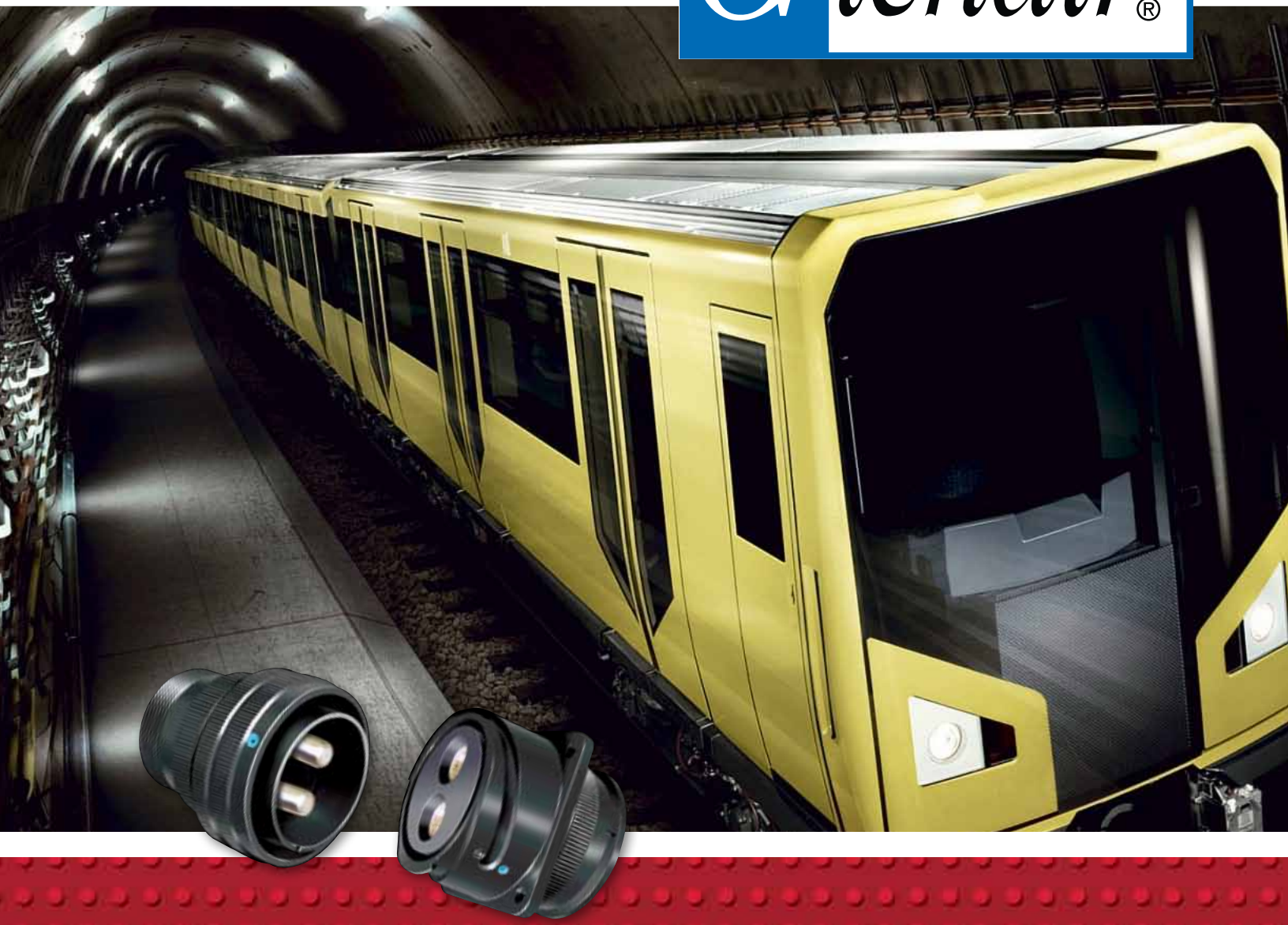
Glenair®



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*® Tools and Bands.



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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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Insert Arrangements: A-6
Alternate Key Positions: A-20



A

B **Series ITS**
Reverse Bayonet Connector Assemblies



B

C **Series ITS-RG**
Rubber Coated Reverse Bayonet Connector Assemblies



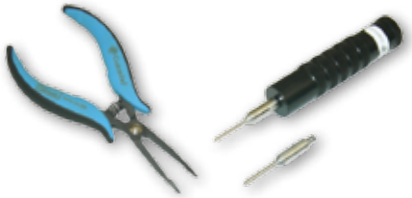
C

D **Backshells and Accessories**
For Series ITS and ITS-RG Reverse Bayonet Connectors



D

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For Series ITS and ITS-RG Reverse Bayonet Connectors



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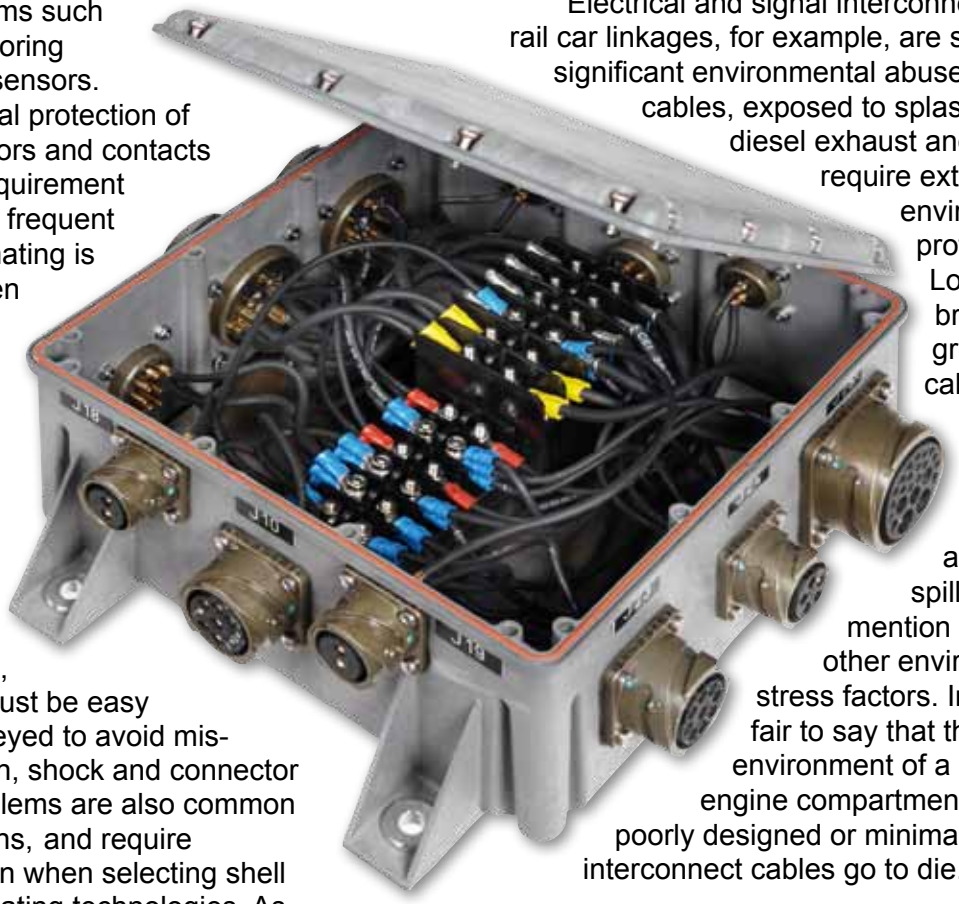
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Connectors, Cables and World-Class Interconnect Expertise Arriving Now on Track 5015!

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 mis-mating. 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

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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

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

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.

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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.

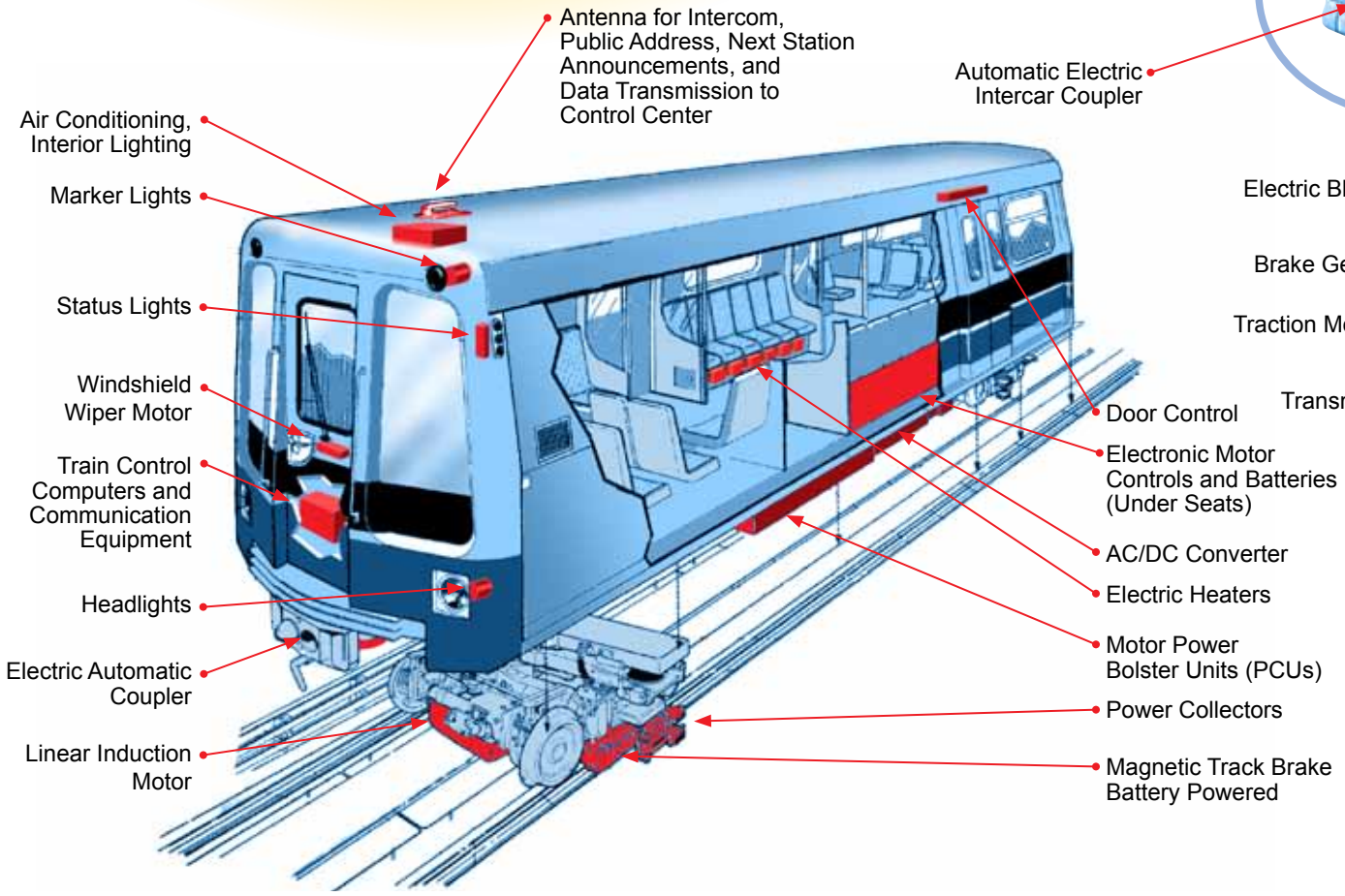
Glenair Series ITS and ITS-RG connectors and cables are designed for use in the most demanding power and signal interconnect applications, and have been selected for use in countless military vehicles, shelters and other tactical applications.



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Reverse Bayonet Rail Application Guide

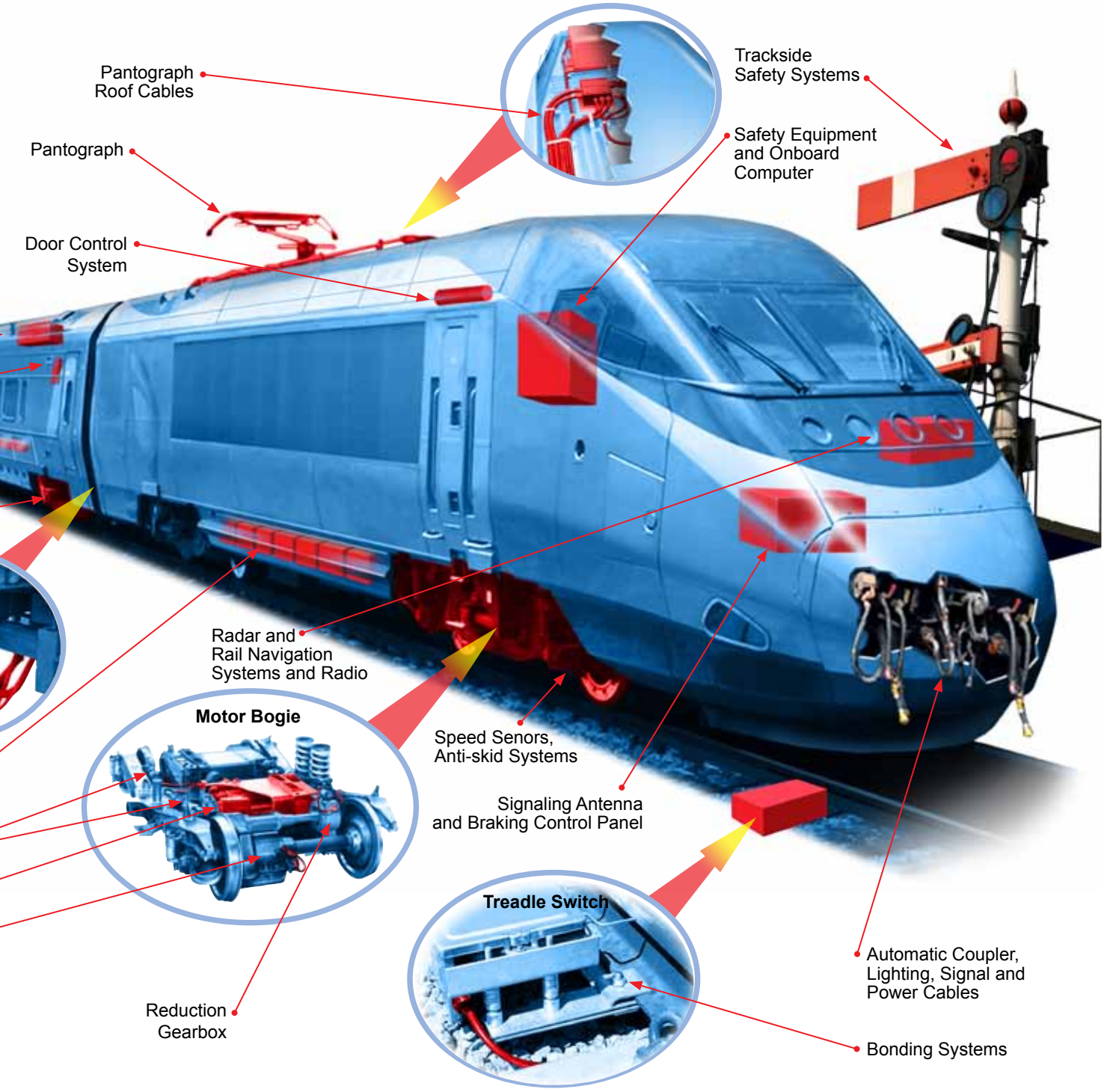




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A World of Rail Industry Interconnect Solutions

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.

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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 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.



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

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

© 2010 Glenair, Inc.

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, lockring 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.

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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.

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

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 electromagnetical 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, also has complete information on these products, including inventory listings.

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Glenair Series ITS
MIL-DTL-5015 Type Reverse Bayonet Connectors
Summary of Connector Styles and Backshells

Receptacles

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

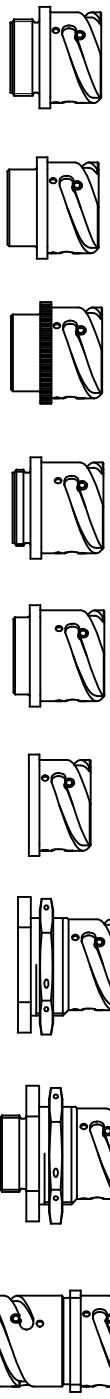
ITS 03
Rear Panel Mount Square Flange Receptacle. No Accessory Thread

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.

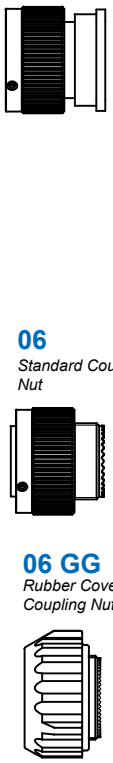


Plugs

26
Panel Mounting Plug

06
Standard Coupling Nut

06 GG
Rubber Covered Coupling Nut



Selected Shell Styles

A/R
Standard Backshell

PG/M
Metric Thread Straight Adapter

N2N5
Long Backshell with Cable Clamp Type "C"

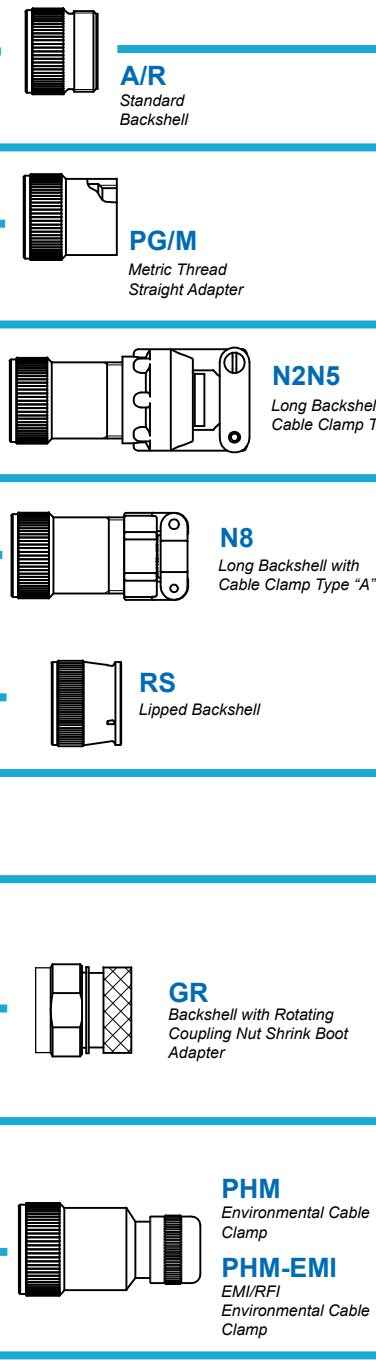
N8
Long Backshell with Cable Clamp Type "A"

RS
Lipped Backshell

GR
Backshell with Rotating Coupling Nut Shrink Boot Adapter

PHM
Environmental Cable Clamp

PHM-EMI
EMI/RFI Environmental Cable Clamp

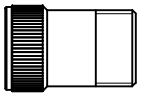


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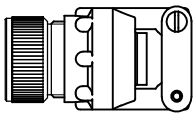
Glenair Series ITS
MIL-DTL-5015 Type Reverse Bayonet Connectors
Summary of Connector Styles and Backshells

Backshells and Accessories

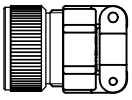
N2
Long Backshell



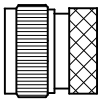
N5
Cable Clamp and Seal



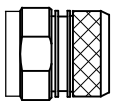
N1
Cable Clamp Single Wire



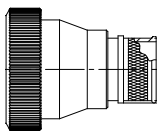
G
Backshell for Heat Shrink Boot



SP
EMI/RFI Shield Termination Straight Backshell

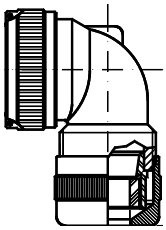


ZLF
BAND-IT® EMI/RFI Banding Backshell

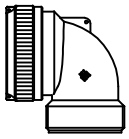


Adapters and Cable Clamps

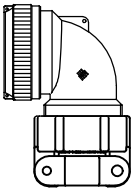
08 PHM
90° Backshell with EMI/RFI Environmental Cable Clamp



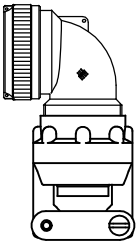
08
90° Backshell



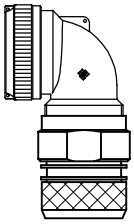
08F
90° Backshell with Cable Clamp and Bushing



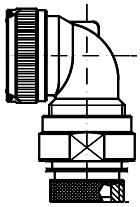
08 N5
90° Backshell with Cable Clamp and Seal



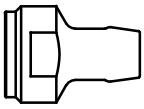
08 SP
90° Backshell EMI/RFI Shield Termination



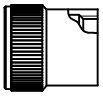
08 GR
90° Backshell with Rotating Coupling Nut Shrink Boot Adapter



BR
BR Backshell



08 PG/M
Elbow Adapter with PG or Metric Thread



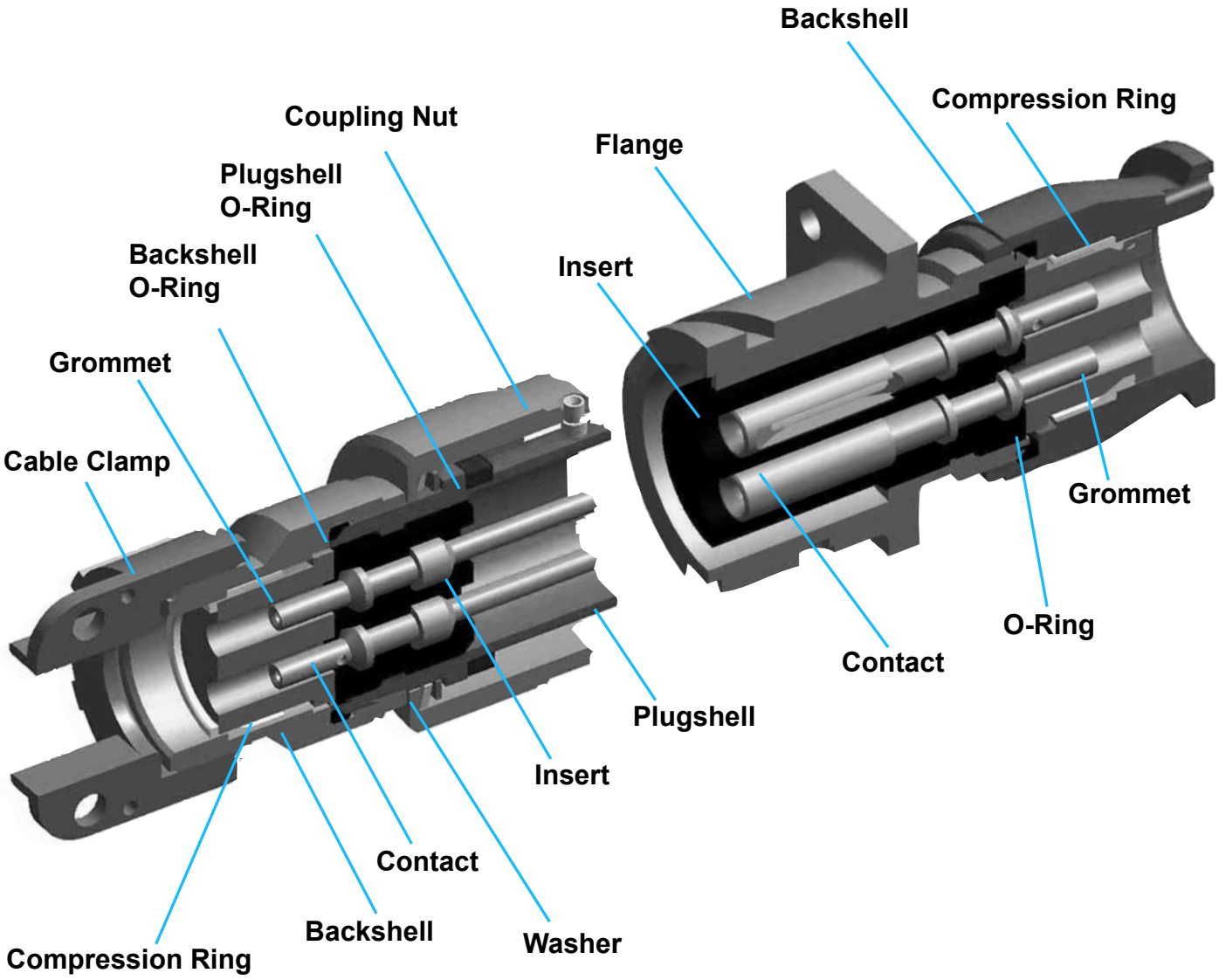
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U.S. CAGE Code 06324

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Glenair Series ITS
MIL-DTL-5015 Type Reverse Bayonet Connectors
Cross Section

- 00
Wall Mount Receptacle



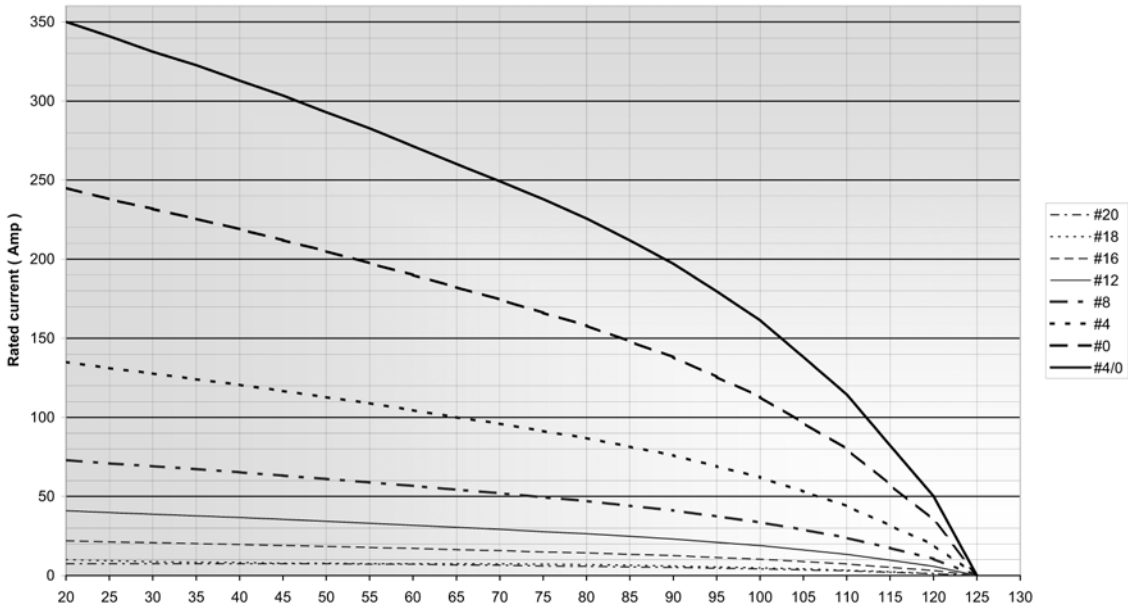
- 06
Straight Plug

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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*: ≥ 5 x 10³ MΩ)

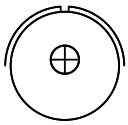
Class	Operating voltage Vdc	Operating voltage Vac RMS	Test voltage Vac RMS
INST.	250 V	200 V	1000 V
A	700 V	500 V	2000 V
D	1250 V	900 V	2800 V
E	1750 V	1250 V	3500 V
B	2450 V	1750 V	4500 V
C	4200 V	3000 V	7000 V

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.*

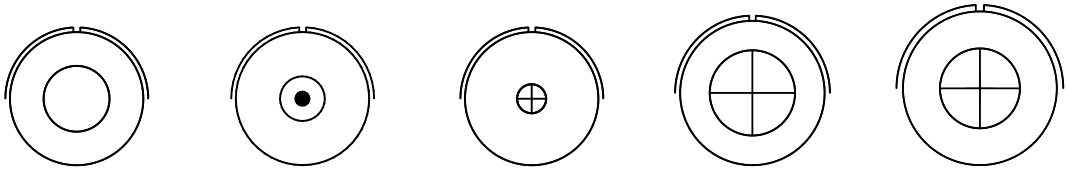
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Glenair Series ITS and ITS-RG
MIL-DTL-5015 Type Reverse Bayonet Connectors
Contact Arrangements
Front View of Pin Insert

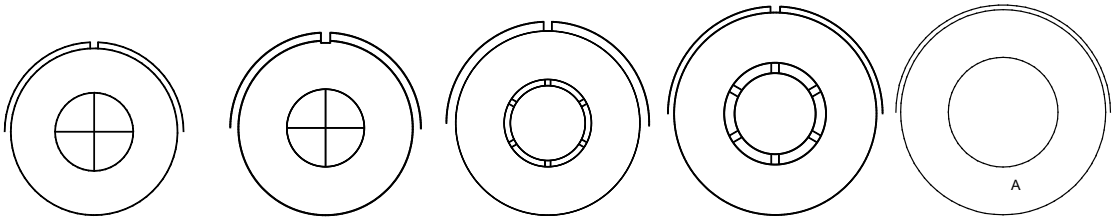
1 CONTACT



Arrangement	16-2	16-12
Contact Size	12	4
Service rating	E	A



Arrangement	18-6	18-7	18-16	20-2	22-7
Contact Size	4	8	12	0	0
Service rating	D	B	C	D	E

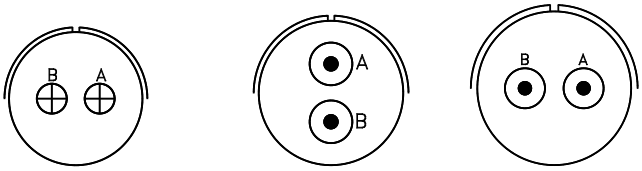


Arrangement	24-A1	28-B1	32-A1	36-01	36-B90
Contact Size	0	0	AWG 4/0	AWG 4/0	Special
Service rating	B	B	A	C	D

2 CONTACTS

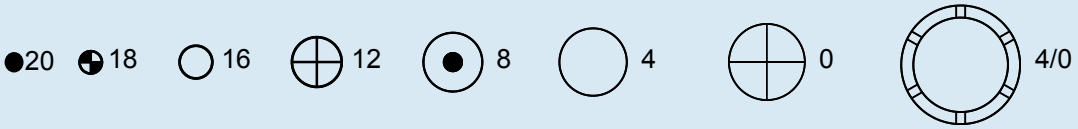


Arrangement	10SL-4	14S-9	16S-4	16-11
Contact Size	16	16	16	12
Service rating	A	A	D	A



Arrangement	18-3	20-23	22-1
Contact Size	12	8	8
Service rating	D	A	D

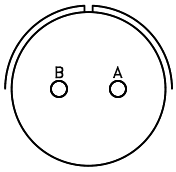
CONTACT LEGEND

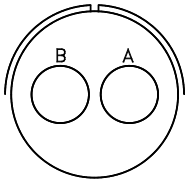


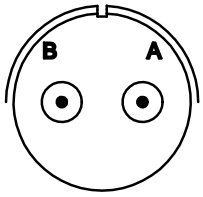
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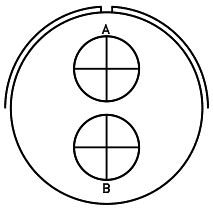
Glenair Series ITS and ITS-RG
MIL-DTL-5015 Type Reverse Bayonet Connectors
Contact Arrangements
Front View of Pin Insert

2 CONTACTS





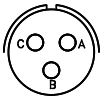


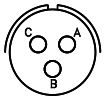


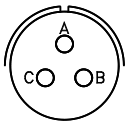
Arrangement	22-11	24-9	28-B2	32-5
Contact Size	16	4	2/8	0
Service rating	B	A	B	D

3 CONTACTS

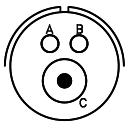


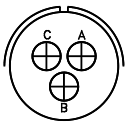


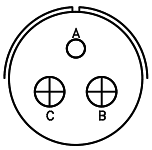


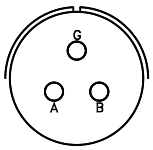


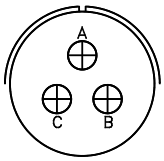
Arrangement	10SL-3	14S-1	14S-7	16S-5
Contact Size	16	16	16	16
Service rating	A	A	A	A



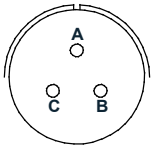


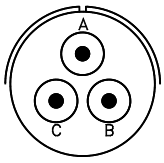


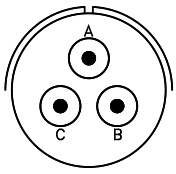


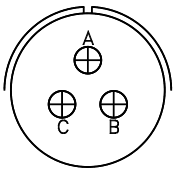


Arrangement	16-7	16-10	18-5	18-22	20-3
Contact Size	1/8, 2/16	12	2/12, 1/16	16	12
Service rating	A	A	D	D	D

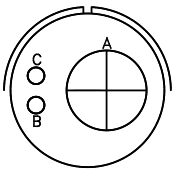


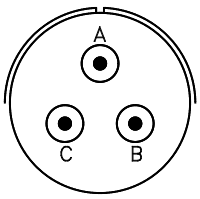


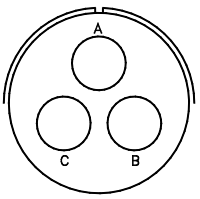


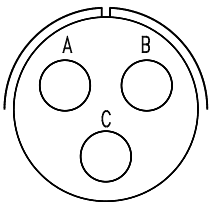


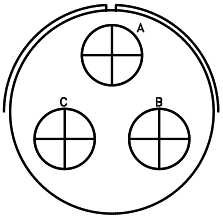
Arrangement	20-6	20-19	22-2	22-9
Contact Size	16	8	8	12
Service rating	D	A	D	E





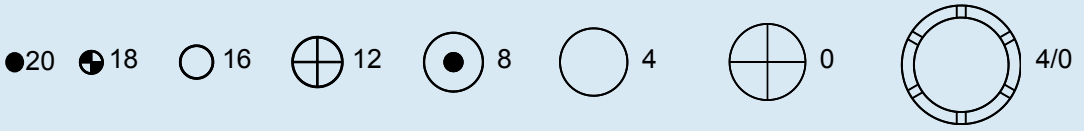






Arrangement	22-21	28-3	28-6	32-A3	36-4
Contact Size	1/0, 2/16	8	4	4	0
Service rating	A	E	D	E	A=D; B,C=A

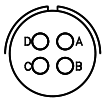
CONTACT LEGEND



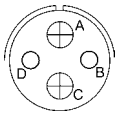
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Glenair Series ITS and ITS-RG
MIL-DTL-5015 Type Reverse Bayonet Connectors
Contact Arrangements
Front View of Pin Insert

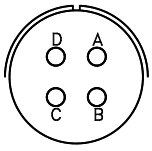
4 CONTACTS



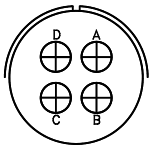
14S-2
Arrangement
Contact Size
Service rating
16
I



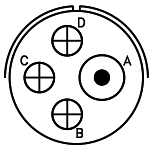
16-9
Arrangement
Contact Size
Service rating
2/12, 2/16
A



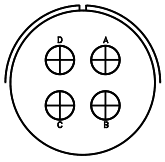
18-4
Arrangement
Contact Size
Service rating
16
D



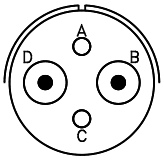
18-10
Arrangement
Contact Size
Service rating
12
A



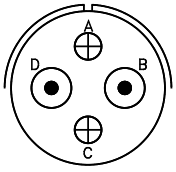
18-13
Arrangement
Contact Size
Service rating
1/8, 3/12
A



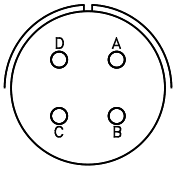
20-4
Arrangement
Contact Size
Service rating
12
D



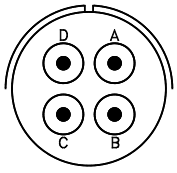
20-24
Arrangement
Contact Size
Service rating
2/8, 2/16
A



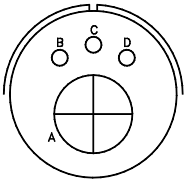
22-4
Arrangement
Contact Size
Service rating
2/8, 2/12
A



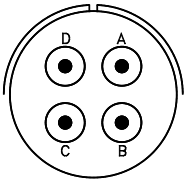
22-10
Arrangement
Contact Size
Service rating
16
E



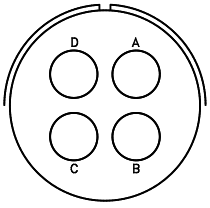
22-22
Arrangement
Contact Size
Service rating
8
A



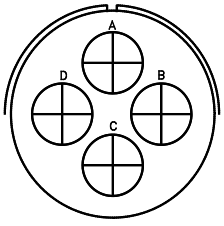
24-4
Arrangement
Contact Size
Service rating
1/0, 3/16
A



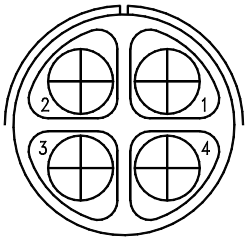
24-22
Arrangement
Contact Size
Service rating
8
D



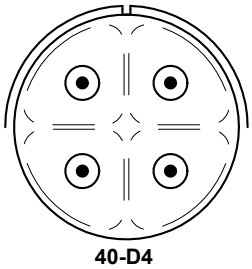
32-17
Arrangement
Contact Size
Service rating
4
D



36-5
Arrangement
Contact Size
Service rating
0
A

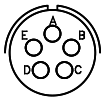


40-B4
Arrangement
Contact Size
Service rating
0
E

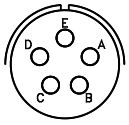


40-D4
Arrangement
Contact Size
Service rating
8
E

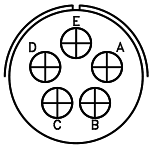
5 CONTACTS



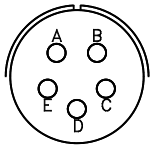
14S-5
Arrangement
Contact Size
Service rating
16
I



16S-8
Arrangement
Contact Size
Service rating
16
A

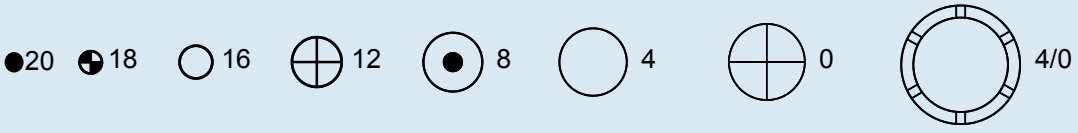


18-11
Arrangement
Contact Size
Service rating
12
A



18-20
Arrangement
Contact Size
Service rating
16
A

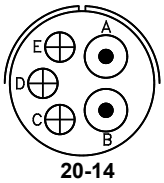
CONTACT LEGEND



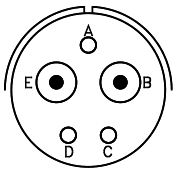
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Glenair Series ITS and ITS-RG
MIL-DTL-5015 Type Reverse Bayonet Connectors
Contact Arrangements
Front View of Pin Insert

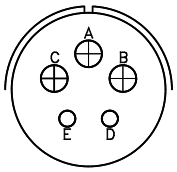
5 CONTACTS



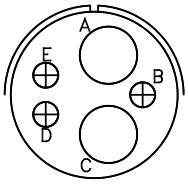
Arrangement: 20-14
Contact Size: 2/8, 3/12
Service rating: A



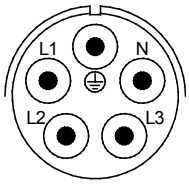
Arrangement: 22-12
Contact Size: 2/8, 3/16
Service rating: D



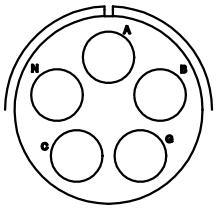
Arrangement: 22-34
Contact Size: 3/12, 2/16
Service rating: D



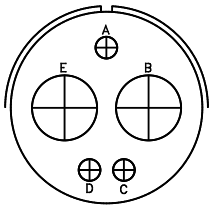
Arrangement: 24-12
Contact Size: 2/4, 3/12
Service rating: A



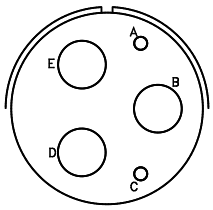
Arrangement: 24-G5
Contact Size: 5/8
Service rating: A



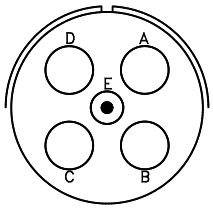
Arrangement: 32A-5 GM
Contact Size: 4
Service rating: A



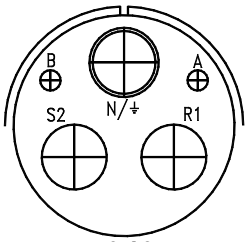
Arrangement: 32-1
Contact Size: 2/0, 3/12
Service rating: A =E; B,C,D,E = D



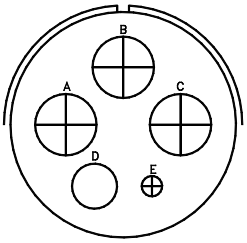
Arrangement: 32-2
Contact Size: 3/4, 2/16
Service rating: E



Arrangement: 32-79
Contact Size: 4/4,1/8
Service rating: D

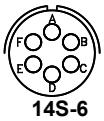


Arrangement: 40-A3
Contact Size: 1/0M, 2/0, 2/12
Service rating: A

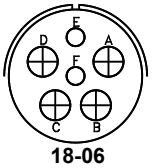


Arrangement: 40-A5
Contact Size: 3/0, 1/4, 1/12
Service rating: A

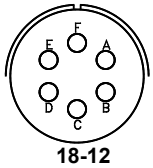
6 CONTACTS



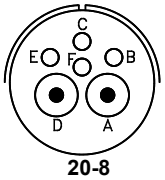
Arrangement: 14S-6
Contact Size: 16
Service rating: I



