,00	0,118	4,80	0,189	4-5	/	4,8	0,189
10-40561-30M	12	37,65	1,482	2,38	0,094	3,30	0,130	4,20	0,165	4	/	4,8	0,189
10-40561-38	12	37,65	1,482	2,38	0,094	3,60	0,142	4,80	0,189	6	10	4,8	0,189
10-40561-50	12	37,65	1,482	2,38	0,094	5,00	0,197	6,90	0,272	10	/	6,9	0,272
10-40561-58	12	37,65	1,482	2,38	0,094	5,80	0,228	7,80	0,307	13,2	6	7,8	0,307
10-40792	8	40,70	1,602	3,60	0,142	4,50	0,177	6,90	0,272	9	8	7,8	0,307
10-40792-15	8	40,70	1,602	3,60	0,142	1,50	0,059	3,40	0,134	0,75-1,0	18	7,8	0,307

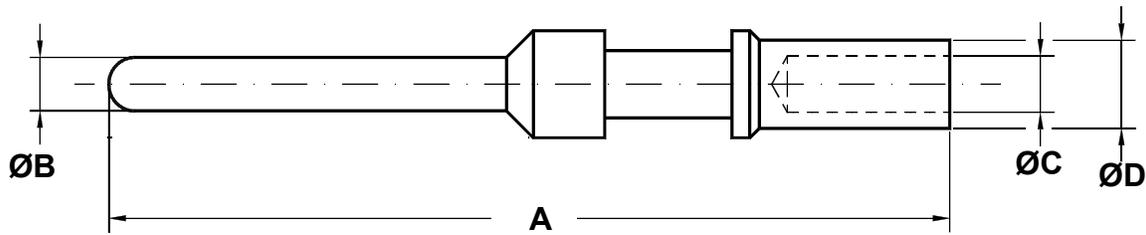
Please consult our sales department for other contacts or crimp tooling details.

**PLATING OPTIONS**

**G10 : Silver (Standard)**

**G117 : Gold**

# ITS Bayonet Connector Assemblies Pin Crimp Contacts



**TABLE I: PIN CRIMP CONTACT PART NUMBERS, SIZE & DIMENSIONS**

PART NUMBER	CONTACT SIZE	A		ØB		ØC		ØD		WIRE SIZE		OVERALL OUTSIDE DIAMETER	
		mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm <sup>2</sup>	AWG	mm	Inches
10-40792-18	8	40,70	1,602	3,60	0,142	1,80	0,071	3,80	0,150	1-2	18-14	7,8	0,307
10-40792-20	8	40,70	1,602	3,60	0,142	2,00	0,079	3,80	0,150	2	14	7,8	0,307
10-40792-26	8	40,70	1,602	3,60	0,142	2,5	0,098	3,8	0,150	3	12-14	7,8	0,307
10-40792-30	8	40,70	1,602	3,60	0,142	3,00	0,118	4,80	0,189	4-5	/	7,8	0,307
10-40792-38	8	40,70	1,602	3,60	0,142	3,60	0,142	6,80	0,268	6	10	7,8	0,307
10-40792-50	8	40,70	1,602	3,60	0,142	5,00	0,197	6,90	0,272	10	/	7,8	0,307
10-40792-58	8	40,70	1,602	3,60	0,142	5,80	0,228	7,80	0,307	13,2	6	7,8	0,307
10-113474-4P	4	42,00	1,654	5,70	0,224	7,10	0,280	9,53	0,375	22	4	11,0	0,433
10-113474-4P-22	4	42,00	1,654	5,70	0,224	2,20	0,087	3,80	0,150	2,5	/	11,0	0,433
10-113474-4P-25	4	42,00	1,654	5,70	0,224	7,80	0,307	9,50	0,374	25	/	11,0	0,433
10-113474-4P-26	4	42,00	1,654	5,70	0,224	2,50	0,098	3,80	0,150	3	/	11,0	0,433
10-113474-4P-30	4	42,00	1,654	5,70	0,224	3,00	0,118	4,80	0,189	4-5	/	11,0	0,433
10-113474-4P-38	4	42,00	1,654	5,70	0,224	3,60	0,142	6,80	0,268	6	10	11,0	0,433
10-113474-4P-50	4	42,00	1,654	5,70	0,224	5,00	0,197	7,00	0,276	10	/	11,0	0,433
10-113474-4P-62	4	42,00	1,654	5,70	0,224	6,20	0,244	9,53	0,375	16	/	11,0	0,433
10-113474-1P	0	45,00	1,772	9,05	0,356	11,50	0,453	14,30	0,563	50-60	0	15,1	0,594
10-113474-1P-107	0	45,00	1,772	9,05	0,356	10,70	0,421	14,35	0,565	50	/	15,1	0,594
10-113474-1P-25	0	45,00	1,772	9,05	0,356	7,80	0,307	9,50	0,374	25	/	15,1	0,594
10-113474-1P-35	0	45,00	1,772	9,05	0,356	9,00	0,354	14,35	0,565	35	/	15,1	0,594
10-113474-1P-45	0	45,00	1,772	9,05	0,356	4,55	0,179	6,80	0,268	9	8	15,1	0,594
10-113474-1P-50	0	45,00	1,772	9,05	0,356	5,00	0,197	7,00	0,276	10	/	15,1	0,594
10-113474-1P-62	0	45,00	1,772	9,05	0,356	6,20	0,244	9,50	0,374	16	/	15,1	0,594
10-113474-0P	4/0	63,00	2,480	12,69	0,500	16,5	0,650	20	0,787	107	4/0	20,0	0,787
10-113474-0P-78	4/0	63,00	2,480	12,69	0,500	7,8	0,307	9,5	0,374	25	/	20,0	0,787
10-113474-0P-107	4/0	63,00	2,480	12,69	0,500	16,5	0,650	20	0,787	50	/	20,0	0,787
10-113474-0P-135	4/0	63,00	2,480	12,69	0,500	13,5	0,531	16,5	0,650	67,4	2/0	20,0	0,787
10-113474-0P-144	4/0	63,00	2,480	12,69	0,500	14,5	0,571	20	0,787	70	/	20,0	0,787

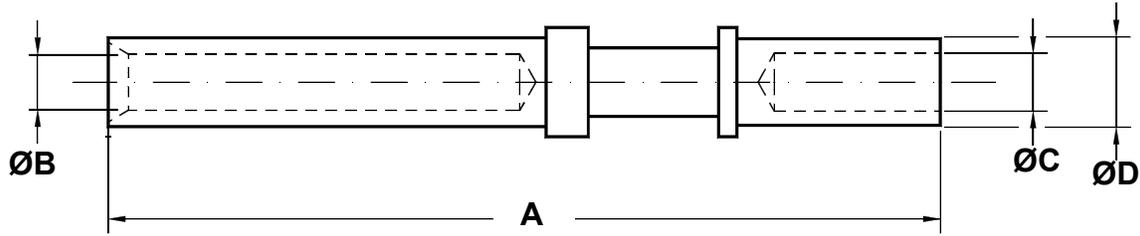
Please consult our sales department for other contacts or crimp tooling details.

