

The logo for Glennair, featuring a large blue 'G' on a white background, followed by the word 'lennair' in a black serif font with a registered trademark symbol. The entire logo is set against a blue rectangular background.

Glennair®



High-Speed "DataLink" Transmission Connectors

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

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

HIGH SPEED

JUNCTION BOXES

Machined Aluminum Junction Boxes with Ruggedized USB, RJ45 and Quadrax Interconnects for the Most Demanding Environments



From littoral ships to high speed rail cars, Glenair junction boxes offer the utmost in electromagnetic, environmental and shock protection for delicate high speed data transmission equipment. Need to integrate two different connector standards? Want to combine several inputs into one output? No problem! Glenair junction boxes enable users to customize I/O systems to accommodate military standard and legacy connectors, together with commercial high-speed plugs in virtually any combination and configuration.



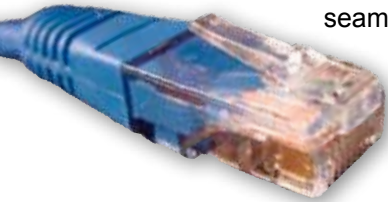
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RJ45

Adapted from the “registered jack” telephone plug, the RJ45 is a modular connector used in twisted pair Ethernet applications. The RJ45 utilizes 8 contacts that connect with four sets of twisted pair wires. Plugs are commonly terminated to Category 5 cable, which relies on the innate noise rejecting properties of twisted pair wires to eliminate cross talk—although shielded iterations of Cat5 wire are becoming increasingly available. The ubiquity of RJ45 connectors in the personal computer and internet industries make it an ideal choice for users seeking a reliable, seamless integration into an existing interconnection network.



Universal Serial Bus

Universal Serial Bus—or USB—is a standardized connection device used to link computers and peripheral devices. Introduced in 1996, the USB 1.0 connector eliminates the need for proprietary—and often bulky—serial ports used to connect printers, keyboards and other electronic controllers. The small universal connection is capable of carrying signal and power via four leads in a “plug and play” format, thus reducing the need for redundant cables to a given device.

Shortly after its inception, the second generation “USB 2.0” connector was released, boasting a 4000% increase in transfer speed and an expanded list of compatible devices. Additionally, a host of new connector types—including USB-B, mini and micro—were introduced to accommodate smaller devices, such as phones, PDA’s and cameras. The newest-generation “USB 3.0” connector will add two additional pairs of shielded twisted pair wire, enabling full duplex operation and a transfer rate of 4.8 Gbits/second.



USB-A

USB-A is the most commonly specified style within the connector family—often found on computer keyboards, mice, printers and flash-memory cards. The USB-A connector has a broad, flat rectangular shell that houses all four contacts on one side. USB-A plugs are typically inserted into “downstream port” receptacles on the USB host or a hub.

USB-B

Like its type A brethren, the USB-B houses four leads capable of carrying both signal and power. Unlike the type A, however, the plug is square with chamfered outer edges, and distributes the placement of the contacts on opposing sides of the plug, with two contacts on the top and two on the bottom.

Quadrax

Quadrax contacts, in a sense, act as a “connector within a connector”, housing four discrete size 24 pin or socket contacts within each keyed size 8 crimp body. Two sets of twisted pair wires terminate to the size 24 contacts, while the overall shield is grounded via the outer size 8 shell—affording 360° shielding. These high speed champs boast superb EMI compatibility for high data transfer applications where little or no power is needed. Additionally, standard crimping tools can be used to terminate all components, making shop or field assembly fast and simple.



Integration

Glenair has bridged the gap between high performance data transmission systems and rugged field-ready circular connectors by integrating the two into a single, refined package. Users will no longer have to worry about damaging delicate high bandwidth connections in harsh conditions. The MIL-DTL-5015 or MIL-DTL-26482 type connector shells provide impact resistance, ingress protection and positive coupling—all in a wide array of finishes and shell styles.



Special IFO Series Fiber Optic Solutions

Fiber optic connectors, termini and cables are ideally suited for high-reliability settings such as commercial, military, mass-transit and naval applications. Glenair is unique in the industry for our vertical ability to design, produce and deliver high-speed I/O interconnect cables and harnesses including fiber optic cabling for extreme environmental exposure, corrosion resistance, improved fiber tensile strength and resistance to micro-bending.

We are a recognized leader in the manufacture of high-reliability fiber optic connection systems for the most advanced and challenging systems, including every branch of the military as well as industrial markets in every configuration requirement.