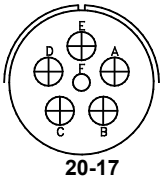
Arrangement: 18-06
Contact Size: 4/12, 2/16
Service rating: A



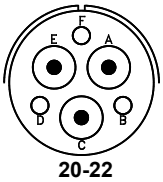
Arrangement: 18-12
Contact Size: 16
Service rating: A



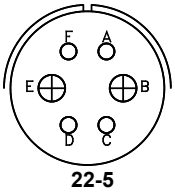
Arrangement: 20-8
Contact Size: 2/8, 4/16
Service rating: I



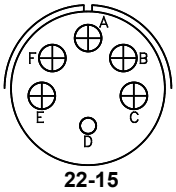
Arrangement: 20-17
Contact Size: 5/12, 1/16
Service rating: A



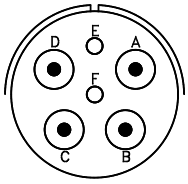
Arrangement: 20-22
Contact Size: 3/8, 3/16
Service rating: A



Arrangement: 22-5
Contact Size: 2/12, 4/16
Service rating: D

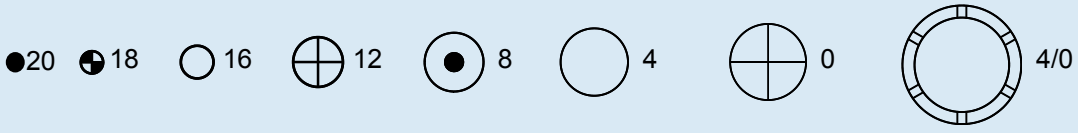


Arrangement: 22-15
Contact Size: 5/12, 1/16
Service rating: D-E; A,B,C,E,F=A



Arrangement: 24-06
Contact Size: 4/8, 2/16
Service rating: D

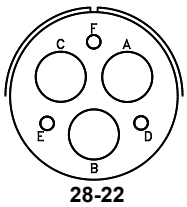
CONTACT LEGEND



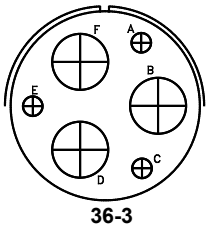
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Glenair Series ITS and ITS-RG
MIL-DTL-5015 Type Reverse Bayonet Connectors
Contact Arrangements
Front View of Pin Insert

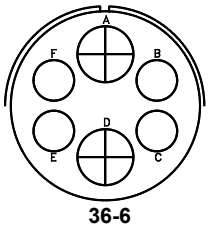
6 CONTACTS



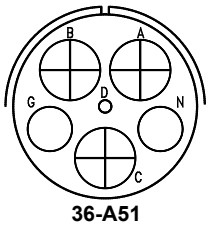
Arrangement	28-22
Contact Size	3/4, 3/16
Service rating	D



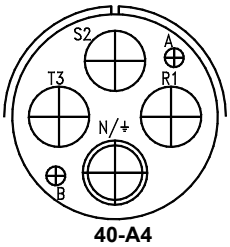
Arrangement	36-3
Contact Size	3/0, 3/12
Service rating	D



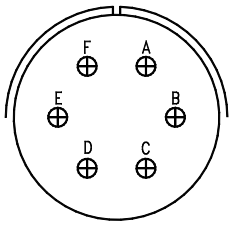
Arrangement	36-6
Contact Size	2/0, 4/4
Service rating	A



Arrangement	36-A51
Contact Size	3/0, 2/4, 1/16
Service rating	D



Arrangement	40-A4
Contact Size	1/0M, 30, 2/12
Service rating	A

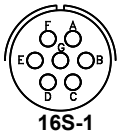


Arrangement	40-A6
Contact Size	12
Service rating	B

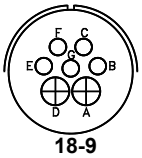
7 CONTACTS



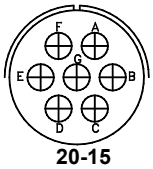
Arrangement	14S-07
Contact Size	16
Service rating	I



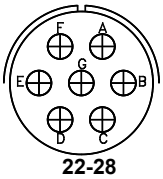
Arrangement	16S-1
Contact Size	16
Service rating	A



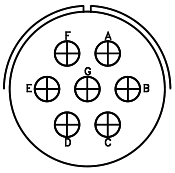
Arrangement	18-9
Contact Size	2/12, 5/16
Service rating	I



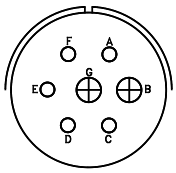
Arrangement	20-15
Contact Size	12
Service rating	A



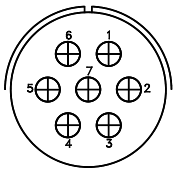
Arrangement	22-28
Contact Size	12
Service rating	A



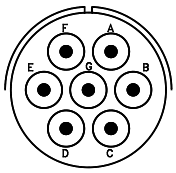
Arrangement	24-2
Contact Size	12
Service rating	D



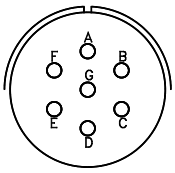
Arrangement	24-3
Contact Size	2/12, 5/16
Service rating	A



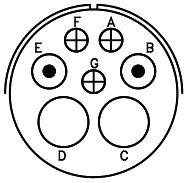
Arrangement	24-07
Contact Size	12
Service rating	D



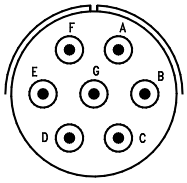
Arrangement	24-10
Contact Size	8
Service rating	A



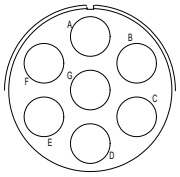
Arrangement	24-27
Contact Size	16
Service rating	E



Arrangement	28-10
Contact Size	2/4, 2/8, 3/12
Service rating	

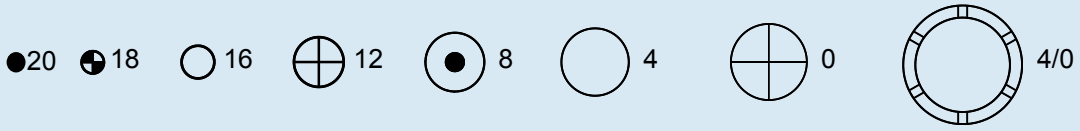


Arrangement	28-70
Contact Size	8
Service rating	A



Arrangement	36-77
Contact Size	4
Service rating	D

CONTACT LEGEND



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

8 CONTACTS

	18-8	20-7	20-9	20-A8	20-B8	22-18
Arrangement	18-8	20-7	20-9	20-A8	20-B8	22-18
Contact Size	1/12, 7/16	16	1/12. 7/16	2/8, 6/16	4/12, 4/16	16
Service rating	A	A,B,H,G=D; C,D,E, F=A	H=D; Bal=A	I	A	A,B,F,G,H=D; C,D,E=A

	22-23	24-6	32-15	40-A8	40-A10
Arrangement	22-23	24-6	32-15	40-A8	40-A10
Contact Size	12	12	2/0, 6/12	4/0, 4/16	4/4, 4/16
Service rating	H=D; Bal=A	A,G,H=D	D	E	D

9 CONTACTS

	20-16	20-18	20-21	40-B8
Arrangement	20-16	20-18	20-21	40-B8
Contact Size	2/12, 7/16	3/12, 6/16	1/12, 8/16	4/0, 4/16
Service rating	A	A	A	E

	20-A9	22-16	22-17	22-20	22-27	24-11
Arrangement	20-A9	22-16	22-17	22-20	22-27	24-11
Contact Size	12	3/12, 6/16	1/12, 8/16	16	1/8, 8/16	3/8, 6/12
Service rating	J=D; Bal-I	A	A=D; Bal=A	A	J=D; Bal=A	A

	28-1	28-84	28-09	32-3	32-689
Arrangement	28-1	28-84	28-09	32-3	32-689
Contact Size	3/8, 6/12	8	4/4, 5/16	1/0, 2/4, 2/12, 4/16	3/4, 6/16
Service rating	A,J,E=D; Bal=A	A	A	D	A

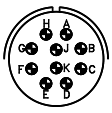
CONTACT LEGEND

●20 ◔18 ◯16 ⊕12 ◉8 ◯4 ⊕0 ◯4/0

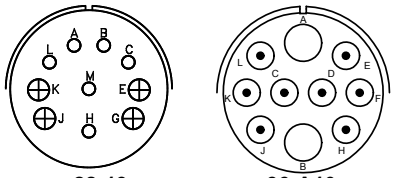
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Glenair Series ITS and ITS-RG
MIL-DTL-5015 Type Reverse Bayonet Connectors
Contact Arrangements
Front View of Pin Insert

10 CONTACTS

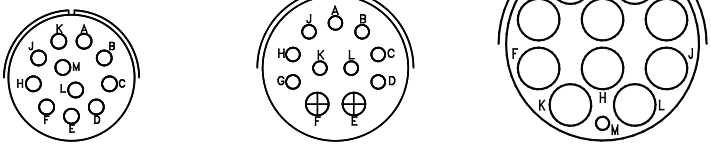


	16-A10	18-1	18-19	22-82	22-A10
Arrangement	16-A10	18-1	18-19	22-82	22-A10
Contact Size	18	16	16	8/16, 2/8	16
Service rating	I	B,C,F,G=A; Bal=I	A	A	A



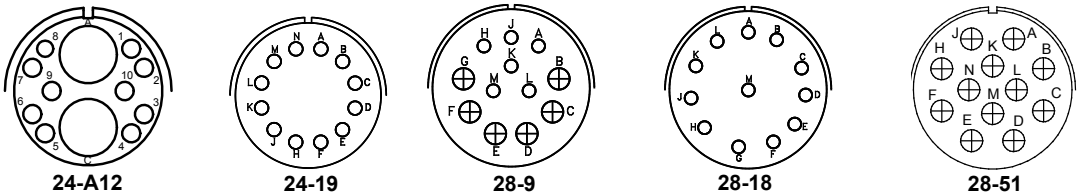
	28-19	36-A10
Arrangement	28-19	36-A10
Contact Size	4/12, 6/16	2/4, 8/8
Service rating	A,B=D; K,M=B; Bal=A	A

11 CONTACTS



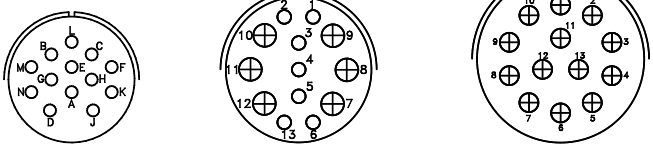
	20-33	24-20	40-67
Arrangement	20-33	24-20	40-67
Contact Size	16	2/12, 9/16	10/4, 1/16
Service rating	A	D	A

12 CONTACTS



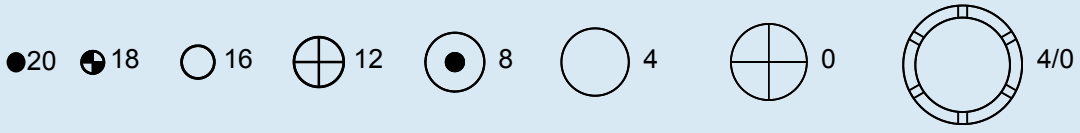
	24-A12	24-19	28-9	28-18	28-51
Arrangement	24-A12	24-19	28-9	28-18	28-51
Contact Size	2/4, 10/16	16	6/12, 6/16	16	12
Service rating	A	A	D	A,B=A; G,H,J,K,L=D; M=C; Bal=I	D

13 CONTACTS



	20-11	24-013	32-013
Arrangement	20-11	24-013	32-013
Contact Size	16	6/12, 7/16	12
Service rating	I	A	D

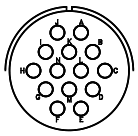
CONTACT LEGEND



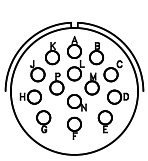
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Glenair Series ITS and ITS-RG
MIL-DTL-5015 Type Reverse Bayonet Connectors
Contact Arrangements
Front View of Pin Insert

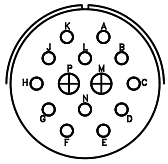
14 CONTACTS



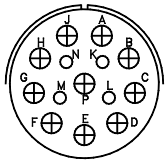
Arrangement	20-27
Contact Size	16
Service rating	A



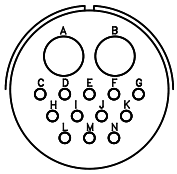
Arrangement	22-19
Contact Size	16
Service rating	A



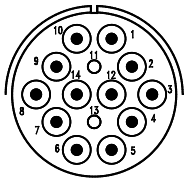
Arrangement	28-2
Contact Size	2/12, 12/16
Service rating	D



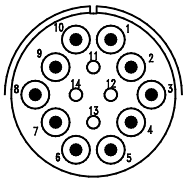
Arrangement	28-20
Contact Size	10/12, 4/16
Service rating	A



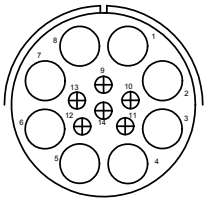
Arrangement	32-9
Contact Size	2/4, 12/16
Service rating	A



Arrangement	36-B78
Contact Size	12/8, 2/16
Service rating	D

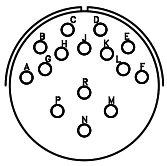


Arrangement	36-D78
Contact Size	10/8, 4/16
Service rating	D



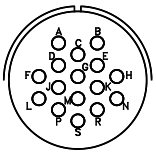
Arrangement	40-A14
Contact Size	6/12, 8/4
Service rating	A

15 CONTACTS

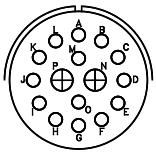


Arrangement	28-17
Contact Size	16
Service rating	M,N,P=D; R=B; Bal=A

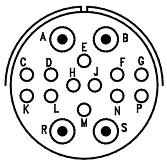
16 CONTACTS



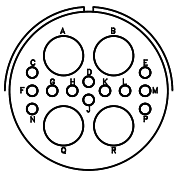
Arrangement	24-5
Contact Size	16
Service rating	A



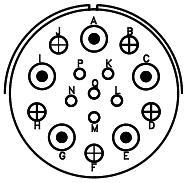
Arrangement	24-7
Contact Size	2/12, 14/16
Service rating	A



Arrangement	28-124
Contact Size	12/16, 4/8
Service rating	A



Arrangement	32-68
Contact Size	4/4, 12/16
Service rating	A

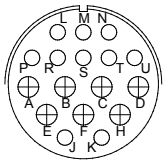


Arrangement	36-14
Contact Size	5/8, 5/12, 6/16
Service rating	D

17 CONTACTS

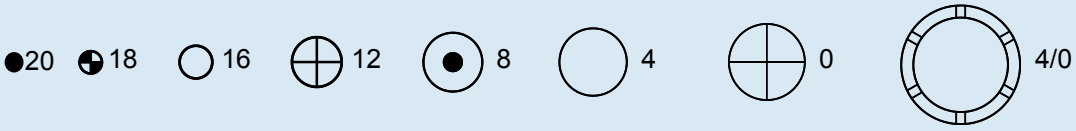


Arrangement	20-29
Contact Size	16
Service rating	A



Arrangement	28-59
Contact Size	7/12, 10/16
Service rating	A

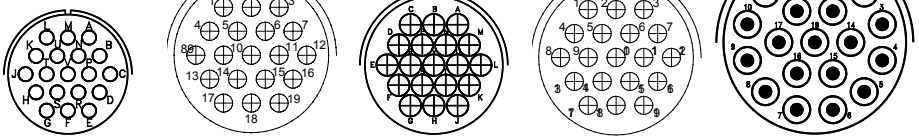
CONTACT LEGEND



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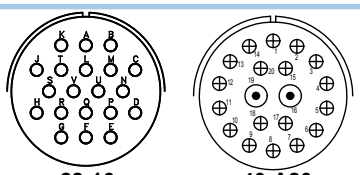
Glenair Series ITS and ITS-RG
MIL-DTL-5015 Type Reverse Bayonet Connectors
Contact Arrangements
Front View of Pin Insert

19 CONTACTS



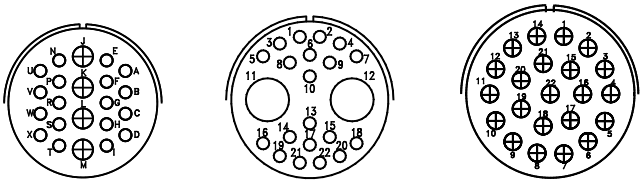
	20-A48	22-14	24-67	32-76	40-B19
Arrangement	20-A48	22-14	24-67	32-76	40-B19
Contact Size	16	16	12	12	8
Service rating	I	A	A	A	A

20 CONTACTS



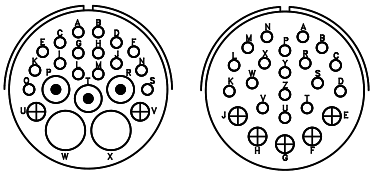
	28-16	40-A20
Arrangement	28-16	40-A20
Contact Size	16	2/8, 18/12
Service rating	A	D

22 CONTACTS



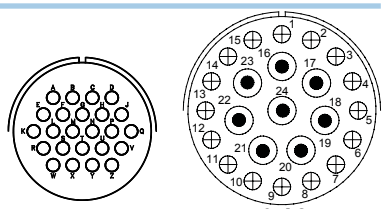
	28-11	32-B22	36-22
Arrangement	28-11	32-B22	36-22
Contact Size	4/12, 18/16	2/4, 20/16	12
Service rating	A	A	D

23 CONTACTS



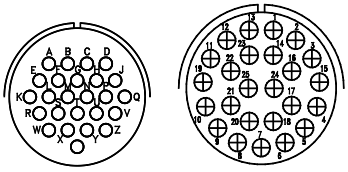
	32-6	32-13
Arrangement	32-6	32-13
Contact Size	2/4, 3/8, 2/12, 16/16	5/12, 18/16
Service rating	A	D

24 CONTACTS



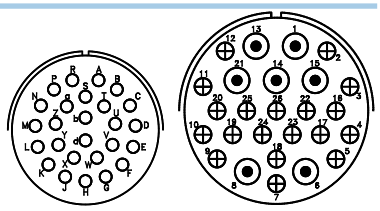
	24-28	40-A24
Arrangement	24-28	40-A24
Contact Size	16	8/8, 16/12
Service rating	I	D

25 CONTACTS



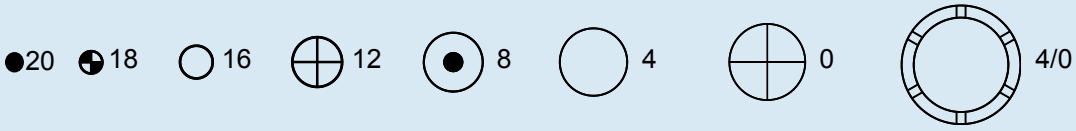
	24-A25	32-A25
Arrangement	24-A25	32-A25
Contact Size	16	12
Service rating	A	A

26 CONTACTS



	28-12	40-26
Arrangement	28-12	40-26
Contact Size	16	7/8, 19/12
Service rating	A	A

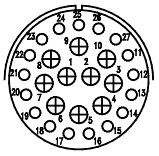
CONTACT LEGEND



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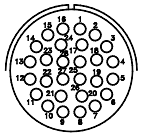
Glenair Series ITS and ITS-RG
MIL-DTL-5015 Type Reverse Bayonet Connectors
Contact Arrangements
Front View of Pin Insert

27 CONTACTS

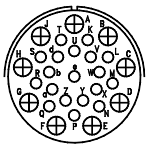


Arrangement	32-A27
Contact Size	10/12, 17/16
Service rating	A

28 CONTACTS

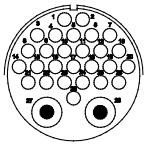


Arrangement	24-A28
Contact Size	16
Service rating	I

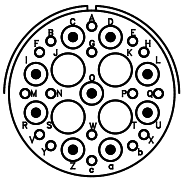


Arrangement	28-A63
Contact Size	9/12, 19/16
Service rating	I

29 CONTACTS

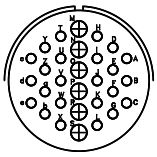


Arrangement	28-A29
Contact Size	2/8, 27/16
Service rating	A

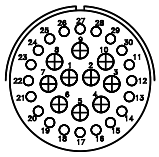


Arrangement	40-10
Contact Size	4/4, 9/8, 16/16
Service rating	A

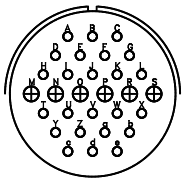
30 CONTACTS



Arrangement	32-8
Contact Size	6/12, 24/16
Service rating	A

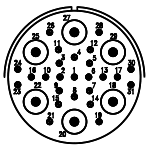


Arrangement	32-A30
Contact Size	10/12, 20/16
Service rating	A

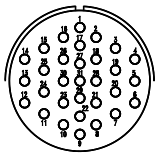


Arrangement	40-1
Contact Size	6/12, 24/16
Service rating	D

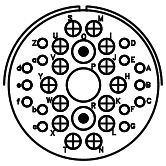
31 CONTACTS



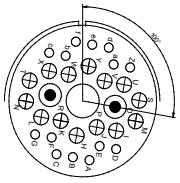
Arrangement	28-A31
Contact Size	6/8, 25/18
Service rating	A



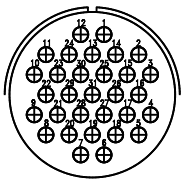
Arrangement	32-31
Contact Size	16
Service rating	A



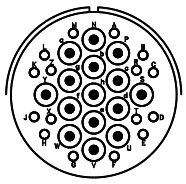
Arrangement	36-9
Contact Size	1/4, 2/8, 14/12, 14/16
Service rating	A



Arrangement	36-18
Contact Size	1/4, 2/8, 14/12
Service rating	A

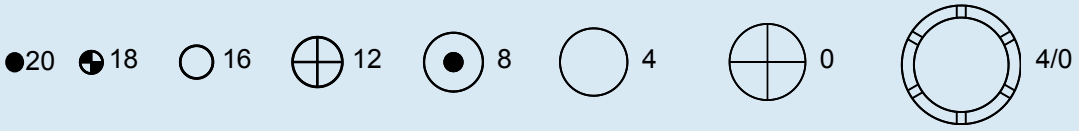


Arrangement	40-31
Contact Size	31/12
Service rating	D



Arrangement	40-A51
Contact Size	5/8, 16/16
Service rating	A

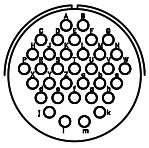
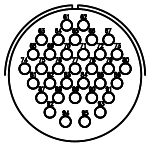
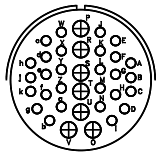
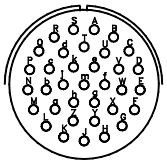
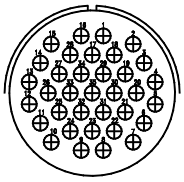
CONTACT LEGEND



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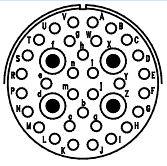
Glenair Series ITS and ITS-RG
MIL-DTL-5015 Type Reverse Bayonet Connectors
Contact Arrangements
Front View of Pin Insert

35 CONTACTS

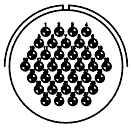
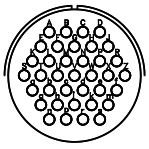
Arrangement	28-15	28-A35	32-7	36-15	40-35
Contact Size	16	16	7/12, 28/16	16	12
Service rating	A	A	A,B,h,j=I; Bal=A	M=D; Bal=A	D

36 CONTACTS



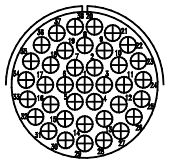
Arrangement	36-35
Contact Size	4/8, 32/16
Service rating	A

37 CONTACTS

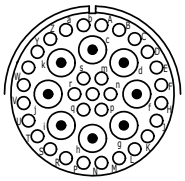
Arrangement	22-A37	28-21
Contact Size	18	16
Service rating	A	A

38 CONTACTS



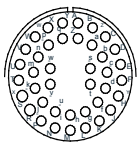
Arrangement	40-A38
Contact Size	12
Service rating	A

39 CONTACTS



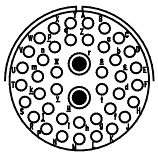
Arrangement	36-54
Contact Size	8/8, 31/16
Service rating	A

40 CONTACTS



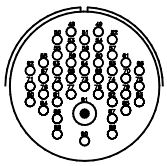
Arrangement	32-A40
Contact Size	40/16
Service rating	A

42 CONTACTS



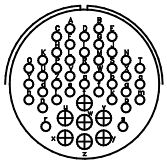
Arrangement	32-59
Contact Size	2/8, 40/16
Service rating	A

44 CONTACTS

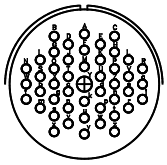


Arrangement	36-74
Contact Size	1/8, 43/16
Service rating	A

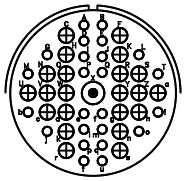
47 CONTACTS



Arrangement	36-7
Contact Size	7/12, 40/16
Service rating	A

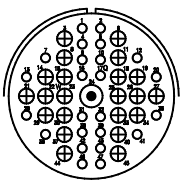


Arrangement	36-8
Contact Size	1/12, 46/16
Service rating	A



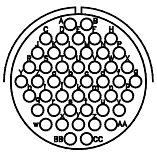
Arrangement	40-9
Contact Size	1/8, 22/12, 24/16
Service rating	A

47 CONTACTS

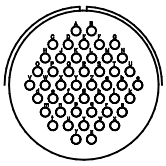


Arrangement	40-47
Contact Size	1/8, 22/12, 24/16
Service rating	A

48 CONTACTS

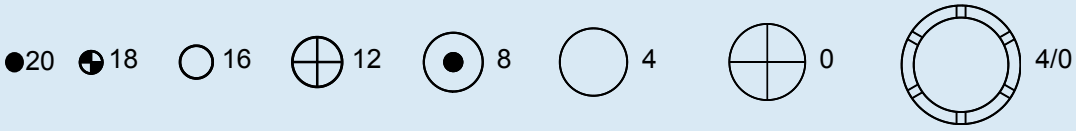


Arrangement	32-A48
Contact Size	16
Service rating	I



Arrangement	36-10
Contact Size	16
Service rating	A

CONTACT LEGEND



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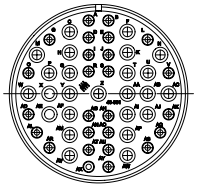
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E-Mail: sales@glenair.com

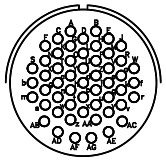
Glenair Series ITS and ITS-RG
MIL-DTL-5015 Type Reverse Bayonet Connectors
Contact Arrangements
Front View of Pin Insert

51 CONTACTS

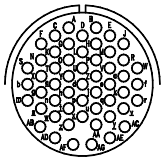


Arrangement	40-951
Contact Size	25/12, 26/16
Service rating	A

54 CONTACTS

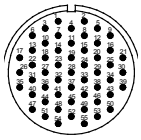


Arrangement	32-22
Contact Size	16
Service rating	A

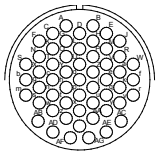


Arrangement	32-88
Contact Size	16
Service rating	A

55 CONTACTS

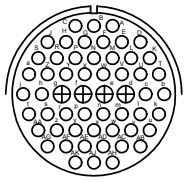


Arrangement	24-A55
Contact Size	20
Service rating	I



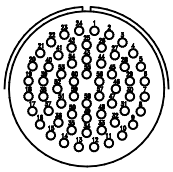
Arrangement	32-A55
Contact Size	16
Service rating	A

56 CONTACTS

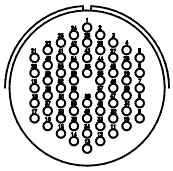


Arrangement	36-66
Contact Size	4/12, 52/16
Service rating	A

60 CONTACTS

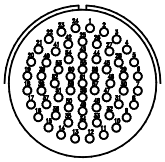


Arrangement	40-53
Contact Size	16
Service rating	A



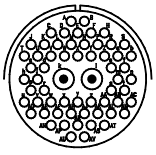
Arrangement	40-62
Contact Size	16
Service rating	A

61 CONTACTS



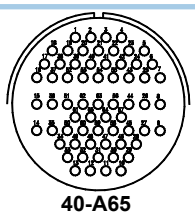
Arrangement	40-63
Contact Size	16
Service rating	A

62 CONTACTS

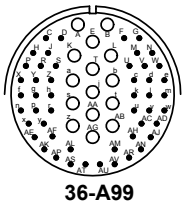


Arrangement	40-A62
Contact Size	2/8, 60/16
Service rating	A

65 CONTACTS

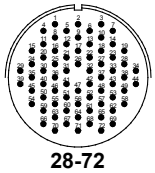


Arrangement	40-A65
Contact Size	16
Service rating	A

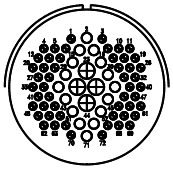


Arrangement	36-A99
Contact Size	15/16, 50/20
Service rating	A

72 CONTACTS

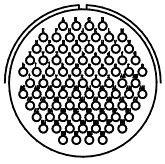


Arrangement	28-72
Contact Size	20
Service rating	I

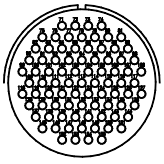


Arrangement	36-A72
Contact Size	4/12, 16/16, 52/18
Service rating	I

85 CONTACTS

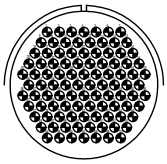


Arrangement	40-56
Contact Size	16
Service rating	A



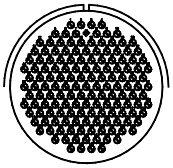
Arrangement	40-A56
Contact Size	16
Service rating	A

100 CONTACTS



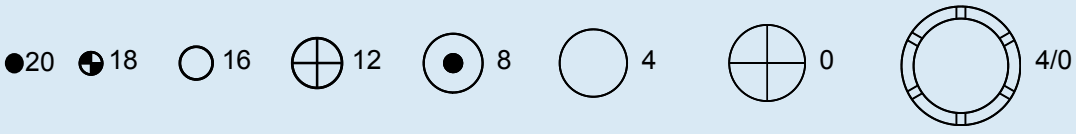
Arrangement	40-100
Contact Size	100/18
Service rating	A

150 CONTACTS



Arrangement	40-150
Contact Size	18
Service rating	I

CONTACT LEGEND



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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		

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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	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				

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

Arrang.	α ±2°			
	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.	α ±2°			
	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.	α ±2°			
	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 α ±2°

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

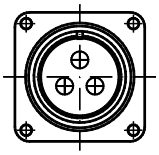
Arrang.	α ±2°			
	W	X	Y	Z
28 - 12	90	180	270	
- 15	80	110	250	280
- 16	80	110	250	280
- 17	80	110	250	280
- 18	70	145	215	290
- 19	80	110	250	280
- 20	80	110	250	280
- 21	80	110	250	280
- 22	70	145	215	290
- A31	35		260	310
- A35	80	110	250	280
- B1				
32 - 1	80	110	250	280
- 2	70	145	215	290
- 3	80	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

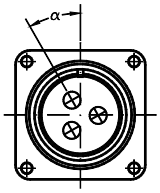
Arrang.	α ±2°			
	W	X	Y	Z
36 - 4	70	145	215	290
- 5		120	240	
- 6	35	110	250	325
- 7	80	110	250	280
- 8	80	110	250	280
- 9	80	125	235	280
- 10	80	125	235	280
- 13	80	110	250	280
- 14	90	180	270	
- 15	60	125	245	305
- 20				
- 22	80	110	250	280
- 74				
- A51	45	135	225	315
- A99	30	135		
40 - 1	65	130	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 α ±2°

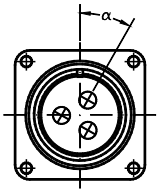
Insert rotation (front view)

Normal Position





Alternate Position with Socket Contacts



Alternate Position with Pin Contacts

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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			
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 α ±2°

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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 α ±2°

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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 α ±2°

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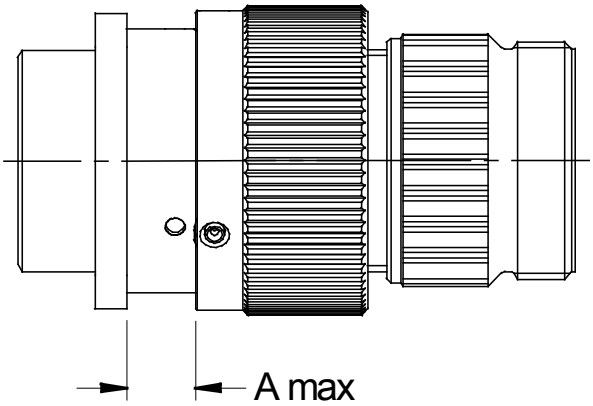
Arrang.	Number of Contacts		Standard Insert	Alternate Position Rotation	Contact Material
	#16	#12			
24-412	12	-	24-19	-	n°6=Cu - n°6=Con
24-56	9	2	24-20	45	E=Al - F=Ch - Bal=Cu
24-57	24	-	24-28	45	A,C,J,V,Y,W,K,E,H,U,S,M=Ch - Bal=Al
24-62	24	-	24-28	-	A,C,E,G=Fe - B,D,F,H=Con - R,T=Ch - S,U=Al - Bal=Cu
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°5=Con - n°7=Cu
24-70	24	-	24-28	-	n°8=Ch - n°8=Al - n°8=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°10=Con - n°10=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°6=Fe - n°6=Con - Bal=Cu
28-78	35	-	28-15	-	A,B=Ch - C,D=Al - Bal=Cu
28-80	20	-	28-16	-	n°10=Fe - n°10=Con
28-81	35	-	28-15	-	n°10=Al - n°10=Ch - Bal=Cu
28-811	35	-	28-15	-	n°17=Ch - n°17=Al - n°1=Dummy
28-82	35	-	28-15	-	n°12=Fe - n°12=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°13=Al - n°13=Ch - n°14=Cu
36-101	48	-	36-10	-	n°24=Al - n°24=Ch
36-102	48	-	36-10	-	n°24=Ch - n°24=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°16=Al - n°16=Ch - n°16=Cu
36-64	48	-	36-10	-	n°24=Fe - n°24=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,AY,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 α ±2°

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



Maximum Panel Thickness

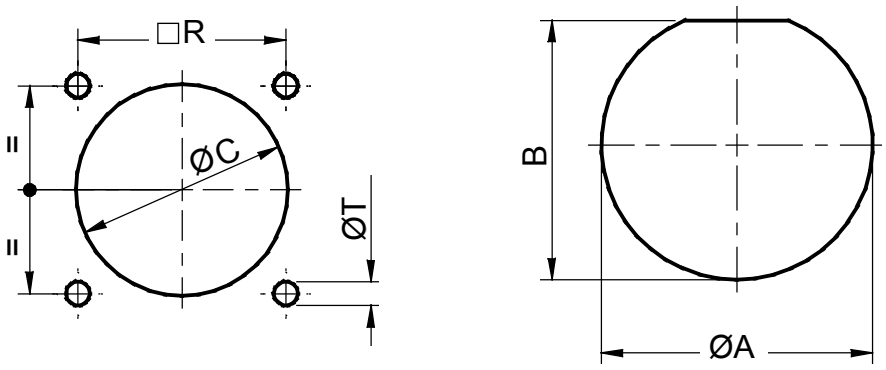
Panel thickness for type 00, 02 connectors used for rear mounting											
Shell size	**10SL**	**14S**	**16S 16**	**18**	**20**	**22**	**24**	**28**	**32**	**36**	**40**
A	3.7	3.7	3.7	3.7	3.7	3.7	5.25	5.25	6.1	6.1	6
Panel thickness for type 02PP, 03, 030 and 038 connectors (with threaded holes)											
Shell size	**10SL**	**14S**	**16S 16**	**18**	**20**	**22**	**24**	**28**	**32**	**36**	**40**
A	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**
A	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
Termal shock	-40°C to 100°C	-55°C to 125°C	-55°C + 125°C	-55°C to 125°C	-65°C to 175°C	**-40°C to 100°C**	**-55°C to 125°C**
Salt spray after termal shock	**24 h**	**500 h**	**500 h**	**48 h**	**1000 h**	**200 h**	**500 h**
Electrical conductivity	**YES**	**NO**	**YES**	**YES**	**YES**	**YES**	**YES**

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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

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Glenair Series ITS
MIL-DTL-5015 Type Reverse Bayonet Connectors
How to Order • Part Number Breakdown

Fire Resistant Inserts
*Add **FR** if flame retardant elastomer is required.*
***Omit** for Standard*

Connector/Backshell Class
***A** - Non-Environmental*
***G**, **GR**, **SP** - Environmental (Includes Wire Sealing Grommet)*
***F**, **R**, **RS** - Environmental (Includes Wire Sealing Grommet and Compression Ring)*

Plug Grounding Fingers
Only for Plugs

Contact Gender
***P** - Pin*
***S** - Socket*

Accessory Description Code

Mod. Code Option

FR	ITS	G	31	00	A	20-27	P	Y	N0	F6	XXX

ITS: *Bayonet Coupling*
ITB: *Bayonet Coupling without Stainless Steel Pins*
***see diagram**

Contact Type
***31** - Solder*
***41** - Crimp*

Shell Size and Insert Arrangement

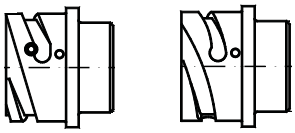
Alternate Insert Rotation
Omit for Standard

For Plating Characteristics See A-26

Connector Shell Styles

***00** - Front Panel Mount Square Flange Receptacle with Accessory Threads*
***01** - In-Line Cylindrical Receptacle with Accessory Threads*
***02** - Front Panel Mount Square Flange Receptacle—No Accessory Threads*
***03** - Rear Panel Mount Square Flange Receptacle—No Accessory Threads*
***030** - Rear Panel Mount Square Flange Receptacle with Accessory Threads*
***038** - Rear Panel Mount Square Flange Receptacle with 90° Backshell*
***05** - Dummy Receptacle*
***06** - Straight Cylindrical Plug Connector with Accessory Threads*
***07** - Rear Panel Mount Jam Nut Receptacle—No Accessory Threads*
***070** - Rear Panel Mount Jam Nut Receptacle with Accessory Threads*
***078** - Rear Panel Mount Jam Nut Receptacle with 90° Backshell*
***08** - Cylindrical Plug Connector with 90° Backshell*
***26** - Square Flange Panel Mount Plug*
***TB** - Solid Contact Bulkhead Feed Through*

*** ITS / ITB Diagram:**



ITS Type **ITB Type**

NOTE: For Stainless Steel Passivated and Marine Bronze versions, please consult factory.

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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

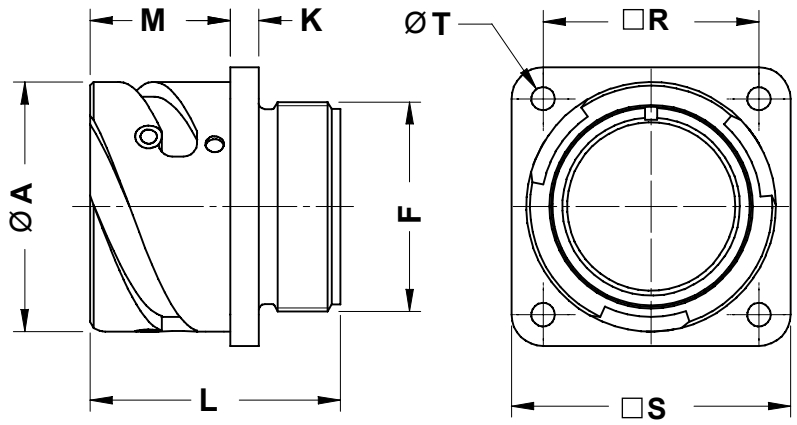
The Glenair Series ITS Connector is a reverse bayonet coupling version of the familiar threaded coupling MIL-DTL-5015. Insert arrangements mimic the 5015 family of configurations, including supported contact sizes, types and arrangements. The Series ITS Connector is interchangeable and intermateable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

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

ITS 31 00 A 20-27 P Y N0 XXX

- Reverse Bayonet Coupling
- Contact Type
  - 31 - Solder
  - 41 - Crimp
- 00 - Front Wall Mount
- Connector Class
  - A - General Duty
- Shell Size and Insert Arrangement (See Contact Arrangements, Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- No Connector Accessory Provided
- Mod Code Option (See Table II)



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.