**PLATING OPTIONS**

**G10 : Silver (Standard)**

**G117 : Gold**





**TABLE I: SOCKET CRIMP CONTACT PART NUMBERS, SIZE & DIMENSIONS**

PART NUMBER	CONTACT SIZE	A		ØB		ØC		ØD		WIRE SIZE		OVERALL OUTSIDE DIAMETER	
		mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm <sup>2</sup>	AWG	mm	Inches
10-40520LC	20	36,5	1,437	1,08	0,043	1,3	0,051	1,93	0,076	0,15-0,6	26-20	2,0	0,079
10-40588	18	34,4	1,354	1,46	0,057	1,3	0,051	1,93	0,076	0,15-0,6	26-20	2,2	0,087
10-40552	16S	26,6	1,047	1,65	0,065	1,7	0,067	2,60	0,102	1-1,5	18-16	3,2	0,126
10-40552 TU	16S	26,6	1,047	1,65	0,065	1,7	0,067	2,60	0,102	1-1,5	18-16	3,2	0,126
10-40552-12	16S	26,6	1,047	1,65	0,065	1,2	0,047	2,60	0,102	0,6	20	3,2	0,126
10-40552-13	16S	26,6	1,047	1,65	0,065	1,3	0,051	1,93	0,076	0,15-0,6	26-20	3,2	0,126
10-40552-15	16S	26,6	1,047	1,65	0,065	1,5	0,059	2,60	0,102	0,75-1	18	3,2	0,126
10-40552-20	16S	26,6	1,047	1,65	0,065	2,0	0,079	2,90	0,114	1-2	14	3,2	0,126
10-40552-26	16S	26,6	1,047	1,65	0,065	2,5	0,098	3,80	0,150	3	12	3,8	0,150
10-40556	16	36,5	1,437	1,65	0,065	1,7	0,067	2,60	0,102	1-1,5	18-16	3,2	0,126
10-40556 TU	16	36,5	1,437	1,65	0,065	1,7	0,067	2,60	0,102	1-1,5	18-16	3,2	0,126
10-40556-08	16	36,5	1,437	1,65	0,065	0,85	0,033	1,55	0,061	0,15-0,2	26-24	3,2	0,126
10-40556-12	16	36,5	1,437	1,65	0,065	1,2	0,047	2,60	0,102	0,6	20	3,2	0,126
10-40556-13	16	36,5	1,437	1,65	0,065	1,35	0,053	1,93	0,076	0,15-0,6	26-20	3,2	0,126
10-40556-15	16	36,5	1,437	1,65	0,065	1,45	0,057	2,60	0,102	0,75-1	18	3,2	0,126
10-40556-20	16	36,5	1,437	1,65	0,065	2,0	0,079	2,90	0,114	1-2	14	3,2	0,126
10-40556-26	16	36,5	1,437	1,65	0,065	2,5	0,098	3,80	0,150	3	12	3,8	0,150
10-40556-32	16	36,5	1,437	1,65	0,065	0,45	0,018	1,95	0,077	/	32-28	3,2	0,126
10-40560	12	37,65	1,482	2,48	0,098	2,5	0,098	3,9	0,154	2,5-3,0	12	4,8	0,189
10-40560 TU	12	37,65	1,482	2,48	0,098	2,5	0,098	3,9	0,154	2,5-3,0	12	4,8	0,189
10-40560-12	12	37,65	1,482	2,48	0,098	1,2	0,047	2,6	0,102	0,6	20	4,8	0,189
10-40560-15	12	37,65	1,482	2,48	0,098	1,45	0,057	3,4	0,134	0,75-1	18	4,8	0,189
10-40560-20	12	37,65	1,482	2,48	0,098	2,0	0,079	3,8	0,150	1 - 2	18-14	4,8	0,189
10-40560-22	12	37,65	1,482	2,48	0,098	2,1	0,083	3,8	0,150	2,5	/	4,8	0,189
10-40560-30	12	37,65	1,482	2,38	0,094	3,00	0,118	4,80	0,189	4-5	/	4,8	0,189
10-40560-30M	12	37,65	1,482	2,38	0,094	3,30	0,130	4,20	0,165	4	/	4,8	0,189
10-40560-38	12	37,65	1,482	2,38	0,094	3,60	0,142	4,80	0,189	6	10	4,8	0,189
10-40560-50	12	37,65	1,482	2,38	0,094	5,00	0,197	6,90	0,272	10	/	6,9	0,272
10-40560-58	12	37,65	1,482	2,38	0,094	5,80	0,228	7,80	0,307	13,2	6	7,8	0,307

Please consult our sales department for other contacts or crimp tooling details.