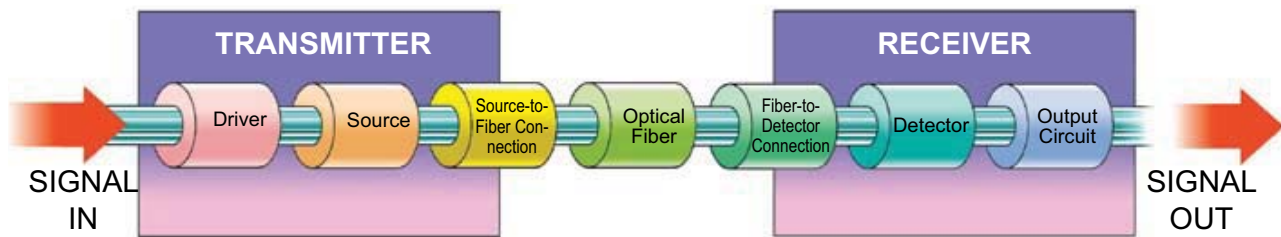


High-Speed Series IFO Fiber Optic Configurations

Based on our proven harsh environment ITS Ruggedized Connectors Series, the IFO fiber optic version offers several configurations utilizing 2, 4, 6, or 12 fiber optic termini in a single connector.

Available termini can accommodate 9/125 (Single-Mode), 50/125 and 62/125 (Multi-Mode) optical fibers.

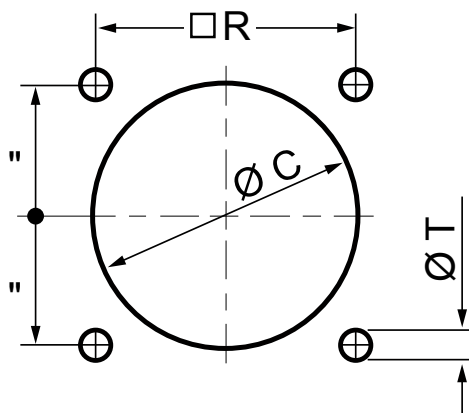
Basic Fiber Optic Link



EMI and Spark/Arc Immunity

Optical fiber is particularly useful in high reliability applications due to its electromagnetic immunity. Since fiber optic media uses light to transmit signals, it is not subject to electromagnetic interference, radio frequency interference or voltage surges, and so provides greater transmission reliability. The total electrical isolation of fiber also makes it a safer, spark-free media for use in hazardous environments, such as high speed rail signals, tactical field communications, and Naval applications.





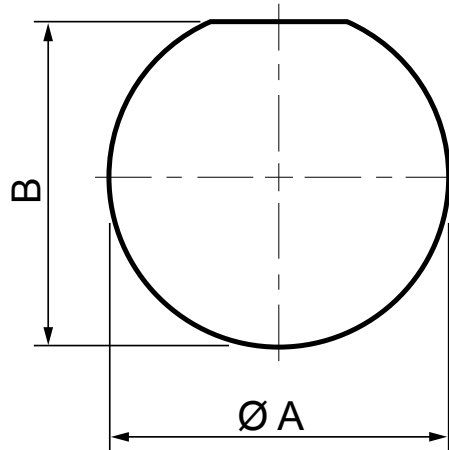
Panel Cutout for 00 and 02 Front Panel Mounting Connectors

| Shell Size | 18 <i>USB-A, USB-B, QuadraX, IPT RJ45</i> | 20 <i>ITS with 1 RJ45</i> | 32 <i>ITS with 2 RJ45</i> |
|--------------|--|----------------------------------|----------------------------------|
| Ø C (mm) | 26.5 | 30.0 | 48.5 |
| R ± 0.1 (mm) | 27 | 29.4 | 44.5 |
| Ø T (mm) | 3.4 | 3.4 | 4.5 |

Panel Cutout for 03 and 030 Rear Panel Mounting Connectors

| Shell Size | 18 <i>USB-A, USB-B, QuadraX, IPT RJ45</i> | 20 <i>ITS with 1 RJ45</i> | 32 <i>ITS with 2 RJ45s</i> |
|--------------|--|----------------------------------|-----------------------------------|
| Ø C (mm) | 31.7 | 35.0 | 54.3 |
| R ± 0.1 (mm) | 27 | 29.4 | 44.5 |
| Ø T (mm) | 4.5 | 4.5 | 5.5 |

High Speed Data Transmission Panel Cutout Dimensions



| Panel Cutout for 07 and 070 Jam Nut Receptacle Connectors | | | |
|---|--|----------------------------------|-----------------------------------|
| Shell Size | 18 <i>USB-A, USB-B, Quadrax, IPT RJ45</i> | 20 <i>ITS with 1 RJ45</i> | 32 <i>ITS with 2 RJ45s</i> |
| $\text{Ø A} + 0.25 \text{ (mm)}$ | 35.1 | 38.30 | 57.35 |
| $B - 0.35 \text{ (mm)}$ | 33.75 | 36.85 | 55.95 |

**Auto-MDIX**

A protocol which allows two Ethernet devices to negotiate their use of the Ethernet Transmit (Tx) and Receive (Rx) cable pairs. This allows two Ethernet devices with MOI or MDI-X connectors to connect without using a cross-over cable.