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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
10 SL	18.2	2.8	24.7	14.3	18.25	25.4	3.2	0.6250 - 24UNEF
14 S	24.5	3.3	24.9	14.5	23.00	30.4	3.2	0.7500 - 20UNEF
16 S	27.2	3.3	24.9	14.5	24.60	32.5	3.2	0.8750 - 20UNEF
16	27.2	3.3	33.9	19.1	24.60	32.5	3.2	0.8750 - 20UNEF
18	30.7	4.0	34.3	19.1	27.00	35.0	3.2	1.0000 - 20UNEF
20	34.0	4.0	34.2	19.1	29.40	38.0	3.2	1.1250 - 18UNEF
22	37.3	4.0	34.3	19.6	31.75	41.0	3.2	1.2500 - 18UNEF
24	40.9	4.0	35.8	20.6	34.90	44.5	3.7	1.3750 - 18UNEF
28	46.7	4.0	35.8	20.7	39.70	50.9	3.7	1.6250 - 18UNEF
32	53.4	4.0	37.4	22.3	44.45	57.0	4.3	1.8750 - 16UN
36	59.6	4.0	37.4	22.3	49.20	63.5	4.3	2.0625 - 16UN
40	65.5	4.0	37.4	22.3	55.55	69.9	4.3	2.3125 - 16UN

TABLE II: MODIFICATION CODES

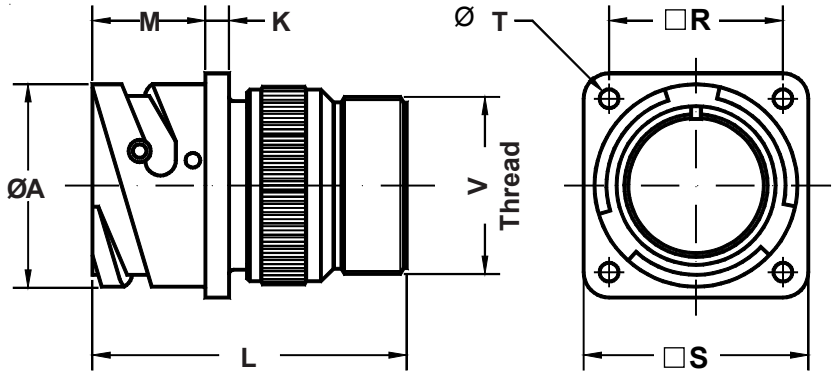
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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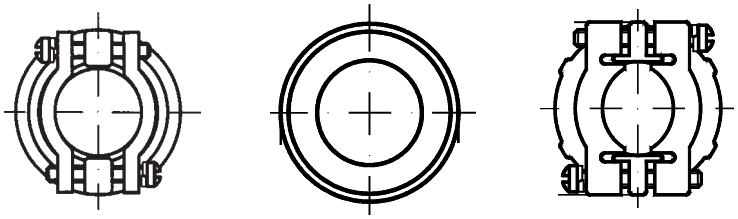
ITS 3100 (A) and ITS 3100 (R)
ITS 4100 (A) and ITS 4100 (R)
Front Panel Mount Square Flange Receptacle Assembly with Backshell for the Attachment of Additional Accessories

ITS 31 00 A 20-27 P Y XXX

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



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

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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

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)

ACCESSORY OPTIONS	
N1	Connector with IT 3057 A cable clamp
N2	Connector with long backshell
N5	Connector with IT 3057 C cable clamp
N12	Connector with IT 3057 A cable clamp and IT 3420 neoprene sleeve
Omit for standard version	

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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

ITS 31 00 A 20-27 P Y BR2722 XXX

- Bayonet Coupling
- Contact Type
  - 31 - Solder
  - 41 - Crimp
- 00 - Front Wall Mount
- Connector/Backshell Class
  - A - Non-Environmental; Supplied with Backshell Only
  - R - Environmental; Supplied with Backshell and Grommet
- Shell Size and Insert Arrangement (See Contact Arrangements, Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- UNI4883 Backshell Adapter Shell Size Designator (See Note 1)
- Mod Code Option (See Table II)

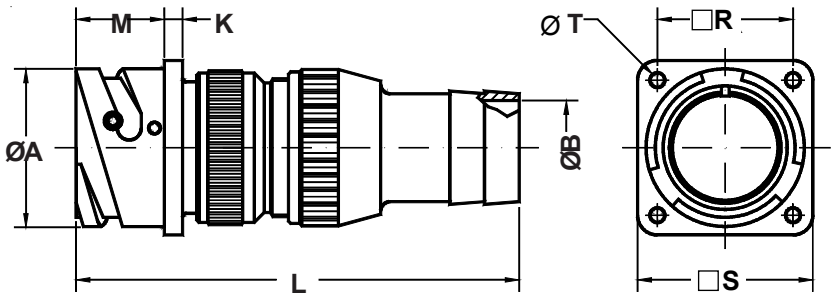


TABLE II: MODIFICATION CODES

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.

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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

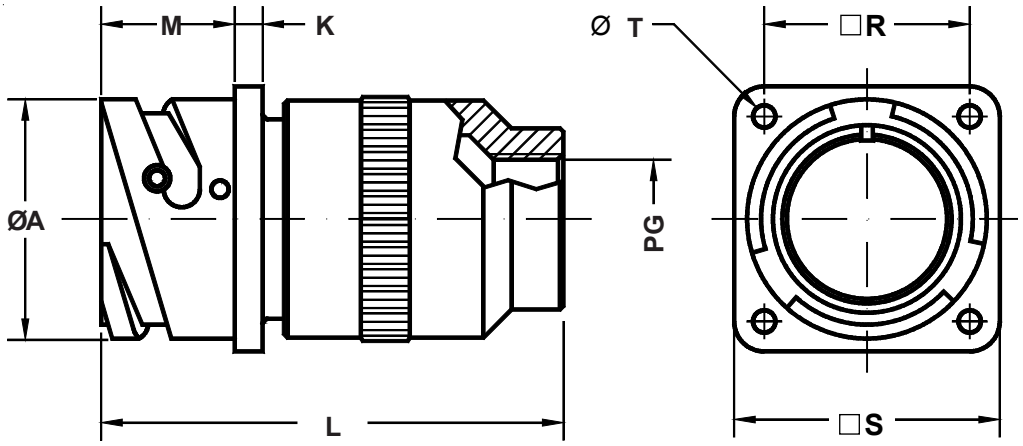
Shell Size	Rubber tube in accordance with UNI 4883 to be used by size: Ø Min	Ø Max	ØB ±0.1	ØQ ±0.2	
10SL	12.0	17.0	10.5		
18	22.0	27.0	20.5		
20 - 22	12.0	17.0	10.5		
20 - 22	22.0	27.0	20.5		
20 - 22	28.0	33.0	31.5		
24 - 28	20.0	25.0	16.5		
24 - 28	22.0	27.0	20.5		
24 - 28	26.0	31.0	22.5		
24 - 28	28.0	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		

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

ITS 31 00 A 20-27 P Y PG16 XXX

- Reverse Bayonet Coupling
- Contact Type
  - 31 - Solder
  - 41 - Crimp
- 00 - Front Wall Mount
- Connector/Backshell Class
  - A - Non-Environmental; Supplied with Backshell Only
- Shell Size and Insert Arrangement (See Contact Arrangements, Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- PG Thread
- Mod Code Option (See Table II)



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.

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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)

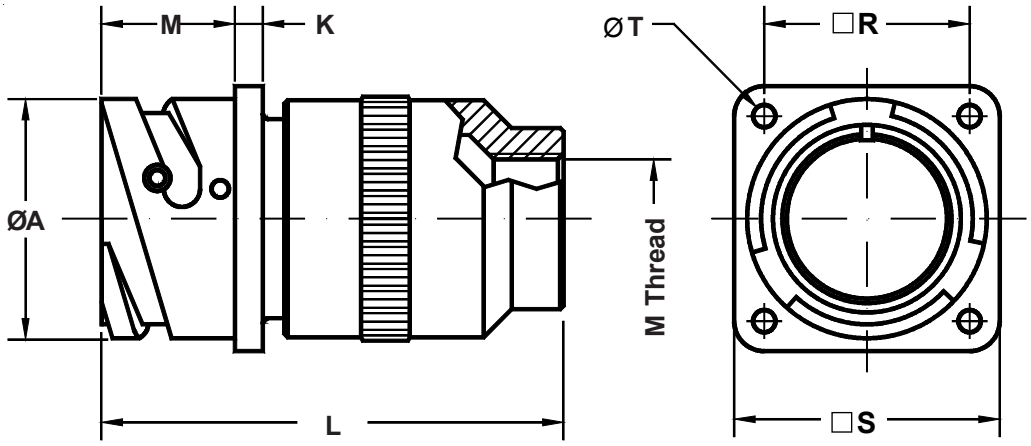
B

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

ITS 31 00 A 20-27 P Y FM25 XXX

- ITS — Reverse Bayonet Coupling
- 31 — Contact Type
  - 31 - Solder
  - 41 - Crimp
- 00 - Front Wall Mount
- A — Connector/Backshell Class
  - A - Non-Environmental; Supplied with Backshell Only
- 20-27 — Shell Size and Insert Arrangement (See Contact Arrangements, Section A)
- P — Contact Gender
  - P - Pin
  - S - Socket
- Y — Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- FM25 — Metric Thread Size
- XXX — Mod Code Option (See Table II)



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.

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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
10 SL	18.2	2.8	50.0	14.3	M12x1,5	18.25	25.4	3.2
14 S	24.5	3.3	52.5	14.5	M16x1,5	23.00	30.4	3.2
16 S	27.2	3.3	52.5	14.5	M16x1,5	24.60	32.5	3.2
16	27.2	3.3	61.0	19.1	M16x1,5	24.60	32.5	3.2
18	30.7	4.0	66.5	19.1	M20x1,5	27.00	35.0	3.2
20	34.0	4.0	69.5	19.1	M25x1,5	29.40	38.0	3.2
22	37.3	4.0	69.5	19.6	M25x1,5	31.75	41.0	3.2
24	40.9	4.0	71.5	20.6	M32x1,5	34.90	44.5	3.7
28	46.7	4.0	76.5	20.7	M32x1,5	39.70	50.9	3.7
32	53.4	4.0	82.5	22.3	M36x1,5	44.45	57.0	4.3
36	59.6	4.0	87.5	22.3	M40x1,5	49.20	63.5	4.3
40	65.5	4.0	92.5	22.3	M48x1,5	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)

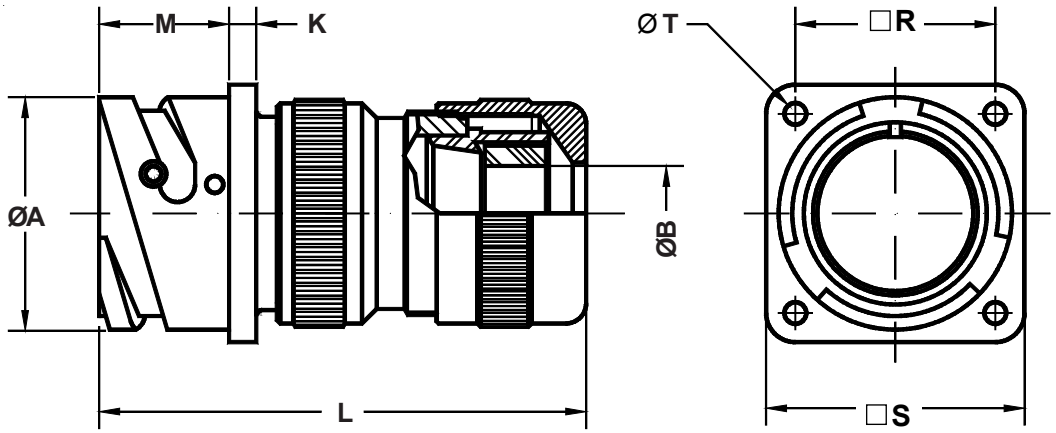
B

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

ITS 31 00 A 20-27 P Y PHM11 XXX

- ITS — Reverse Bayonet Coupling
- 31 — Contact Type
  - 31 - Solder
  - 41 - Crimp
- 00 - Front Wall Mount
- A — Connector/Backshell Class
  - A - Non-Environmental; Supplied with Backshell Only
  - R - Environmental; Supplied with Backshell and Grommet
- 20-27 — Shell Size and Insert Arrangement (See Contact Arrangements, Section A)
- P — Contact Gender
  - P - Pin
  - S - Socket
- Y — Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- PHM11 — PHM Size
- XXX — Mod Code Option (See Table II)



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.

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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
10 SL	11	18.2	2–11	2.8	60	14.3	18.25	25.4	3.2
14 S	11	24.5	2–11	3.3	60	14.5	23.00	30.4	3.2
16 S	11	27.2	2–11	3.3	60	14.5	24.60	32.5	3.2
16	11	27.2	2–11	3.3	70	19.1	24.60	32.5	3.2
18	11 / 18	30.7	2–11 / 2–16.5	4.0	70	19.1	27.00	35.0	3.2
20	11 / 18	34.0	2–11 / 2–16.5	4.0	70	19.1	29.40	38.0	3.2
22	18	37.3	2–16.5	4.0	70	19.6	31.75	41.0	3.2
24	18 / 22 / 24	40.9	2–16.5 / 15–20 / 19–24	4.0	80	20.6	34.90	44.5	3.7
28	18 / 22 / 24	46.7	2–16.5 / 15–20 / 19–24	4.0	80	20.7	39.70	50.9	3.7
32	22 / 24	53.4	15–20 / 19–24	4.0	80	22.3	44.45	57.0	4.3
36	35	59.6	23–35	4.0	95	22.3	49.20	63.5	4.3
40	35	65.5	23–35	4.0	95	22.3	55.55	69.9	4.3

B

TABLE II: MODIFICATION CODES

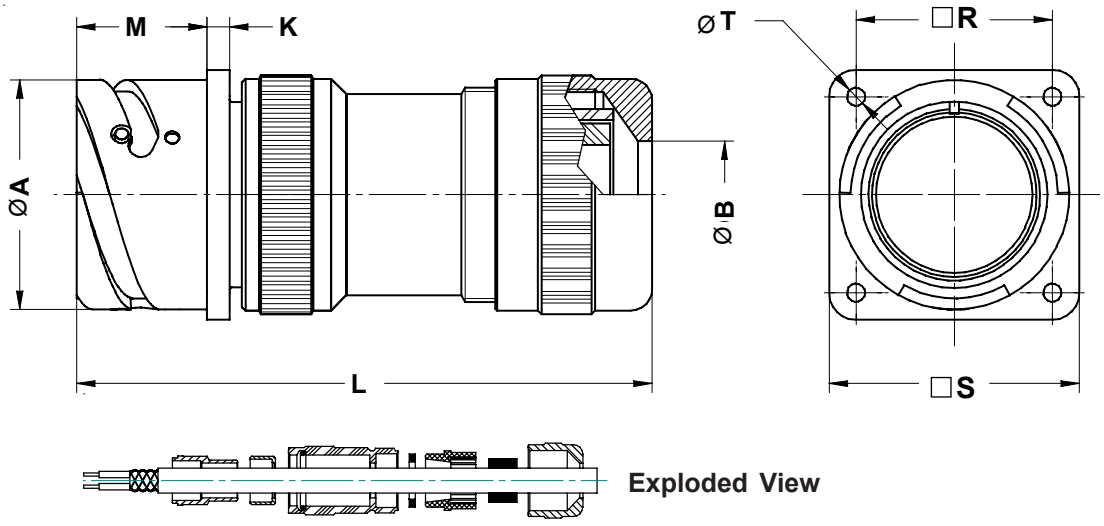
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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

ITS 31 00 A 20-27 P Y PHM11EMI67 XXX

- ITS — Reverse Bayonet Coupling
- 31 — Contact Type
  - 31 - Solder
  - 41 - Crimp
- 00 - Front Wall Mount
- A — Connector/Backshell Class
  - A - Non-Environmental; Supplied with Backshell Only
- 20-27 — Shell Size and Insert Arrangement (See Contact Arrangements, Section A)
- P — Contact Gender
  - P - Pin
  - S - Socket
- Y — Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- PHM11EMI67 — PHM Size
- XXX — Mod Code Option (See Table II)



Exploded View

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.

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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
10 SL	11	18.2	2–11	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

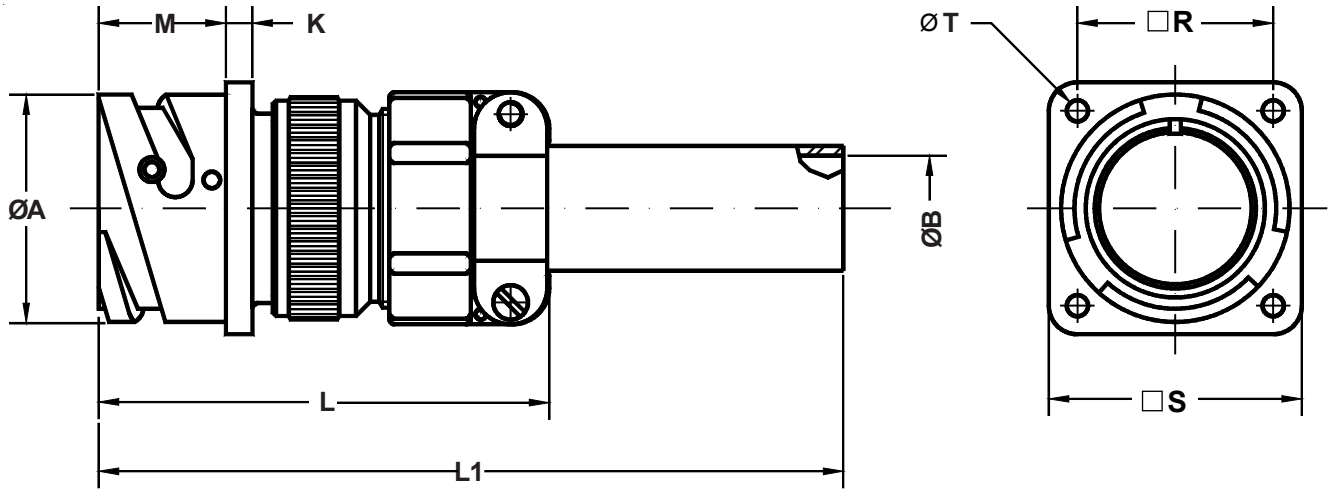
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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

ITS 31 00 F 20-27 P Y XXX

- ITS — Reverse Bayonet Coupling
- 31 — Contact Type
  - 31 - Solder
  - 41 - Crimp
- 00 - Front Wall Mount
- F — Connector/Backshell Class
  - F- Environmental; Supplied with Grommet, Cable Clamp and Neoprene Bushing
- 20-27 — Shell Size and Insert Arrangement (See Contact Arrangements, Section A)
- P — Contact Gender
  - P - Pin
  - S - Socket
- Y — Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- XXX — Mod Code Option (See Table II)



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.

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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

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

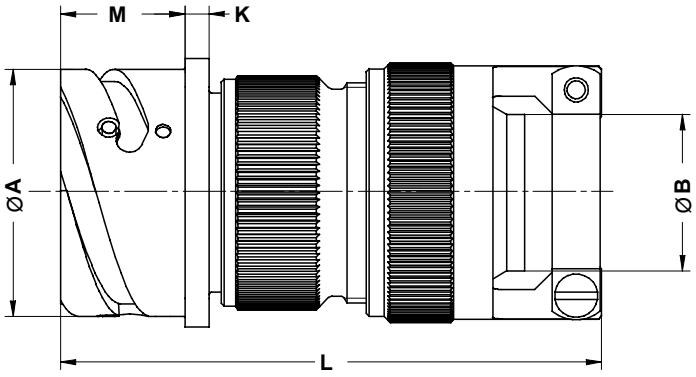
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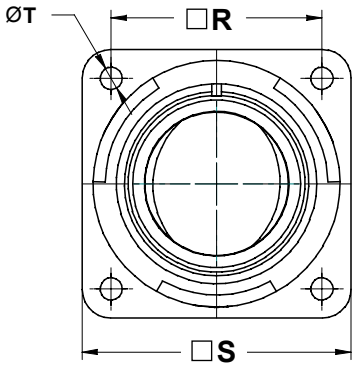
ITS 3100 A (N5) and ITS 3100 R (N5)
ITS 4100 A (N5) and ITS 4100 R (N5)
Front Panel Mount Square Flange Receptacle Assembly with Class C (Environmental) IT3057 Cable Clamp

ITS 31 00 A 20-27 P Y N5 XXX

- Reverse Bayonet Coupling
- Contact Type
  - 31 - Solder
  - 41 - Crimp
- 00 - Front Wall Mount
- Connector/backshell Class
  - A - Non-Environmental; Supplied with Backshell Only
  - R - Environmental; Supplied with Backshell and Grommet
- Shell Size and Insert Arrangement (See Contact Arrangements, Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- Class “C” Environmental Cable Clamp
- Mod Code Option (See Table II)

B





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.

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TABLE I: DIMENSIONS

Shell Size	ØA +0 -0.1	ØB Open	ØB Closed	K ±0.2	L Max.	M +0.2 -0	R ±0.1	S +0.2	ØT +0.1 -0
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)

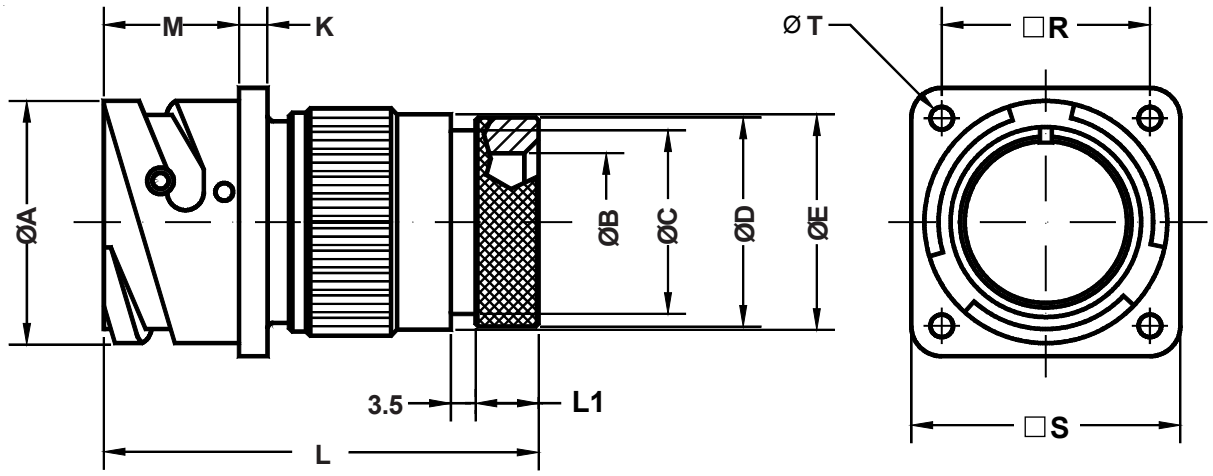
B

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

ITS 31 00 G 20-27 P Y XXX

- Reverse Bayonet Coupling
- Contact Type
  - 31 - Solder
  - 41 - Crimp
- 00 - Front Wall Mount
- Connector/Backshell Class
  - G - Environmental; Supplied with Grommet and Backshell for Heat Shrink Tubing
- Shell Size and Insert Arrangement (See Contact Arrangements, Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- Mod Code Option (See Table II)



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.

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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

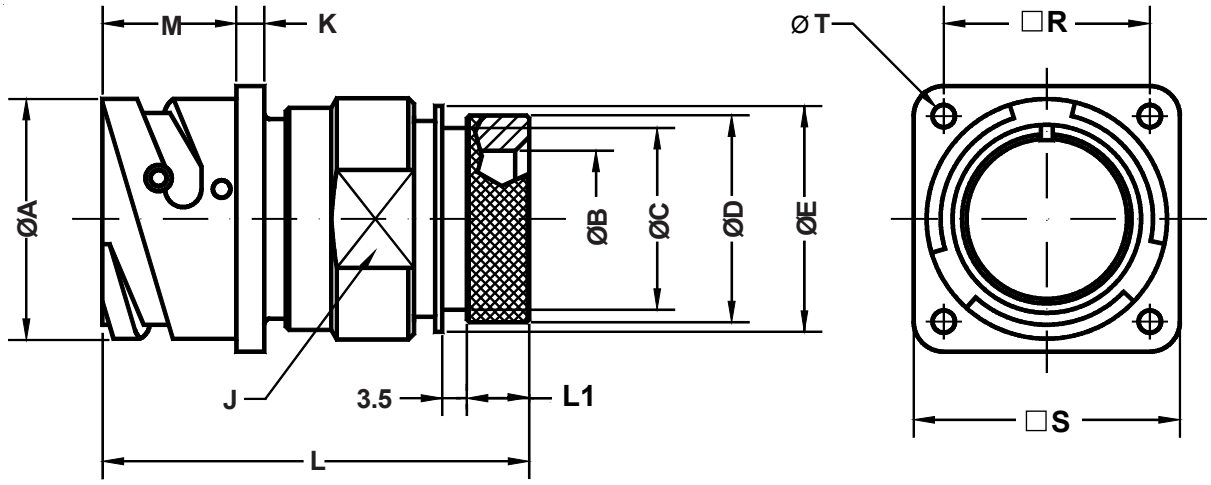
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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

ITS 31 00 GR 20-27 P Y XXX

- ITS — Reverse Bayonet Coupling
- 31 — Contact Type
  - 31 - Solder
  - 41 - Crimp
- 00 - Front Wall Mount
- GR — Connector/Backshell Class
  - GR - Environmental; Supplied with Backshell for Heat-Shrink Tubing and Rotating Clamp Nut
- 20-27 — Shell Size and Insert Arrangement (See Contact Arrangements, Section A)
- P — Contact Gender
  - P - Pin
  - S - Socket
- Y — Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- XXX — Mod Code Option (See Table II)



Application Notes:

1. Front mount square flange receptacle assembly with backshell for heat shrink tubing. Rotating coupling nut supplied. Through mounting holes.
2. Conector/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.

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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

TABLE II: MODIFICATION CODES

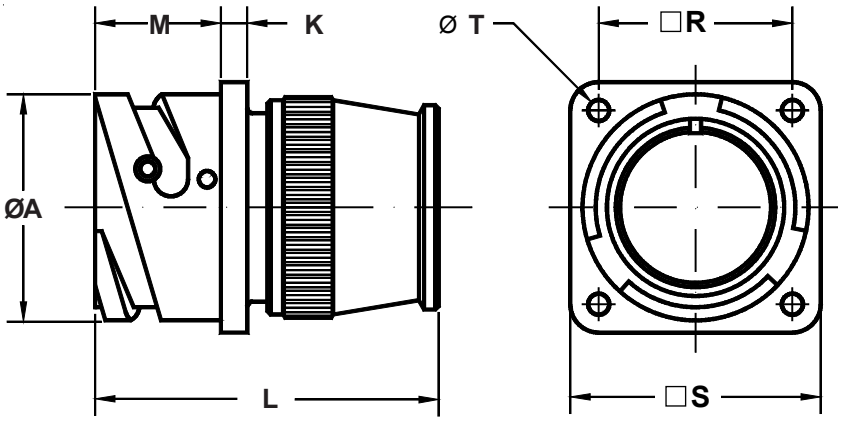
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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

ITS 31 00 RS 20-27 P Y XXX

- Reverse Bayonet Coupling
- Contact Type
  - 31 - Solder
  - 41 - Crimp
- 00 - Front Wall Mount
- Connector/Backshell Class
  - RS - Environmental; Supplied with Grommet and Lipped Backshell
- Shell Size and Insert Arrangement (See Contact Arrangements, Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- Mod Code Option (See Table II)



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.

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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

TABLE II: MODIFICATION CODES

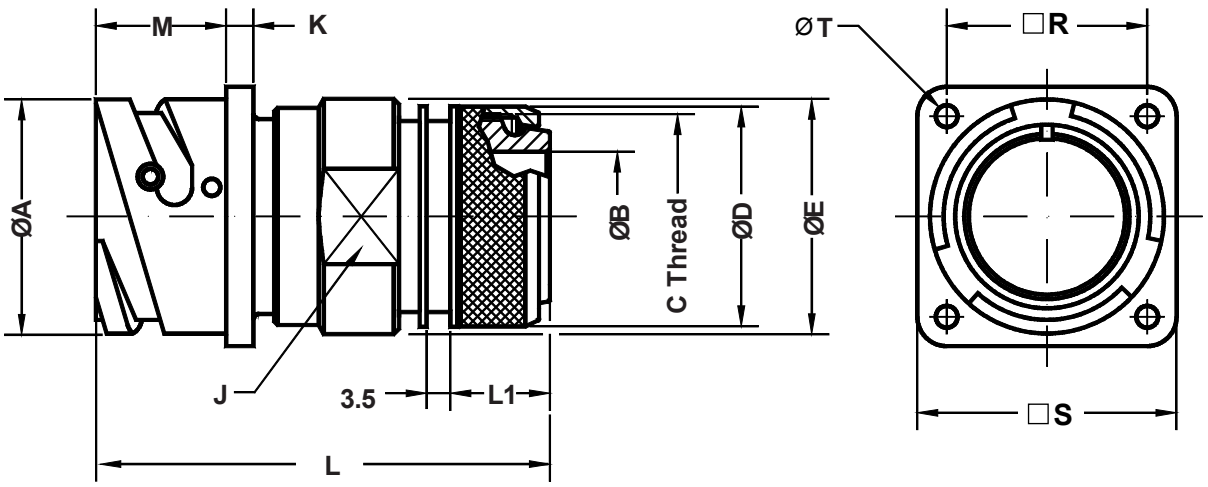
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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

ITS 31 00 SP 20-27 P Y XXX

- Reverse Bayonet Coupling
- Contact Type
  - 31 - Solder
  - 41 - Crimp
- 00 - Front Wall Mount
- Connector/Backshell Class
  - SP - Environmental; Supplied with Grommet and EMI/RFI Backshell
- Shell Size and Insert Arrangement (See Contact Arrangements, Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- Mod Code Option (See Table II)



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.

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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

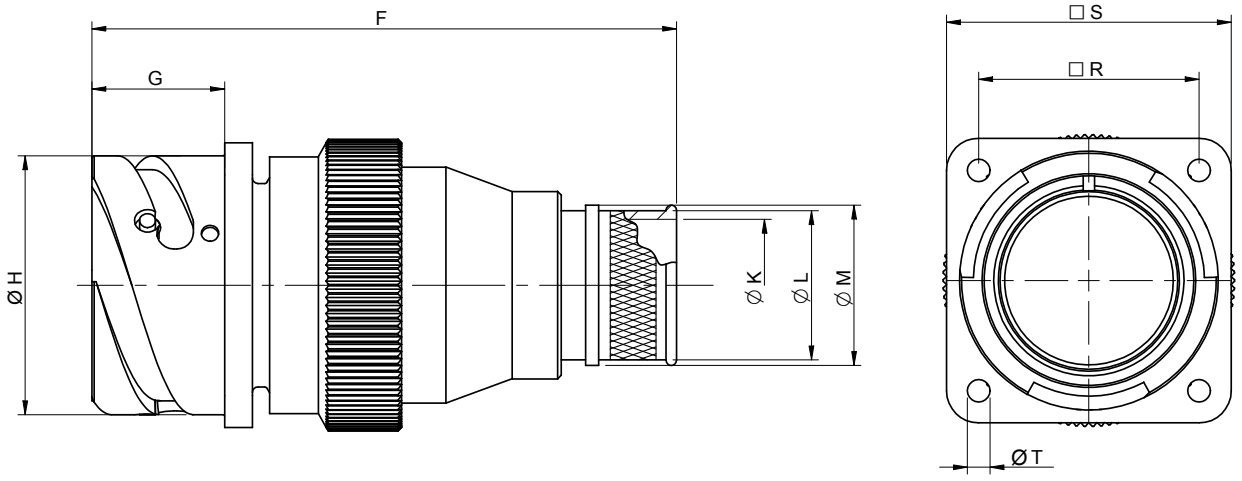
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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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

- Reverse Bayonet Coupling
- Contact Type
  - 31 - Solder
  - 41 - Crimp
- 00 - Front Wall Mount
- Connector/Backshell Class
  - A - Non-Environmental; Supplied with Backshell Only
  - R -Environmental; Supplied with Backshell and Grommet
- Shell Size and Insert Arrangement (See Contact Arrangements, Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- BAND-IT Backshell
- Mod Code Option (See Table II)



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.

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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

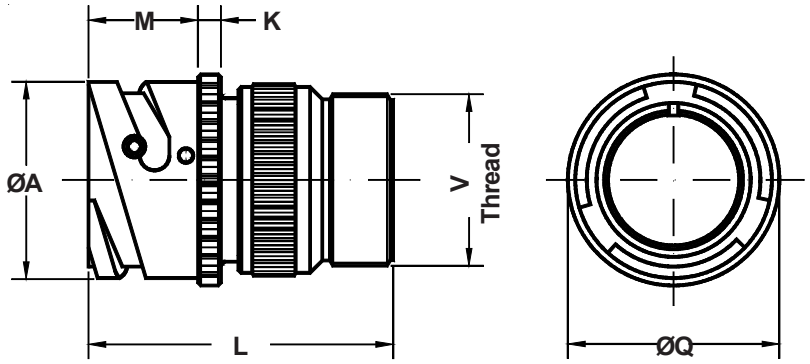
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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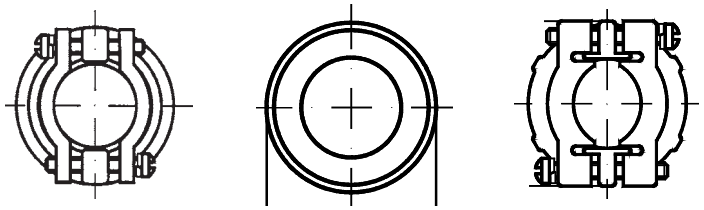
ITS 3101 (A) and ITS 4101 (R)
In-Line Cylindrical Receptacle with Accessory Backshell and a Selection of Cable Clamps

ITS 31 01 A 20-27 P Y XXX

- Reverse Bayonet Coupling
- Contact Type
  - 31 - Solder
  - 41 - Crimp
- 01 - In-Line
- Connector/Backshell Class
  - A - Non-Environmental; Supplied with Backshell Only
  - R - Environmental; Supplied with Backshell and Wire Sealing Grommet
- Shell Size and Insert Arrangement (See Contact Arrangements, Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- Mod Code Option (See Table II)



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



IT 3057 C Cable Clamp | **IT 3420 Neoprene Sleeve** | **IT 3057 A Cable Clamp**

Application Notes:

1. In-line cylindrical receptacle 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.

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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

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)

ACCESSORY OPTIONS	
N1	Connector with IT 3057 A cable clamp
N2	Connector with long backshell
N5	Connector with IT 3057 C cable clamp
N12	Connector with IT 3057 A cable clamp and IT 3420 neoprene sleeve
Omit for standard version	

B

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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

ITS 31 01 A 20-27 P Y BR2722 XXX

- Reverse Bayonet Coupling
- Contact Type
  - 31 - Solder
  - 41 - Crimp
- 01 - In-Line
- Connector/Backshell Class
  - A - Non-Environmental; Supplied with Backshell Only
  - R -Environmental; Supplied with Backshell and Grommet
- Shell Size and Insert Arrangement (See Contact Arrangements, Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- UNI4883 Backshell Adapter Shell Size Designator (See Note 1)
- Mod Code Option (See Table II)

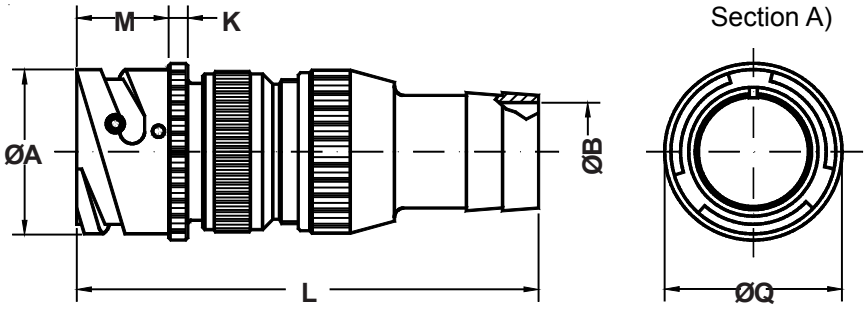


TABLE II: MODIFICATION CODES

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. In-line receptacle with rear-end 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 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.

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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

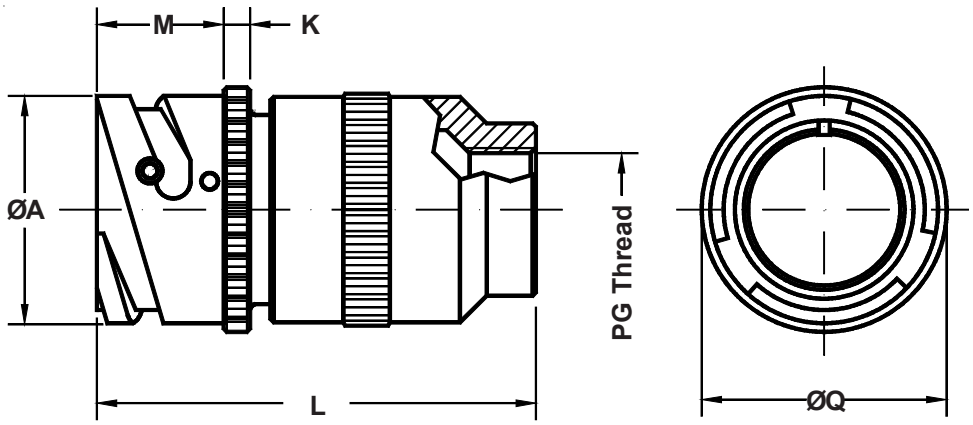
Shell Size	Rubber tube in accordance with UNI 4883 to be used by size: Ø Min	Ø Max	ØB ±0.1	ØQ ±0.2	
10SL	12.0	17.0	10.5		
18	22.0	27.0	20.5		
20 - 22	12.0	17.0	10.5		
20 - 22	22.0	27.0	20.5		
20 - 22	28.0	33.0	31.5		
24 - 28	20.0	25.0	16.5		
24 - 28	22.0	27.0	20.5		
24 - 28	26.0	31.0	22.5		
24 - 28	28.0	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		

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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

ITS 31 01 A 20-27 P Y PG16 XXX

- Reverse Bayonet Coupling
- Contact Type
  - 31 - Solder
  - 41 - Crimp
- 01 - In-Line
- Connector/Backshell Class
  - A - Non-Environmental; Supplied with Backshell Only
  - R - Environmental; Supplied with Backshell and Grommet
- Shell Size and Insert Arrangement (See Contact Arrangements, Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- PG Thread
- Mod Code Option (See Table II)



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.

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TABLE I: DIMENSIONS

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

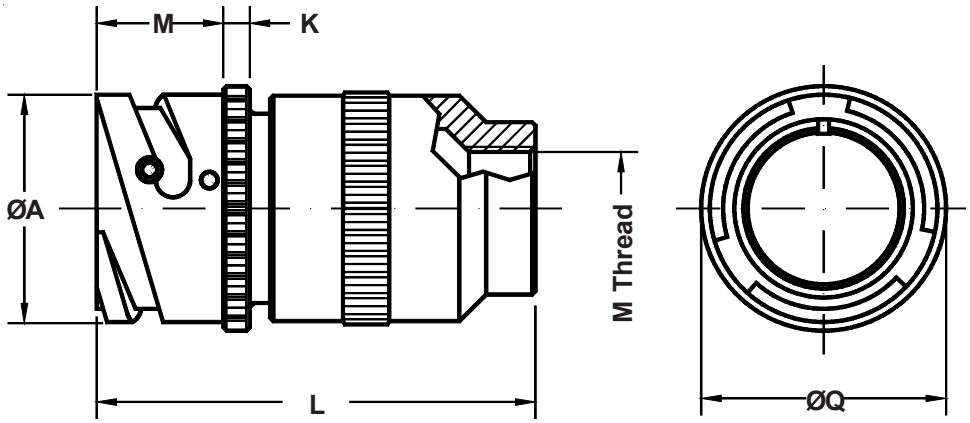
B

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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

ITS 31 01 A 20-27 P Y M25 XXX

- Reverse Bayonet Coupling
- Contact Type
  - 31 - Solder
  - 41 - Crimp
- 01 - In-Line
- Connector/Backshell Class
  - A - Non-Environmental; Supplied with Backshell Only
  - R - Environmental; Supplied with Backshell and Grommet
- Shell Size and Insert Arrangement (See Contact Arrangements, Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- Metric Thread
- Mod Code Option (See Table II)



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.

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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

TABLE II: MODIFICATION CODES

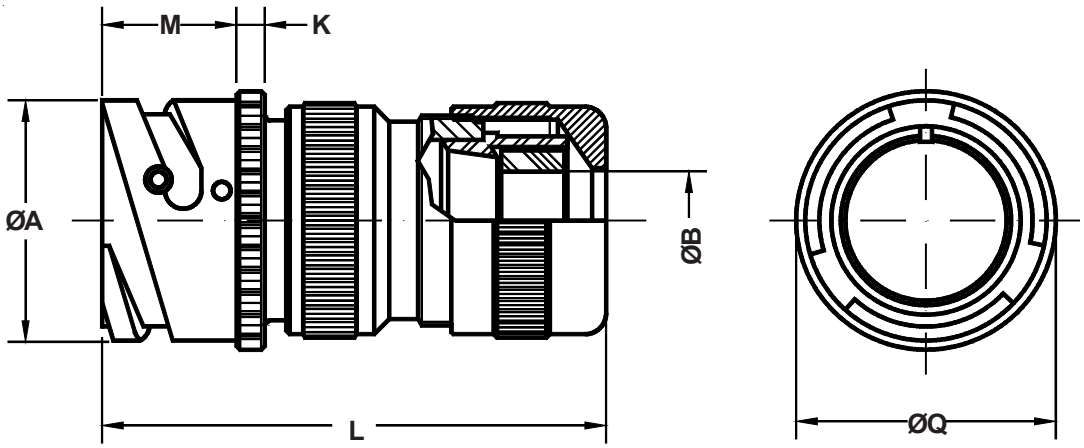
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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

ITS 31 01 A 20-27 P Y PHM11 XXX

- ITS — Reverse Bayonet Coupling
- 31 — Contact Type
  - 31 - Solder
  - 41 - Crimp
- 01 - In-Line
- A — Connector/Backshell Class
  - A - Non-Environmental; Supplied with Backshell Only
  - R - Environmental; Supplied with Backshell and Grommet
- 20-27 — Shell Size and Insert Arrangement (See Contact Arrangements, Section A)
- P — Contact Gender
  - P - Pin
  - S - Socket
- Y — Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- PHM11 — PHM Size
- XXX — Mod Code Option (See Table II)



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.