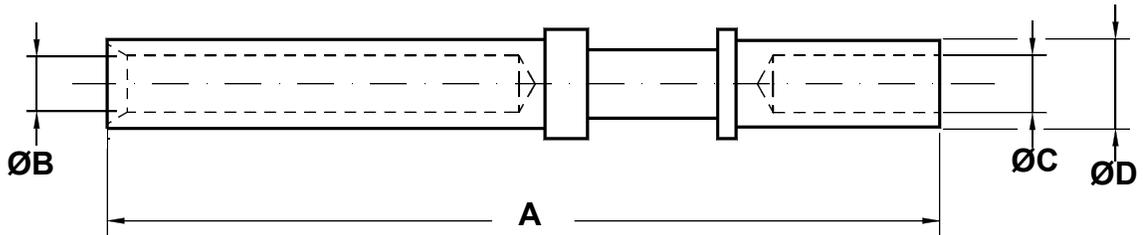
**PLATING OPTIONS**

**G10 : Silver (Standard)**

**G117 : Gold**

**Note : Guide Pins are suggested for use with Socket sizes 12, 16, 18, 20**

# ITS Bayonet Connector Assemblies Socket Crimp Contacts



**TABLE I: SOCKET CRIMP CONTACT PART NUMBERS, SIZE & DIMENSIONS**

PART NUMBER	CONTACT SIZE	A		ØB		ØC		ØD		WIRE SIZE		OVERALL OUTSIDE DIAMETER	
		mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm <sup>2</sup>	AWG	mm	Inches
10-40793-1	8	40,5	1,594	3,70	0,146	4,5	0,177	6,75	0,266	9	8	7,8	0,307
10-40793-1-15	8	40,5	1,594	3,70	0,146	1,45	0,057	3,4	0,134	0,75-1	18	7,8	0,307
10-40793-1-18	8	40,5	1,594	3,70	0,146	1,8	0,071	3,8	0,150	1-2	18-14	7,8	0,307
10-40793-1-20	8	40,5	1,594	3,60	0,142	2,00	0,079	3,80	0,150	2	14	7,8	0,307
10-40793-1-26	8	40,5	1,594	3,70	0,146	2,5	0,098	3,8	0,150	3	12	7,8	0,307
10-40793-1-30	8	40,5	1,594	3,70	0,146	3,0	0,118	4,8	0,189	4-5	/	7,8	0,307
10-40793-1-38	8	40,5	1,594	3,70	0,146	3,6	0,142	6,8	0,268	6	10	7,8	0,307
10-40793-1-50	8	40,5	1,594	3,70	0,146	5,0	0,197	6,9	0,272	10	/	7,8	0,307
10-40793-1-58	8	40,5	1,594	3,70	0,146	5,5	0,217	7,8	0,307	13,2	6	7,8	0,307
10-113474-4S-1	4	41,0	1,614	5,80	0,228	7,1	0,280	9,53	0,375	22	4	11,0	0,433
10-113474-4S-1-22	4	41,0	1,614	5,80	0,228	2,2	0,087	3,8	0,150	2,5	/	11,0	0,433
10-113474-4S-1-25	4	41,0	1,614	5,80	0,228	7,80	0,307	9,50	0,374	25	/	11,0	0,433
10-113474-4S-1-26	4	41,0	1,614	5,80	0,228	2,5	0,098	3,8	0,150	3	/	11,0	0,433
10-113474-4S-1-30	4	41,0	1,614	5,80	0,228	3,0	0,118	4,8	0,189	4-5	/	11,0	0,433
10-113474-4S-1-38	4	41,0	1,614	5,80	0,228	3,6	0,142	6,8	0,268	6	10	11,0	0,433
10-113474-4S-1-50	4	41,0	1,614	5,80	0,228	5,0	0,197	7,0	0,276	10	/	11,0	0,433
10-113474-4S-1-62	4	41,0	1,614	5,80	0,228	6,2	0,244	9,5	0,374	16	/	11,0	0,433
10-113474-1S	0	44,6	1,756	9,17	0,361	11,5	0,453	14,3	0,563	50-60	0	15,1	0,594
10-113474-1S-107	0	44,6	1,756	9,17	0,361	10,7	0,421	14,35	0,565	50	/	15,1	0,594
10-113474-1S-25	0	44,6	1,756	9,17	0,361	7,8	0,307	9,5	0,374	25	/	15,1	0,594
10-113474-1S-35	0	44,6	1,756	9,17	0,361	9,0	0,354	14,35	0,565	35	/	15,1	0,594
10-113474-1S-45	0	44,6	1,756	9,17	0,361	4,55	0,179	6,8	0,268	9	8	15,1	0,594
10-113474-1S-50	0	44,6	1,756	9,17	0,361	5,0	0,197	7,0	0,276	10	/	15,1	0,594
10-113474-1S-62	0	45,3	1,783	9,17	0,361	6,2	0,244	9,5	0,374	16	/	15,1	0,594
10-113474-0S	4/0	65,9	2,594	12,7	0,500	16,5	0,650	20,0	0,787	107	4/0	20,0	0,787
10-113474-0S-78	4/0	65,9	2,594	12,7	0,500	7,8	0,307	9,5	0,374	25	/	20,0	0,787
10-113474-0S-107	4/0	65,9	2,594	12,7	0,500	16,5	0,650	20	0,787	50	/	20,0	0,787
10-113474-0S-135	4/0	65,9	2,594	12,7	0,500	13,5	0,531	16,5	0,650	67,4	2/0	20,0	0,787
10-113474-0S-144	4/0	65,9	2,594	12,7	0,500	14,5	0,571	20	0,787	70	/	20,0	0,787

Please consult our sales department for other contacts or crimp tooling details.