Baud

A unit of measurement that denotes the number of bits that can be transmitted per second. For example, if a modem is rated at 9600 baud it is capable of transmitting data at a rate of 9600 bits per second.

Bandwidth

The maximum capacity of a network channel. Usually expressed in bits per second (bps). Ethernet channels have bandwidths of 10,100, and 1000 Mbps (Gigabit).

bps

Bits Per Second is the unit used for measuring line speed, the number of information units transmitted per second.

Broadcast

A transmission initiated by one station and sent to all stations on the network.

Byte

The amount of memory needed to store one character such as a letter or a number. Equal to 8 bits of digital information. The standard measurement unit of a file size.

Category 5

A performance classification for twisted pair cables, connectors and systems. Specified to 100 MHz. Suitable for voice and data applications up to 155 Mbps.

Category 5e

Also called Enhanced Category 5. A performance classification for twisted pair cables, connectors and systems. Specified to 100 MHz. Suitable for voice and data applications up to 1000 Mbps.

Category 6

A performance classification for twisted pair cables, connectors and systems. Specified up to 250 MHz.

CSMA/CD

Carrier Sense Multiple Access/Collision Detect. The Medium Access Control (MAC) protocol used in Ethernet.

Data Rate

The speed of the data transmission, measured in bps (bits per second) or Mbps.

Duplex (Full, Half)

Full duplex is a communications method that allows for the simultaneous transmission and reception of data. In Half Duplex communication, transmissions and receptions can occur in either direction but not at the same time.

Ethernet

The most common network protocol in use. A protocol is a set of rules enabling data communications. Ethernet can operate over several different media including fiber optic, coaxial cable and twisted-pair cabled in Ethernet transmissions.

IEEE 802.3

IEEE Working Group for CSMA/CD, the protocol used in Ethernet transmissions.

IGMP Snooping

The ability of a switch to observe Internet Group Multicast Protocol (IGMP) traffic in order to learn IP Multicast group membership. The purpose is to restrict multicast transmissions to only those ports which have requested them.

LAN

Local Area Network. A network of directly-connected machines (located in close proximity), providing high speed communication over physical media such as fiber optics or twisted pair wiring.

MAC Address

A unique address assigned to a station interface, identifying that station on the network. With Ethernet, this is the unique 48-bit station address. Same as the physical address.

Megabit (Mb)

Megabit. One million bits of information, usually used to express a data transfer rate ; 1 Megabit/second = 1Mbps.

Megabyte (MB)

MegaByte. A unit of data storage size which represents one million characters of information.

Multicast

A transmission initiated by one station to many stations of the network.

Port Mirroring

Port mirroring allows a switch port to monitor packets from any or all of its ports so that traffic can be analyzed.

Quality of Service (QoS)

Some switches support OoS (per 802.1 p and 802.10 standards) whereby messages can be assigned levels of priority. OoS is important where time-critical applications can be impaired by data delays.

RJ45

8-position modular jacks used on twisted pair links for Ethernet cabling.

RJ-Field

A wide range of connectors which allow to reinforce and seal standard RJ45 cable. See www.rjfield.com

SNMP

Simple Network Management Protocol. This is THE standard used for switch management programs.

Spanning Tree Protocol (STP)

A link management protocol providing path redundancy and preventing network loops by defining a tree to span all switches in a network. It forces redundant data paths into a standby (blocked) state. If a path malfunction occurs, the topology is reconfigured and the link reestablished by activating the standby path.

TCPIP

Transmission Control Protocol/Internet Protocol. A set of protocols, resulting from ARPA efforts, used by the Internet to support services such as remote login (TELNET), file transfer (FTP) and mail (SMTP).

TELNET

The Internet standard protocol for remote login (terminal connection) service. TELNET allows a user at one site to interact with a remote timesharing system at another site as if the user's terminal were connected directly to the remote computer.

VLAN

Virtual Local Area Network. A LAN that maps stations on a basis other than location such as by department, user type or application. Managing traffic, workstations, and bandwidth can be easier with a VLAN and improve network efficiency.

10BASE-T

10 Mbps Ethernet on twisted-pair (Category 3) cable.

100BASE-T

The twisted pair version of 100 Mbps Ethernet. Requires Category 5 cabling.

1000BASE-T

A recent LAN standard for implementing 1000 Mbps Ethernet on Category 5 cable. Also called Gigabit Ethernet.