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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	11	18.2	2–11	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

TABLE II: MODIFICATION CODES

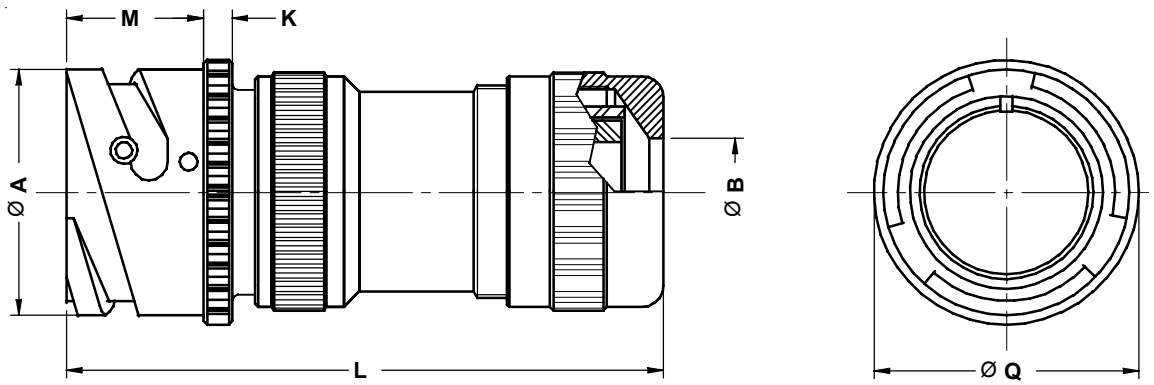
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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

ITS 31 01 A 20-27 P Y PHM11EM167 XXX

- ITS — Reverse Bayonet Coupling
- 31 — Contact Type
  - 31 - Solder
  - 41 - Crimp
- 01 - In-Line
- A — Connector/Backshell Class
  - A - Non-Environmental; Supplied with Backshell Only
- 20-27 — Shell Size and Insert Arrangement (See Contact Arrangements, Section C)
- P — Contact Gender
  - P - Pin
  - S - Socket
- Y — Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- PHM11EM167 — PHM Size
- XXX — Mod Code Option (See Table II)





Exploded View

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.

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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	11	18.2	2–11	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							

TABLE II: MODIFICATION CODES

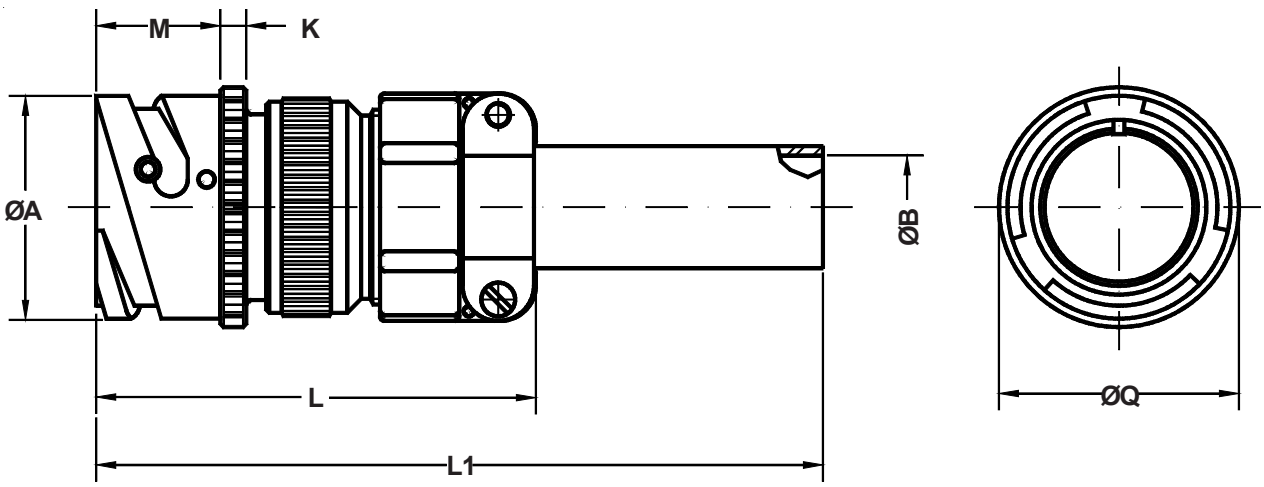
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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

ITS 31 01 F 20-27 P Y XXX

- Reverse Bayonet Coupling
- Contact Type
  - 31 - Solder
  - 41 - Crimp
- 01 - In-Line
- Connector/Backshell Class
  - F- Environmental; Supplied with Gromnmet, Cable Clamp and Neoprene Bushing
- Shell Size and Insert Arrangement (See Contact Arrangements, Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- Mod Code Option (See Table II)



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.

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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

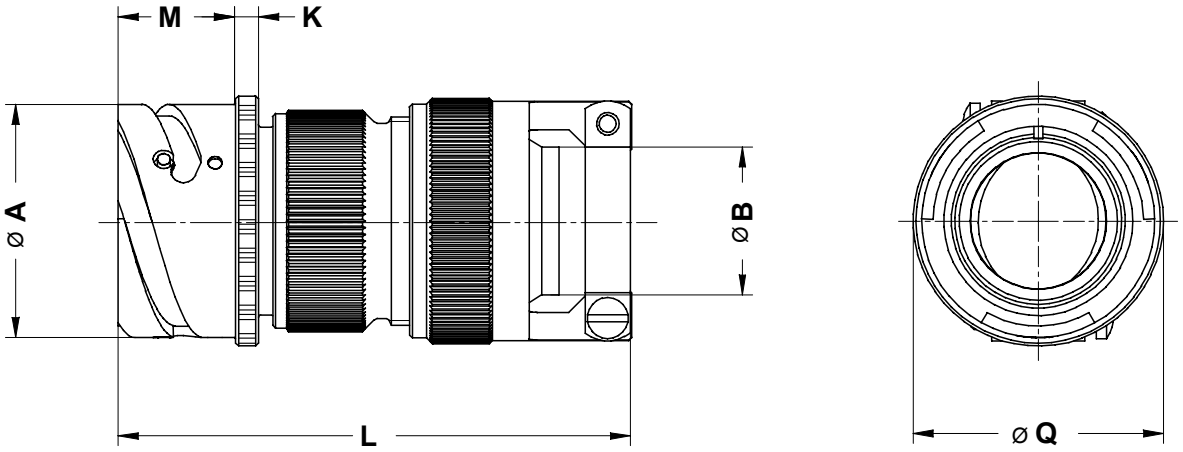
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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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

ITS 31 01 A 20-27 P Y N5 XXX

- ITS — Reverse Bayonet Coupling
- 31 — Contact Type
  - 31 - Solder
  - 41 - Crimp
- 01 - In-Line
- A — Connector/Backshell Class
  - A - Non-Environmental; Supplied with Backshell Only
  - R - Environmental; Supplied with Backshell and Wire Sealing Grommet
- 20-27 — Shell Size and Insert Arrangement (See Contact Arrangements, Section A)
- P — Contact Gender
  - P - Pin
  - S - Socket
- Y — Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- N5 — Class “C” Environmental Cable Clamp
- XXX — Mod Code Option (See Table II)



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.

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TABLE I: DIMENSIONS

Shell Size	ØA +0 -0.1	ØB Open	ØB Closed	K ±0.2	L Max.	M +0.2 -0	ØQ ±0.1
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

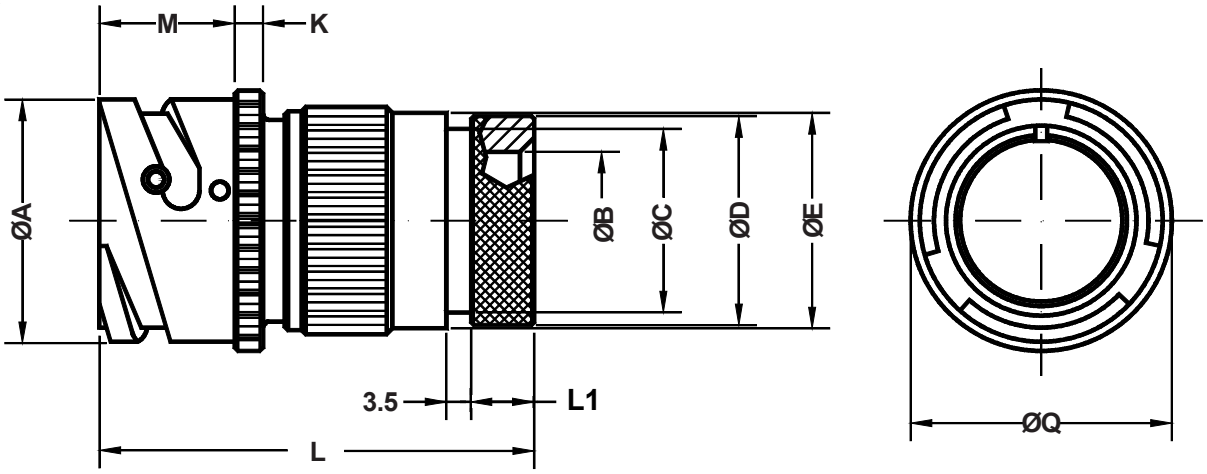
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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

ITS 31 01 G 20-27 P Y XXX

- Reverse Bayonet Coupling
- Contact Type
  - 31 - Solder
  - 41 - Crimp
- 01 - In-Line
- Connector/Backshell Class
  - G - Environmental; Supplied with Grommet and Backshell for Heat Shrink Tubing
- Shell Size and Insert Arrangement (See Contact Arrangements, Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- Mod Code Option (See Table II)



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.

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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

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)

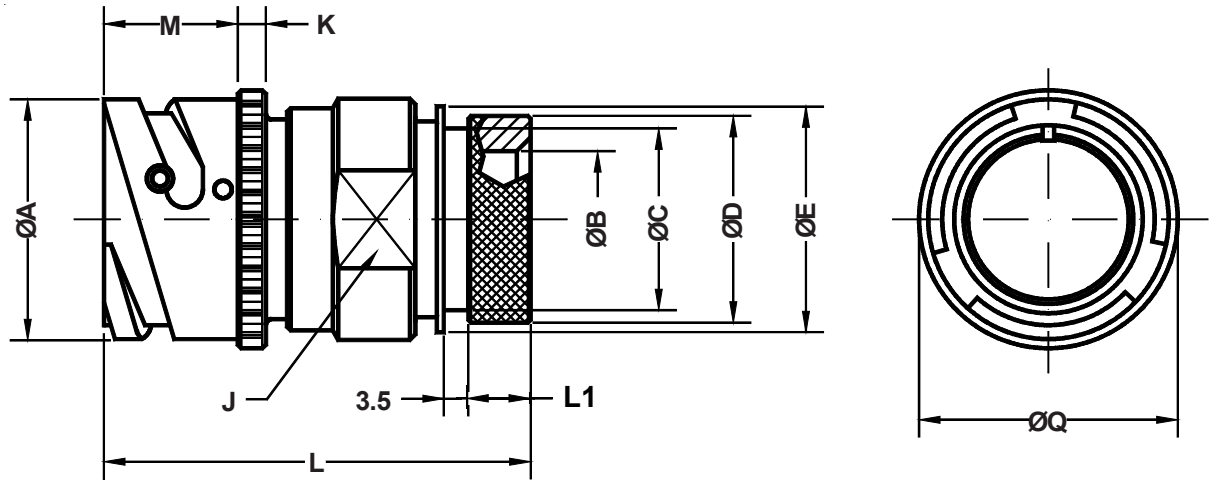
B

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

ITS 31 01 GR 20-27 P Y XXX

- ITS — Reverse Bayonet Coupling
- 31 — Contact Type: 31 - Solder; 41 - Crimp
- 01 — 01 - In-Line
- GR — Connector/Backshell Class: GR - Environmental; Supplied with Backshell for Heat Shrink Tubing and Rotating Clamp Nut
- 20-27 — Shell Size and Insert Arrangement (See Contact Arrangements, Section A)
- P — Contact Gender: P - Pin; S - Socket
- Y — Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- XXX — Mod Code Option (See Table II)



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.

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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
10 SL	18.2	8.6	13.0	15.5	17.0	20	2.8	52.7	8.2	14.3	21.8
14 S	24.5	10.7	16.5	19.1	20.1	23	3.3	53.4	8.2	14.5	28.8
16 S	27.2	14.0	24.9	23.9	23.5	26	3.3	53.4	8.0	14.5	30.5
16	27.2	14.0	24.9	23.9	23.5	26	3.3	65.8	8.0	19.1	30.5
18	30.7	17.5	21.7	23.9	26.5	28	4.0	65.8	8.0	19.1	33.8
20	34.0	18.8	26.2	29.6	30.2	32	4.0	66.1	8.9	19.1	36.9
22	37.3	21.0	26.2	29.6	33.6	36	4.0	66.1	9.2	19.6	39.5
24	40.9	25.4	34.0	37.8	36.1	39	4.0	65.7	9.5	20.6	43.9
28	46.7	28.4	34.3	37.8	41.4	46	4.0	66.2	9.2	20.7	48.4
32	53.4	34.0	43.6	47.8	48.6	52	4.0	73.8	11.7	22.3	56.0
36	59.6	40.5	43.6	47.8	54.0	58	4.0	83.8	11.5	22.3	62.4
40	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

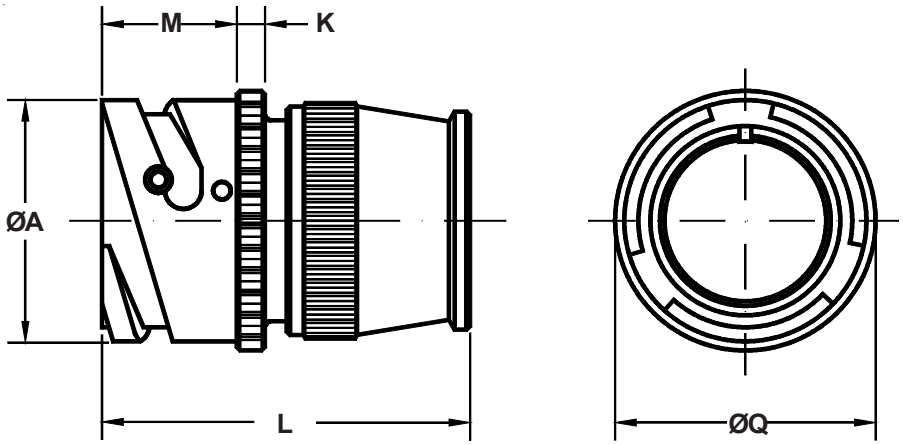
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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

ITS 31 01 RS 20-27 P Y XXX

- Reverse Bayonet Coupling
- Contact Type
  - 31 - Solder
  - 41 - Crimp
- 01 - In-Line
- Connector/Backshell Class
  - RS - Environmental; Supplied with Grommet and Lipped Backshell
- Shell Size and Insert Arrangement (See Contact Arrangements, Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- Mod Code Option (See Table II)



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.

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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

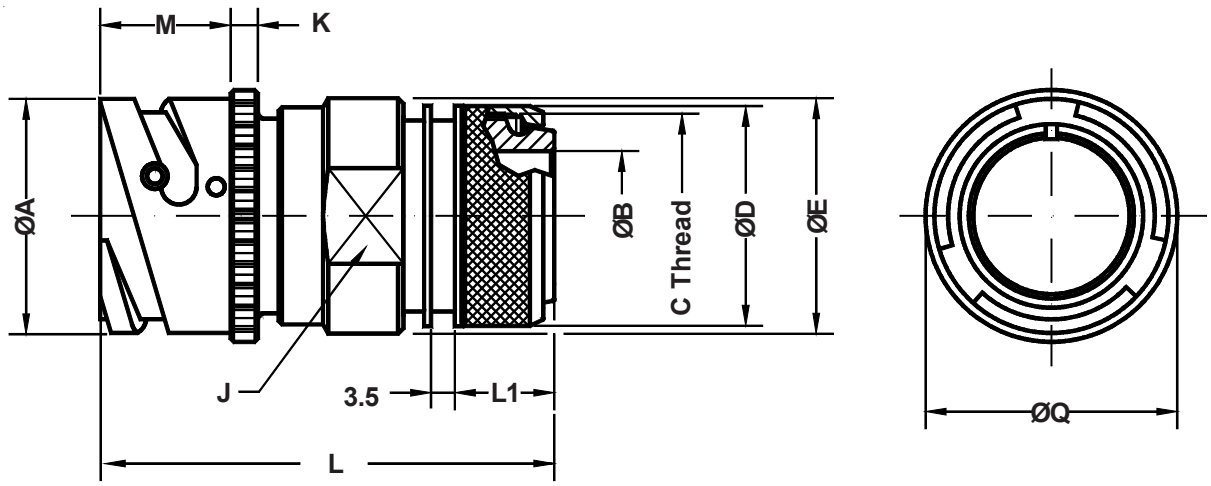
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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

ITS 31 01 SP 20-27 P Y XXX

- Reverse Bayonet Coupling
- Contact Type
  - 31 - Solder
  - 41 - Crimp
- 01 - In-Line
- Connector/Backshell Class
  - SP - Environmental; Supplied with Grommet and EMI/RFI Backshell
- Shell Size and Insert Arrangement (See Contact Arrangements, Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z)
  - Omit for Normal (See Section A)
- Mod Code Option (See Table II)



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.

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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

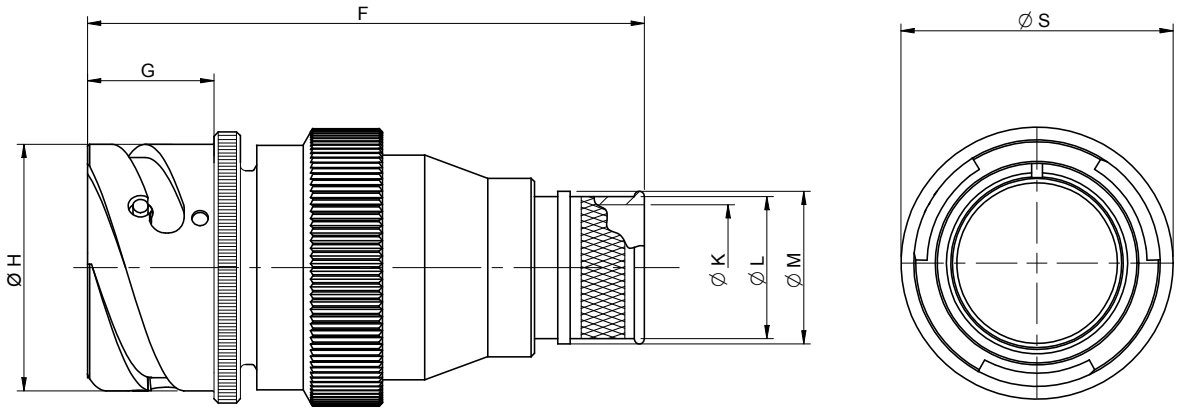
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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

ITS 31 01 A 20-27 P Y ZLF XXX

- Reverse Bayonet Coupling
- Contact Type
  - 31 - Solder
  - 41 - Crimp
- 00 - Front Wall Mount
- Connector/Backshell Class
  - A - Non-environmental; Supplied with Backshell only
  - R - Environmental; Supplied with Backshell and Grommet
- Shell Size and Insert Arrangement (See Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- EMI/RFI Banding Backshell
- Mod Code Option (See Table II)



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.

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TABLE I: DIMENSIONS

SIZE	F (max)	G +0.2 -0	ØH +0 -0.1	S ±0.1		
10SL	54	14.3	18.2	19.1	21.8	3.2
14S	54	14.5	24.5	28.8	28.8	3.2
16S	54	14.5	27.2	30.6	30.5	3.2
16	66	19.1	27.2	30.6	30.5	3.2
18	66	19.1	30.7	32.8	33.8	3.2
20	67	19.1	34	36.4	36.9	3.2
22	67	19.6	37.3	39.5	39.5	3.2
24	70	20.6	40.9	43.9	43.9	3.7
28	70	20.7	46.7	49.7	48.4	3.7
32	71	22.3	53.4	56.5	56	4.3
36	71	22.3	59.6	62.2	62.4	4.3
40	71	22.3	65.5	68.5	68.6	4.3

B

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

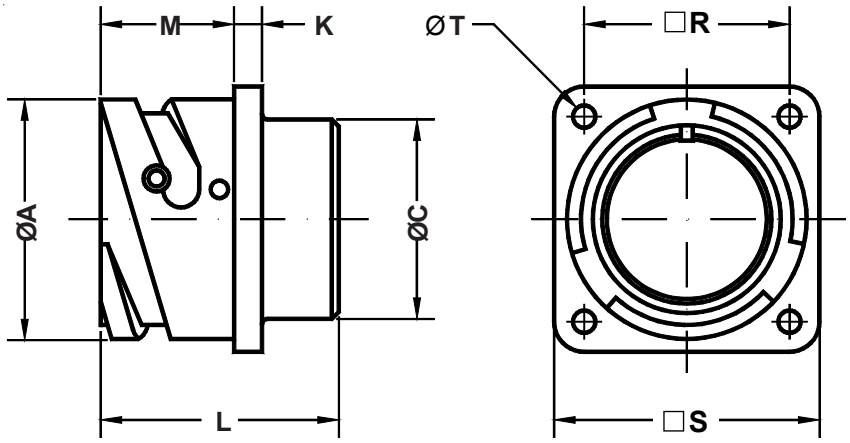
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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

ITS 31 02 A 20-27 P Y XXX

- Reverse Bayonet Coupling
- Contact Type
  - 31 - Solder
  - 41 - Crimp
- 02 - Front Mount Box Receptacle
- Connector Class
  - A - General Duty
- Shell Size and Insert Arrangement (See Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- Mod Code Option (See Table II)



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.

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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)

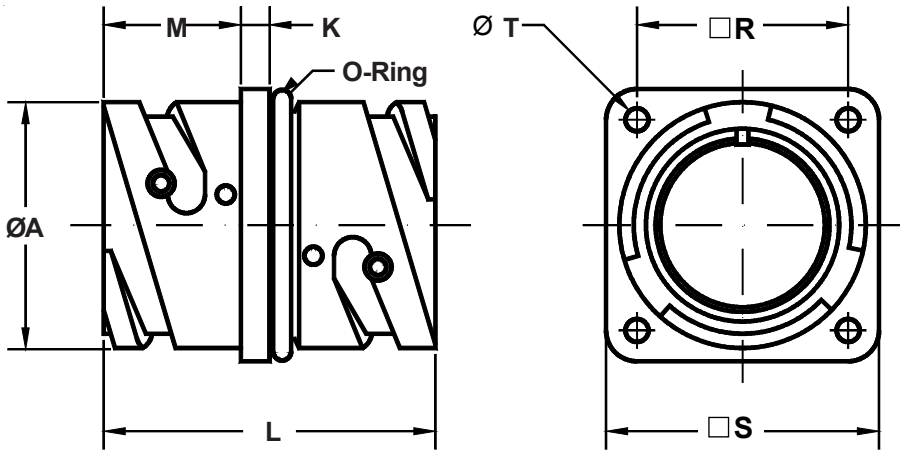
B

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

ITS 02 PP 20-27 P/S Y XXX

- ITS — Reverse Bayonet Coupling
- 02 - Box Mount
- PP - Thru-Bulkhead
- 20-27 — Shell Size and Insert Arrangement (See Section A)
- P/S — Solid Contact Gender P/S - Pin/Socket
- Y — Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- XXX — Mod Code Option (See Table II)



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 configuartion.
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.

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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

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)

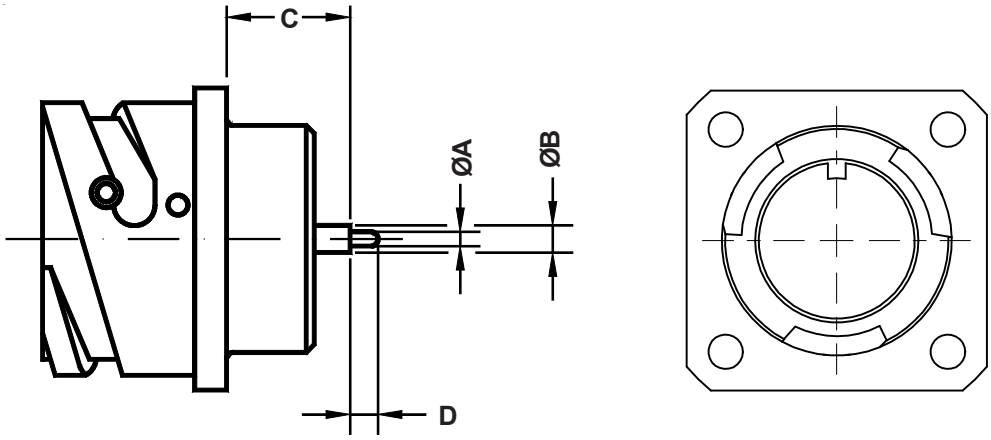
B

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

ITS 31 02 Y 20-27 P Y XXX

- Reverse Bayonet Coupling
- Contact Type
  31 - Solder
- 02 - Front Mount Box Receptacle
- Connector Class
  Y - PCB Tails
  (See TABLE I for different dimensions)
- Shell Size and Insert Arrangement
  (See Section A)
- Contact Gender
  P - Pin
  S - Socket
- Alternate Insert Rotation (W, X, Y, Z)
  Omit for Normal (See Section A)
- Mod Code Option (See Table II)



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.

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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 lenghts

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 (*)
	Omit for standard version (Cadmium Olive Drab Finish)

TABLE IV: MODIFICATION CODES

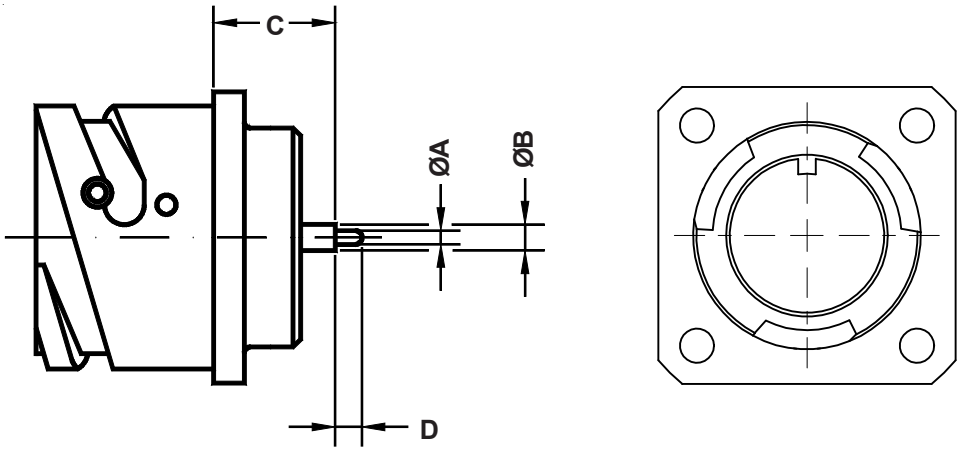
CONTACT OPTIONS	
Sym	**Description**
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	

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

ITS 31 03 Y FP 20-27 P Y XXX

- Reverse Bayonet Coupling
- Contact Type
  31 - Solder
- 03 - Rear Mount Box Receptacle
- Connector Class
  Y - PCB Tails
  (See TABLE I for different dimensions)
- Mounting Holes
  FP - Non-Threaded Through Mounting Holes
  OMIT - For Standard (Threaded) Mounting Holes
- Shell Size and Insert Arrangement
  (See Section A)
- Contact Gender
  P - Pin
  S - Socket
- Alternate Insert Rotation (W, X, Y, Z)
  Omit for Normal (See Section A)
- Mod Code Option (See Table II)



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.

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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 lenghts

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 (*)
	Omit for standard version (Cadmium Olive Drab Finish)

TABLE IV: MODIFICATION CODES

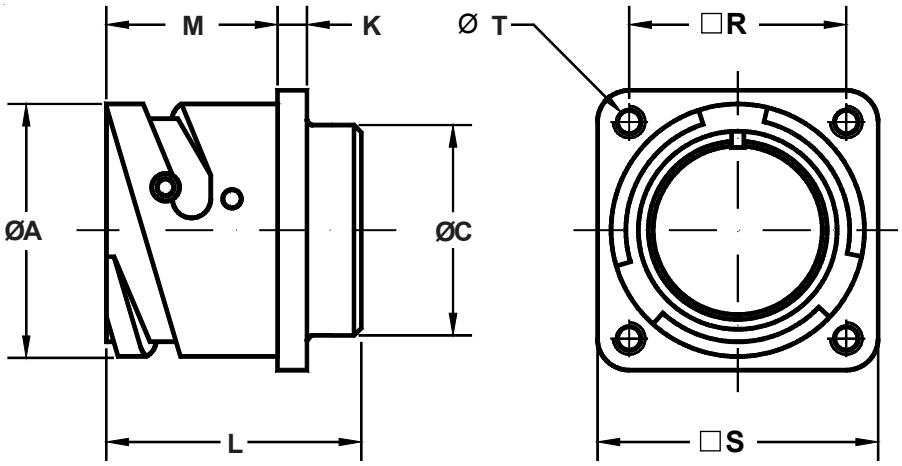
CONTACT OPTIONS	
Sym	**Description**
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	

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

ITS 31 03 A FP 20-27 P Y XXX

- Reverse Bayonet Coupling
- Contact Type
  - 31 - Solder
  - 41 - Crimp
- 03 - Rear Mount Box Receptacle
- Connector Class
  - A - General Duty
  - R - Sealed Insulators
- Mounting Holes
  - FP - Non-Threaded Through Mounting Holes
  - OMIT - For Standard (Threaded) Mounting Holes
- Shell Size and Insert Arrangement (See Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- Mod Code Option (See Table II)



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.

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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

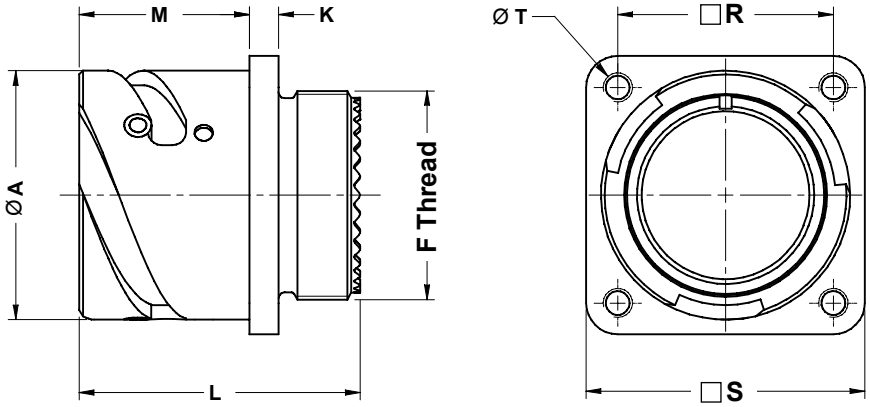
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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

ITS 31 030 A FP 20-27 P Y N0 XXX

- ITS — Reverse Bayonet Coupling
- 31 — Contact Type
  - 31 - Solder
  - 41 - Crimp
- 030 - Rear Wall Mount
- A — Connector Class
  - A - General Duty
- FP — Mounting Holes
  - FP - Non-Threaded Through Mounting Holes
  - OMIT - For Standard (Threaded) Mounting Holes
- 20-27 — Shell Size and Insert Arrangement (See Section A)
- P — Contact Gender
  - P - Pin
  - S - Socket
- Y — Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- N0 — No Connector Accessory Provided
- XXX — Mod Code Option (See Table II)



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.

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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
10 SL	18.2	2.8	30.1	18.5	18.25	25.4	M4	0.6250 - 24UNEF
14 S	24.5	3.3	30.2	18.5	23.00	30.4	M4	0.7500 - 20UNEF
16 S	27.2	3.3	30.1	18.5	24.60	32.5	M4	0.8750 - 20UNEF
16	27.2	3.3	37.1	23.2	24.60	32.5	M4	0.8750 - 20UNEF
18	30.7	4.0	36.1	23.2	27.00	35.0	M4	1.0000 - 20UNEF
20	34.0	4.0	38.4	23.2	29.40	38.0	M4	1.1250 - 18UNEF
22	37.3	4.0	37.1	23.2	31.75	41.0	M4	1.2500 - 18UNEF
24	40.9	4.0	37.1	23.2	34.90	44.5	M4	1.3750 - 18UNEF
28	46.7	4.0	39.6	24.4	39.70	50.9	M5	1.6250 - 18UNEF
32	53.4	4.0	39.6	24.2	44.45	57.0	M5	1.8750 - 16UN
36	59.6	4.0	39.6	24.2	49.20	63.5	M5	2.0625 - 16UN
40	65.5	4.0	39.6	24.4	55.55	69.9	M5	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)

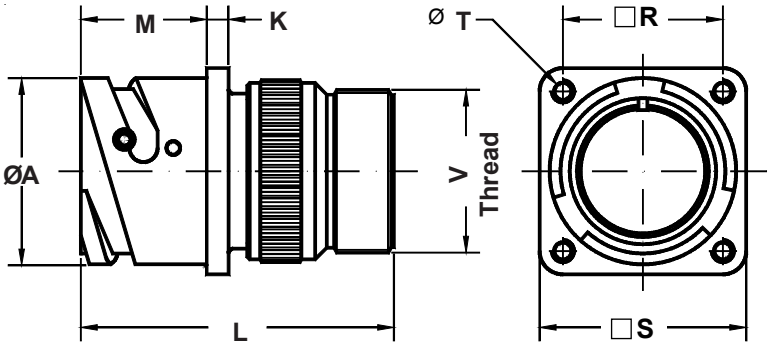
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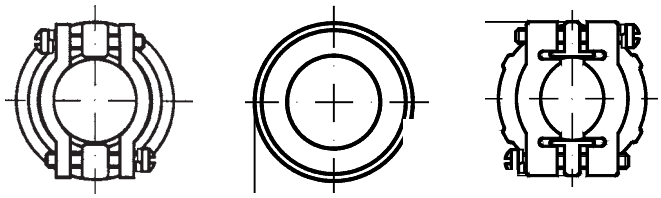
ITS 31030 (A) and ITS 41030 (R)
Rear Panel Mount Square Flange Receptacle Assembly with Backshell for the Attachment of Additional Accessories

ITS 31 030 A FP 20-27 P Y XXX

- 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
- Mounting Holes
  - FP - Non-Threaded Through Mounting Holes
  - OMIT - For Standard (Threaded) Mounting Holes
- Shell Size and Insert Arrangement (See Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- Mod Code Option (See Table II)



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.

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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
10 SL	18.2	2.8	49.0	18.5	18.25	25.4	M4	0.6250 - 24UNEF
14 S	24.5	3.3	51.5	18.5	23.00	30.4	M4	0.7500 - 20UNEF
16 S	27.2	3.3	51.5	18.5	24.60	32.5	M4	0.8750 - 20UNEF
16	27.2	3.3	63.0	23.2	24.60	32.5	M4	0.8750 - 20UNEF
18	30.7	4.0	63.0	23.2	27.00	35.0	M4	1.0000 - 20UNEF
20	34.0	4.0	63.0	23.2	29.40	38.0	M4	1.1875 - 18UNEF
22	37.3	4.0	63.0	23.2	31.75	41.0	M4	1.1875 - 18UNEF
24	40.9	4.0	64.5	23.2	34.90	44.5	M4	1.4375 - 18UNEF
28	46.7	4.0	71.0	24.4	39.70	50.9	M5	1.4375 - 18UNEF
32	53.4	4.0	76.5	24.2	44.45	57.0	M5	1.7500 - 18UNS
36	59.6	4.0	82.0	24.2	49.20	63.5	M5	2.0000 - 18UNS
40	65.5	4.0	82.0	24.4	55.55	69.9	M5	2.2500 - 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)

ACCESSORY OPTIONS	
N1	Connector with IT 3057 A cable clamp
N2	Connector with long backshell
N5	Connector with IT 3057 C cable clamp
N12	Connector with IT 3057 A cable clamp and IT 3420 neoprene sleeve
Omit for standard version	

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

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

ITS 31 030 A FP 20-27 P Y BR2722 XXX

- ITS — Reverse Bayonet Coupling
- 31 — Contact Type: 31 - Solder; 41 - Crimp
- 030 - Rear Wall Mount
- A — Connector/Backshell Class: A - Non-Environmental; Supplied with Backshell Only; R - Environmental; Supplied w Grommet
- FP — Mounting Holes: FP - Non-Threaded Through Mounting Holes; OMIT - For Standard (Threaded) Mounting Holes
- 20-27 — Shell Size and Insert Arrangement (See Section A)
- P — Contact Gender: P - Pin; S - Socket
- Y — Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- BR2722 — UNI4883 Backshell Adapter Shell Size Designator (See Note 1)
- XXX — Mod Code Option (See Table II)

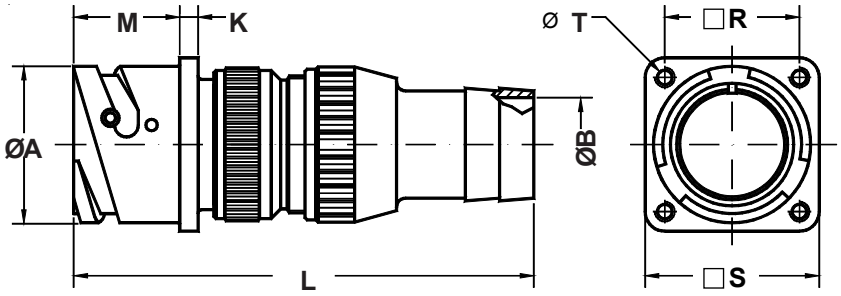


TABLE II: MODIFICATION CODES

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. 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.
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.

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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

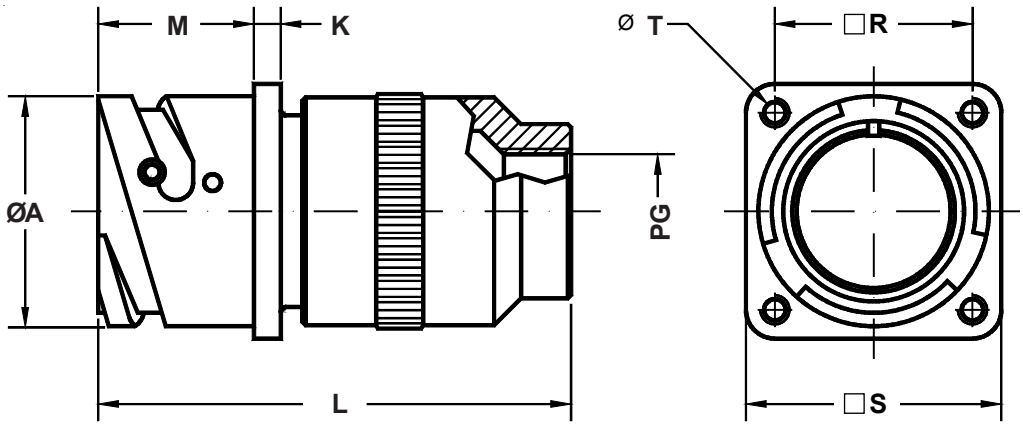
Shell Size	Rubber tube in accordance with UNI 4883 to be used by size: Ø Min	Ø Max	ØB ±0.1	ØQ ±0.2	
10SL	12.0	17.0	10.5		
18	22.0	27.0	20.5		
20 - 22	12.0	17.0	10.5		
20 - 22	22.0	27.0	20.5		
20 - 22	28.0	33.0	31.5		
24 - 28	20.0	25.0	16.5		
24 - 28	22.0	27.0	20.5		
24 - 28	26.0	31.0	22.5		
24 - 28	28.0	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		

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

ITS 31 030 A FP 20-27 P Y PG16 XXX

- 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 Grommet
- Mounting Holes
  - FP - Non-Threaded Through Mounting Holes
  - OMIT - For Standard (Threaded) Mounting Holes
- Shell Size and Insert Arrangement (See Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- PG Thread
- Mod Code Option (See Table II)



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.

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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

TABLE II: MODIFICATION CODES

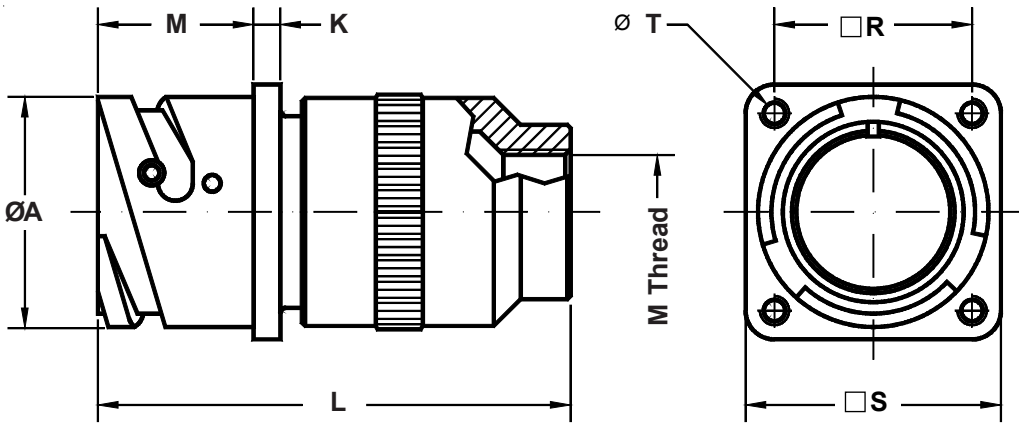
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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



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.