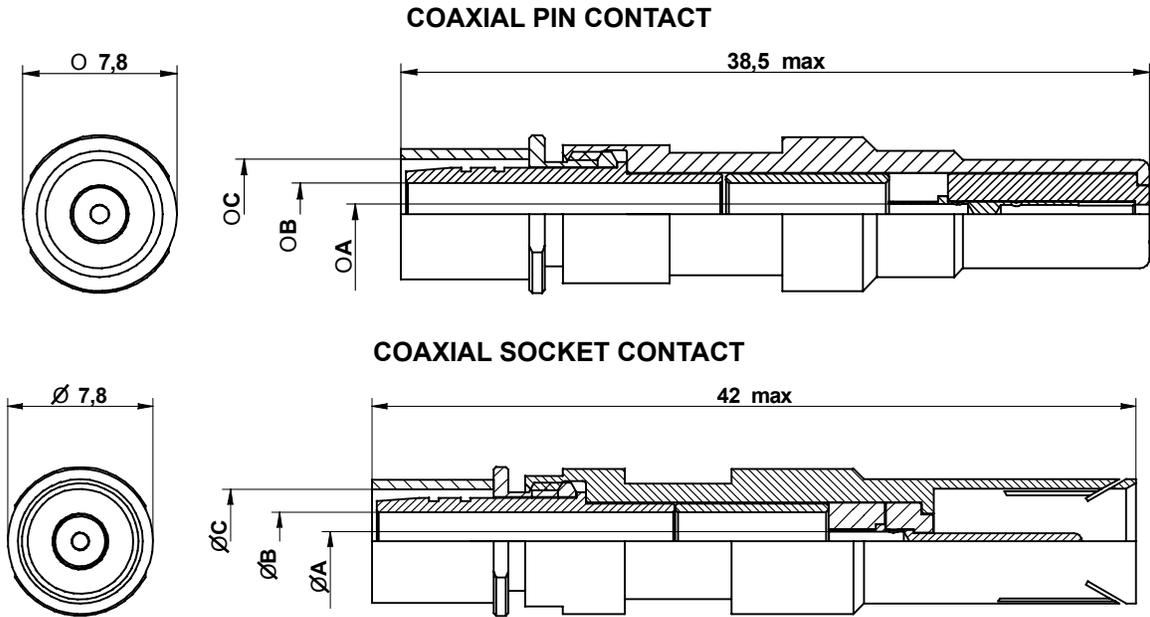
**PLATING OPTIONS**

**G10 : Silver (Standard)**

**G117 : Gold**

**Note : Guide Pins are suggested for use with Socket sizes 12, 16, 18, 20**





**TABLE I: COAXIAL PIN & SOCKET CONTACT PART NUMBERS,  
CABLE INFORMATION AND DIMENSIONS**

Pin P/N	Socket P/N	Used with Cable	Ø A	Ø B	Ø C
CC 70038	CC 70040	RG 58	1.05	3.15	5.23
CC 70046	CC 70042	RG 59	0.75	3.90	5.60
CC 70054	CC 70052	RG 179	0.55	1.70	3.10
CC 70056	CC 70058	RG 174	0.75	1.70	3.10
CC 70060	CC 70062	RG 142	1.05	3.15	5.60
CC 70064	CC 70066	RG 223	1.05	3.15	5.90

**COAXIAL INSERTION AND EXTRACTION TOOL - SIZE 8 -**

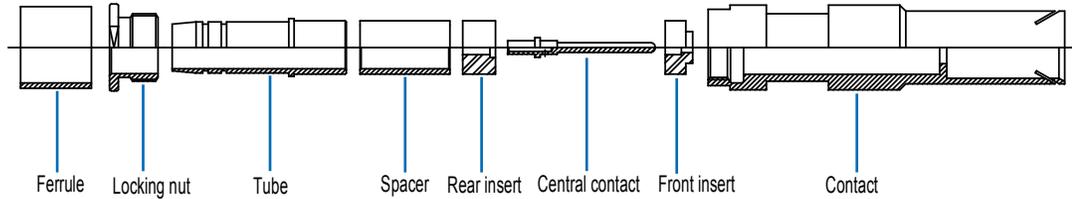


**P/N : M.118260/C**

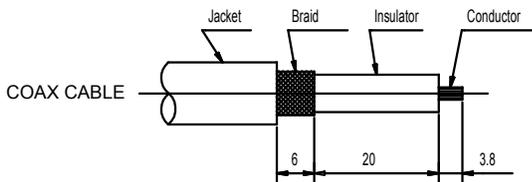
Insertion and Extraction Tool for COAX Contacts Size 8



**COAXIAL CONTACTS ASSEMBLY**



1 – Strip the cable according to the following dimensions



2 – Solder the central contact with the conductor of the coax cable after having pre-tinned the hole of the contact and the conductor, too

3 – Place the ferrule on the braid

4 – Place the locking nut on the tube and then this one on the insulator, then insert the tube under the braid

5 – Crimp the ferrule on the braid using the following tools:

- Crimping tool : M22520 / 5-01
- Die assy for RG58: M22520 / 5-05 A
- Die assy for RG59: M22520 / 5-45 B
- Die assy for RG142: M22520 / 5-08 A
- Die assy for RG174: M22520 / 5-08 A
- Die assy for RG179: M22520 / 5-08 A
- Die assy for RG223: M22520 / 5-45 A

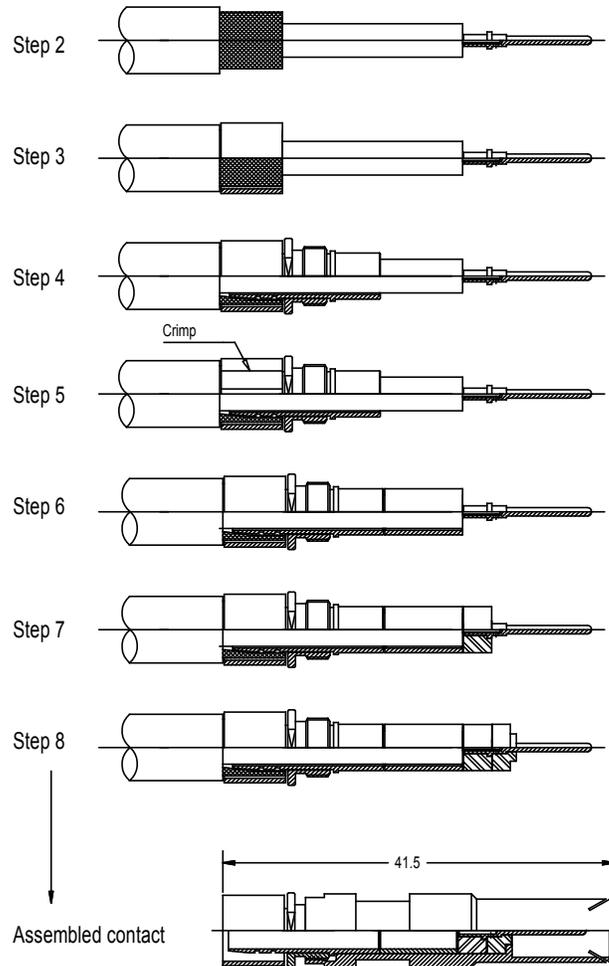
Note: the nut has to remain free to rotate

6 – Withdraw the spacer on the insulator till it stops against the tube

7 – Place the rear insert on the central contact by the cut on the side



8 – Place the front insert on the central contact and insert everything inside the contact lightly pressing the rear insert; then screw the nut and the contact together.