MIL-DTL-5015 Type Reverse Bayonet Coupling (Series ITS) with Single RJ45 Connector

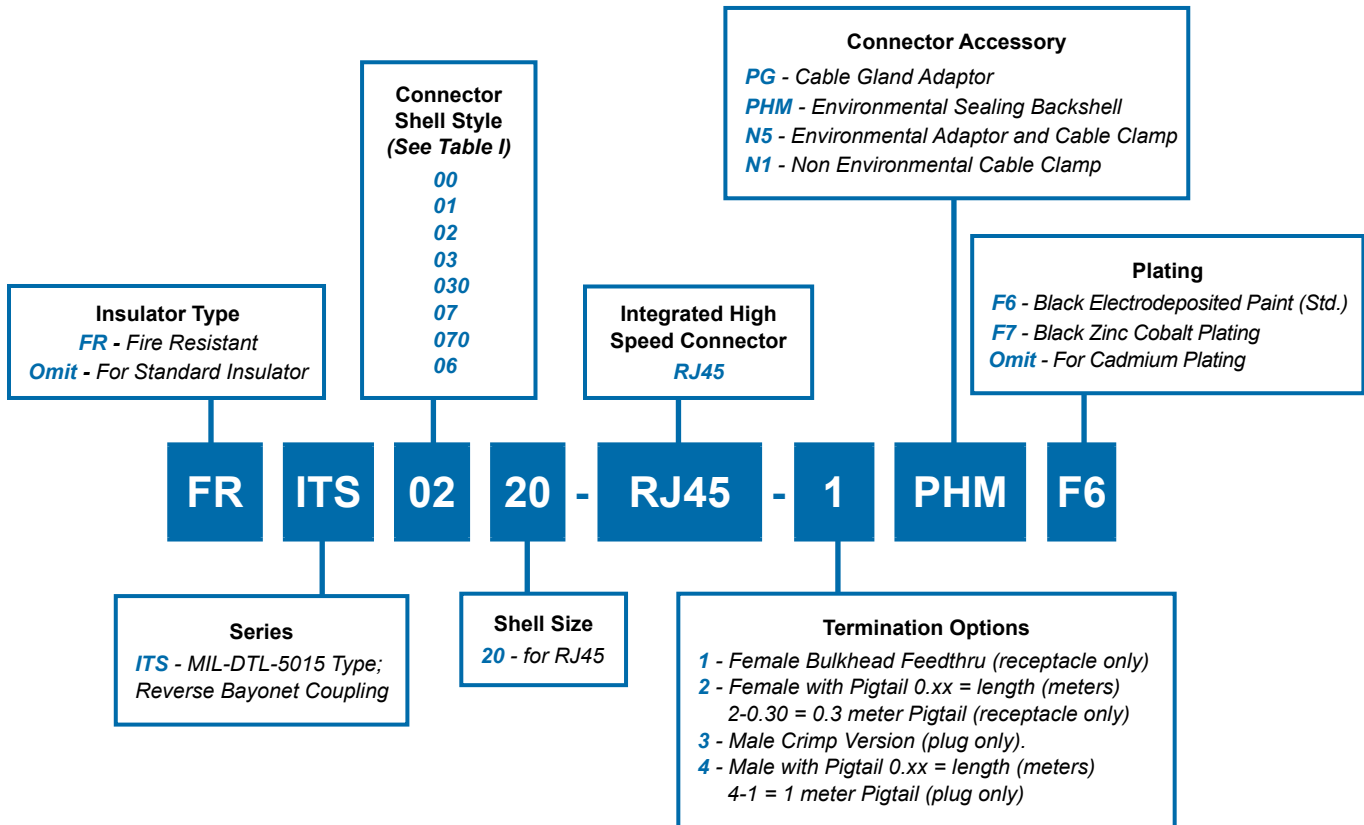


Figure 1
Receptacle (Front)



Figure 2
Receptacle (Rear)

MIL-DTL-5015 Type Reverse Bayonet Coupling (Series ITS) with Single RJ45 Connector



TABLE I

**Connector Shell
Detailed Description**

- 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
- 07** - Rear Panel Mount Jam Nut Receptacle; No Accessory Threads
- 070** - Rear Panel Mount Jam Nut Receptacle with Accessory Threads
- 06** - Straight Cylindrical Plug Connector with Accessory Threads

Commercial-grade RJ45 connectors are intended for use in clean, dry environments. Exposure to dirt and moisture can lead to damage or failure. Glenair's sealed RJ45 connectors provide a high level of protection for the most hostile environments. Standard RJ45 jacks are housed in rugged, waterproof ITS Series bayonet connectors. Connectors feature resilient nitrile inserts and electrodeposited corrosion-resistant black paint or black zinc cobalt plating. Cadmium plating is also available. A typical ITS RJ45 application consists of a through bulkhead female receptacle (*Figure 1 and 2*) and a male plug crimp RJ45 (*Figure 3*).