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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
10 SL	18.2	55.0	2.8	81.0	18.5	M12x1,5	18.25	25.4	M4
14 S	24.5	57.5	3.3	86.5	18.5	M16x1,5	23.00	30.4	M4
16 S	27.2	57.5	3.3	88.5	18.5	M16x1,5	24.60	32.5	M4
16	27.2	66.0	3.3	97.0	23.2	M16x1,5	24.60	32.5	M4
18	30.7	71.5	4.0	106.5	23.2	M20x1,5	27.00	35.0	M4
20	34.0	74.5	4.0	109.5	23.2	M25x1,5	29.40	38.0	M4
22	37.3	74.5	4.0	109.5	23.2	M25x1,5	31.75	41.0	M4
24	40.9	76.5	4.0	115.5	23.2	M32x1,5	34.90	44.5	M4
28	46.7	81.5	4.0	120.5	24.4	M32x1,5	39.70	50.9	M5
32	53.4	87.5	4.0	126.5	24.2	M36x1,5	44.45	57.0	M5
36	59.6	92.5	4.0	141.5	24.2	M40x1,5	49.20	63.5	M5
40	65.5	97.5	4.0	145.5	24.4	M48x1,5	55.55	69.9	M5

TABLE II: MODIFICATION CODES

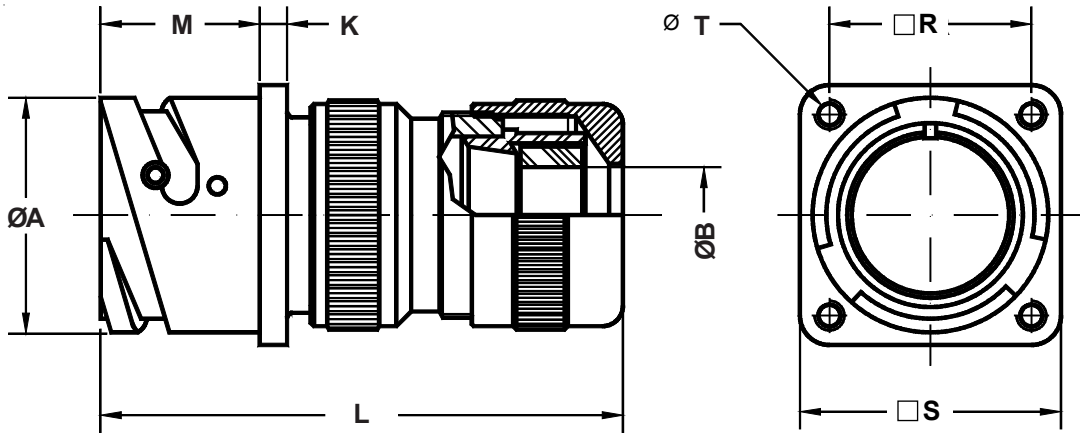
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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

ITS 31 030 A FP 20-27 P Y PHM11 XXX

- 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
- Mounting Holes
  - FP - Non-Threaded Through Mounting Holes
  - OMIT - For Standard (Threaded) Mounting Holes
- Shell Size and Insert Arrangement (See Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z)
  - Omit for Normal (See Section A)
- PHM Size
- Mod Code Option (See Table II)



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.

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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	11	18.2	2–11	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

TABLE II: MODIFICATION CODES

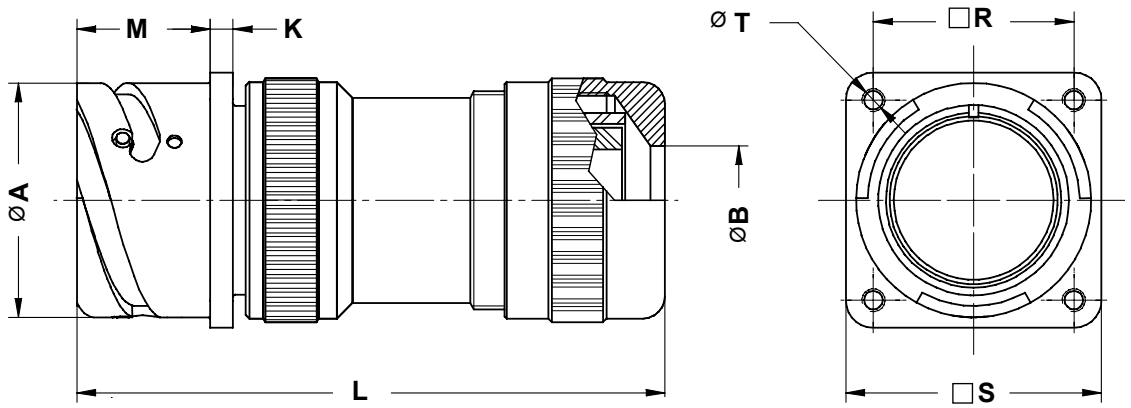
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

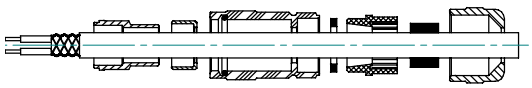
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ITS 31030 A (PHM-EMI67) and ITS 41030 A (PHM-EMI67)
Rear Panel Mount Square Flange Receptacle Assembly with EMI/RFI and Environmental PHM Cable Clamp

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

- ITS — Reverse Bayonet Coupling
- 31 — Contact Type
  - 31 - Solder
  - 41 - Crimp
- 030 - Rear Wall Mount
- A — Connector/Backshell Class
  - A - Non-Environmental; Supplied with Backshell Only
- FP — Mounting Holes
  - FP - Non-Threaded Through Mounting Holes
  - OMIT - For Standard (Threaded) Mounting Holes
- 20-27 — Shell Size and Insert Arrangement (See Section A)
- P — Contact Gender
  - P - Pin
  - S - Socket
- Y — Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- PHM11EM167 — PHM Size
- XXX — Mod Code Option (See Table II)





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.

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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	11	18.2	2–11	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									

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)

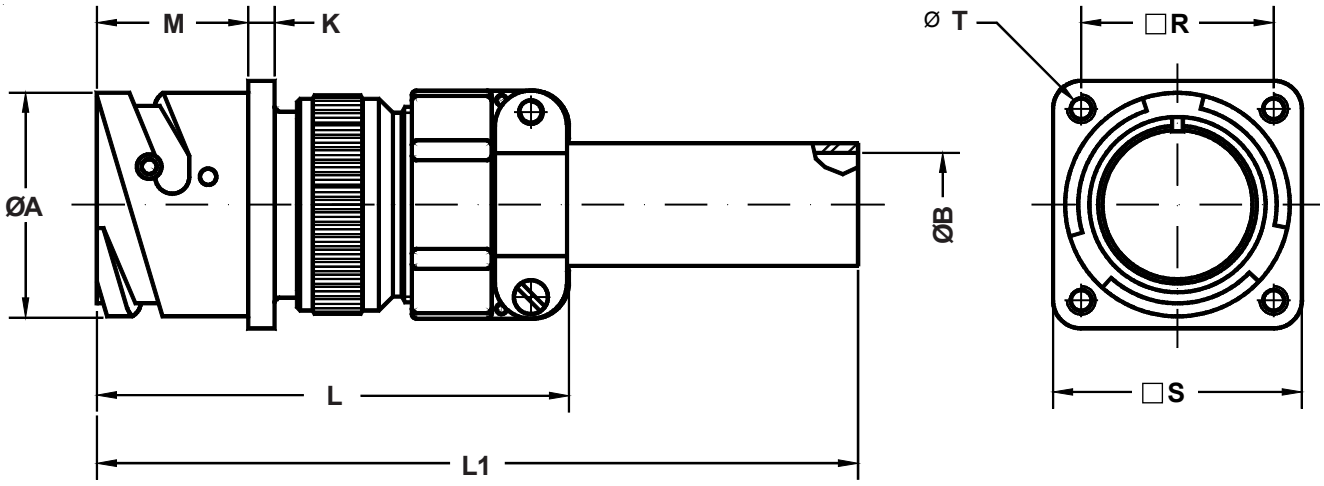
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ITS 31030 (F) and ITS 41030 (F)

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

- ITS — Reverse Bayonet Coupling
- 31 — Contact Type: 31 - Solder; 41 - Crimp
- 030 - Rear Wall Mount
- F — Connector/Backshell Class: F- Environmental; Supplied with Grommet, Cable Clamp and Neoprene Bushing
- FP — Mounting Holes: FP - Non-Threaded Through Mounting Holes; OMIT - For Standard (Threaded) Mounting Holes
- 20-27 — Shell Size and Insert Arrangement (See Section A)
- P — Contact Gender: P - Pin; S - Socket
- Y — Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- XXX — Mod Code Option (See Table II)



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.

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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

TABLE II: MODIFICATION CODES

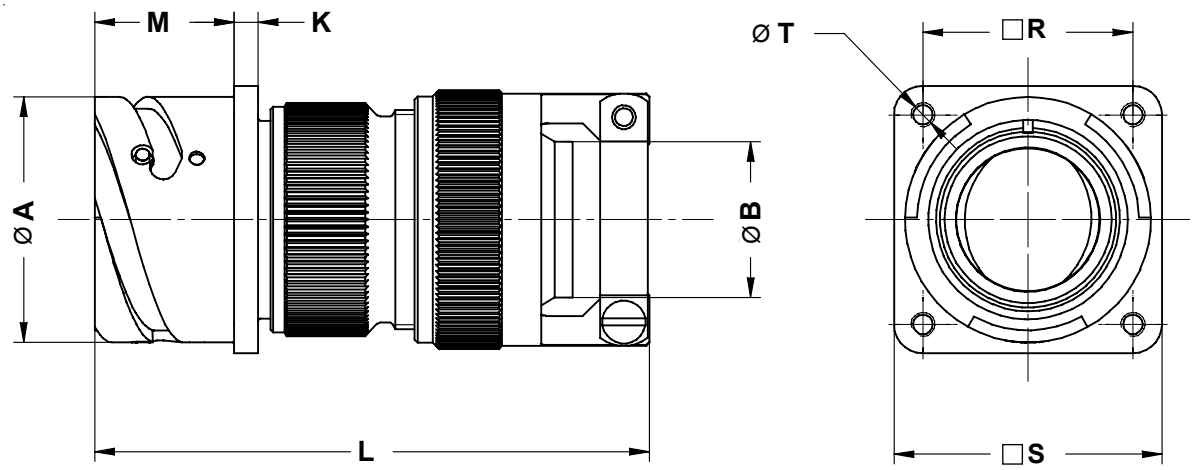
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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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
- Mounting Holes
  - FP - Non-Threaded Through Mounting Holes
  - OMIT - For Standard (Threaded) Mounting Holes
- Shell Size and Insert Arrangement (See Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- Class “C” Environmental Cable Clamp
- Mod Code Option (See Table II)



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.

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TABLE I: DIMENSIONS

Shell Size	ØA +0 -0.1	ØB Open	ØB Closed	K ±0.2	L Max.	M +0.2 -0	R ±0.1	S +0.2	T Thread
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

TABLE II: MODIFICATION CODES

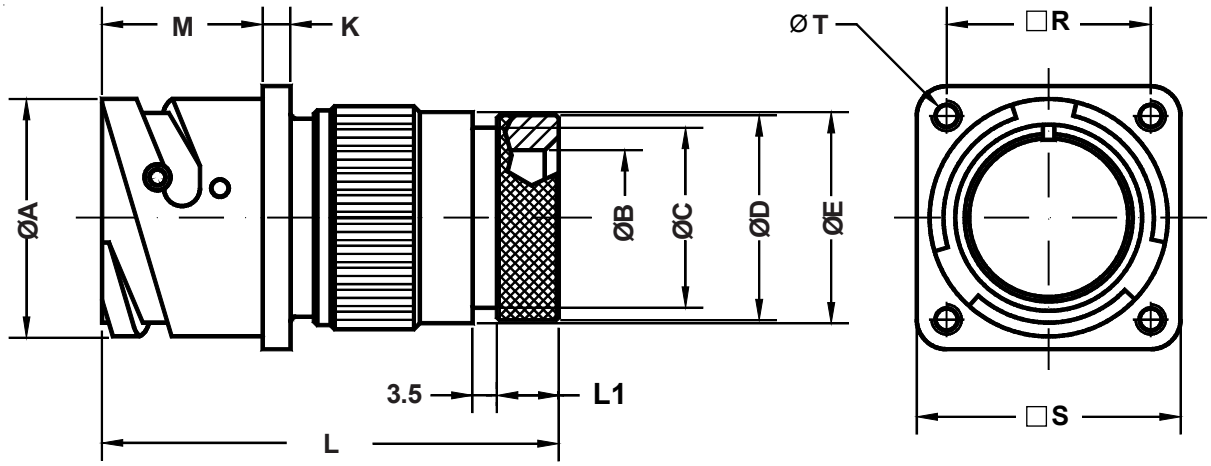
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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

ITS 31 030 G FP 20-27 P Y XXX

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



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.

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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
10 SL	18.2	8.5	13.0	15.5	17.0	2.8	57.5	8.2	18.5	18.25	25.4	M4
14 S	24.5	12.0	16.5	19.1	20.1	3.3	58.4	8.2	18.5	23.00	30.4	M4
16 S	27.2	14.5	21.5	23.9	23.5	3.3	58.4	8.2	18.5	24.60	32.5	M4
16	27.2	14.5	21.5	23.9	23.5	3.3	70.8	8.0	23.2	24.60	32.5	M4
18	30.7	17.5	21.7	23.9	26.5	4.0	70.8	8.0	23.2	27.00	35.0	M4
20	34.0	19.5	26.0	29.6	30.5	4.0	71.1	8.9	23.2	29.40	38.0	M4
22	37.3	22.0	26.0	29.6	33.6	4.0	71.1	8.9	23.2	31.75	41.0	M4
24	40.9	25.0	34.5	37.8	36.1	4.0	70.7	9.2	23.2	34.90	44.5	M4
28	46.7	29.0	34.5	37.8	41.4	4.0	71.2	9.2	24.4	39.70	50.9	M5
32	53.4	34.0	43.6	47.8	48.6	4.0	78.8	11.7	24.2	44.45	57.0	M5
36	59.6	38.5	43.6	47.8	54.8	4.0	88.8	11.7	24.2	49.20	63.5	M5
40	65.5	48.0	52.6	57.8	60.9	4.0	88.8	11.7	24.4	55.55	69.9	M5

TABLE II: MODIFICATION CODES

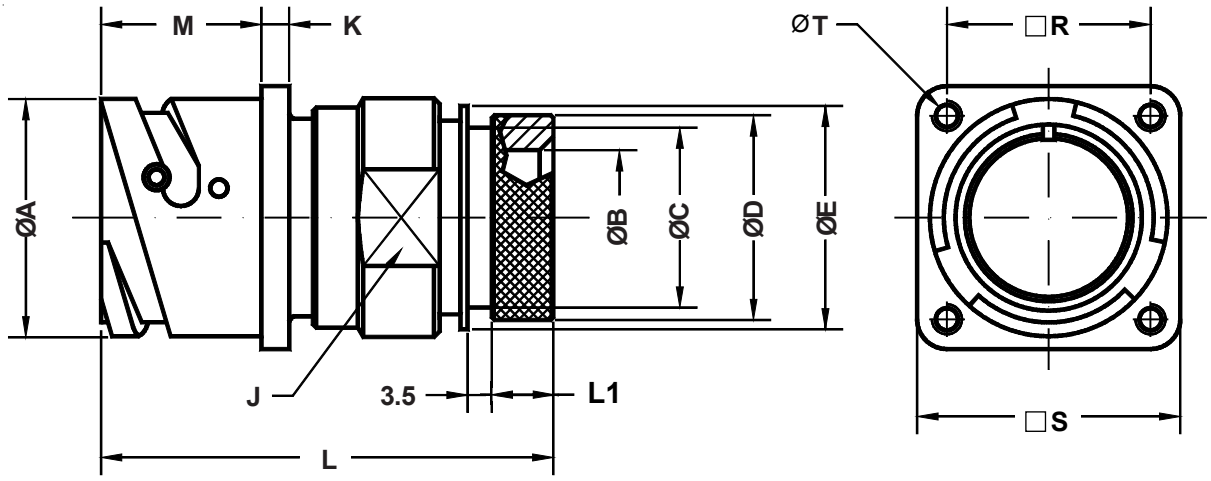
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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

ITS 31 030 GR FP 20-27 P Y XXX

- ITS — Reverse Bayonet Coupling
- 31 — Contact Type
  - 31 - Solder
  - 41 - Crimp
- 030 - Rear Wall Mount
- GR — Connector/Backshell Class
  - GR - Environmental; Supplied with Backshell for Heat-Shrink Tubing and Rotating Clamp Nut
- FP — Mounting Holes
  - FP - Non-Threaded Through Mounting Holes
  - OMIT - For Standard (Threaded) Mounting Holes
- 20-27 — Shell Size and Insert Arrangement (See Section A)
- P — Contact Gender
  - P - Pin
  - S - Socket
- Y — Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- XXX — Mod Code Option (See Table II)



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.

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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

TABLE II: MODIFICATION CODES

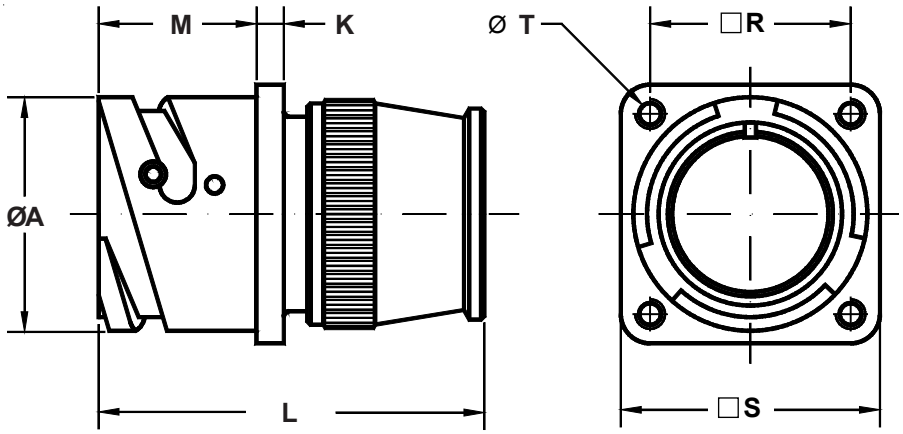
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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

ITS 31 030 RS FP 20-27 P Y XXX

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



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.

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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

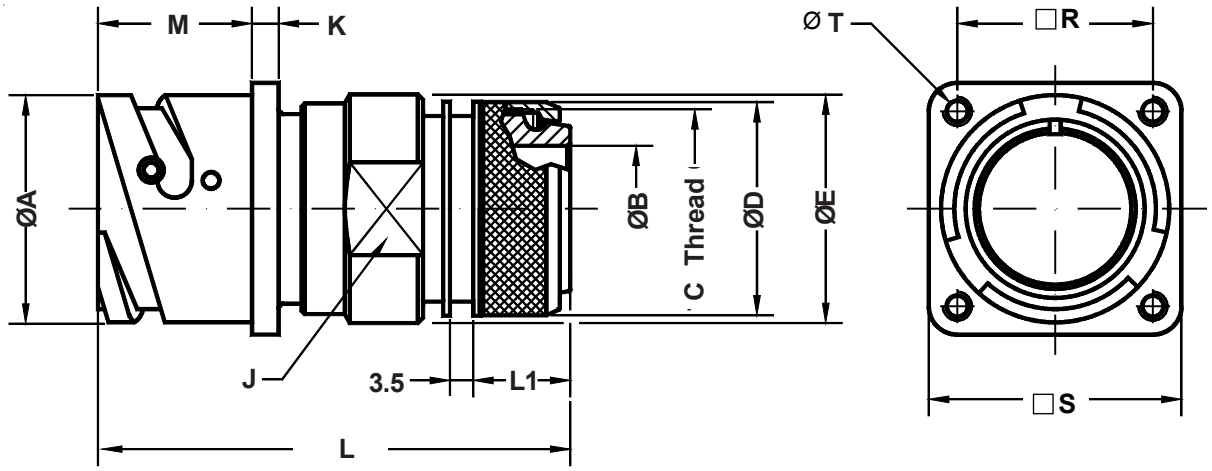
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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

ITS 31 030 SP FP 20-27 P Y XXX

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



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.

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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

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)

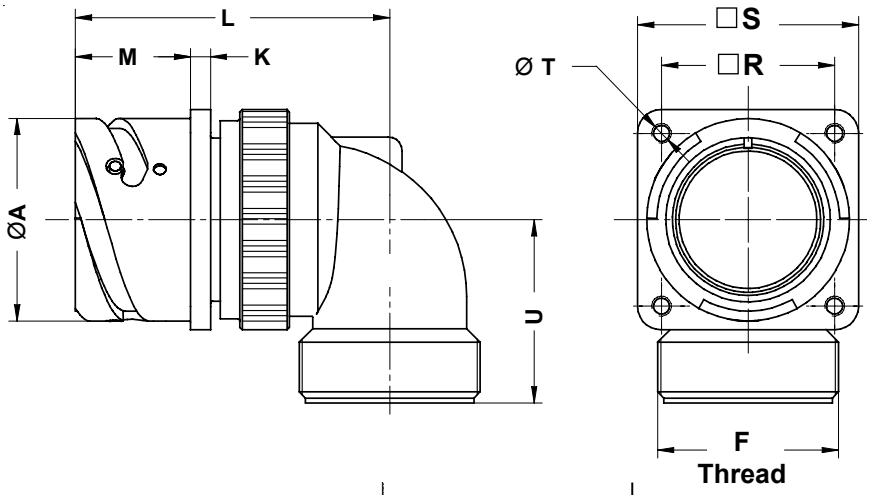
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ITS 31038 (A) and ITS 31038 (R)
ITS 41038 (A) and ITS 41038 (R)
Rear Panel Mount Square Flange Receptacle Assembly
with 90° Backshell for the Attachment of Additional Accessories

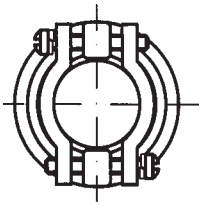
ITS 31 038 A FP 20-27 P Y XXX

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

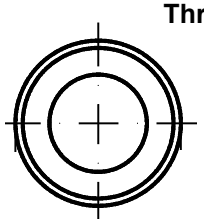
B



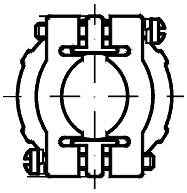
Order Cable Clamps and Sleeves Separately or Use Mod Codes (Table II) to Add Clamp to This Assembly.



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.

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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	
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)

ACCESSORY OPTIONS	
N1	Connector with IT 3057 A cable clamp
N2	Connector with long backshell
N5	Connector with IT 3057 C cable clamp
N12	Connector with IT 3057 A cable clamp and IT 3420 neoprene sleeve
Omit for standard version	

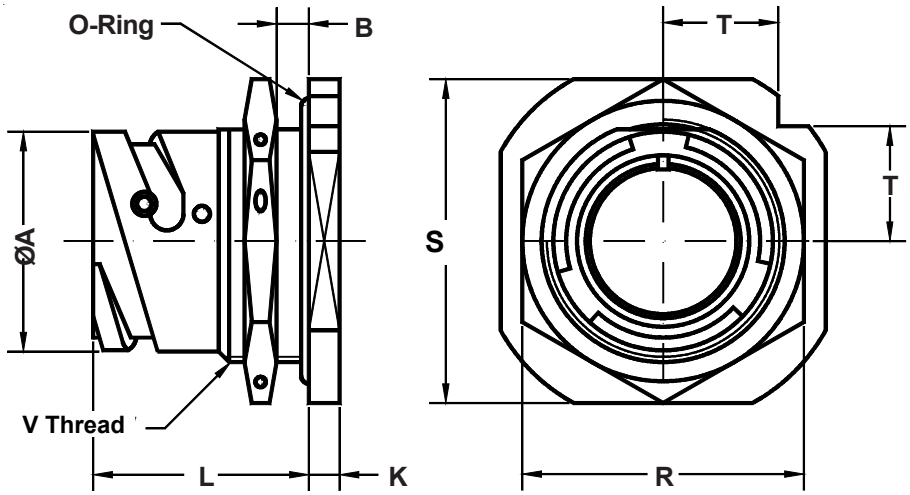
B

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

ITS 31 07 A 20-27 P Y XXX

- Reverse Bayonet Coupling
- Contact Type
  - 31 - Solder
  - 41 - Crimp
- 07 - Rear Box Mount Jam Nut Receptacle
- Connector Class
  - A - General Duty
- Shell Size and Insert Arrangement (See Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- Mod Code Option (See Table II)



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.

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TABLE I: DIMENSIONS

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

TABLE II: MODIFICATION CODES

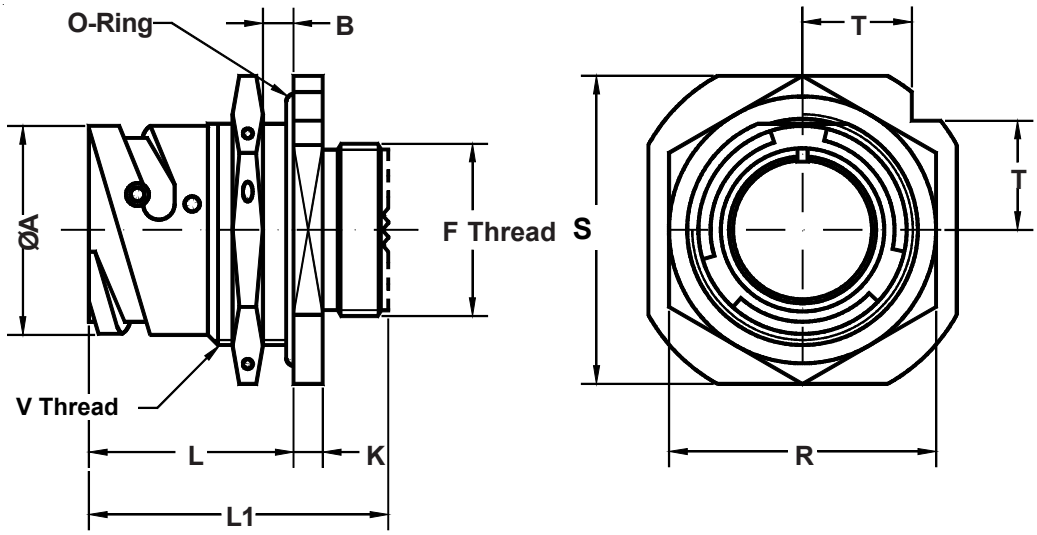
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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

ITS 31 070 A 20-27 P Y N0 XXX

- Reverse Bayonet Coupling
- Contact Type
  - 31 - Solder
  - 41 - Crimp
- 070 - Rear Wall Mount Jam Nut Receptacle with Accessory Threads
- Connector Class
  - A - General Duty
  - R - Sealed Insulator
- Shell Size and Insert Arrangement (See Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- No Connector Accesory Provided
- Mod Code Option (See Table II)



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.

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TABLE I: DIMENSIONS

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

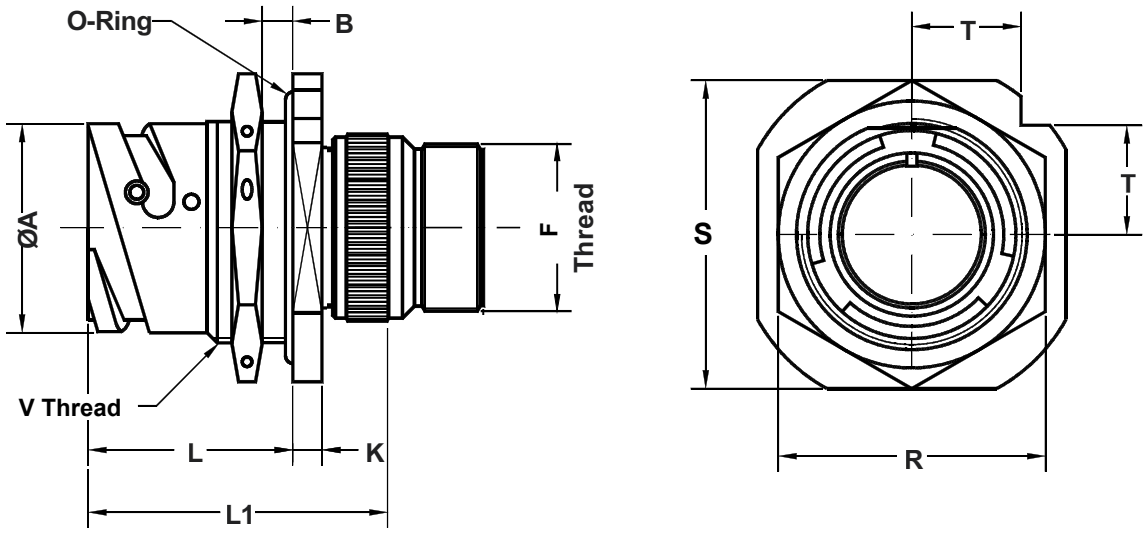
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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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

ITS 31 070 A 20-27 P Y XXX

- Reverse Bayonet Coupling
- Contact Type
  - 31 - Solder
  - 41 - Crimp
- 070 - Rear Wall Mount Jam Nut Receptacle with Accessory Threads
- Connector Class
  - A - Non-Environmental; Not Supplied with Grommet
  - AR - Environmental - Supplied with Grommet
- Shell Size and Insert Arrangement (See Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- Mod Code Option (See Table II)



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.

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TABLE I: DIMENSIONS

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

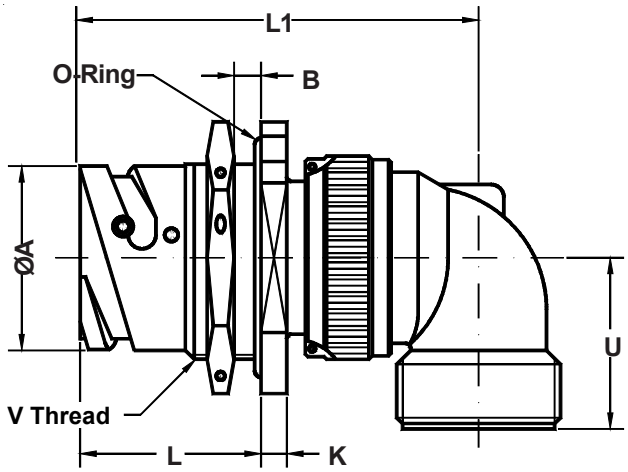
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

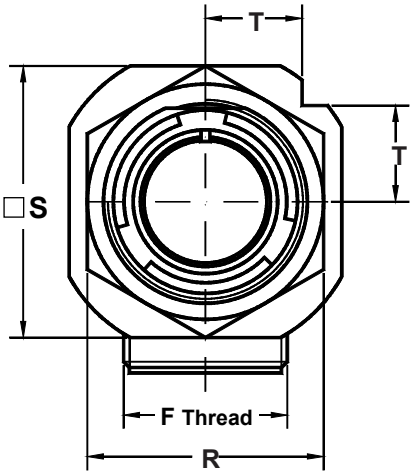
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ITS 31078 (A) and ITS 31078 (R)
ITS 41078 (A) and ITS 41078 (R)
Rear Panel Mount Jam Nut Receptacle
with 90° Backshell for the Attachment of Additional Accessories

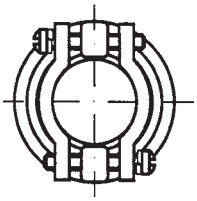
ITS 31 078 A 20-27 P Y XXX

- ITS — Reverse Bayonet Coupling
- 31 — Contact Type: 31 - Solder; 41 - Crimp
- 078 — 078 - Rear Wall Mount Jam Nut Receptacle with 90° Backshell
- A — Connector/Backshell Class: A - Non-Environmental with 90° Backshell; R - Environmental with 90° Backshell and Wire Sealing Grommet
- 20-27 — Shell Size and Insert Arrangement (See Section A)
- P — Contact Gender: P - Pin; S - Socket
- Y — Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- XXX — Mod Code Option (See Table II)

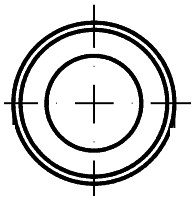




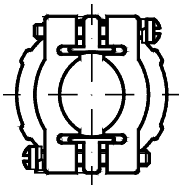
Order Cable Clamps and Sleeves Separately or Use Mod Codes (Table II) to Add Clamp to This Assembly.



IT 3057 C Cable Clamp



IT 3420 Neoprene Sleeve



IT 3057 A Cable Clamp

Application Notes:

1. Rear panel mount jam nut receptacle with 90° backshell.
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. 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.

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TABLE I: DIMENSIONS

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

ACCESSORY OPTIONS	
N1	Connector with IT 3057 A cable clamp
N2	Connector with long backshell
N5	Connector with IT 3057 C cable clamp
N12	Connector with IT 3057 A cable clamp and IT 3420 neoprene sleeve
Omit for standard version	

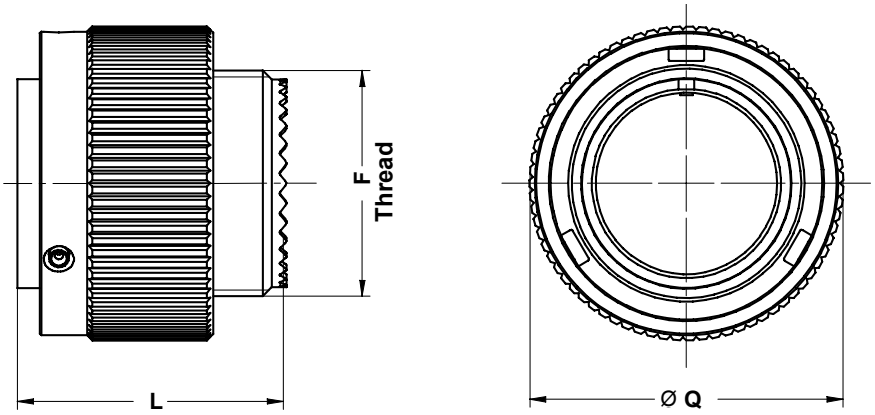
B

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

ITS G 31 06 A 20-27 P Y N0 XXX

- Reverse Bayonet Coupling
- Grounding Fingers (Omit for Standard)
- Contact Type
  - 31 - Solder
  - 41 - Crimp
- 06 - Straight Plug Assembly with Accessory Threads
- Connector Class
  - A - General Duty
- Shell Size and Insert Arrangement (See Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- No Connector Accesory Provided
- Mod Code Option (See Table II)



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.

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TABLE I: DIMENSIONS

Shell Size	L Max.	ØQ ±0.2	F Thread
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

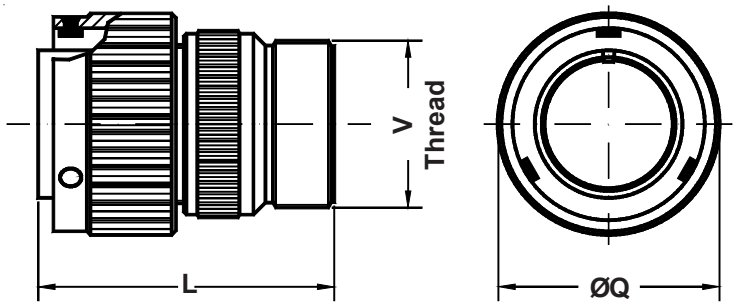
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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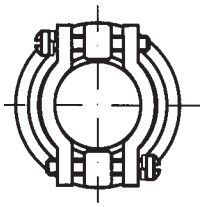
ITS 3106 (A) and ITS 3106 (R)
ITS 4106 (A) and ITS 4106 (R)
Straight Cylindrical Plug Assembly
with Backshell for the Attachment of Additional Accessories

ITS G 31 06 A 20-27 P Y XXX

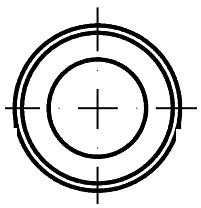
- Reverse Bayonet Coupling
- Grounding Fingers (Omit for Standard)
- Contact Type
  - 31 - Solder
  - 41 - Crimp
- 06 - Straight Plug
- Connector/Backshell Class
  - A - Non-Environmental; Supplied with Backshell Only
  - R - Environmental; Supplied with Backshell and Grommet
- Shell Size and Insert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



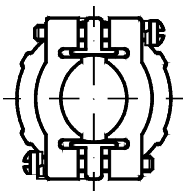
Order Cable Clamps and Sleeves Separately or Use Mod Codes (Table II) to Add Clamp to This Assembly.



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.

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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	
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)

ACCESSORY OPTIONS	
N1	Connector with IT 3057 A cable clamp
N2	Connector with long backshell
N5	Connector with IT 3057 C cable clamp
N12	Connector with IT 3057 A cable clamp and IT 3420 neoprene sleeve
Omit for standard version	

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

ITS G 31 06 A 20-27 P Y BR2722 XXX

- Reverse Bayonet Coupling
- Grounding Fingers (Omit for Standard)
- Contact Type
  - 31 - Solder
  - 41 - Crimp
- 06 - Straight Plug
- Connector/Backshell Class
  - A - Non-Environmental; Supplied with Backshell Only
  - R - Environmental; Supplied with Backshell and Grommet
- Shell Size and Insert Arrangement (See Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- UNI4883 Backshell Adapter Shell Size Designator (See Note 1)
- Mod Code Option (See Table II)

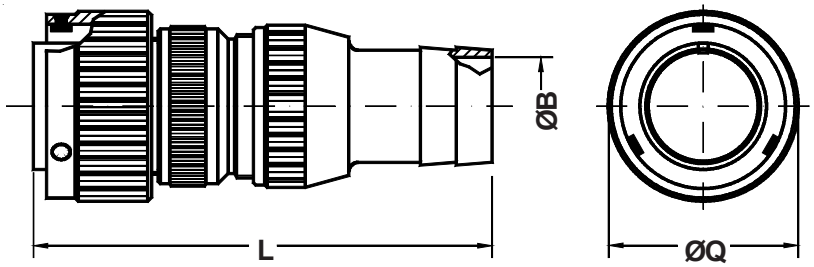


TABLE II: MODIFICATION CODES

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.

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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	ØB ±0.1	L Max.	ØQ ±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

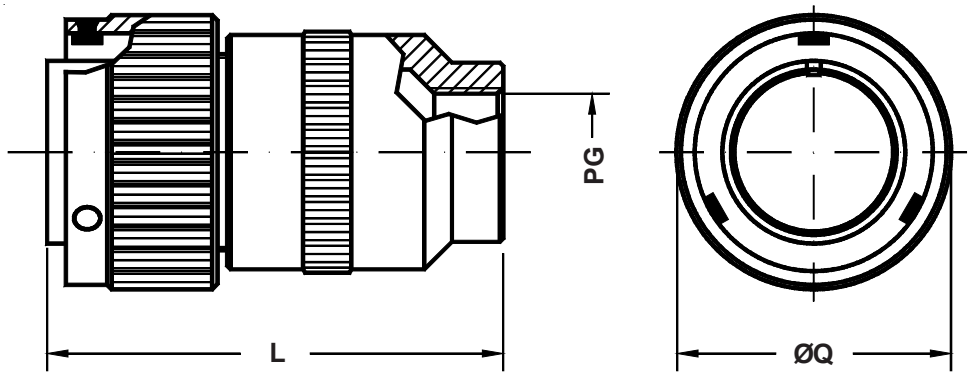
Shell Size	Rubber tube in accordance with UNI 4883 to be used by size: Ø Min	Ø Max	ØB ±0.1	ØQ ±0.2	
10SL	12.0	17.0	10.5		
18	22.0	27.0	20.5		
20 - 22	12.0	17.0	10.5		
20 - 22	22.0	27.0	20.5		
20 - 22	28.0	33.0	31.5		
24 - 28	20.0	25.0	16.5		
24 - 28	22.0	27.0	20.5		
24 - 28	26.0	31.0	22.5		
24 - 28	28.0	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		

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

ITS G 31 06 A 20-27 P Y PG16 XXX

- ITS — Reverse Bayonet Coupling
- G — Grounding Fingers (Omit for Standard)
- 31 — Contact Type
  - 31 - Solder
  - 41 - Crimp
- 06 - Straight Plug
- A — Connector/Backshell Class
  - A - Non-Environmental; Supplied with Backshell Only
  - R - Environmental; Supplied with Backshell and Grommet
- 20-27 — Shell Size and Insert Arrangement (See Section A)
- P — Contact Gender
  - P - Pin
  - S - Socket
- Y — Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- PG16 — PG Thread
- XXX — Mod Code Option (See Table II)



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.