**TABLE I: INSERTION AND REMOVAL TOOLS PART NUMBERS, SIZE & DIMENSIONS**

PART NUMBER	CONTACT SIZE	WIRE SIZE		INSERTION TOOL	REMOVAL TOOL
		mm <sup>2</sup>	AWG	Commital P/N	Commital P/N
10-375-20	20	0,15-0,6	26-20	M.117346	M.118251
10-40579	18	0,15-0,6	26-20	M.117346	M.118249
10-40553	16S	1-1,5	18-16	M.117345	M.118250
10-40553-12	16S	0,6	20	M.117345	M.118250
10-40553-13	16S	0,15-0,6	26-20	M.117346	M.118250
10-40553-15	16S	0,75-1,0	18	M.117345	M.118250
10-40553-20	16S	1-2	14	M.117345	M.118250
10-40553-26	16S	3	12	M.117082	M.118250
10-40557	16	1-1,5	18-16	M.117345	M.118250
10-40557-08	16	0,15-0,2	26-24	M.117346	M.118250
10-40557-12	16	0,6	20	M.117345	M.118250
10-40557-13	16	0,15-0,6	26-20	M.117346	M.118250
10-40557-15	16	0,75-1,0	18	M.117345	M.118250
10-40557-20	16	1-2	14	M.117345	M.118250
10-40557-26	16	3	12	M.117082	M.118250
10-40557-32	16	/	32-28	M.117345	M.118250
10-40561	12	2,5-3,5	12	M.117082	M.118250
10-40561-12	12	0,6	20	M.117345	M.118250
10-40561-15	12	0,75-1,0	18	M.117082	M.118250
10-40561-20	12	1-2	18-14	M.117082	M.118250
10-40561-22	12	2,5	/	M.117082	M.118250
10-40561-30	12	4-5	/	M.117082	M.118250
10-40561-30M	12	4	/	M.117082	M.118250
10-40561-38	12	6	10	M.117082	M.118250
10-40561-50	12	10	/	M.117344	M.118260
10-40561-58	12	13,2	6	M.117344	M.118260
10-40792	8	9	8	M.117344	M.118260
10-40792-15	8	0,75-1,0	18	M.117082	M.118260

Please consult our sales department for other contact options or crimp tooling details.

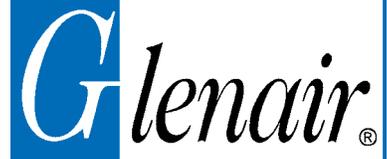


Insertion Tool



Removal Tool

**ITS Bayonet Connector Assemblies  
Pin Crimp Contacts  
Insertion and Removal tools**



**TABLE I: INSERTION AND REMOVAL TOOLS PART NUMBERS, SIZE & DIMENSIONS**

PART NUMBER	CONTACT SIZE	WIRE SIZE		INSERTION TOOL	REMOVAL TOOL
		mm <sup>2</sup>	AWG	Commital P/N	Commital P/N
10-40792-18	8	1-2	18-14	M.117082	M.118260
10-40792-20	8	2	14	M.117082	M.118260
10-40792-26	8	3	12 -14	M.117082	M.118260
10-40792-30	8	4-5	/	M.117082	M.118260
10-40792-38	8	6	10	M.117344	M.118260
10-40792-50	8	10	/	M.117344	M.118260
10-40792-58	8	13,2	6	M.117344	M.118260
10-113474-4P	4	22	4	M.117347	M.118270
10-113474-4P-22	4	2,5	/	M.117082	M.118270
10-113474-4P-25	4	25	/	M.117347	M.118270
10-113474-4P-26	4	3	/	M.117082	M.118270
10-113474-4P-30	4	4-5	/	M.117082	M.118270
10-113474-4P-38	4	6	10	M.117344	M.118270
10-113474-4P-50	4	10	/	M.117344	M.118270
10-113474-4P-62	4	16	/	M.117347	M.118270
10-113474-1P	0	50-60	0	M.117348	M.118280
10-113474-1P-107	0	50	/	M.117348	M.118280
10-113474-1P-25	0	25	/	M.117347	M.118280
10-113474-1P-35	0	35	/	M.117348	M.118280
10-113474-1P-45	0	9	8	M.117344	M.118280
10-113474-1P-50	0	10	/	M.117344	M.118280
10-113474-1P-62	0	16	/	M.117347	M.118280
10-113474-0P	4/0	107	4/0	/	/
10-113474-0P-78	4/0	25	/	/	/
10-113474-0P-107	4/0	50	/	/	/
10-113474-0P-135	4/0	67,4	2/0	/	/
10-113474-0P-144	4/0	70	/	/	/

Please consult our sales department for other contact options or crimp tooling details.



Insertion Tool



Removal Tool

**TABLE I: INSERTION AND REMOVAL TOOLS PART NUMBERS, SIZE & DIMENSIONS**

PART NUMBER	CONTACT SIZE	WIRE SIZE		INSERTION TOOL	REMOVAL TOOL	GUIDE PIN
		mm <sup>2</sup>	AWG	Commital P/N	Commital P/N	
10-40520LC	20	0,15-0,6	26-20	M.117346	M.118251	M.125007
10-40588	18	0,15-0,6	26-20	M.117346	M.118249	M.125000
10-40552	16S	1-1,5	18-16	M.117345	M.118250	M.125001
10-40552 TU	16S	1-1,5	18-16	M.117345	M.118250	M.118250
10-40552-12	16S	0,6	20	M.117345	M.118250	M.118250
10-40552-13	16S	0,15-0,6	26-20	M.117346	M.118250	M.125001
10-40552-15	16S	0,75-1	18	M.117345	M.118250	M.125001
10-40552-20	16S	1-2	14	M.117345	M.118250	M.125001
10-40552-26	16S	3	12	M.117082	M.118250	M.125001
10-40556	16	1-1,5	18-16	M.117345	M.118250	M.125001
10-40556 TU	16	1-1,5	18-16	M.117345	M.118250	M.125001
10-40556-08	16	0,15-0,2	26-24	M.117346	M.118250	M.125001
10-40556-12	16	0,6	20	M.117345	M.118250	M.125001
10-40556-13	16	0,15-0,6	26-20	M.117346	M.118250	M.125001
10-40556-15	16	0,75-1	18	M.117345	M.118250	M.125001
10-40556-20	16	1-2	14	M.117345	M.118250	M.125001
10-40556-26	16	3	12	M.117082	M.118250	M.125001
10-40556-32	16	/	32-28	M.117345	M.118250	M.125001
10-40560	12	2,5-3,0	12	M.117082	M.118250	M.125002
10-40560 TU	12	2,5-3,0	12	M.117082	M.118250	M.125002
10-40560-12	12	0,6	20	M.117345	M.118250	M.125002
10-40560-15	12	0,75-1	18	M.117082	M.118250	M.125002
10-40560-20	12	1 - 2	18-14	M.117082	M.118250	M.125002
10-40560-22	12	2,5	/	M.117082	M.118250	M.125002
10-40560-30	12	4-5	/	M.117082	M.118250	M.125002
10-40560-30M	12	4	/	M.117082	M.118250	M.125002
10-40560-38	12	6	10	M.117082	M.118250	M.125002
10-40560-50	12	10	/	M.117344	M.118250	M.125002
10-40560-58	12	13,2	6	M.117344	M.118250	M.125002

Please consult our sales department for other contact options or crimp tooling details.