TECHNICAL CHARACTERISTICS

| | |
|---------------------------------|--|
| Category | Cat. 6 (Cat 5E available upon request) |
| Connection | 10BaseT, 100BaseTx, 1000BaseT |
| Working Voltage | 30/42 Volts AC RMS/VDC |
| Max Current Rating | 1.5 Amps at 20° C |
| Max Contact Resistance | 20 mΩ |
| Min. Insulation Resistance | 1.000 mΩ at 500 Volts DC |
| Dielectric Withstanding Voltage | 1000 Volts |
| Working Temperature | -40° to +68° C |
| Environmental Rating | IP67 (mated) |



Figure 3
Plug (Front)



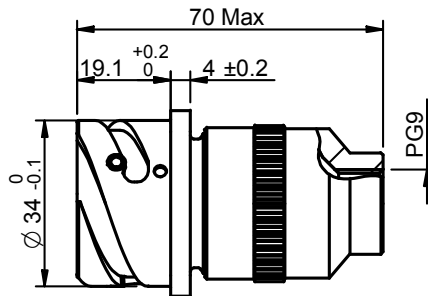
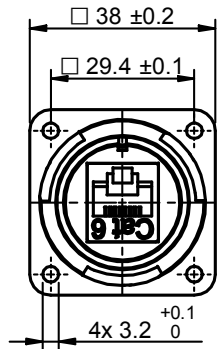
Figure 4
RJ45 Interconnection Sequence



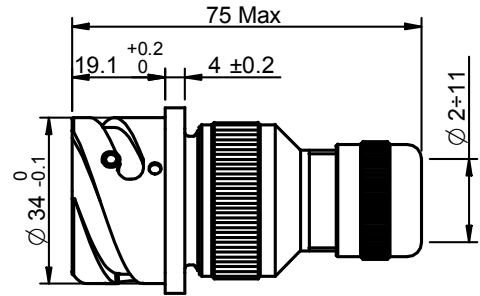
MIL-DTL-5015 Type Reverse Bayonet Coupling (Series ITS) with Single RJ45 Connector

CONFIGURATIONS AVAILABLE : ITS 00

Front View

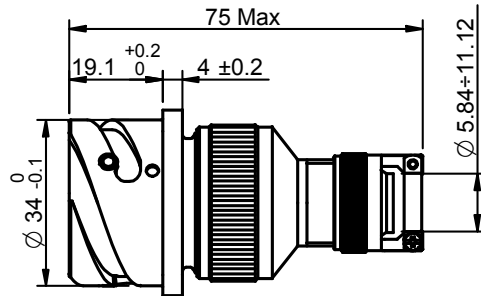
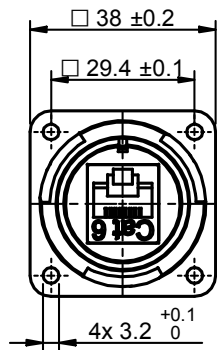


FRITS0020-RJ45-1PGF6

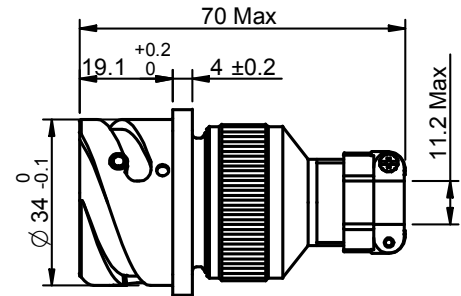


FRITS0020-RJ45-1PHMF6

Front View



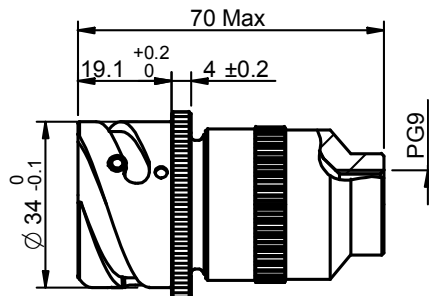
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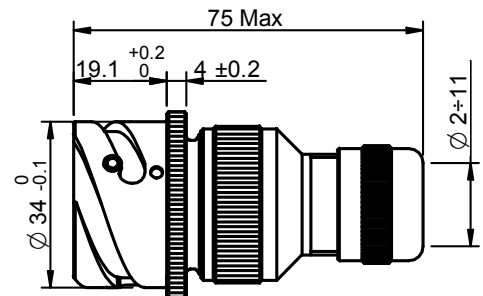
FRITS0020-RJ45-1N1F6