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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)

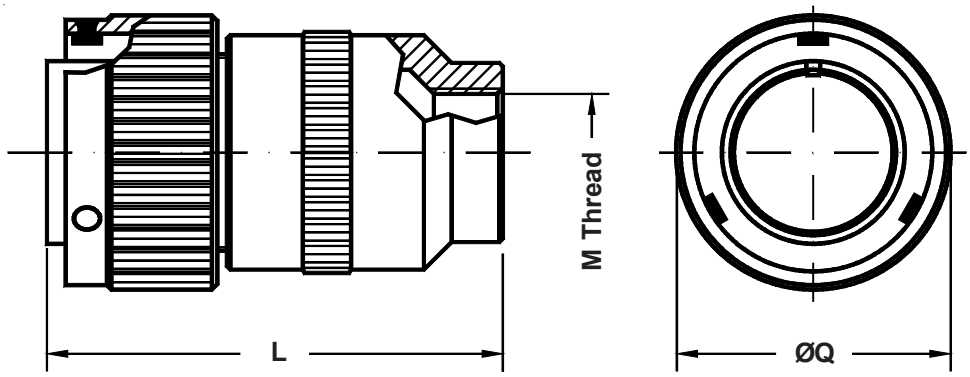
B

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

ITS G 31 06 A 20-27 P Y M25 XXX

- ITS — Reverse Bayonet Coupling
- G — Grounding Fingers (Omit for Standard)
- 31 — Contact Type
  - 31 - Solder
  - 41 - Crimp
- 06 - Straight Plug
- A — Connector/Backshell Class
  - A - Non-Environmental; Supplied with Backshell Only
  - R - Environmental; Supplied with Backshell and Grommet
- 20-27 — Shell Size and Insert Arrangement (See Section A)
- P — Contact Gender
  - P - Pin
  - S - Socket
- Y — Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- M25 — Metric Thread Size
- XXX — Mod Code Option (See Table II)



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

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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

TABLE II: MODIFICATION CODES

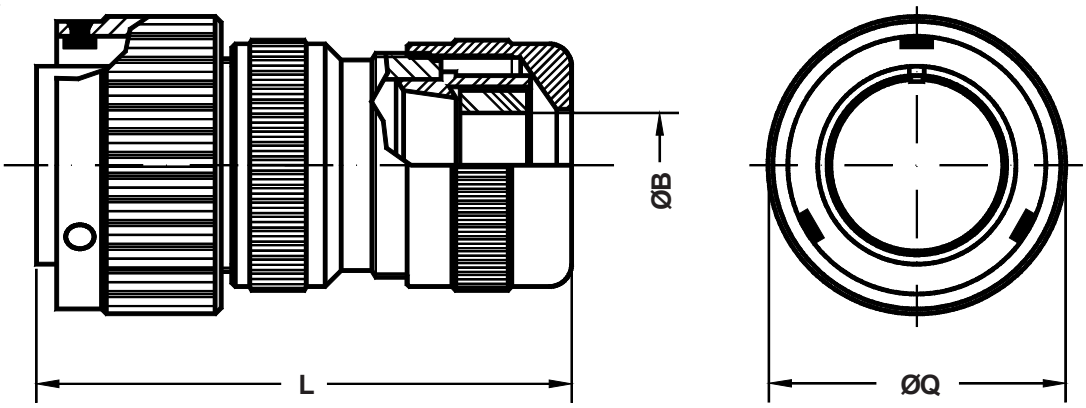
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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

ITS G 31 06 A 20-27 P Y PHM11 XXX

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



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

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TABLE I: DIMENSIONS

Shell Size	PHM Size	ØB min. – Max.	L Max.	ØQ ±0.2
10 SL	11	2–11	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

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)

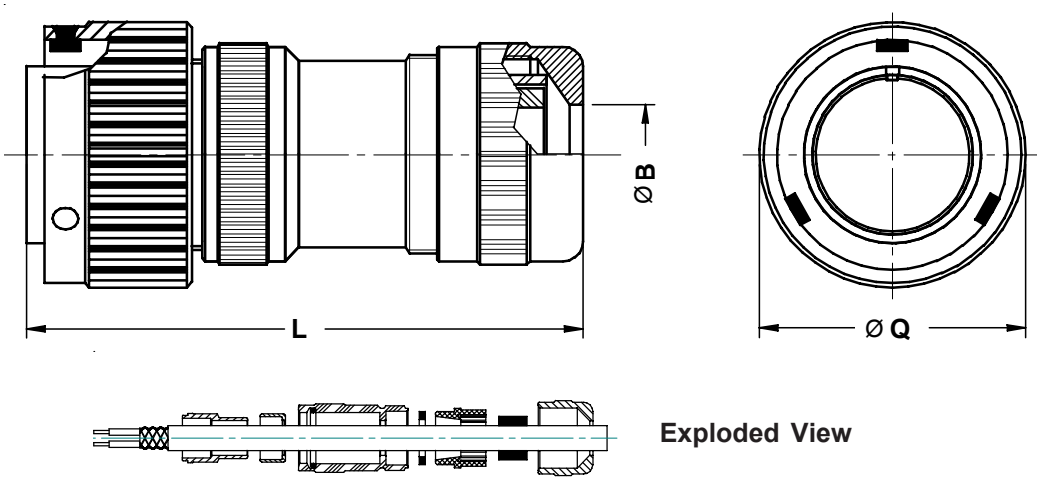
B

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



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

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TABLE I: DIMENSIONS

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

TABLE II: MODIFICATION CODES

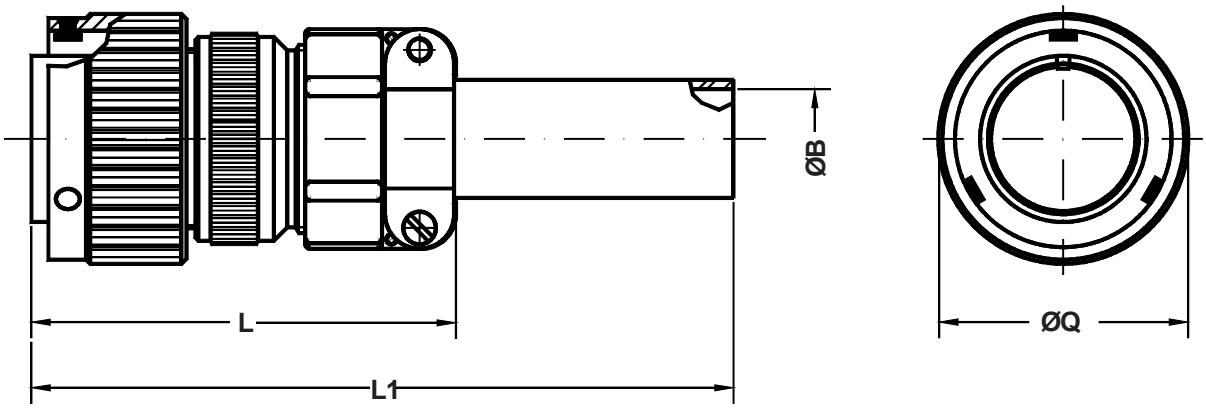
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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

ITS G 31 06 F 20-27 P Y XXX

- ITS — Reverse Bayonet Coupling
- G — Grounding Fingers (Omit for Standard)
- 31 — Contact Type: 31 - Solder; 41 - Crimp
- 06 — 06 - Straight Plug
- F — Connector/Backshell Class: F- Environmental; Supplied with Backshell, Grommet, Cable Clamp and Bushing
- 20-27 — Shell Size and Insert Arrangement (See Section A)
- P — Contact Gender: P - Pin; S - Socket
- Y — Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- XXX — Mod Code Option (See Table II)



Application Notes:

1. Straight plug with an insulating grommet, environmental backshell, class A IT3057cable 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

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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

TABLE II: MODIFICATION CODES

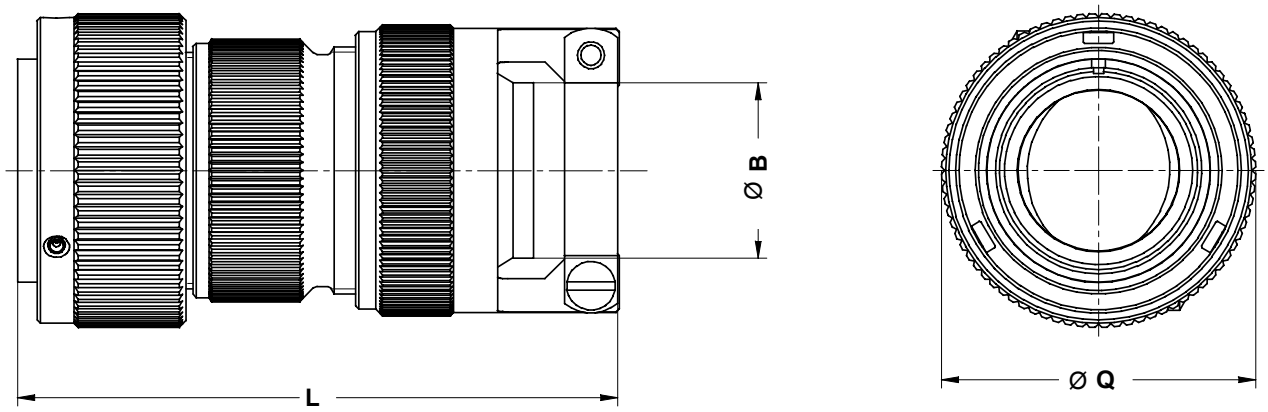
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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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

ITS G 31 06 A 20-27 P Y N5 XXX

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



Application Notes:

1. Straight cylindrical plug with a class C (environmental) IT3057cable 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

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TABLE I: DIMENSIONS

Shell Size	ØB		L	ØQ
	Open	Closed	Max.	±0.2
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

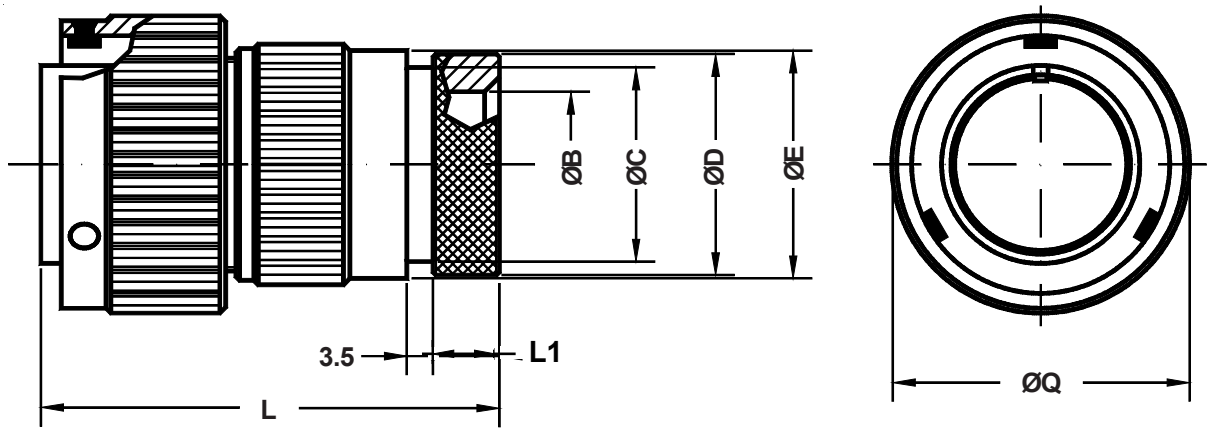
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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

ITS G 31 06 G 20-27 P Y XXX

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



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.

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TABLE I: DIMENSIONS

Shell Size	ØB Min.	ØC ±0.1	ØD ±0.2	ØE ±0.2	L Max.	L1 Max.	ØQ ±0.2
10 SL	8.5	13.0	15.5	17.0	52.7	8.2	22.6
14 S	12.0	16.5	19.1	20.1	53.4	8.2	29.0
16 S	14.5	21.5	23.9	23.5	53.4	8.2	31.6
16	14.5	21.5	23.9	23.5	65.8	8.0	31.6
18	17.5	21.7	23.9	26.5	65.8	8.0	36.2
20	19.5	26.0	29.6	30.5	66.1	8.9	39.8
22	22.0	26.0	29.6	33.6	66.1	8.9	43.0
24	25.0	34.5	37.8	36.1	65.7	9.2	46.4
28	29.0	34.5	37.8	41.4	66.2	9.2	53.0
32	34.0	43.6	47.8	48.6	73.8	11.7	60.0
36	38.5	43.6	47.8	54.8	83.8	11.7	66.2
40	48.0	52.6	57.8	60.9	83.8	11.7	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)

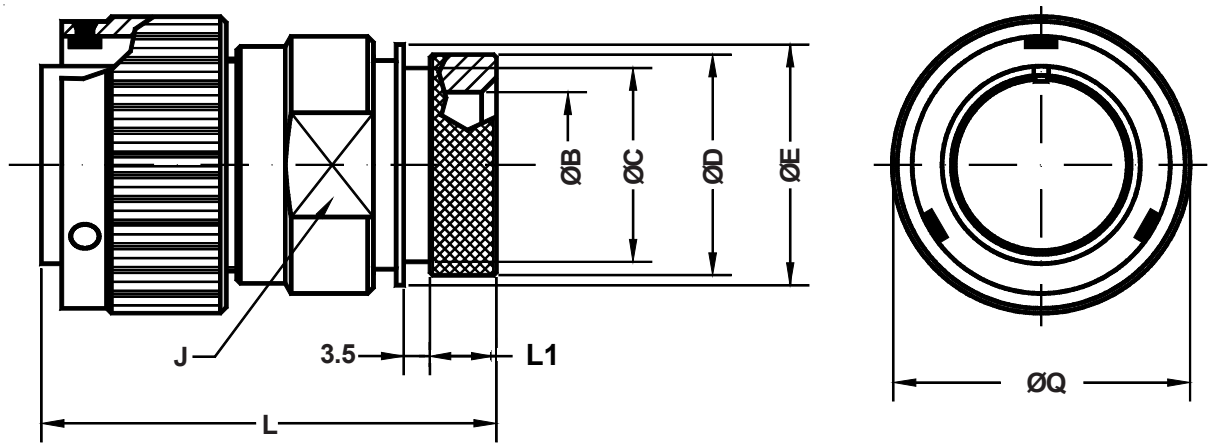
B

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

ITS G 31 06 GR 20-27 P Y XXX

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



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

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TABLE I: DIMENSIONS

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

TABLE II: MODIFICATION CODES

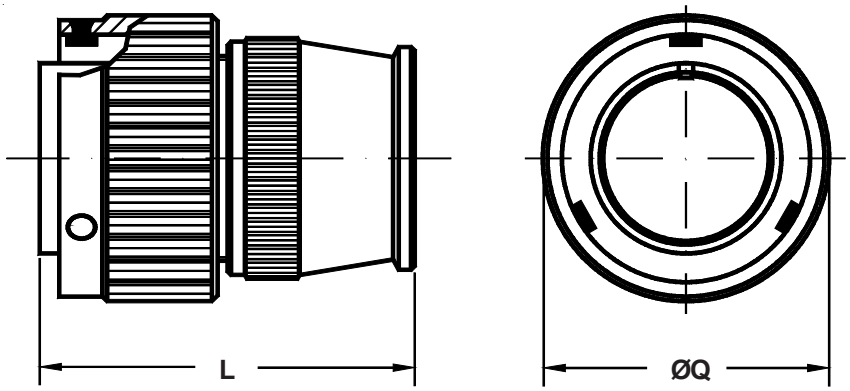
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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

ITS G 31 06 RS 20-27 P Y XXX

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



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

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TABLE I: DIMENSIONS

Shell Size	L Max.	ØQ ±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

TABLE II: MODIFICATION CODES

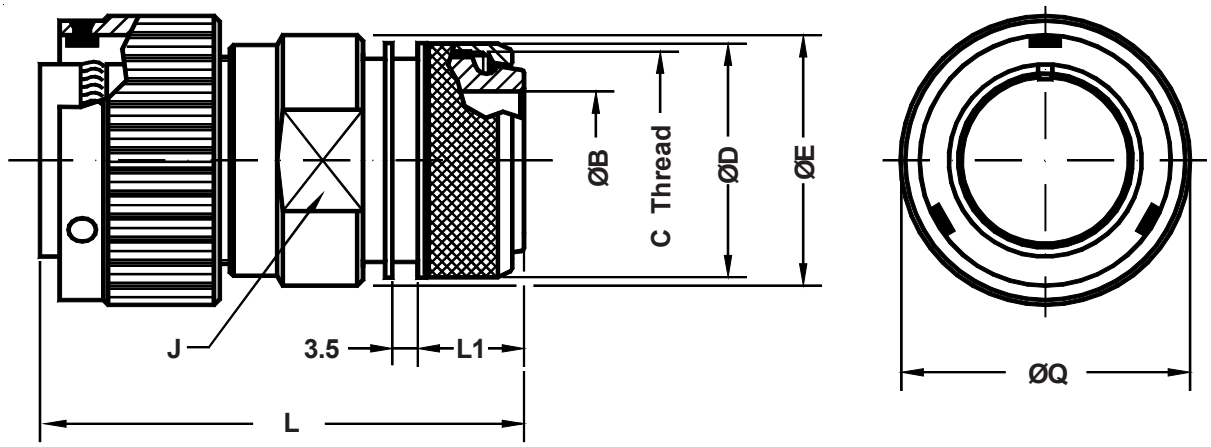
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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ITS 3106 (SP) and ITS G 3106 (SP)
ITS 4106 (SP) and ITS G 4106 (SP)
Straight Cylindrical Plug Assembly
with EMI/RFI Shield Termination Backshell

ITS G 31 06 SP 20-27 P Y XXX

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



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

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TABLE I: DIMENSIONS

Shell Size	ØB Min.	C Thread	ØD ±0.2	ØE ±0.2	J Key	L Max.	L1 ±0.1	ØQ ±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

TABLE II: MODIFICATION CODES

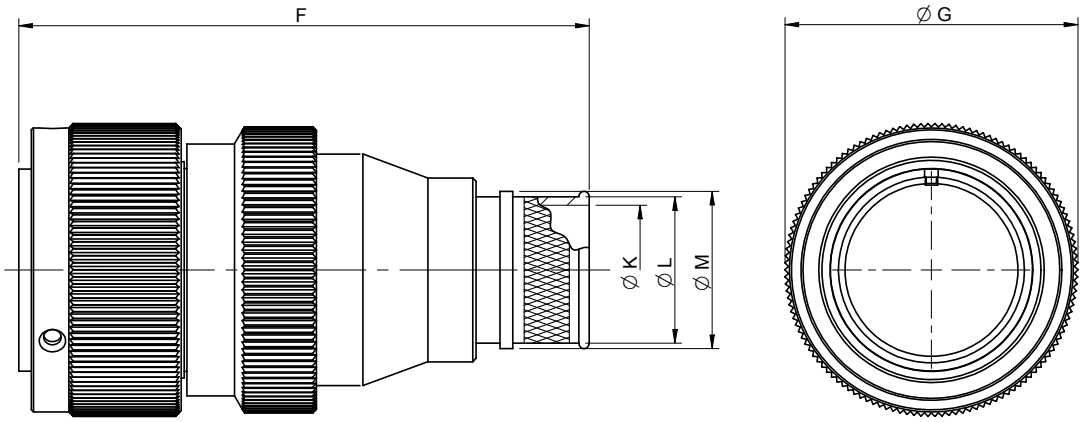
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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



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.

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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

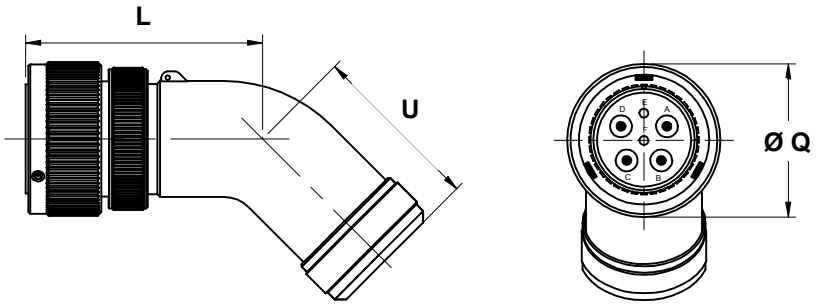
Entry size	ØK	ØL	ØM
01	3.2	6.4	7.9
02	4.8	7.9	9.5
03	6.4	9.5	11.1
04	7.9	11.1	12.7
05	9.5	12.7	14.3
06	11.1	14.3	15.8
07	12.7	15.9	17.4
08	14.3	17.5	19.1
09	15.9	19.1	20.6
10	17.5	20.6	22.2
11	19.1	22.2	23.8
12	20.6	23.8	25.4
13	22.2	25.4	27.0
14	23.8	27.0	28.5
15	25.4	28.6	30.1
16	27.0	30.2	31.8
17	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

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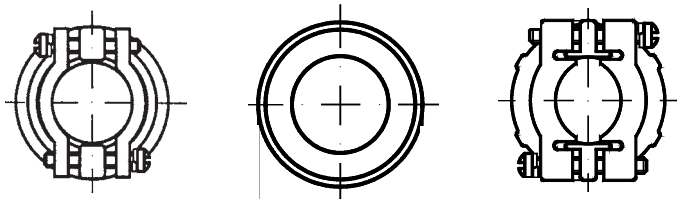
ITS 31045 (A) and ITS 31045 (R)
ITS 41045 (A) and ITS 41045 (R)
Cylindrical Plug Assembly with 45° Backshell

ITS G 31 045 A 20-27 P Y XXX

- Reverse Bayonet Coupling
- Grounding Fingers (Omit for Standard)
- Contact Type
  - 31 - Solder
  - 41 - Crimp
- 45° Plug Assembly
- Connector/Backshell Class
  - A - Non-Environmental; Supplied with Backshell Only
  - R - Environmental; Supplied with Backshell and Grommet
- Shell Size and Insert Arrangement (See Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- Mod Code Option (See Table II)



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



IT 3057 C Cable Clamp

IT 3420 Neoprene Sleeve

IT 3057 A Cable Clamp

Application Notes:

1. 45° plug assembly 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

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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	
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)

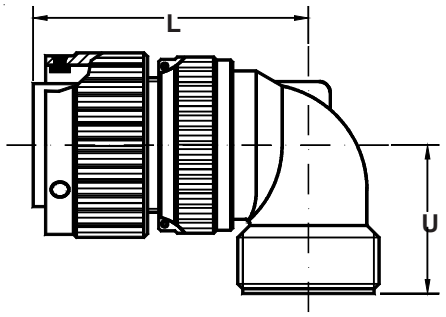
ACCESSORY OPTIONS	
N1	Connector with IT 3057 A cable clamp
N2	Connector with long backshell
N5	Connector with IT 3057 C cable clamp
N12	Connector with IT 3057 A cable clamp and IT 3420 neoprene sleeve
Omit for standard version	

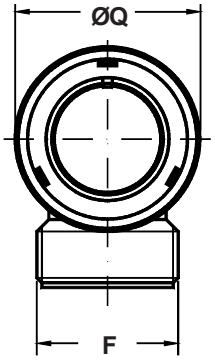
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ITS 3108 (A) and ITS 3108 (R)
ITS 4108 (A) and ITS 4108 (R)
Cylindrical Plug Assembly with 90° Backshell

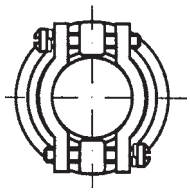
ITS G 31 08 A 20-27 P Y XXX

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

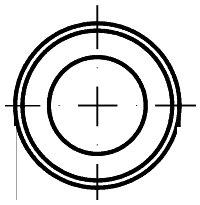




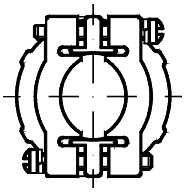
Order Cable Clamps and Sleeves Separately or Use Mod Codes (Table II) to Add Clamp toThis Assembly.



IT 3057 C
Cable Clamp



IT 3420
Neoprene Sleeve



IT 3057 A
Cable Clamp

Application Notes:

1. 90° plug assembly 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

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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	
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)

ACCESSORY OPTIONS	
N1	Connector with IT 3057 A cable clamp
N2	Connector with long backshell
N5	Connector with IT 3057 C cable clamp
N12	Connector with IT 3057 A cable clamp and IT 3420 neoprene sleeve
Omit for standard version	

B

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

ITS G 31 08 A 20-27 P Y BR2722 XXX

- Reverse Bayonet Coupling
- Grounding Fingers (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
- Shell Size and Insert Arrangement (See Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- UNI4883 Backshell Adapter Shell Size Designator (See Note 1)
- Mod Code Option (See Table II)

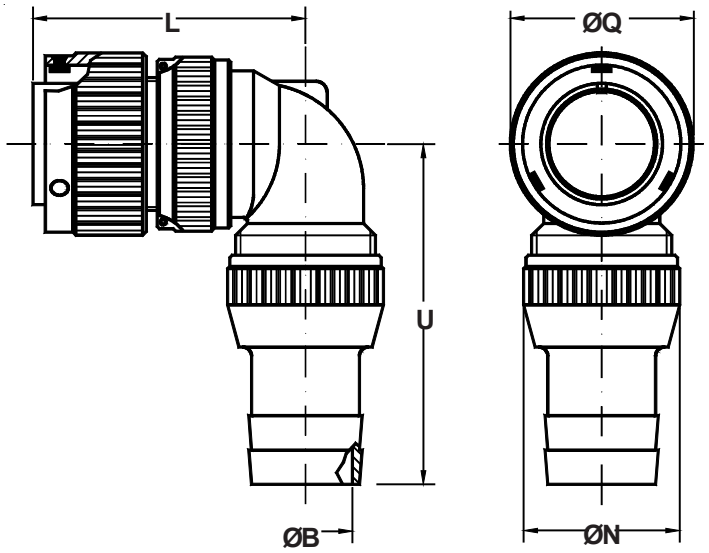


TABLE II: MODIFICATION CODES

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

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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: Ø Min	Ø Max	ØB ±0.1	ØQ ±0.2	
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	

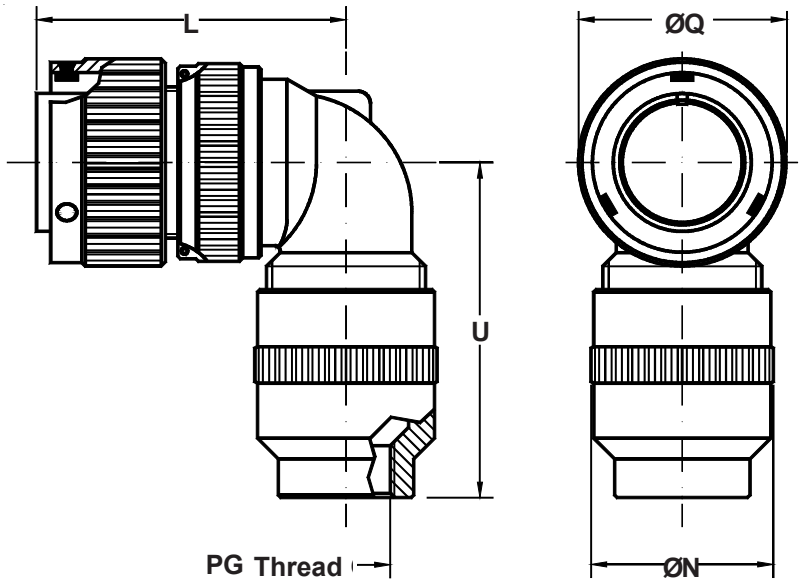
B

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

ITS G 31 08 A 20-27 P Y PG16 XXX

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



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

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TABLE I: DIMENSIONS

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

TABLE II: MODIFICATION CODES

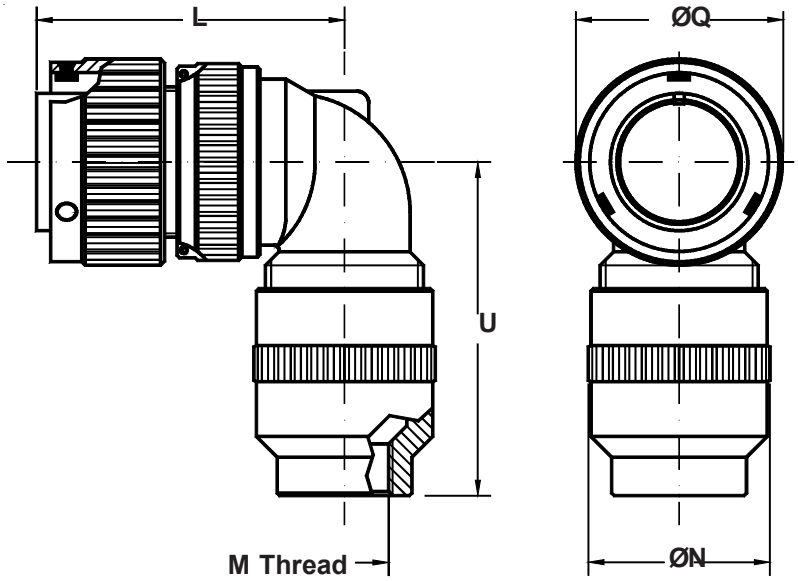
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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

ITS G 31 08 A 20-27 P Y FM25 XXX

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



Application Notes:

1. 90° plug with backshell for the attachment of metric thread cable glands.
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.
7. Cable gland not supplied.

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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

TABLE II: MODIFICATION CODES

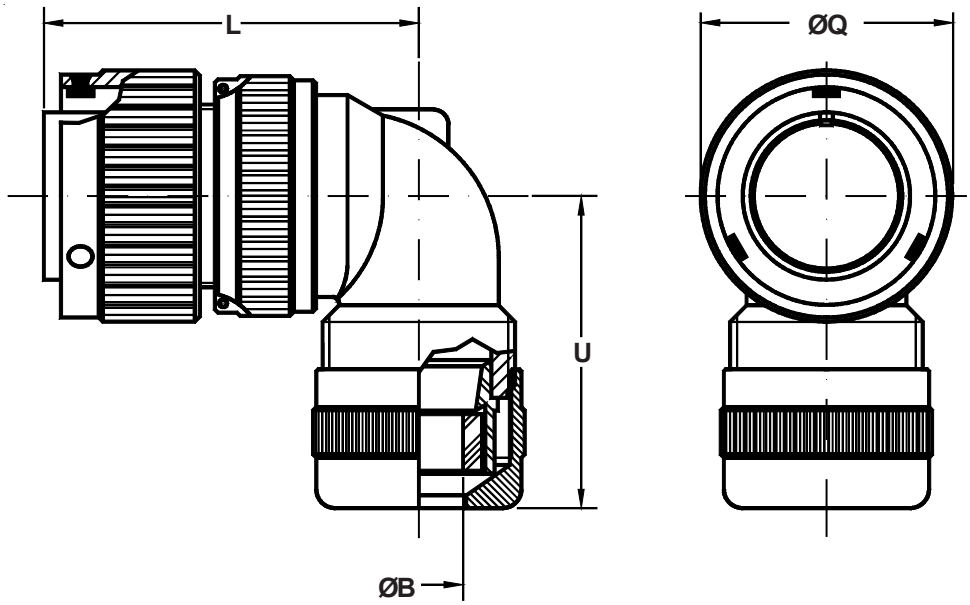
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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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

- ITS — Reverse Bayonet Coupling
- G — Grounding Fingers (Omit for Standard)
- 31 — Contact Type
  - 31 - Solder
  - 41 - Crimp
- 08 — 90° Plug Assembly
- A — Environmental Class
  - A - Non-Environmental; Supplied with Backshell Only
  - R - Environmental; Supplied with Backshell and Grommet
- 20-27 — Shell Size and Insert Arrangement (See Section A)
- P — Contact Gender
  - P - Pin
  - S - Socket
- Y — Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- PHM11 — PHM Size
- XXX — Mod Code Option (See Table II)



Application Notes:

1. 90° plug assembly with a cable-sealing 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

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TABLE I: DIMENSIONS

Shell Size	PHM Size	ØB min. – Max.	L Max.	ØQ ±0.2	U Max.
10 SL	11	2–11	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)

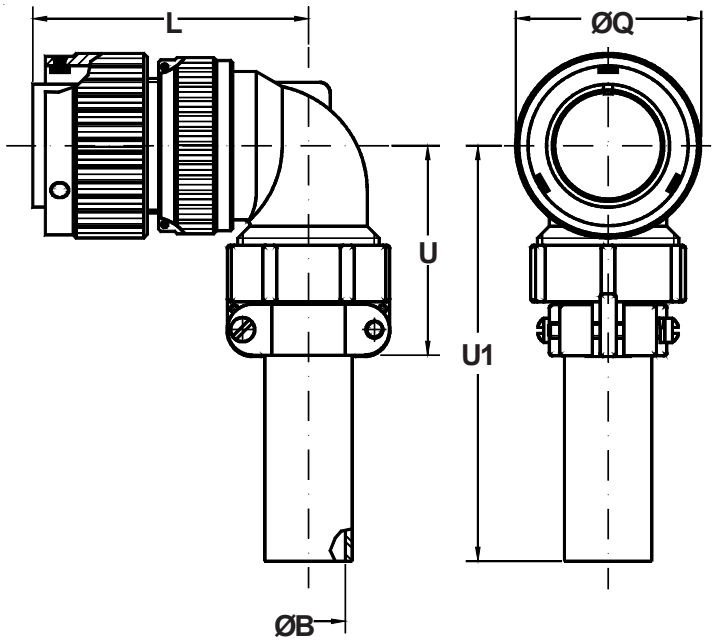
B

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

ITS G 31 08 F 20-27 P Y XXX

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



Application Notes:

1. 90° plug assembly with an insulating grommet, environmental backshell, class A IT3057cable 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

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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

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)

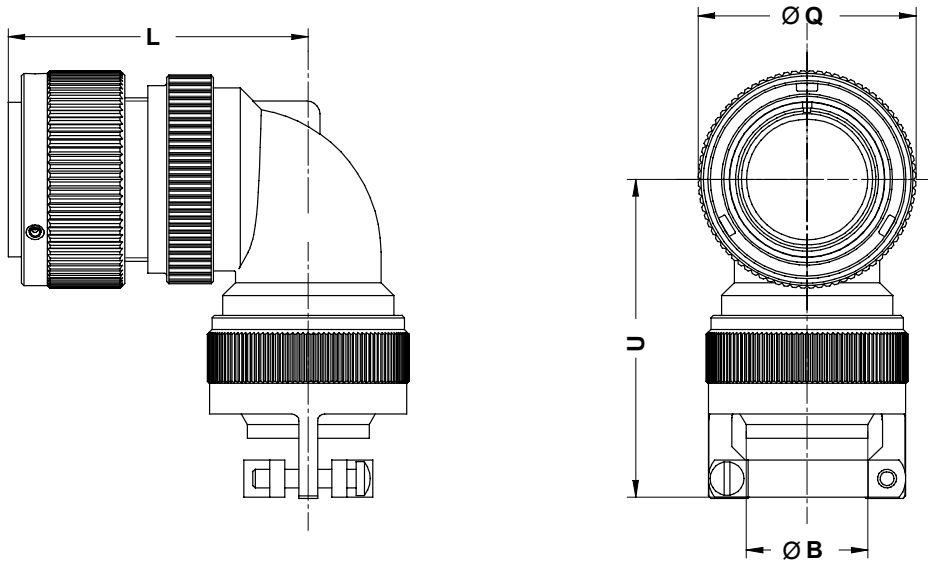
B

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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

ITS G 31 08 A 20-27 P Y N5 XXX

- Reverse Bayonet Coupling
- Grounding Fingers (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 Wire Sealing Grommet
- Shell Size and Insert Arrangement (See Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- Class “C” Environmental Cable Clamp
- Mod Code Option (See Table II)



Application Notes:

1. 90° plug assembly 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

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TABLE I: DIMENSIONS

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

TABLE II: MODIFICATION CODES

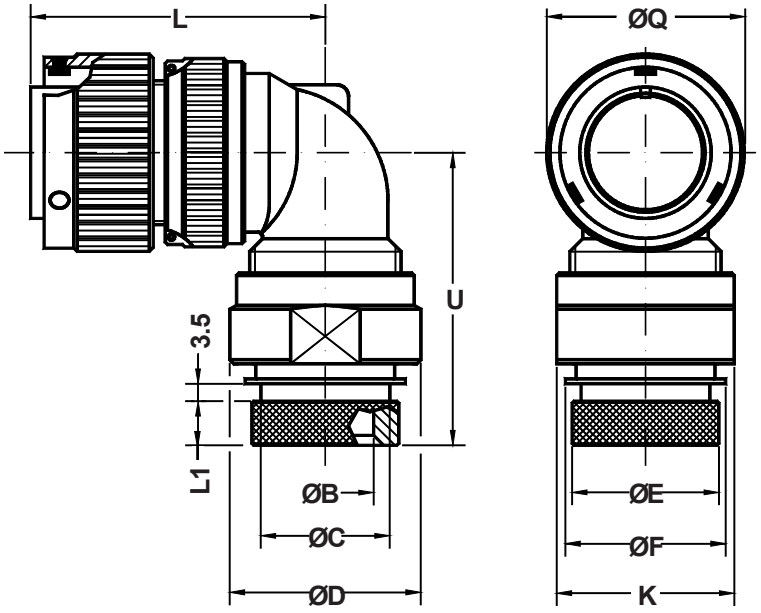
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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

ITS G 31 08 GR 20-27 P Y XXX

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



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.

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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

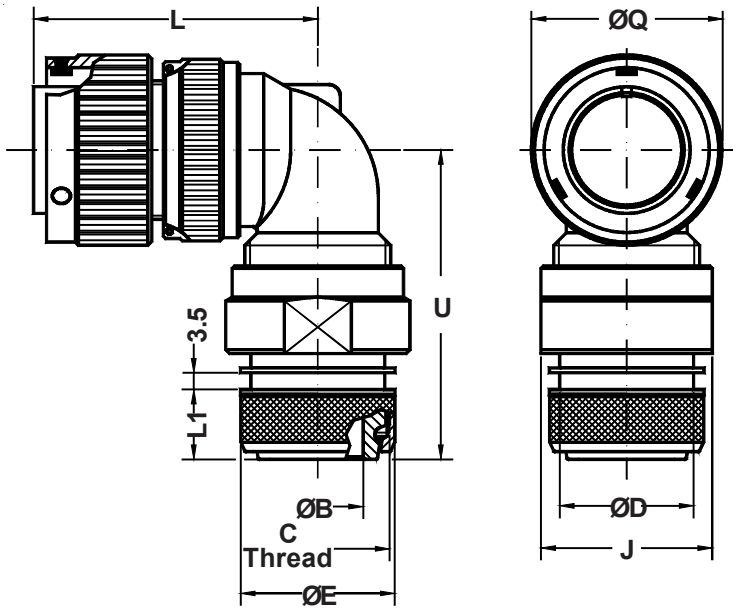
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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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

ITS G 31 08 SP 20-27 P Y XXX

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



Application Notes:

1. 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.
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

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TABLE I: DIMENSIONS

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

B

TABLE II: MODIFICATION CODES

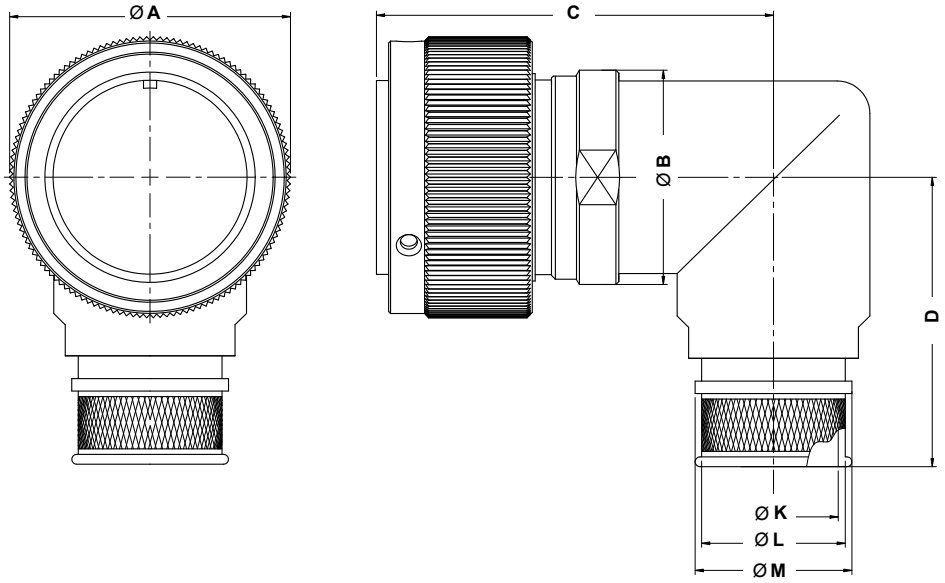
CONTACT OPTIONS	
Sym	**Description**
B0	Connector Less Contacts
B1	Connector with Gold Plated Contacts
Omit for standard version (Silver plated)	
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive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

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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
- Shell Size and Insert Arrangement (See Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- BAND-IT Backshell
- Mod Code Option (See Table II)



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.