Insertion Tool



Removal Tool



Guide Pin

# ITS Bayonet Connector Assemblies Socket Crimp Contacts Insertion and Removal tools



**TABLE I: INSERTION AND REMOVAL TOOLS PART NUMBERS, SIZE & DIMENSIONS**

PART NUMBER	CONTACT SIZE	WIRE SIZE		INSERTION TOOL	REMOVAL TOOL	GUIDE PIN
		mm <sup>2</sup>	AWG	Commital P/N	Commital P/N	
10-40793-1	8	9	8	M.117344	M.118260	M.125003
10-40793-1-15	8	0,75-1	18	M.117082	M.118260	M.125003
10-40793-1-18	8	1-2	18-14	M.117082	M.118260	M.125003
10-40793-1-20	8	2	14	M.117082	M.118260	M.105028
10-40793-1-26	8	3	12	M.117082	M.118260	M.125003
10-40793-1-30	8	4-5	/	M.117082	M.118260	M.125003
10-40793-1-38	8	6	10	M.117344	M.118260	M.125003
10-40793-1-50	8	10	/	M.117344	M.118260	M.125003
10-40793-1-58	8	13,2	6	M.117344	M.118260	M.125003
10-113474-4S-1	4	22	4	M.117347	M.118270	/
10-113474-4S-1-22	4	2,5	/	M.117082	M.118270	/
10-113474-4S-1-25	4	25	/	M.117347	M.118270	/
10-113474-4S-1-26	4	3	/	M.117082	M.118270	/
10-113474-4S-1-30	4	4-5	/	M.117082	M.118270	/
10-113474-4S-1-38	4	6	10	M.117344	M.118270	/
10-113474-4S-1-50	4	10	/	M.117344	M.118270	/
10-113474-4S-1-62	4	16	/	M.117347	M.118270	/
10-113474-1S	0	50-60	0	M.117348	M.118280	/
10-113474-1S-107	0	50	/	M.117348	M.118280	/
10-113474-1S-25	0	25	/	M.117347	M.118280	/
10-113474-1S-35	0	35	/	M.117348	M.118280	/
10-113474-1S-45	0	9	8	M.117344	M.118280	/
10-113474-1S-50	0	10	/	M.117344	M.118280	/
10-113474-1S-62	0	16	/	M.117347	M.118280	/
10-113474-0S	4/0	107	4/0	/	/	/
10-113474-0S-78	4/0	25	/	/	/	/
10-113474-0S-107	4/0	50	/	/	/	/
10-113474-0S-135	4/0	67,4	2/0	/	/	/
10-113474-0S-144	4/0	70	/	/	/	/

Please consult our sales department for other contact options or crimp tooling details.



Insertion Tool



Removal Tool



Guide Pin

**TABLE I: MANUAL AND PNEUMATIC TOOLS PART NUMBERS, SIZE & DIMENSIONS**

PART NUMBER	CONTACT SIZE	WIRE SIZE		MANUAL CRIMP TOOL		PNEUMATIC TOOL TYPE "A"	
		mm <sup>2</sup>	AWG	MANUAL TOOL	TURRET	PNEUMATIC TOOL	TURRET
10-375-20	20	0,15-0,6	26-20	M.105001	M.105026	M.105003	M.105026
10-40579	18	0,15-0,6	26-20	M.105001	M.105025	M.105003	M.105025
10-40553	16S	1-1,5	18-16	M.105007	M.105009	M.105002	M.105009
10-40553-12	16S	0,6	20	M.105007	M.105009	M.105002	M.105009
10-40553-13	16S	0,15-0,6	26-20	M.105001	M.105009	M.105003	M.105009
10-40553-15	16S	0,75-1,0	18	M.105007	M.105009	M.105002	M.105009
10-40553-20	16S	1-2	14	M.105007	M.105009	M.105002	M.105009
10-40553-26	16S	3	12	M.105007	M.105009	M.105002	M.105009
10-40557	16	1-1,5	18-16	M.105007	M.105009	M.105002	M.105009
10-40557-08	16	0,15-0,2	26-24	M.105001	M.105009	M.105003	M.105009
10-40557-12	16	0,6	20	M.105001	M.105009	M.105003	M.105009
10-40557-13	16	0,15-0,6	26-20	M.105001	M.105009	M.105003	M.105009
10-40557-15	16	0,75-1,0	18	M.105007	M.105009	M.105002	M.105009
10-40557-20	16	1-2	14	M.105007	M.105009	M.105002	M.105009
10-40557-26	16	3	12	M.105007	M.105009	M.105002	M.105009
10-40557-32	16	/	32-28	M.105001	M.105009	M.105003	M.105009
10-40561	12	2,5-3,5	12	M.105007	M.105009	M.105002	M.105009
10-40561-12	12	0,6	20	M.105001	M.105009	M.105003	M.105009
10-40561-15	12	0,75-1,0	18	M.105007	M.105009	M.105002	M.105009
10-40561-20	12	1-2	18-14	M.105007	M.105009	M.105002	M.105009
10-40561-22	12	2,5	/	M.105007	M.105009	M.105002	M.105009
10-40561-30	12	4-5	/	M.105007	M.105009	M.105002	M.105009
10-40561-30M	12	4	/	M.105007	M.105009	M.105002	M.105009
10-40561-38	12	6	10	M.105007	M.105009	M.105002	M.105009

Please consult our sales department for other contact options or crimp tooling details.