CONFIGURATIONS AVAILABLE : ITS 01

Front View



FRITS0120-RJ45-1PGF6



FRITS0120-RJ45-1PHMF6

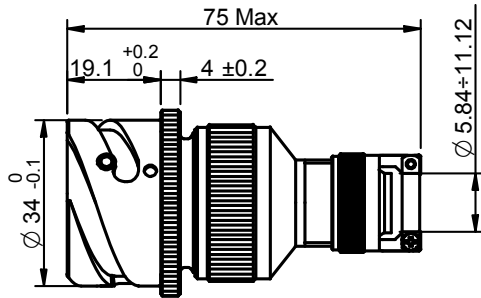
MIL-DTL-5015 Type Reverse Bayonet Coupling (Series ITS) with Single RJ45 Connector



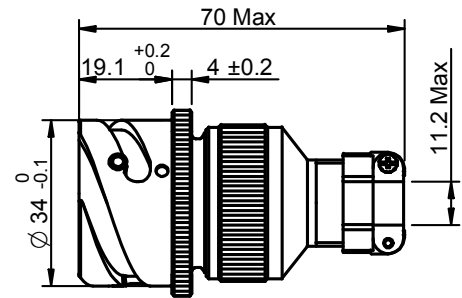
High-Speed
Connectors

CONFIGURATIONS AVAILABLE : ITS 01

Front View



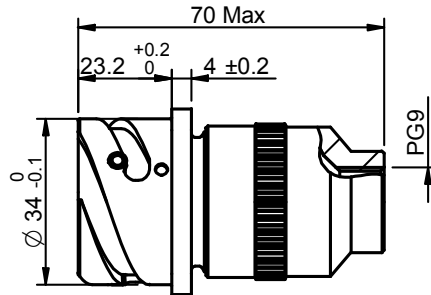
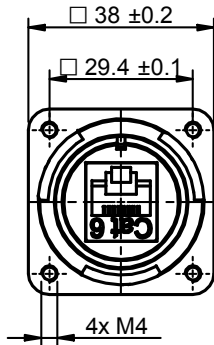
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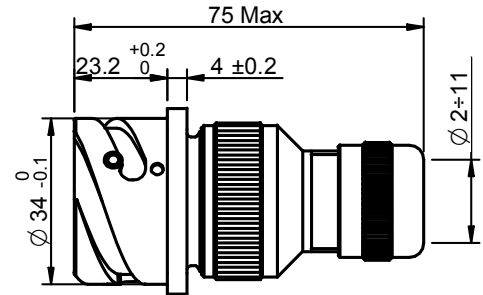
FRITS0120-RJ45-1N1F6

CONFIGURATIONS AVAILABLE : ITS 030

Front View

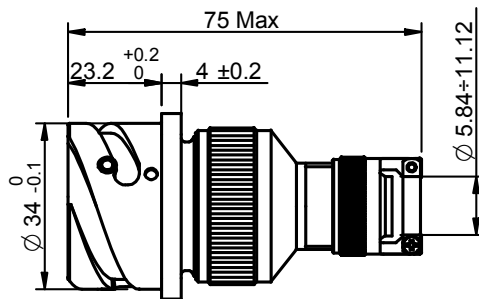
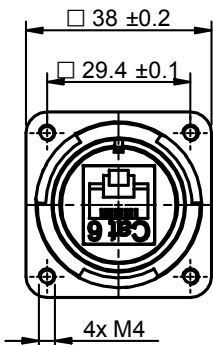


FRITS03020-RJ45-1PGF6

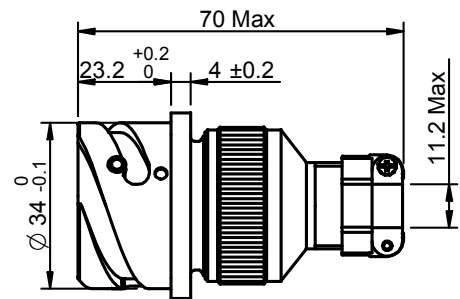


FRITS03020-RJ45-1PHMF6

Front View



FRITS03020-RJ45-1N5F6



FRITS03020-RJ45-1N1F6

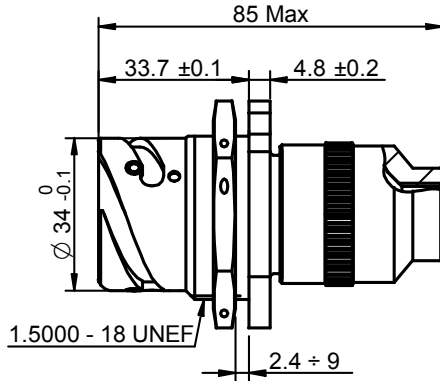
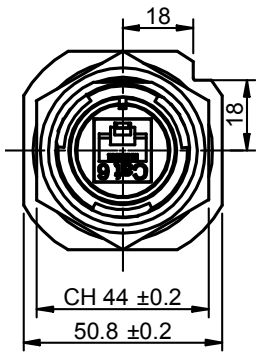
Connectors