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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)

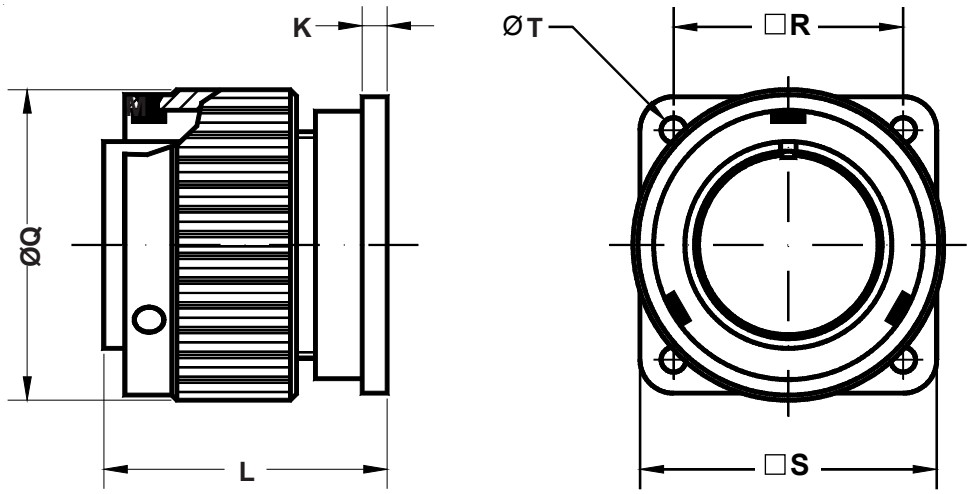
B

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

ITS G 31 26 A 20-27 P Y XXX

- Reverse Bayonet Coupling
- Grounding Fingers (Omit for Standard)
- Contact Type
  - 31 - Solder
  - 41 - Crimp
- 26 - Panel Mount Plug
- Connector Class
  - A - General Duty
  - R - Sealed Insulators; Environmental When used with Wire Sealing Backshells
- Shell Size and Insert Arrangement (See Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- Mod Code Option (See Table II)



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

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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

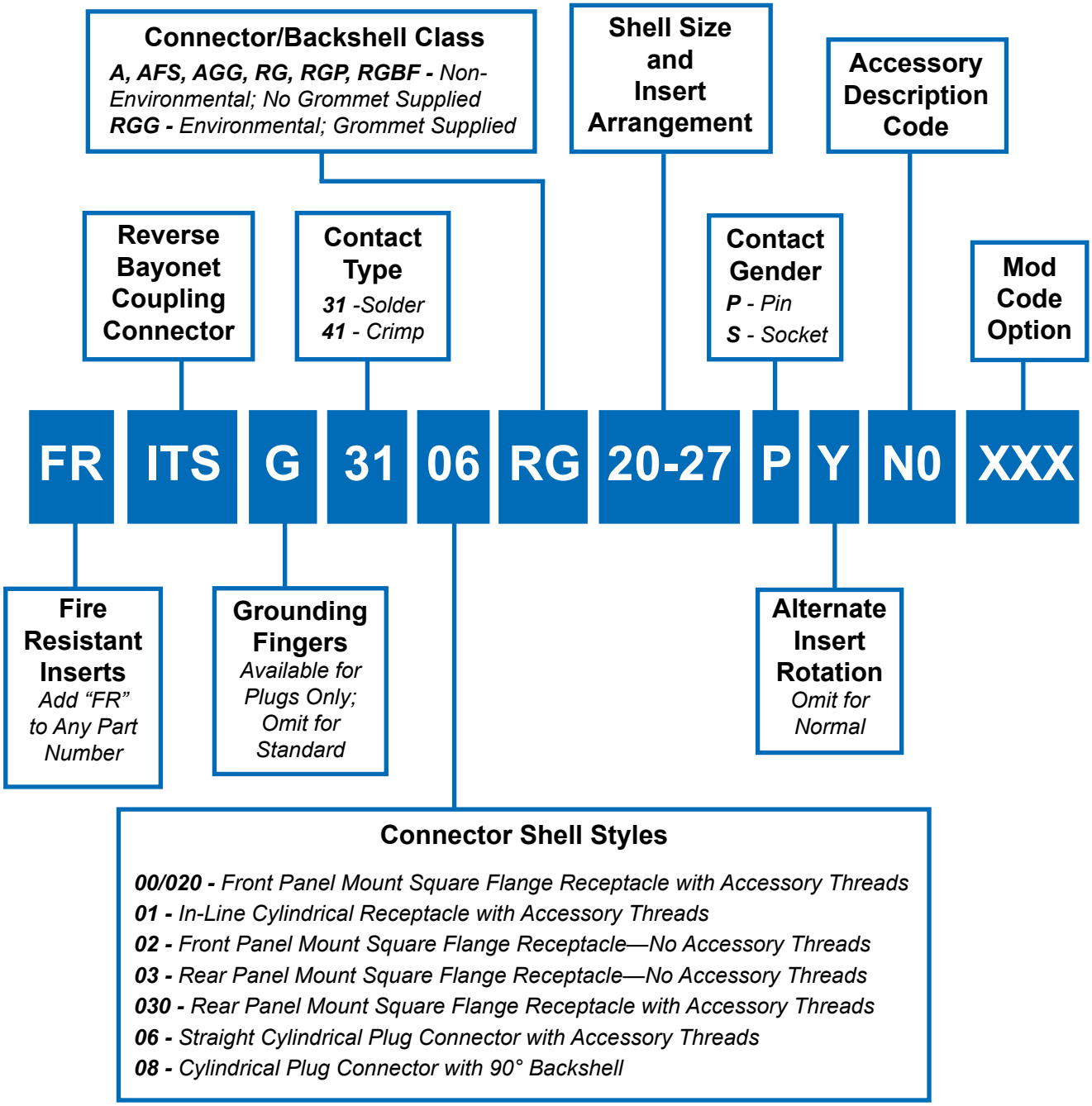
TABLE II: MODIFICATION CODES

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

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Glenair Series ITS-RG
Reverse Bayonet Connector Assemblies
How to Order • Part Number Breakdown



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Glenair Series ITS-RG
Rubber-Coated 5015 Type Reverse Bayonet Connectors
Product Line Overview



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).

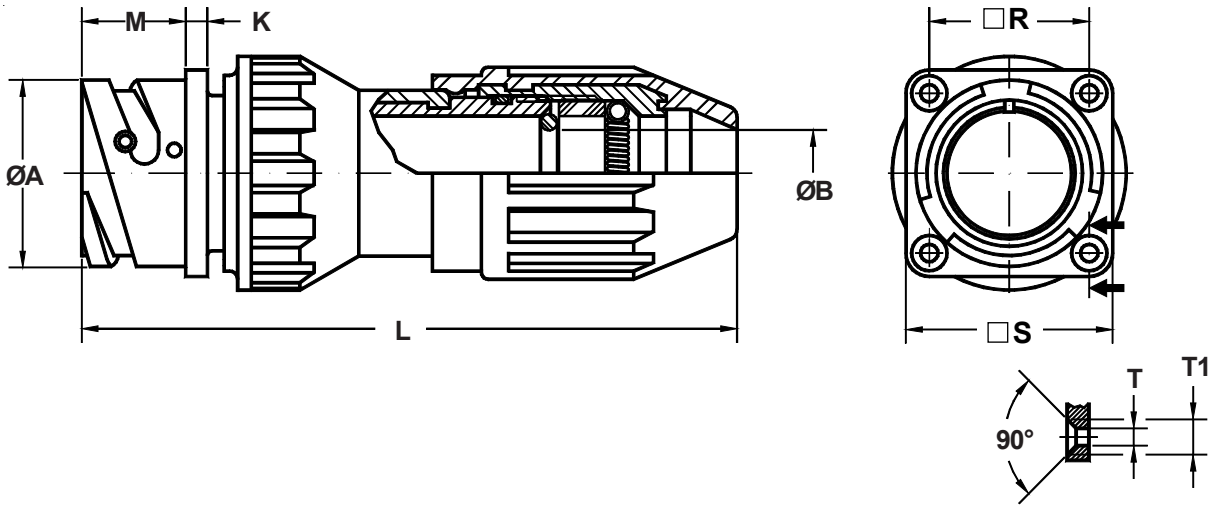
Insulating Parts: High insulation synthetic rubber, halogen free, resistant to oils and temperature extremes (-55°C to +125°C).

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

FR ITS 41 00 RG 20-27 P Y XXX

- **FR** — Fire Resistant Rubber Compound
- **ITS** — Reverse Bayonet Coupling
- **41** — Contact Type
  41 - Crimp
- **00** — 00 - Front Wall Mount
- **RG** — Connector/Backshell Class
  RG - Non-Environmental; Supplied with Backshell Only
  RRG - Environmental; Supplied with Wire Sealing Grommet
- **20-27** — Shell Size and Insert Arrangement (See Section A)
- **P** — Contact Gender
  P - Pin
  S - Socket
- **Y** — Alternate Insert Rotation (W, X, Y, Z)
  Omit for Normal (See Section A)
- **XXX** — Mod Code Option (See Table II)



C

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.

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TABLE I: DIMENSIONS

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

C

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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

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

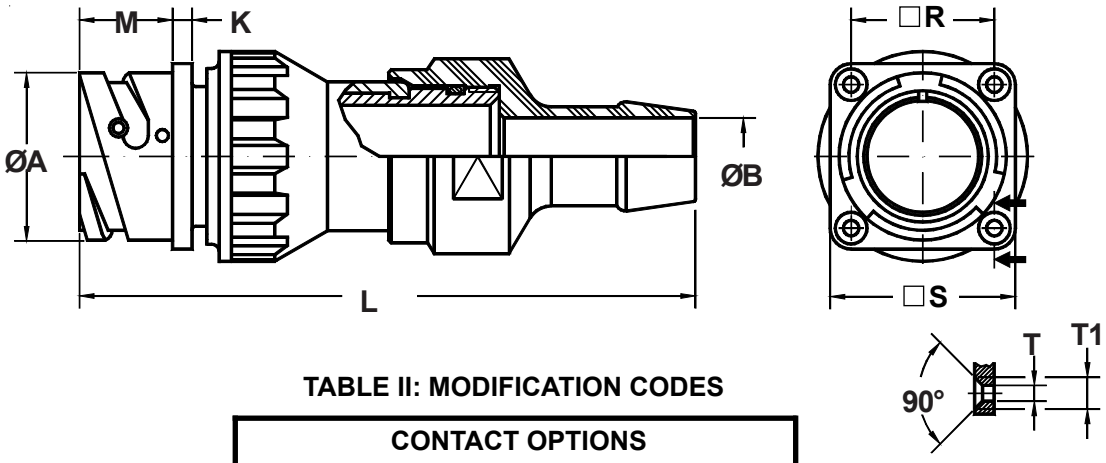


TABLE II: MODIFICATION CODES

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 UNI41883 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.

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

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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
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

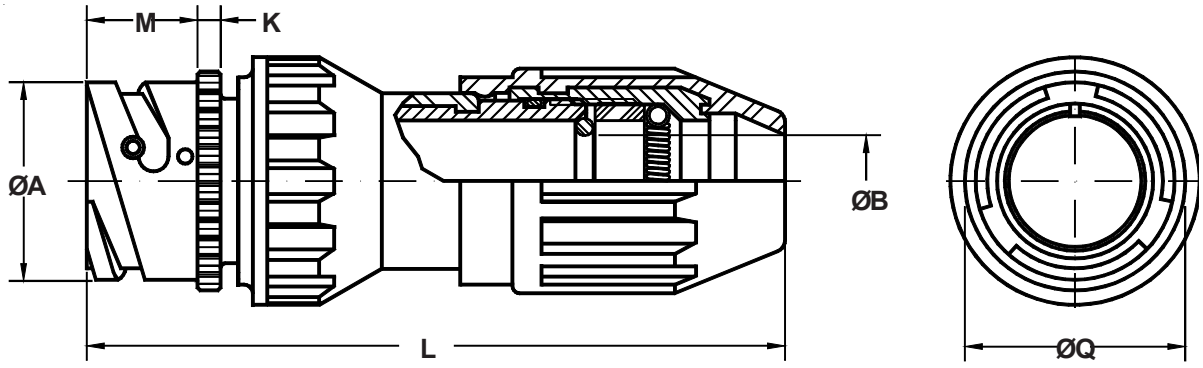
Shell Size	In accordance with UNI 4883 ø Min.	ø Max.	ØB ±0.1	±0.2
10SL	12.0	17.0	10.5	
18	22.0	27.0	20.5	
20 - 22	12.0	17.0	10.5	
20 - 22	22.0	27.0	20.5	
20 - 22	28.0	33.0	31.5	
24 - 28	20.0	25.0	16.5	
24 - 28	22.0	27.0	20.5	
24 - 28	26.0	31.0	22.5	
24 - 28	28.0	33.0	26.5	
24 - 28	30.0	35.0	26.5	
24 - 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	

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

FR ITS 41 01 RG 20-27 P Y XXX

- FR — Fire Resistant Rubber Compound
- ITS — Reverse Bayonet Coupling
- 41 — Contact Type
  - 41 - Crimp
- 01 — 01 - In-Line Receptacle Assembly
- RG — Connector/Backshell Class
  - RG - Non-Environmental; Supplied with Backshell Only
  - RRG - Environmental; Supplied with Wire Sealing Grommet
- 20-27 — Shell Size and Insert Arrangement (See Section A)
- P — Contact Gender
  - P - Pin
  - S - Socket
- Y — Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- XXX — Mod Code Option (See Table II)



C

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.

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TABLE I: DIMENSIONS

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

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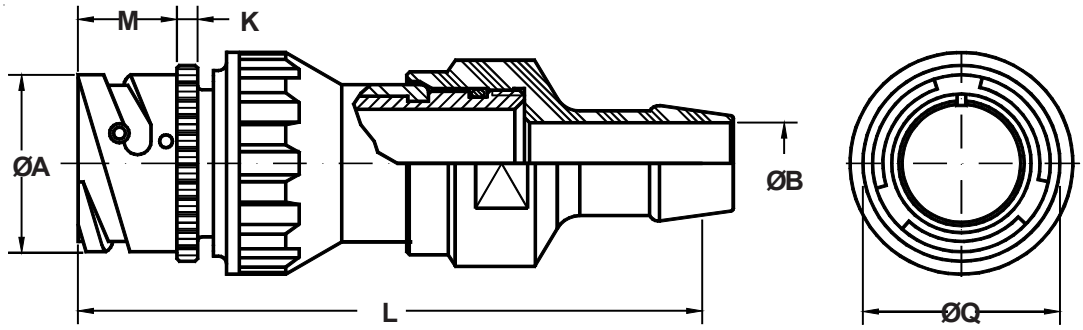
ITS 4101 RG (D1) and ITS 4101 RRG (D1)
Cylindrical In-Line Receptacle Assembly
with Rubber-Coated Backshell
for Termination of UNI4883 Rubber Conduit

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

- FR — Fire Resistant Rubber Compound
- ITS — Reverse Bayonet Coupling
- 41 — Contact Type
  - 41 - Crimp
- 01 — 01 - In-Line Receptacle Assembly
- RG — Connector/Backshell Class
  - RG - Non-Environmental; Supplied with Backshell Only
  - RRG - Environmental; Supplied with Wire Sealing Grommet
- 20-27 — Shell Size and Insert Arrangement (See Section A)
- P — Contact Gender
  - P - Pin
  - S - Socket
- Y — Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- D12722 — UNI4883 Backshell Adapter Shell Size Designator (See Table III)
- XXX — Mod Code Option (See Table II)

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. In-line receptacle assembly with rear 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.

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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 ø Min.	ø Max.	ØB ±0.1
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

±0.2

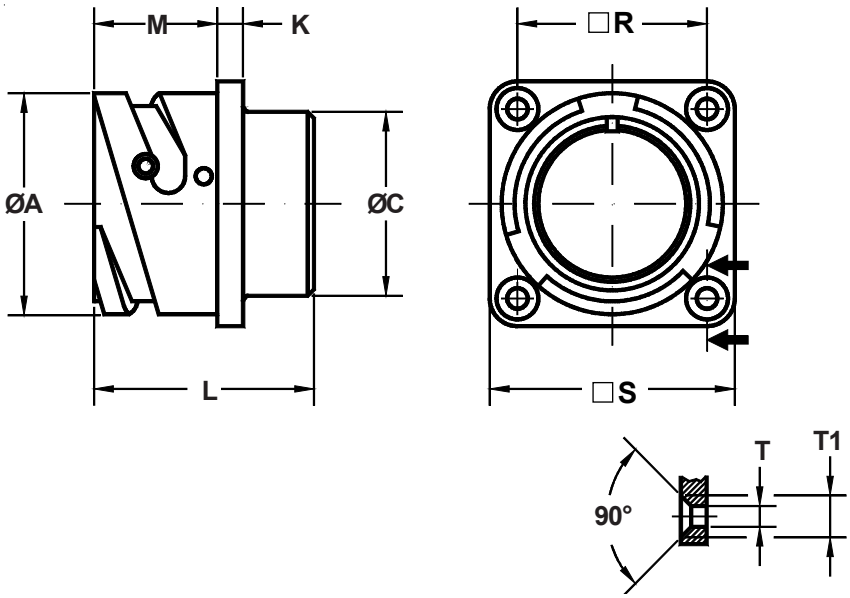
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ITS 4102 (AFS) and ITS 4102 (RFS)
Front Panel Mount Square Flange Receptacle
No Accessory Threads

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
- Shell Size and Insert Arrangement (See Section A)
- Contact Gender
  P - Pin
  S - Socket
- Alternate Insert Rotation (W, X, Y, Z)
  Omit for Normal (See Section A)
- Mod Code Option (See Table II)



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.

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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
14 S	24.5	19.2	3.3	24.7	14.5	23.00	30.4	3.2	6.5
16 S	27.2	22.4	3.3	24.7	14.5	24.60	32.5	3.2	6.5
16	27.2	22.4	3.3	33.8	19.1	24.60	32.5	3.2	6.5
18	30.7	25.6	4.0	34.5	19.1	27.00	35.0	3.2	6.5
20	34.0	29.0	4.0	34.5	19.1	29.40	38.0	3.2	6.5
22	37.3	32.2	4.0	34.5	19.6	31.75	41.0	3.2	6.5
24	40.9	35.3	4.0	35.7	20.6	34.90	44.5	3.7	7.5
28	46.7	41.4	4.0	35.7	20.7	39.70	50.9	3.7	7.5
32	53.4	47.8	4.0	37.3	22.3	44.45	57.0	4.3	8.0
36	59.6	54.1	4.0	37.3	22.3	49.20	63.5	4.3	8.0
40	65.5	59.0	4.0	37.3	22.3	55.55	69.9	4.3	8.0

C

TABLE II: MODIFICATION CODES

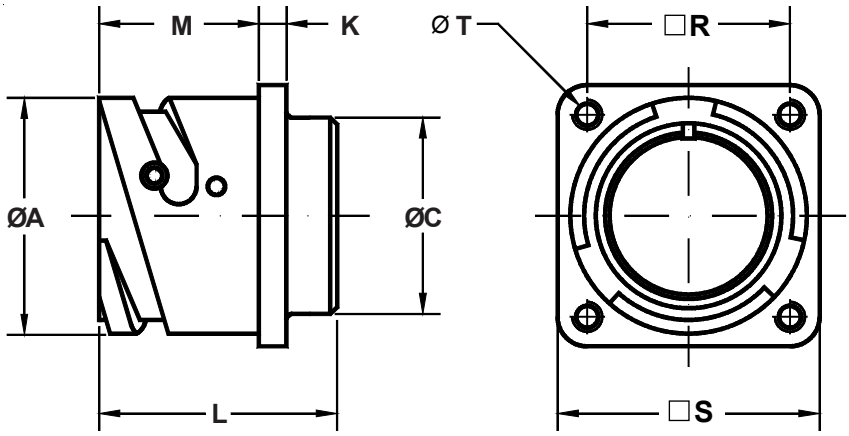
CONTACT OPTIONS	
Sym	**Description**
B0	Connector less contacts
B1	Connector with gold plated contacts
Omit for version Silver plated	

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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

- FR — Fire Resistant Rubber Compound
- ITS — Reverse Bayonet Coupling
- 41 — Contact Type
  - 41 - Crimp
- 03 — 02 - Rear Box Mount
- A — Connector Class
  - A - General Duty
  - R - Sealed Insulator
- FP — Mounting Holes
  - FP - Non-Threaded Through Mounting Holes
  - OMIT - For Standard (Threaded) Mounting Holes
- 20-27 — Shell Size and Insert Arrangement (See Section A)
- P — Contact Gender
  - P - Pin
  - S - Socket
- Y — Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- XXX — Mod Code Option (See Table II)



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.

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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

C

TABLE II: MODIFICATION CODES

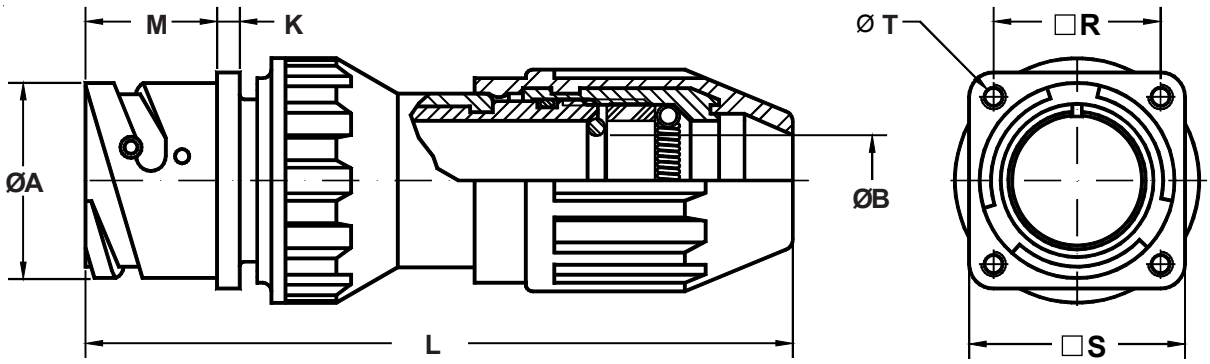
CONTACT OPTIONS	
Sym	**Description**
B0	Connector less contacts
B1	Connector with gold plated contacts
Omit for version Silver plated	

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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

- FR — Fire Resistant Rubber Compound
- ITS — Reverse Bayonet Coupling
- 41 — Contact Type 41 - Crimp
- 030 - Rear Wall Mount
- RG — Connector/Backshell Class
  - RG - Non-Environmental; Supplied with Backshell Only
  - RRG - Environmental; Supplied with Wire Sealing Grommet
- FP — Mounting Holes
  - FP - Non-Threaded Through Mounting Holes
  - OMIT - For Standard (Threaded) Mounting Holes
- 20-27 — Shell Size and Insert Arrangement (See Section A)
- P — Contact Gender
  - P - Pin
  - S - Socket
- Y — Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- XXX — Mod Code Option (See Table II)



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.

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TABLE I: DIMENSIONS

Shell Size	ØA +0 -0.1	ØB Min.	ØB Max.	K ±0.2	L Max.	M +0.2 -0	R ±0.1	S ±0.2	T Thread
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	

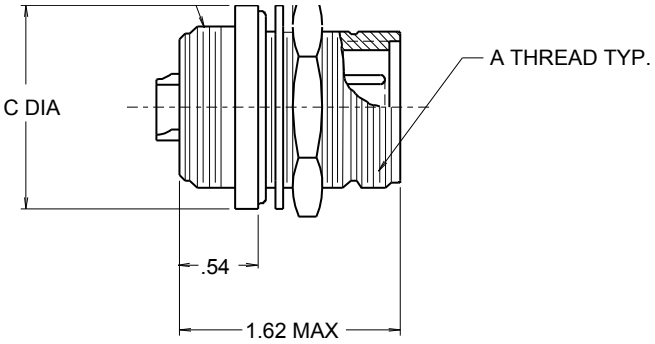
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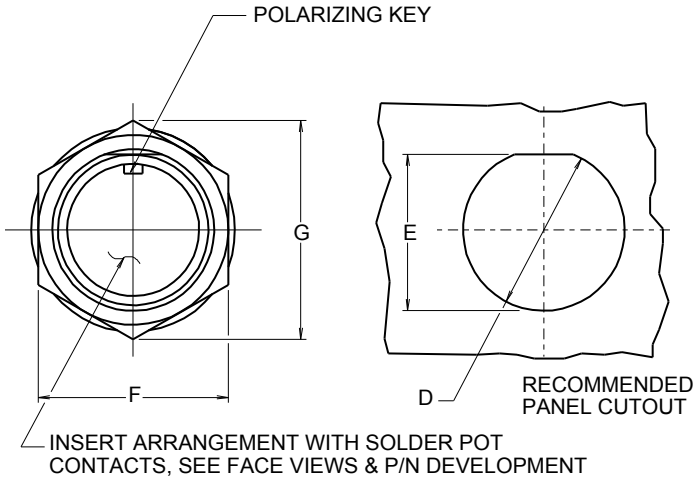
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257-012
Environment Resistant Receptacle
MIL-DTL-5015 Type
Mates to Mil-C-5015 (MS3106) Type Plug Connector

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)





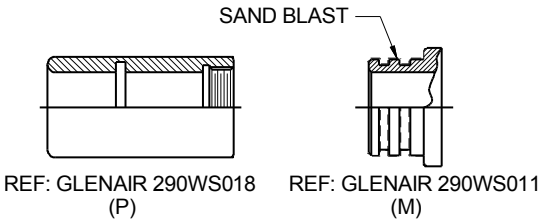


TABLE I: CONNECTOR DIMENSIONS

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)

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TABLE I: DIMENSIONS

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

C

TABLE II: MODIFICATION CODES

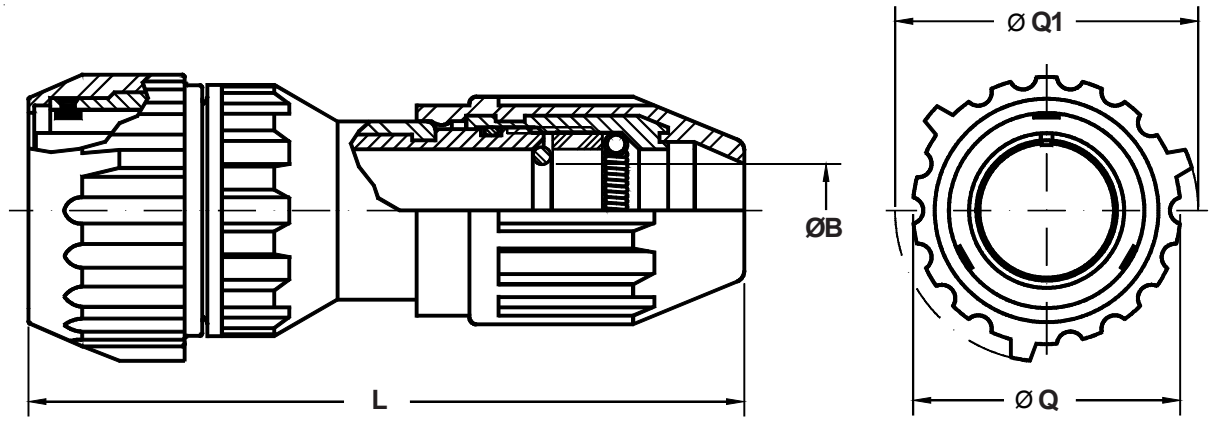
CONTACT OPTIONS	
Sym	**Description**
B0	Connector less contacts
B1	Connector with gold plated contacts
Omit for version Silver plated	

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

FR ITS G 41 06 RG 20-27 P Y XXX

- FR — Fire Resistant Rubber Compound
- ITS — Reverse Bayonet Coupling
- G — Grounding Fingers (Omit for Standard)
- 41 — Contact Type: 41 - Crimp Contacts
- 06 — 06 - Straight Plug Connector
- RG — Connector/Backshell Class: RG - Non-Environmental; Supplied with Backshell Only; RRG - Environmental; Supplied with Wire Sealing Grommet
- 20-27 — Shell Size and Insert Arrangement (See Section A)
- P — Contact Gender: P - Pin; S - Socket
- Y — Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- XXX — Mod Code Option (See Table II)



C

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.

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TABLE I: DIMENSIONS

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

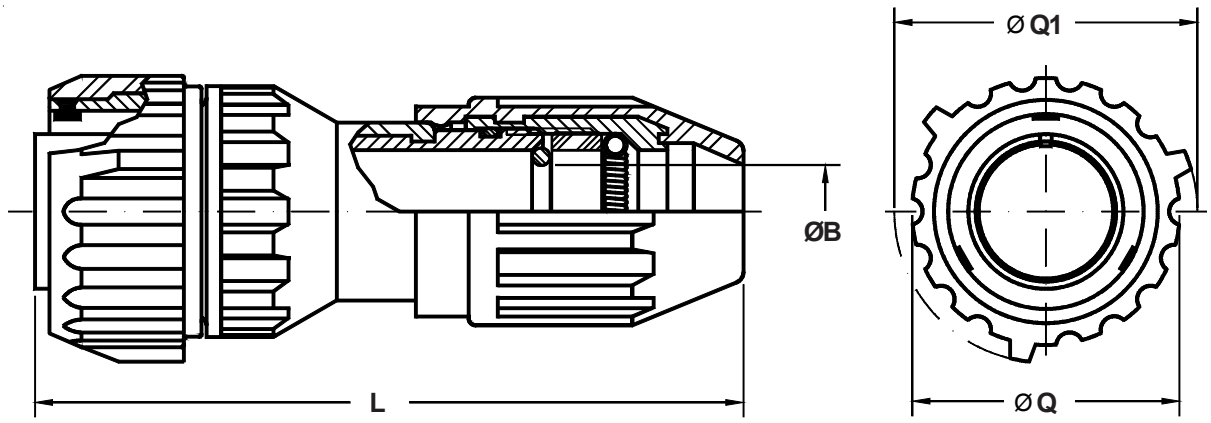
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ITS 4106 (RGP) and ITS 4106 (RRGP)
Straight Cylindrical Plug Connector with Rubber-Coated Cable Sealing Backshell for Use with 03 and 030 Receptacles

FR ITS G 41 06 RGP 20-27 P Y XXX

- FR — Fire Resistant Rubber Compound
- ITS — Reverse Bayonet Coupling
- G — Grounding Fingers (Omit for Standard)
- 41 — Contact Type: 41 - Crimp Contacts
- 06 — 06 - Straight Plug Connector
- RGP — Connector/Backshell Class: RGP - Non-Environmental; Supplied with Backshell Only; RRGP - Environmental; Supplied with Wire Sealing Grommet
- 20-27 — Shell Size and Insert Arrangement (See Section A)
- P — Contact Gender: P - Pin, S - Socket
- Y — Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- XXX — Mod Code Option (See Table II)



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.

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TABLE I: DIMENSIONS

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

TABLE II: MODIFICATION CODES

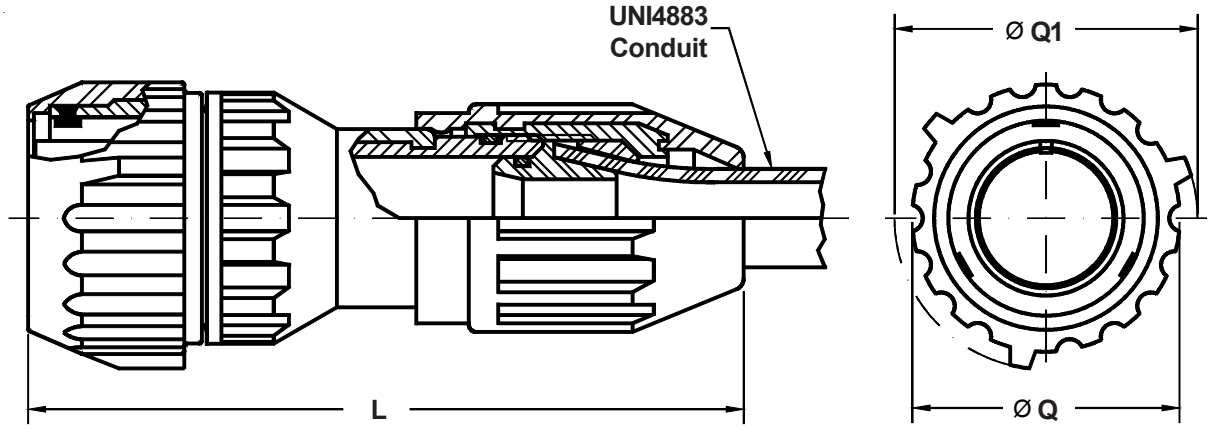
CONTACT OPTIONS	
Sym	**Description**
B0	Connector less contacts
B1	Connector with gold plated contacts
Omit for version Silver plated	

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

FR ITS G 41 06 RGBF 20-27 P Y 2924

- Fire Resistant Rubber Compound
- Reverse Bayonet Coupling
- Grounding Fingers (Omit for Standard)
- Contact Type
  - 41 - Crimp Contacts
- 06 - Straight Plug Connector
- Connector/Backshell Class
  - RGBF - Non-Environmental; Supplied with Backshell Only
  - RRGBF - Environmental; Supplied with Wire Sealing Grommet
- Shell Size and Insert Arrangement (See Section A)
- Contact Gender
  - P - Pin
  - S - Socket
- Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- UNI4883 Conduit Dimension



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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.

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TABLE I: DIMENSIONS

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

TABLE II: MODIFICATION CODES

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

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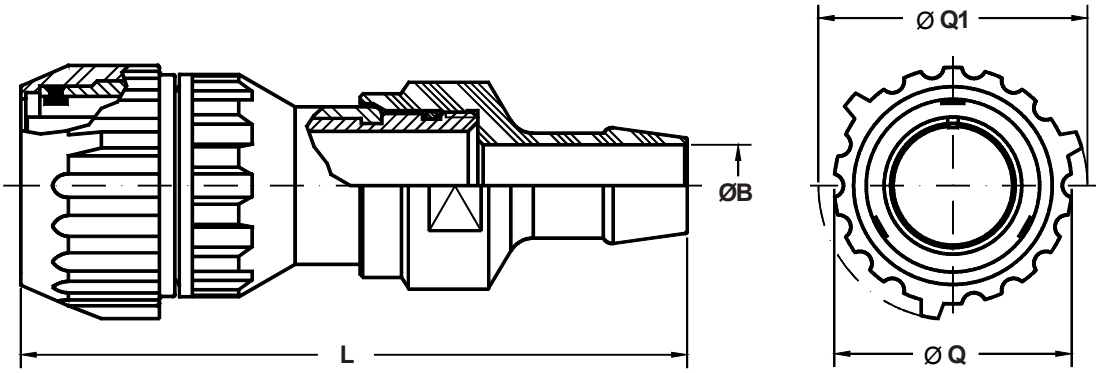
ITS 4106 RG and ITS 4106 RRG
Straight Plug Assembly
with Rubber-Coated Backshell
for Termination of UNI4883 Rubber Conduit

FR ITS G 41 06 RG 20-27 P Y D12722 XXX

- FR — Fire Resistant Rubber Compound
- ITS — Reverse Bayonet Coupling
- G — Grounding Fingers (Omit for Standard)
- 41 — Contact Type: 41 - Crimp
- 06 — 06 - Straight Plug Assembly
- RG — Connector/Backshell Class: RG - Non-Environmental; Supplied with Backshell Only; RRG - Environmental; Supplied with Wire Sealing Grommet
- 20-27 — Shell Size and Insert Arrangement (See Section A)
- P — Contact Gender: P - Pin, S - Socket
- Y — Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- D12722 — UNI4883 Backshell Adapter Shell Size Designator (See Table III)
- XXX — Mod Code Option (See Table II)

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.

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TABLE I: DIMENSIONS

Shell size	ØB	L Max.	ØQ ±0.5	ØQ1 ±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 ø Min.	ø Max.	ØB ±0.1 ±0.2
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

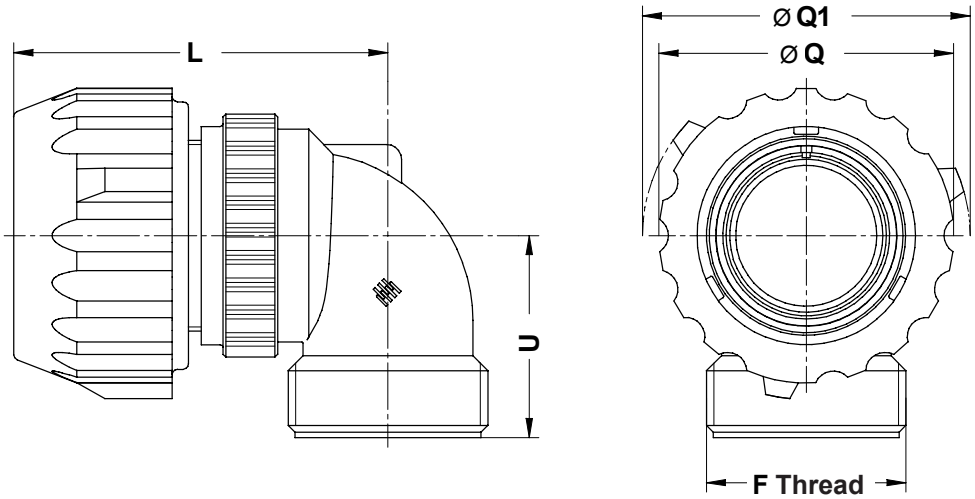
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ITS 3108 (AGG) and ITS 4108 (RGG)
90° Plug Connector with Rubber-Coated Coupling Nut

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

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



Application Notes:

1. 90° plug connector with rubber-coated coupling nut.
2. AGG - Non-Environmental. Supplied with backshell only;
   RGG - 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.

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TABLE I: DIMENSIONS

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

TABLE II: MODIFICATION CODES

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

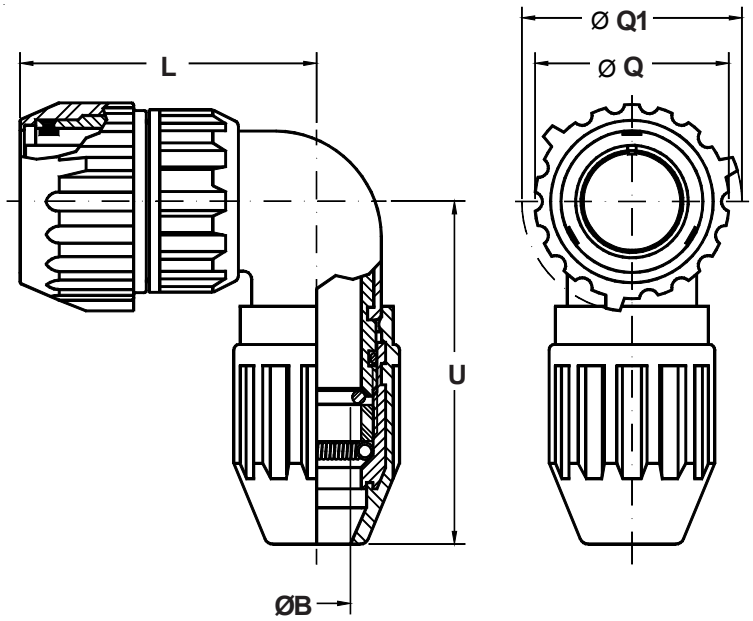
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ITS 4108 (RG) and ITS 4108 (RRG)
90° Cylindrical Plug Connector
with Rubber-Coated Cable Sealing Backshell

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

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



Application Notes:

1. 90° plug connector with rubber-coated cable clamp.
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.

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TABLE I: DIMENSIONS

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

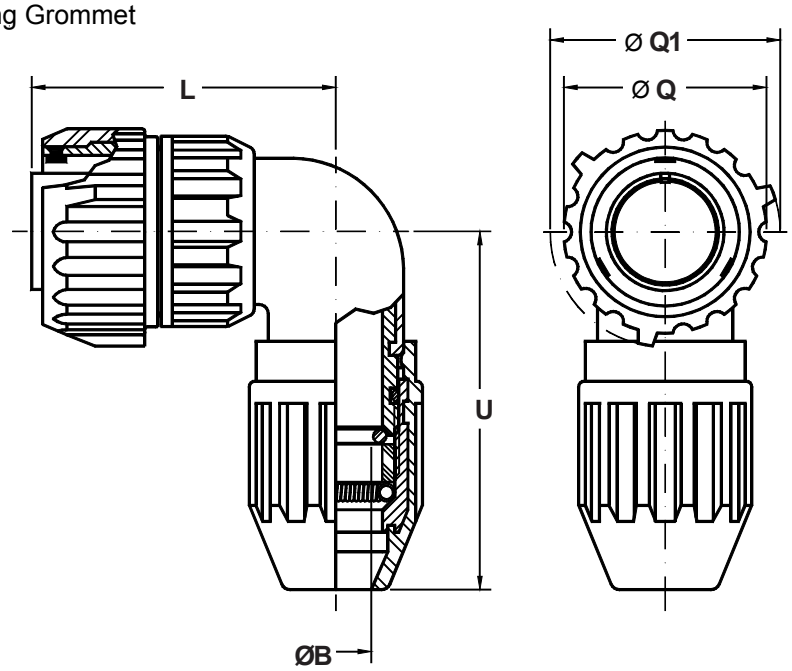
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ITS 4108 (RGP) and ITS 4108 (RRGP)
90° Cylindrical Plug Connector
with Rubber-Coated Cable Sealing Backshell for Use with 03 and 030 Receptacles

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

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



Application Notes:

1. 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.
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.

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TABLE I: DIMENSIONS

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

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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

- FR — Fire Resistant Rubber Compound
- ITS — Reverse Bayonet Coupling
- G — Grounding Fingers (Omit for Standard)
- 41 — Contact Type: 41 - Crimp
- 08 — 08 - 90° Plug Assembly
- RG — Connector/Backshell Class: RG (D1) - Non-Environmental; Supplied with Backshell Only; RRG (D1) - Environmental; Supplied with Wire Sealing Grommet
- 20-27 — Shell Size and Insert Arrangement (See Section A)
- P — Contact Gender: P - Pin, S - Socket
- Y — Alternate Insert Rotation (W, X, Y, Z) Omit for Normal (See Section A)
- D12722 — UNI4883 Backshell Adapter Shell Size Designator (See Table III)
- XXX — Mod Code Option (See Table II)

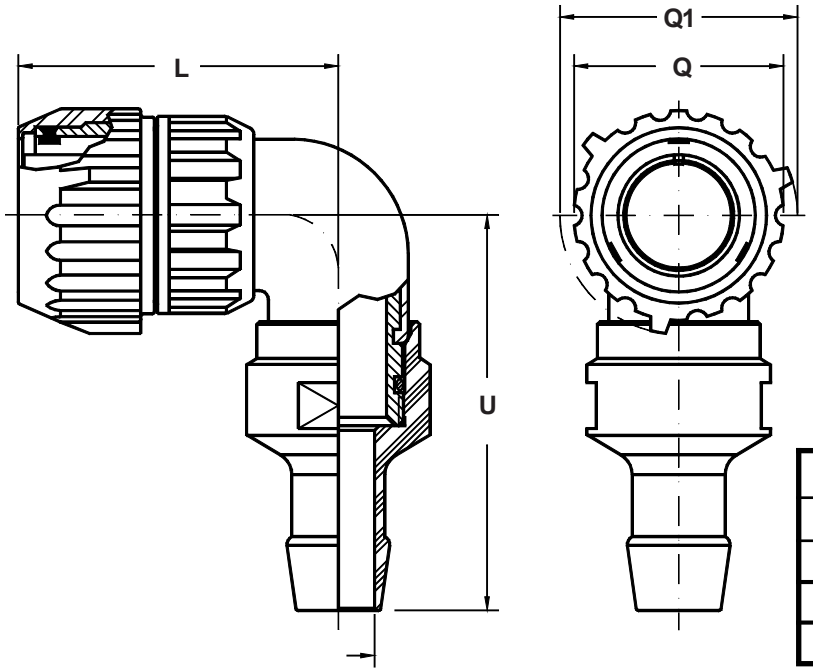


TABLE II: MODIFICATION CODES

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

Application Notes:

1. 90° plug assembly with rubber-coated backshell for termination of UNI41883 type rubber conduit.
2. RG (D1) - Non-Environmental. Supplied with backshell only;
   RRG (D1) - 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.