Manual Crimp Tool



Turret for  
Manual Crimp Tool



Pneumatic Crimp Tool  
Type "A"



Turret for  
Pneumatic Crimp Tool  
Type "A"

TABLE I: MANUAL AND PNEUMATIC TOOLS PART NUMBERS, SIZE & DIMENSIONS

PART NUMBER	CONTACT SIZE	WIRE SIZE		MANUAL CRIMP TOOL		PNEUMATIC TOOL TYPE "B"			OLEODINAMIC TOOL	
		mm <sup>2</sup>	AWG	MANUAL TOOL	TURRET	PNEUMATIC TOOL	DIE	LOCATOR	OLEODINAMIC TOOL	DIE
10-40561-50	12	10	/	/	/	M.112000	M.112001	M.112309	M.112004	M.112005
10-40561-58	12	13,2	6	/	/	M.112000	M.112001	M.112309	M.112004	M.112005
10-40792	8	9	8	/	/	M.112000	M.112001	M.112309	M.112004	M.112005
10-40792-15	8	0,75-1,0	18	M.105028	M.104002	/	/	/	/	/
10-40792-18	8	1-2	18-14	M.105028	M.104002	/	/	/	/	/
10-40792-20	8	2	14	M.105028	M.104002	/	/	/	/	/
10-40792-26	8	3	12 -14	M.105028	M.104002	/	/	/	/	/
10-40792-30	8	4-5	/	M.105028	M.104002	M.112000	M.112001	M.112309	M.112004	M.112008
10-40792-38	8	6	10	/	/	M.112000	M.112001	M.112309	M.112004	M.112005
10-40792-50	8	10	/	/	/	M.112000	M.112001	M.112309	M.112004	M.112005
10-40792-58	8	13,2	6	/	/	M.112000	M.112001	M.112309	M.112004	M.112005
10-113474-4P	4	22	4	/	/	M.112000	M.112002	M.112311	M.112004	M.112006
10-113474-4P-22	4	2,5	/	/	/	/	/	/	M.112004	M.112009
10-113474-4P-25	4	25	/	/	/	M.112000	M.112002	M.112311	M.112004	M.112006
10-113474-4P-26	4	3	/	/	/	/	/	/	M.112004	M.112009
10-113474-4P-30	4	4-5	/	/	/	M.112000	M.112001	M.112309	M.112004	M.112008
10-113474-4P-38	4	6	10	/	/	/	/	/	M.112004	M.112005
10-113474-4P-50	4	10	/	/	/	M.112000	M.112001	M.112311	M.112004	M.112005
10-113474-4P-62	4	16	/	/	/	M.112000	M.112002	M.112311	M.112004	M.112006
10-113474-1P	0	50-60	0	/	/	M.112000	M.112003	M.112313	M.112004	M.112007
10-113474-1P-107	0	50	/	/	/	M.112000	M.112003	M.112313	M.112004	M.112007
10-113474-1P-25	0	25	/	/	/	M.112000	M.112002	M.112313	M.112004	M.112006
10-113474-1P-35	0	35	/	/	/	M.112000	M.112003	M.112313	M.112004	M.112007
10-113474-1P-45	0	9	8	/	/	/	/	/	M.112004	M.112005
10-113474-1P-50	0	10	/	/	/	M.112000	M.112001	M.112313	M.112004	M.112005
10-113474-1P-62	0	16	/	/	/	M.112000	M.112002	M.112313	M.112004	M.112006
10-113474-0P	4/0	107	4/0	/	/	/	/	/	M.105013	M.112012
10-113474-0P-78	4/0	25	/	/	/	/	/	/	M.105013	M.112012
10-113474-0P-107	4/0	50	/	/	/	/	/	/	M.105013	M.112012
10-113474-0P-135	4/0	67,4	2/0	/	/	/	/	/	M.105013	M.112012
10-113474-0P-144	4/0	70	/	/	/	/	/	/	M.105013	M.112012

Please consult our sales department for other contact options or crimp tooling details.



Pneumatic Crimp Tool Type "B"



Die for Pneumatic Crimp Tool Type "B"



Locator for Pneumatic Crimp Tool Type "B"



Oleodinamic Crimp Tool



Die for Oleodinamic Crimp Tool



**ITS Bayonet Connector Assemblies  
Socket Crimp Contacts  
Manual and Pneumatic Tools**

**TABLE I: MANUAL AND PNEUMATIC TOOLS PART NUMBERS, SIZE & DIMENSIONS**

PART NUMBER	CONTACT SIZE	WIRE SIZE		MANUAL CRIMP TOOL		PNEUMATIC TOOL TYPE "A"	
		mm <sup>2</sup>	AWG	MANUAL TOOL	TURRET	PNEUMATIC TOOL	TURRET
10-40520LC	20	0,15-0,6	26-20	M.105001	M.105026	M.105003	M.105026
10-40588	18	0,15-0,6	26-20	M.105001	M.105025	M.105003	M.105025
10-40552	16S	1-1,5	18-16	M.105007	M.105009	M.105002	M.105009
10-40552 TU	16S	1-1,5	18-16	M.105007	M.105009	M.105002	M.105009
10-40552-12	16S	0,6	20	M.105007	M.105009	M.105002	M.105009
10-40552-13	16S	0,15-0,6	26-20	M.105001	M.105009	M.105003	M.105009
10-40552-15	16S	0,75-1	18	M.105007	M.105009	M.105002	M.105009
10-40552-20	16S	1-2	14	M.105007	M.105009	M.105002	M.105009
10-40552-26	16S	3	12	M.105007	M.105009	M.105002	M.105009
10-40556	16	1-1,5	18-16	M.105007	M.105009	M.105002	M.105009
10-40556 TU	16	1-1,5	18-16	M.105007	M.105009	M.105002	M.105009
10-40556-08	16	0,15-0,2	26-24	M.105001	M.105009	M.105003	M.105009
10-40556-12	16	0,6	20	M.105001	M.105009	M.105003	M.105009
10-40556-13	16	0,15-0,6	26-20	M.105001	M.105009	M.105003	M.105009
10-40556-15	16	0,75-1	18	M.105007	M.105009	M.105002	M.105009
10-40556-20	16	1-2	14	M.105007	M.105009	M.105002	M.105009
10-40556-26	16	3	12	M.105007	M.105009	M.105002	M.105009
10-40556-32	16	/	32-28	M.105001	M.105009	M.105003	M.105009
10-40560	12	2,5-3,0	12	M.105007	M.105009	M.105002	M.105009
10-40560 TU	12	2,5-3,0	12	M.105007	M.105009	M.105002	M.105009
10-40560-12	12	0,6	20	M.105001	M.105009	M.105003	M.105009
10-40560-15	12	0,75-1	18	M.105007	M.105009	M.105002	M.105009
10-40560-20	12	1 - 2	18-14	M.105007	M.105009	M.105002	M.105009
10-40560-22	12	2,5	/	M.105007	M.105009	M.105002	M.105009
10-40560-30	12	4-5	/	M.105007	M.105009	M.105002	M.105009
10-40560-30M	12	4	/	M.105007	M.105009	M.105002	M.105009
10-40560-38	12	6	10	M.105007	M.105009	M.105002	M.105009