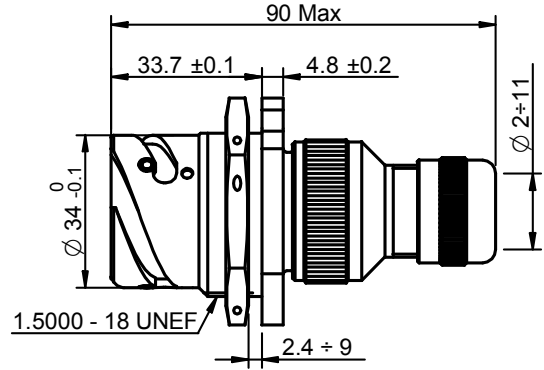
MIL-DTL-5015 Type Reverse Bayonet Coupling (Series ITS) with Single RJ45 Connector

CONFIGURATIONS AVAILABLE : ITS 070

Front View

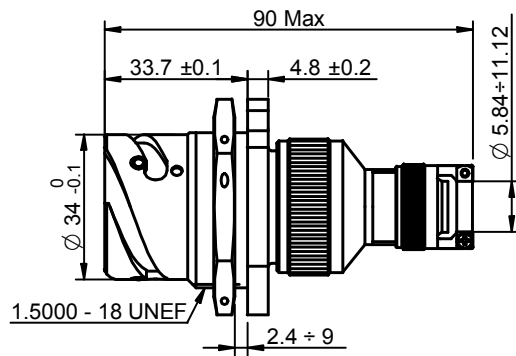
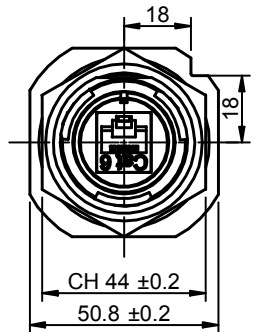


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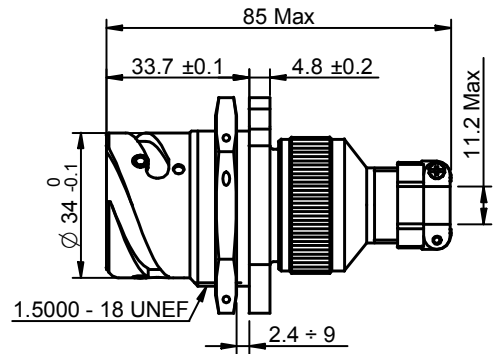


FRITS07020-RJ45-1PHMF6

Front View



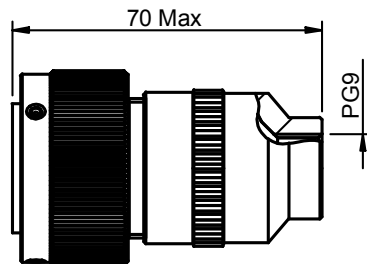
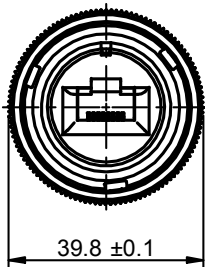
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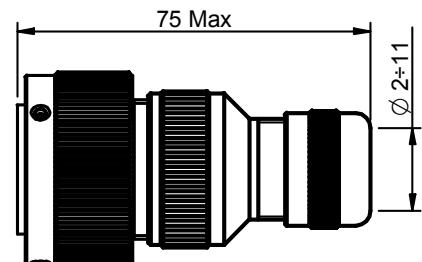
FRITS07020-RJ45-1N1F6

CONFIGURATIONS AVAILABLE : ITS 06

Front View



FRITS0620-RJ45-3PGF6



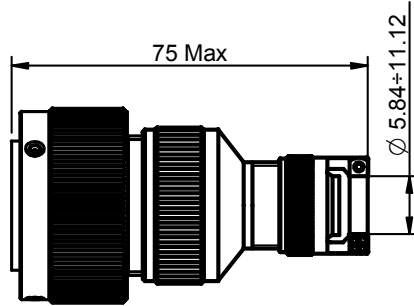
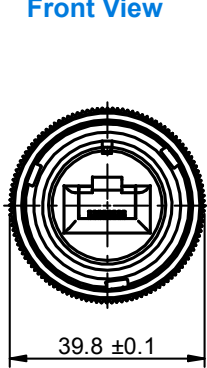
FRITS0620-RJ45-3PHMF6

MIL-DTL-5015 Type Reverse Bayonet Coupling
(Series ITS)
with Single RJ45 Connector