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TABLE I: DIMENSIONS

Shell size	*Rubber conduits* UNI 4883	L Max.	ØQ ±0.5	ØQ1 ±0.5	U 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 ø Min.	ø Max.	ØB ±0.1 ±0.2
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

C

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To Most People
It's Just a Connector



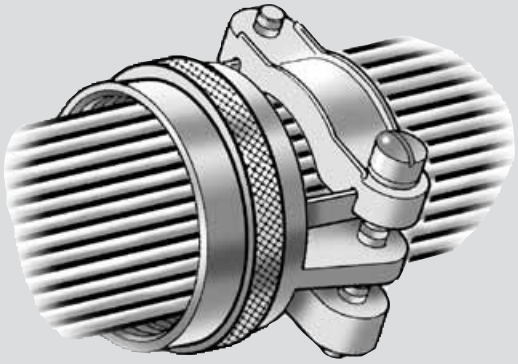
To Glenair
It's a Promise

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 challanges. 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.

Glenair®
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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.

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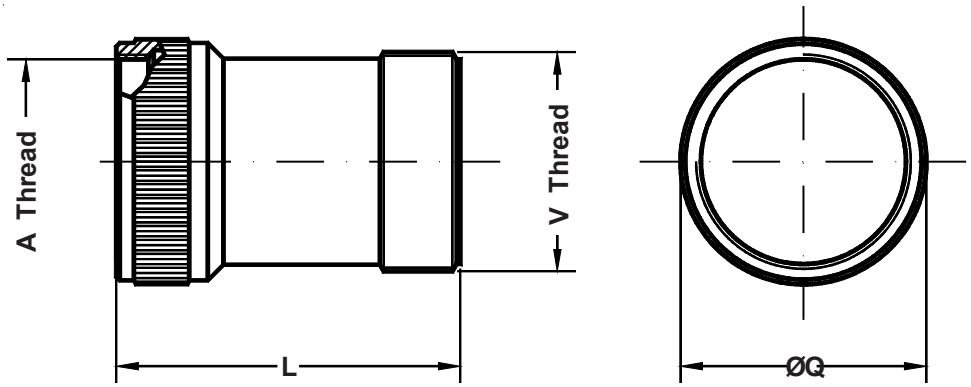
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E-Mail: sales@glenair.com

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

IT 101393-323 XX

- MIL-DTL-5015 Compatible Accessory
- Basic Part Number and Shell Size Designator (Table I)
- Finish Options (Table II)



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.

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

Part Number	Shell Size	A Thread	L Max.	ØQ ±0.2	V Thread
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)

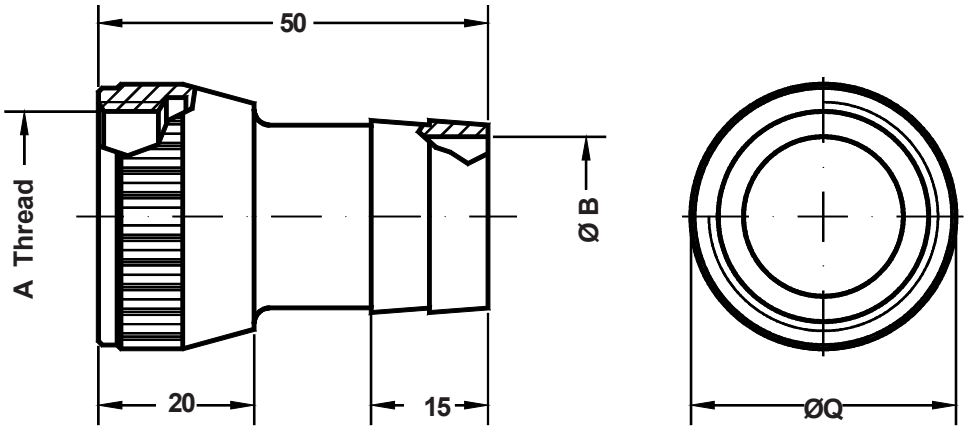
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IT 37267-XXBRXX
BR Adapter
for Termination of UNI4883 Rubber Conduit

IT 37267-32 BR4035 XX

- IT — MIL-DTL-5015 Compatible Accessory
- 37267-32 — Basic Part Number and Shell Size Designator (Table I)
- BR4035 — Nipple End Dimension Designator
- XX — Finish Options (Table II)



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.

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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

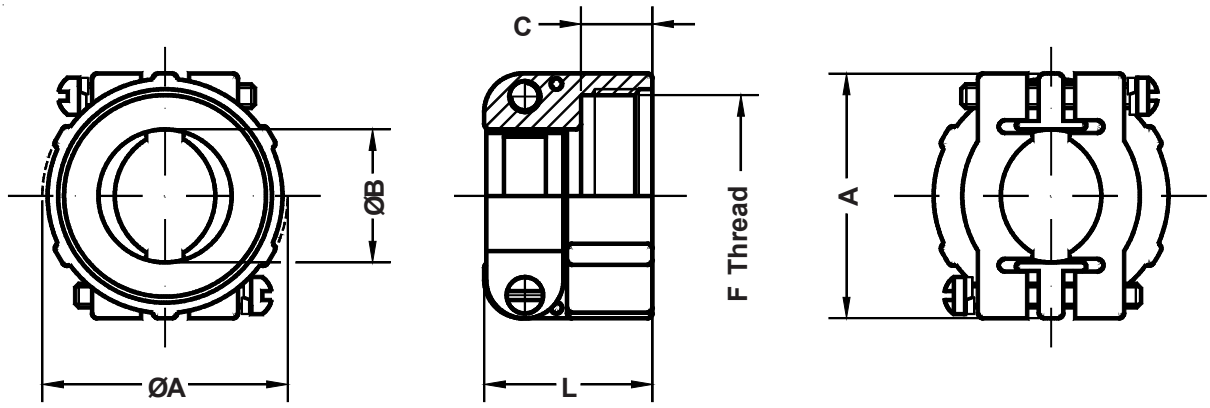
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
	Omit for standard version (Cadmium Olive Drab Finish)

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

IT 3057-20A XX

- MIL-DTL-5015 Compatible Accessory
- Basic Part Number and Shell Size Designator (Table I)
- Finish Options (Table II)



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.

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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)

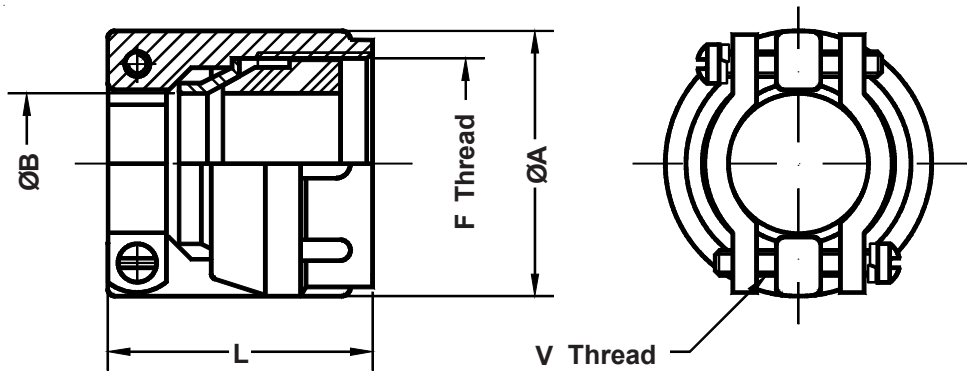
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IT 3057-XXC
Waterproof Cable Clamp
for Jacketed Cable or Wires Protected by Tubing

IT 3057-20C XX

- MIL-DTL-5015 Compatible Accessory
- Basic Part Number and Shell Size Designator (Table I)
- Finish Options (Table II)



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.

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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 (*)
	Omit for standard version (Cadmium Olive Drab Finish)

D

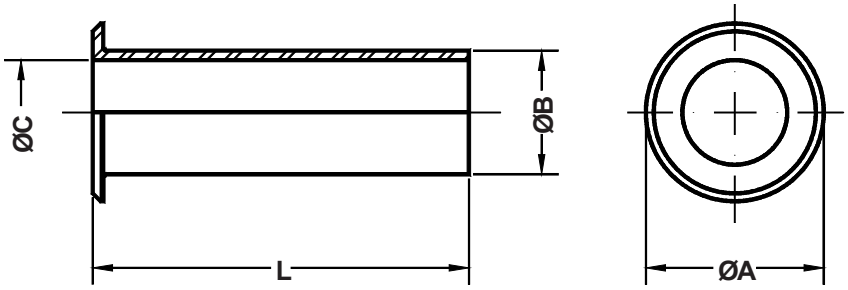
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IT 3420-XX (Class A) and IT 3420-XXA (Class C) Neoprene Sleeve for Protection & Reduction
used with Class A or C Cable Clamps

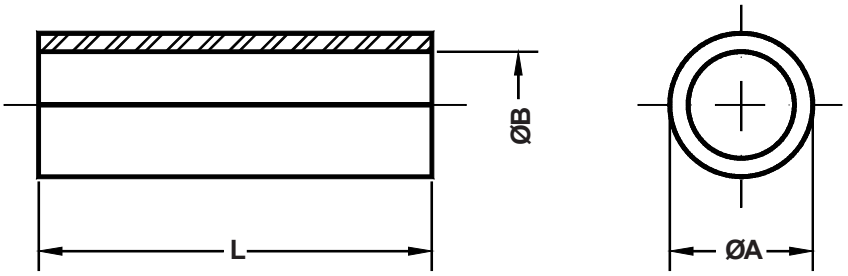
IT 3420-XX

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

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.

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

Part Number	ØA ±0.1	ØB ±0.1	ØC ±0.1	L ±0.1
IT3420 - 4	12.8	7.67	5.58	69.8
IT3420 - 6	15.7	10.84	7.92	66.8
IT3420 - 8	18.8	14:02	11.09	63.5
IT3420 - 10	22.0	15.62	14.27	60.3
IT3420 - 12	27.0	18.79	15.87	57.1
IT3420 - 16	33.3	23:54	19.05	53.9
IT3420 - 20	40.5	31.49	23.79	50.8
IT3420 - 24	46.9	34.67	31.75	47.6
IT3420 - 28	52.9	40.99	34.92	44.4

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

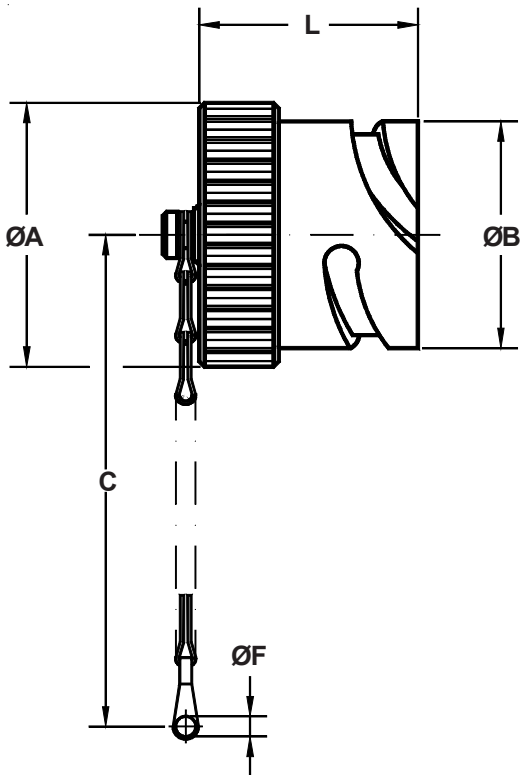
Part Number	ØA ±0.1	ØB ±0.1	L ±0.1
IT3420 - 4A	7.63	5.56	50.5
IT3420 - 6A	10:50	7.93	50.5
IT3420 - 8A	13:50	11.10	50.5
IT3420 - 10A	15.70	11.10	50.5
IT3420 - 12A	18:50	13.74	50.9
IT3420 - 16A	23.60	19.00	50.9
IT3420 - 20A	31.10	23.80	50.2
IT3420 - 24A	33.90	28.50	51.1
IT3420 - 28A	40.60	31.80	50.2
IT3420 - 29A	45.00	41.00	50.5

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

ITB 06T-32 XX

- MIL-DTL-5015 Compatible Accessory
- Basic Part Number and Shell Size Designator (Table I)
- Finish Options (Table II)



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.

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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

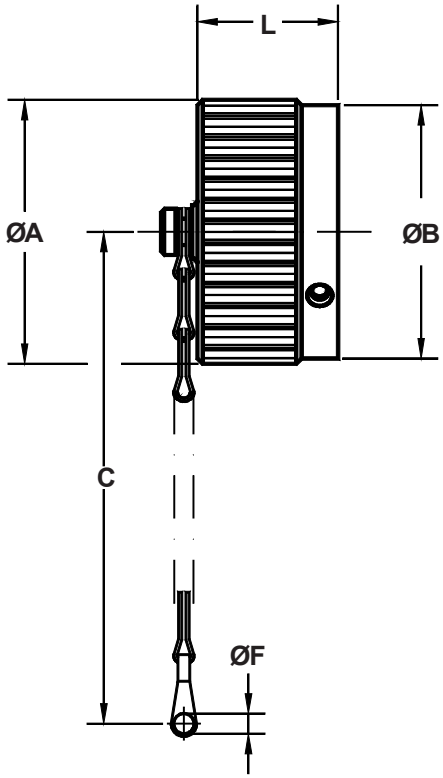
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
	Omit for standard version (Cadmium Olive Drab Finish)

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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)



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.

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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

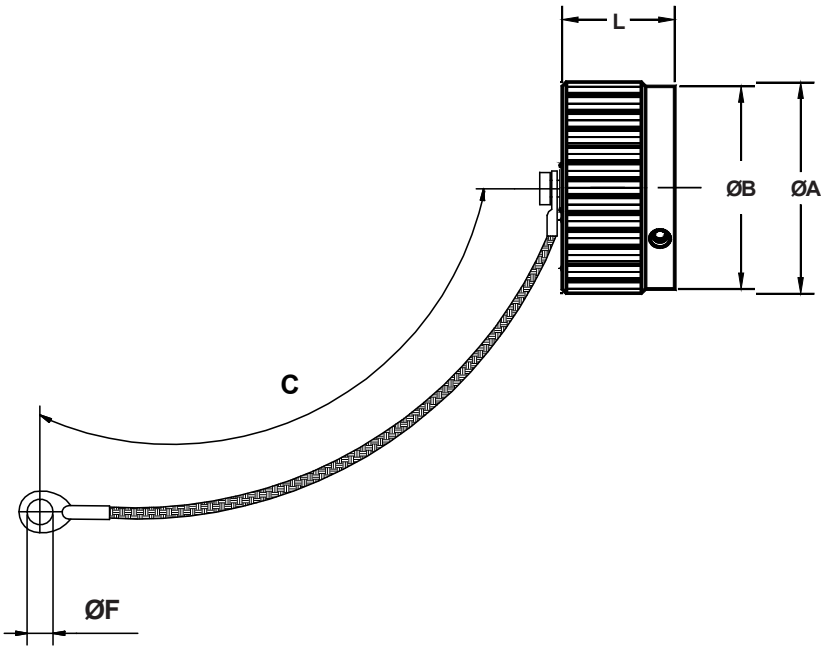
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
	Omit for standard version (Cadmium Olive Drab Finish)

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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)



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.

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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

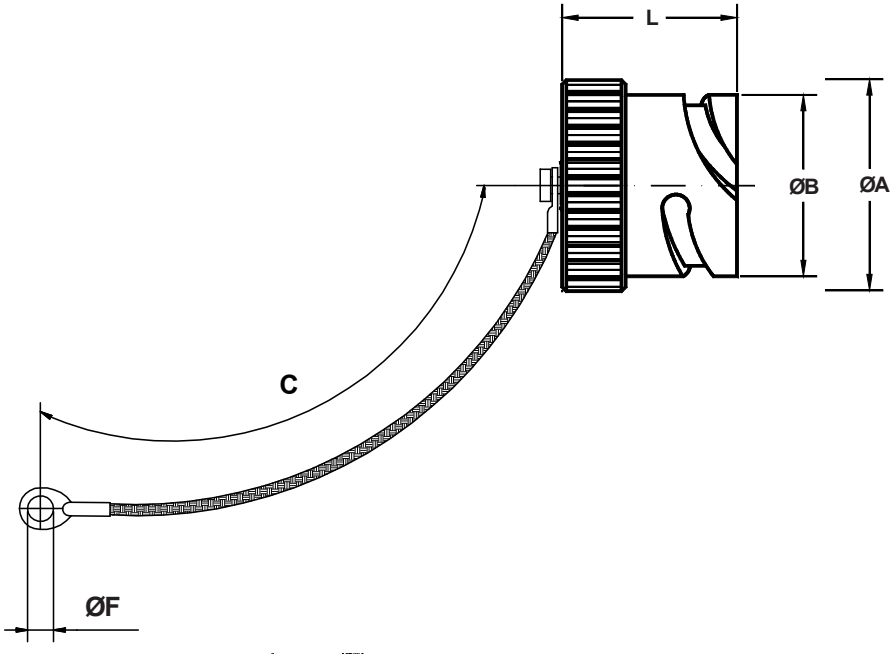
FINISH OPTIONS	
Sym	**Description and RoHS compliant (*)**
F2	Bright Nickel Plating (*)
F6	Black Electrodeposited Paint (*)
F7	Black Zn-Co Plating (*)
F8	Olive Drab Zn-Co Plating
F11	Electroless Nickel (*)
	Omit for standard version (Cadmium Olive Drab Finish)

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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)



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.

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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)

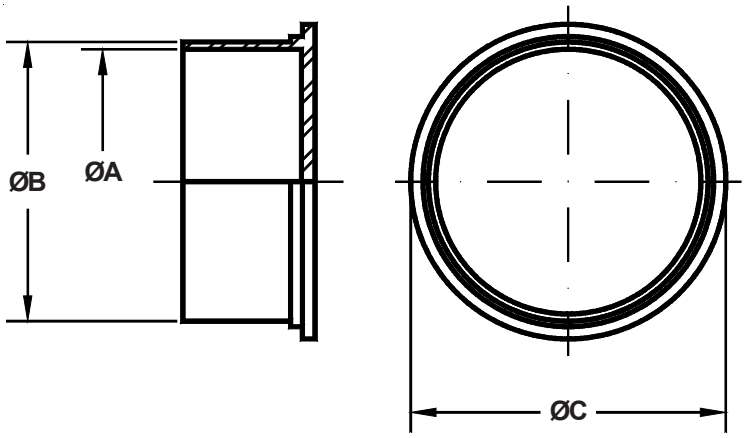
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IT 90376-XX (R)
Plug Connector Protective Plastic Dust Cap

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

Part Number	Shell Size	ØA ±0.25	ØB ±0.25	ØC ±0.78
IT90376-10R	Plug 10SL	15.37	16.89	21.33
IT90376-14R	Plug 14S	21.59	22.99	28.57
IT90376-16R	Plug 16S - 16	23.80	26.29	30.99
IT90376-18R	Plug 18	27.76	29.34	33.78
IT90376-20R	Plug 20	31.28	33.04	37.21
IT90376-22R	Plug 22	34.04	35.81	40.38
IT90376-24R	Plug 24	37.16	38.94	43.18
IT90376-28R	Plug 28	43.56	45.46	49.53
IT90376-32R	Plug 32	49.91	51.82	56.39
IT90376-36R	Plug 36	56.26	58.16	61.85
IT90376-40R	Plug 40	61.98	64.26	67.56



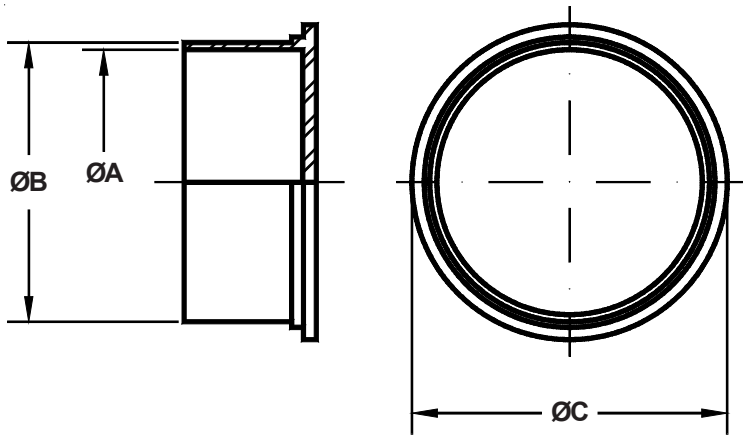
Application Notes:

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

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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:

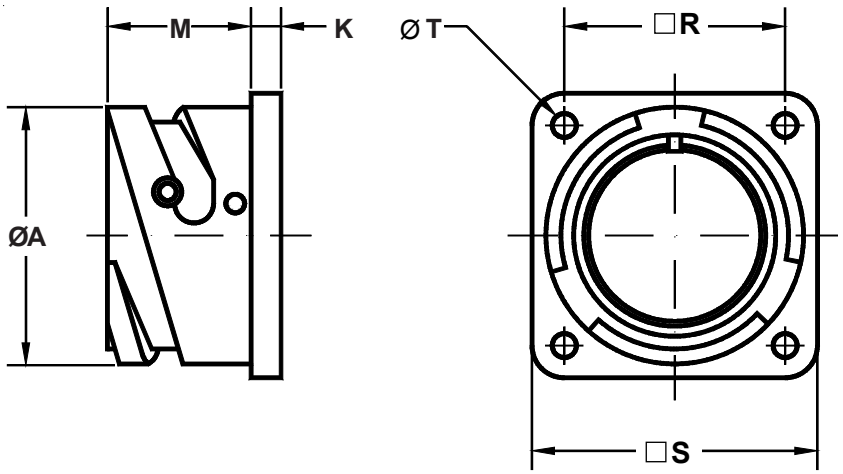
1. Plastic cap for receptacle connectors for protection against dust and mechanical damage.

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ITS 05-XX
Dummy Plug Stowage Receptacle

ITS 05-32 XX

- MIL-DTL-5015 Compatible Accessory
- Basic Part Number and Shell Size Designator (Table I)
- Finish Options (Table II)



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.

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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
10 SL	18.2	2.8	14.3	18.25	25.4	3.2
14 S	24.5	3.3	14.5	23.00	30.4	3.2
16 S	27.2	3.3	14.5	24.60	32.5	3.2
16	27.2	3.3	19.1	24.60	32.5	3.2
18	30.7	4.0	19.1	27.00	35.0	3.2
20	34.0	4.0	19.1	29.40	38.0	3.2
22	37.3	4.0	19.6	31.75	41.0	3.2
24	40.9	4.0	20.6	34.90	44.5	3.7
28	46.7	4.0	20.7	39.70	50.9	3.7
32	53.4	4.0	22.3	44.45	57.0	4.3
36	59.6	4.0	22.3	49.20	63.5	4.3
40	65.5	4.0	22.3	55.55	69.9	4.3

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)

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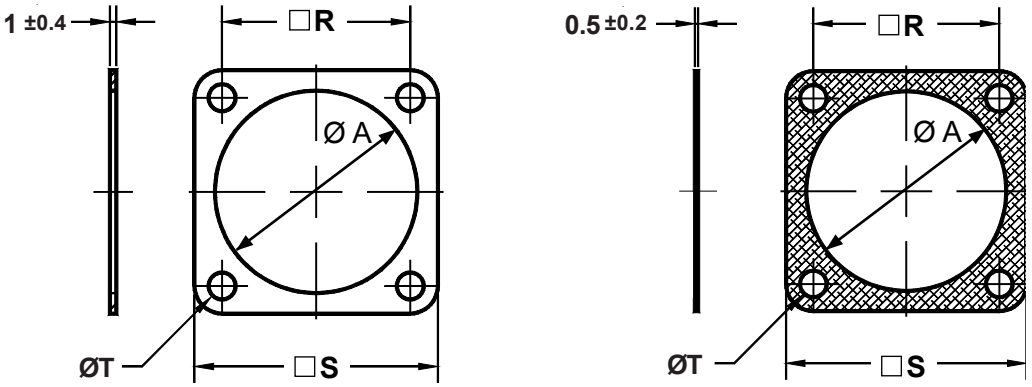
IT 40450-XX and IT 40450-XX (S)
Connector Mounting Gaskets
for Front-Mounted Square Flange Receptacle

IT 40450-XXS

MIL-DTL-5015 Compatible Accessory

Basic Part Number and Shell Size Designator (Table I)

S - Conductive
Omit for Non-Conductive



IT 40450-XX
Non-Conductive

IT 40450-XXS
Conductive

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.

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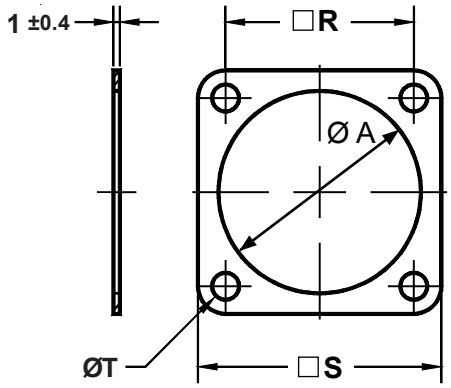
IT 40460-XX and IT 40460-XX (S)
Connector Mounting Gasket
for Rear-Mounted Square Flange Receptacle

IT 40460-XXS

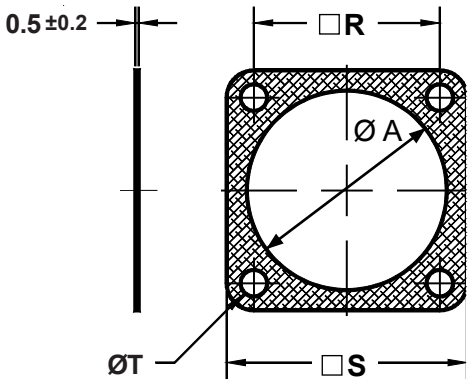
MIL-DTL-5015 Compatible Accessory

Basic Part Number and Shell Size Designator (Table I)

S - Conductive
Omit for Non-Conductive



IT 40460-XX
Non-Conductive



IT 40460-XXS
Conductive

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.

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





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Please note: Glenair Series ITS Connectors are supplied standard with silver plated contacts. For gold contacts or other product modifications, please contact the factory.

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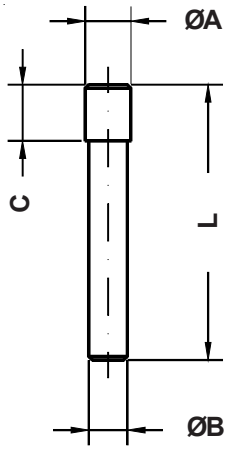
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IT-305045-XX
Wire Hole Plug
for Contact Inserts

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

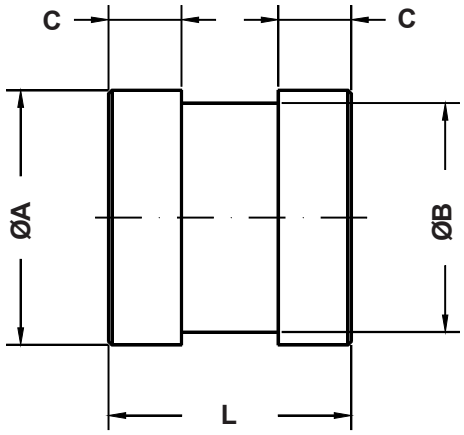
Application Notes:

1. Wire hole plug for contact inserts.

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TABLE I: WIRE HOLE PLUG FOR CONTACT INSERTS
PART NUMBERS, CONTACT SIZES, DIMENSIONS & COLOR

Commital P/N	*Contact size*	ØA	ØB	C	L	*Color*
10 - 101033 - 12	16S - 16	3.7	2.8	3.2	11.9	Blu / Blue
10 - 101033 - 13	12	4.6	3.7	3.2	11.9	Giallo / Yellow
10 - 101033 - 14	8	5.8	5.0	3.2	11.9	Bianco / White
10 - 101033 - 15	4	8.5	7.6	3.2	11.9	Verde / Green
10 - 101033 - 16	0	13.5	12.8	3.2	11.9	Nero / Black



IT-101033-XX

E

Application Notes:

1. Wire hole plug for wire sealing grommets.

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ITS Bayonet Connector Assemblies
Pin Crimp Contacts

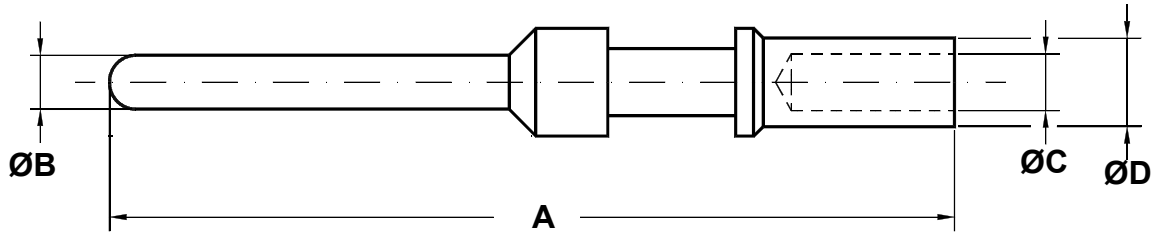


TABLE I: PIN CRIMP CONTACT PART NUMBERS, SIZE & DIMENSIONS

PART NUMBER	CONTACT SIZE	A		ØB		ØC		ØD		WIRE SIZE		OVERALL OUTSIDE DIAMETER	
		mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm^2	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

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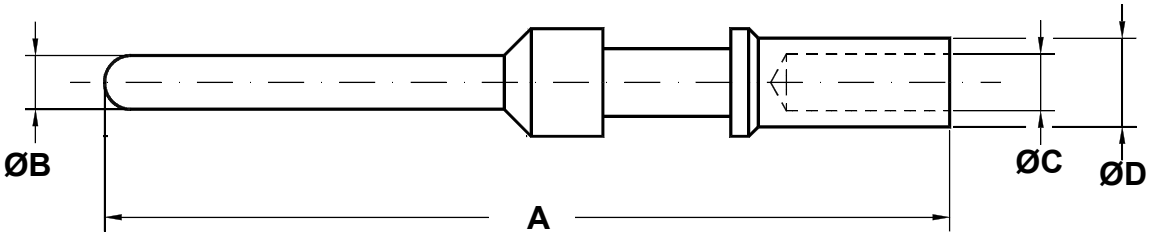


TABLE I: PIN CRIMP CONTACT PART NUMBERS, SIZE & DIMENSIONS

PART NUMBER	CONTACT SIZE	A		ØB		ØC		ØD		WIRE SIZE		OVERALL OUTSIDE DIAMETER	
		mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm^2	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

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ITS Bayonet Connector Assemblies
Socket Crimp Contacts

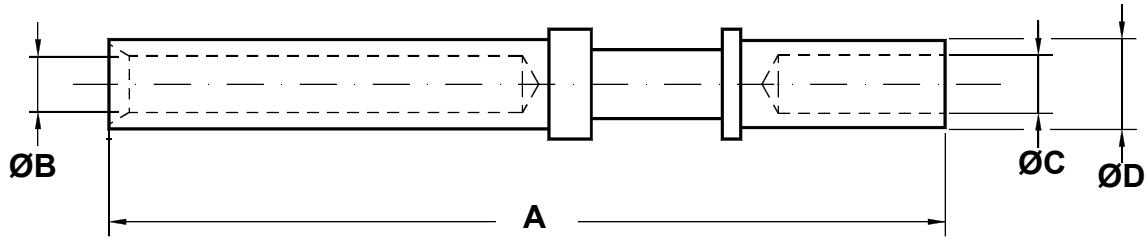


TABLE I: SOCKET CRIMP CONTACT PART NUMBERS, SIZE & DIMENSIONS

PART NUMBER	CONTACT SIZE	A		ØB		ØC		ØD		WIRE SIZE		OVERALL OUTSIDE DIAMETER	
		mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm^2	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

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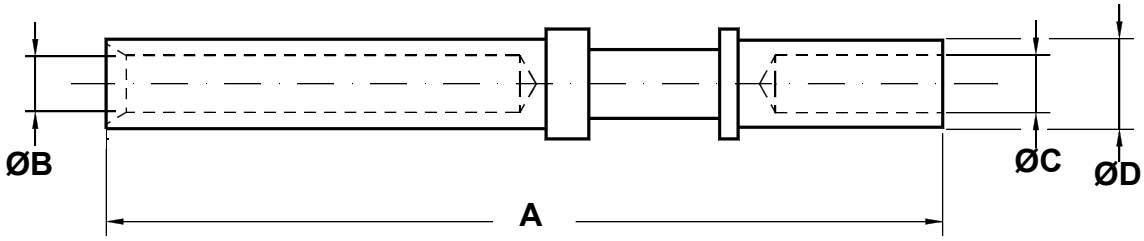


TABLE I: SOCKET CRIMP CONTACT PART NUMBERS, SIZE & DIMENSIONS

PART NUMBER	CONTACT SIZE	A		ØB		ØC		ØD		WIRE SIZE		OVERALL OUTSIDE DIAMETER	
		mm	Inches	mm	Inches	mm	Inches	mm	Inches	mm^2	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)

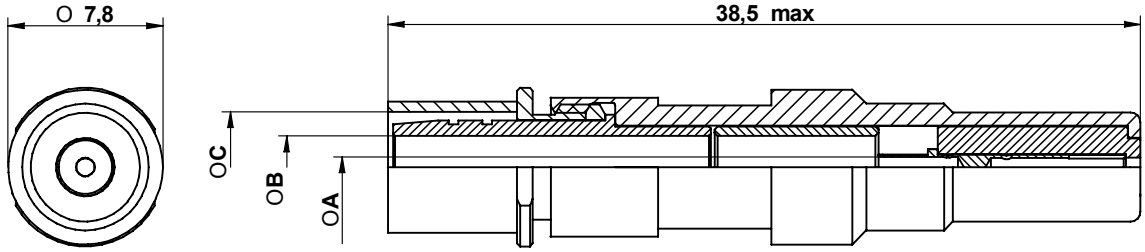
G117 : Gold

Note : Guide Pins are suggested for use with Socket sizes 12, 16, 18, 20

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CC 700XX
ITS Bayonet Connector Assemblies
Size 8 Coaxial Pin and Socket Contacts

COAXIAL PIN CONTACT



COAXIAL SOCKET CONTACT

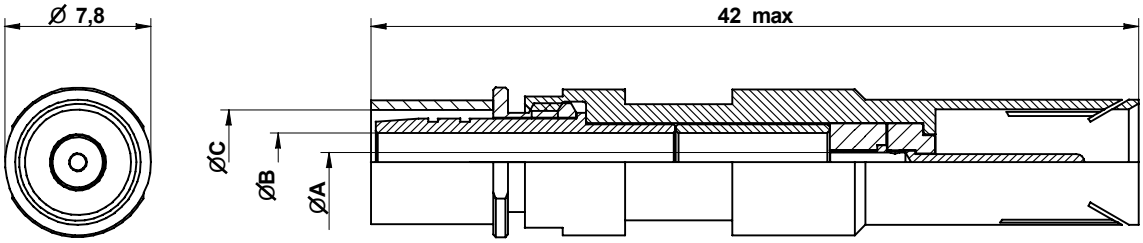


TABLE I: COAXIAL PIN & SOCKET CONTACT PART NUMBERS, CABLE INFORMATION AND DIMENSIONS

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 -

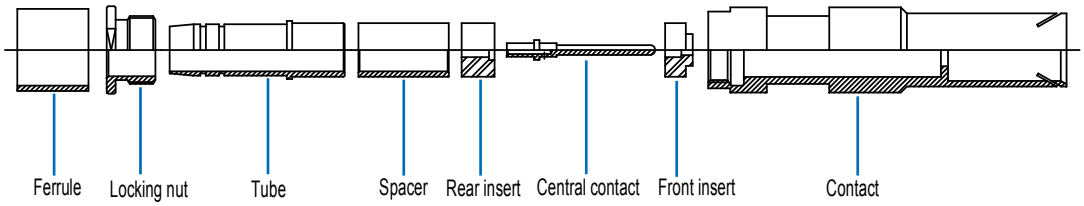


P/N : M.118260/C

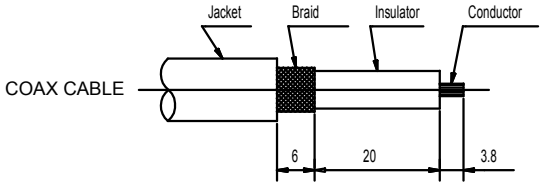
Insertion and Extraction Tool for COAX Contacts Size 8

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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

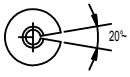
5 – Crimp the ferrule on the braid using the following tools:

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

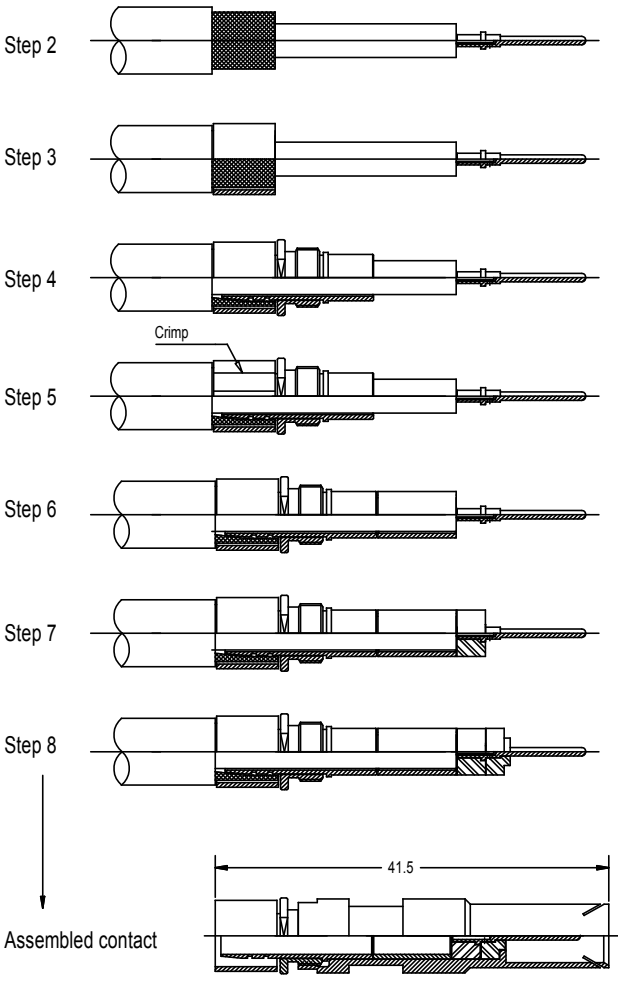
Note: the nut has to remain free to rotate

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.



E

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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^2	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

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TABLE I: INSERTION AND REMOVAL TOOLS PART NUMBERS, SIZE & DIMENSIONS

PART NUMBER	CONTACT SIZE	WIRE SIZE		INSERTION TOOL	REMOVAL TOOL
		mm^2	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

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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^2	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

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TABLE I: INSERTION AND REMOVAL TOOLS PART NUMBERS, SIZE & DIMENSIONS

PART NUMBER	CONTACT SIZE	WIRE SIZE		INSERTION TOOL	REMOVAL TOOL	GUIDE PIN
		mm^2	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

E

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ITS Bayonet Connector Assemblies
Pin 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^2	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”

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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^2	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

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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^2	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.

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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^2	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.

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SERIES 18

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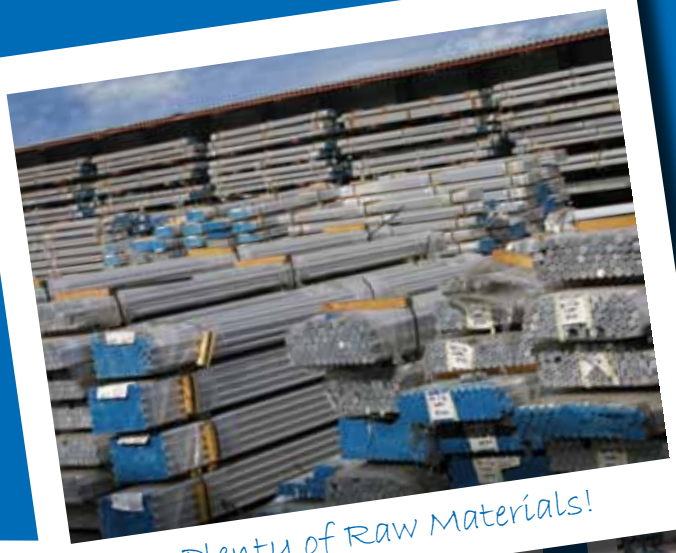
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