Please consult our sales department for other contact options or crimp tooling details.

TABLE I: MANUAL AND PNEUMATIC TOOLS PART NUMBERS, SIZE & DIMENSIONS

PART NUMBER	CONTACT SIZE	WIRE SIZE		MANUAL CRIMP TOOL		PNEUMATIC TOOL TYPE "B"			OLEODINAMIC TOOL	
		mm <sup>2</sup>	AWG	MANUAL TOOL	TURRET	PNEUMATIC TOOL	DIE	LOCATOR	OLEODINAMIC TOOL	DIE
10-40560-50	12	10	/	/	/	M.112000	M.112001	M.112309	M.112004	M.112005
10-40560-58	12	13,2	6	/	/	M.112000	M.112001	M.112309	M.112004	M.112005
10-40793-1	8	9	8	/	/	M.112000	M.112001	M.112309	M.112004	M.112005
10-40793-1-15	8	0,75-1	18	M.105028	M.104002	/	/	/	/	/
10-40793-1-18	8	1-2	18-14	M.105028	M.104002	/	/	/	/	/
10-40793-1-20	8	2	14	M.105028	M.104002	/	/	/	/	/
10-40793-1-26	8	3	12	M.105028	M.104002	/	/	/	/	/
10-40793-1-30	8	4-5	/	M.105028	M.104002	M.112000	M.112001	M.112309	M.112004	M.112008
10-40793-1-38	8	6	10	/	/	M.112000	M.112001	M.112309	M.112004	M.112005
10-40793-1-50	8	10	/	/	/	M.112000	M.112001	M.112309	M.112004	M.112005
10-40793-1-58	8	13,2	6	/	/	M.112000	M.112001	M.112309	M.112004	M.112005
10-113474-4S-1	4	22	4	/	/	M.112000	M.112002	M.112311	M.112004	M.112006
10-113474-4S-1-22	4	2,5	/	/	/	/	/	/	M.112004	M.112009
10-113474-4S-1-25	4	25	/	/	/	M.112000	M.112002	M.112311	M.112004	M.112009
10-113474-4S-1-26	4	3	/	/	/	/	/	/	M.112004	M.112009
10-113474-4S-1-30	4	4-5	/	/	/	M.112000	M.112001	M.112309	M.112004	M.112008
10-113474-4S-1-38	4	6	10	/	/	/	/	/	M.112004	M.112005
10-113474-4S-1-50	4	10	/	/	/	M.112000	M.112001	M.112311	M.112004	M.112005
10-113474-4S-1-62	4	16	/	/	/	M.112000	M.112002	M.112311	M.112004	M.112006
10-113474-1S	0	50-60	0	/	/	M.112000	M.112003	M.112313	M.112004	M.112007
10-113474-1S-107	0	50	/	/	/	M.112000	M.112003	M.112313	M.112004	M.112007
10-113474-1S-25	0	25	/	/	/	M.112000	M.112002	M.112313	M.112004	M.112006
10-113474-1S-35	0	35	/	/	/	M.112000	M.112003	M.112313	M.112004	M.112007
10-113474-1S-45	0	9	8	/	/	/	/	/	M.112004	M.112005
10-113474-1S-50	0	10	/	/	/	M.112000	M.112001	M.112313	M.112004	M.112005
10-113474-1S-62	0	16	/	/	/	M.112000	M.112002	M.112313	M.112004	M.112006
10-113474-0S	4/0	107	4/0	/	/	/	/	/	M.105013	M.112012
10-113474-0S-78	4/0	25	/	/	/	/	/	/	M.105013	M.112012
10-113474-0S-107	4/0	50	/	/	/	/	/	/	M.105013	M.112012
10-113474-0S-135	4/0	67,4	2/0	/	/	/	/	/	M.105013	M.112012
10-113474-0S-144	4/0	70	/	/	/	/	/	/	M.105013	M.112012

Please consult our sales department for other contact options or crimp tooling details.

SERIES 18

# FIBER OPTICS

**Mission-Critical Interconnect Systems  
for Commercial and Military Applications**



From our MIL-PRF-28876 type fiber optic connectors to our MIL-DTL-38999 type solutions, Glenair produces ultra high performance fiber optic interconnection systems for every military and commercial standard. Fiber optic connectors, termini and cabling offer lower weight, reduced size, huge bandwidth and EMI immunity—and Glenair manufactures a solution for each branch of the military and every mission-critical commercial application. For complete ordering information please see our fiber optic catalog or visit our website at [www.glenair.com](http://www.glenair.com)



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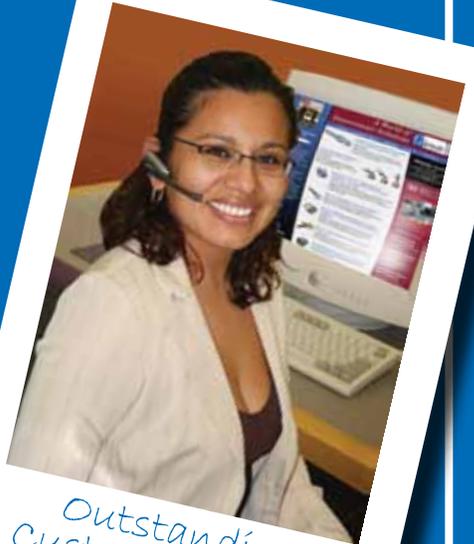
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