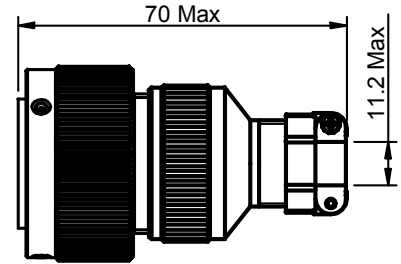


CONFIGURATIONS AVAILABLE : ITS 06

Front View



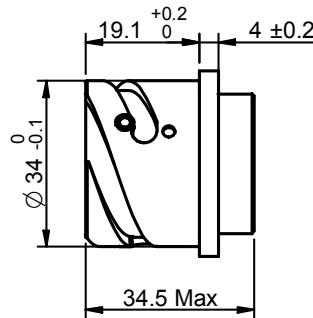
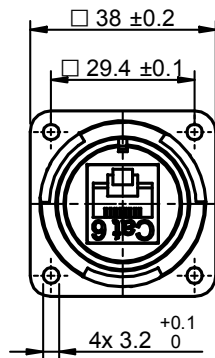
FRITS0620-RJ45-3N5F6



FRITS0620-RJ45-3N1F6

CONFIGURATIONS AVAILABLE : ITS 02

Front View



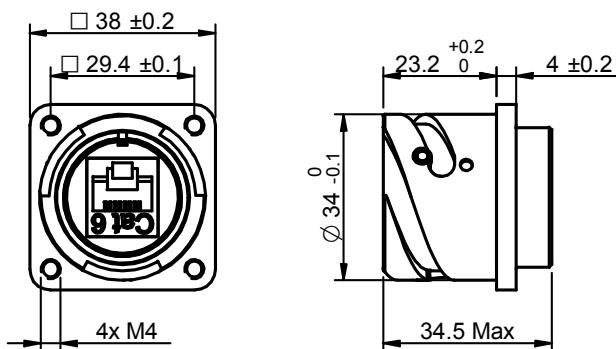
FRITS0220-RJ45-1F6



MIL-DTL-5015 Type Reverse Bayonet Coupling
(Series ITS)
with Single RJ45 Connector

CONFIGURATIONS AVAILABLE : ITS 03

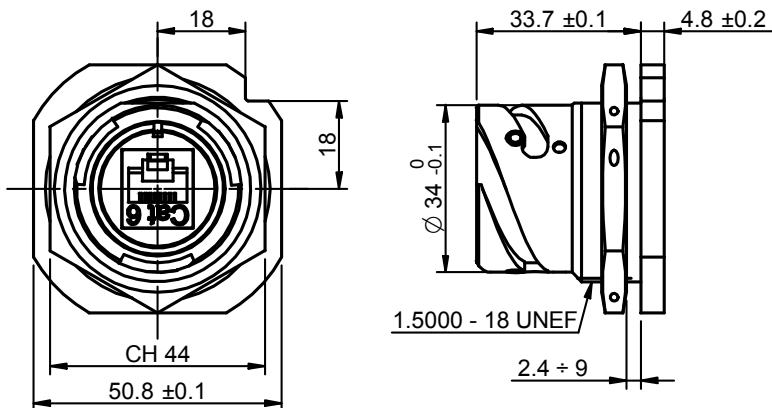
Front View



FRITS0320-RJ45-1F6

CONFIGURATIONS AVAILABLE : ITS 07

Front View



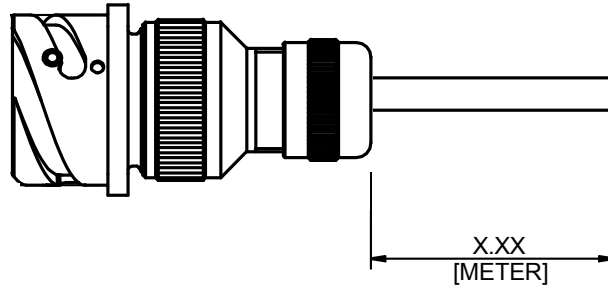
FRITS0720-RJ45-1F6

MIL-DTL-5015 Type Reverse Bayonet Coupling (Series ITS) with Single RJ45 Connector



PIGTAIL GENERAL SKETCHES AND CONFIGURATIONS AVAILABLE

Female with Pigtail for Configuration : 00 - 01 - 030 - 070



EXAMPLE : FRITS0020-RJ45-21.5PHMF6 → 1.5 mt Pigtail

Female with Pigtail for Configuration : 00

| |
|---------------------------|
| FRITS0020-RJ45-2X.xxN1F6 |
| FRITS0020-RJ45-2X.xxN5F6 |
| FRITS0020-RJ45-2X.xxPHMF6 |
| FRITS0020-RJ45-2X.xxPGF6 |

Female with Pigtail for Configuration : 030

| |
|----------------------------|
| FRITS03020-RJ45-2X.xxN1F6 |
| FRITS03020-RJ45-2-X.xxN5F6 |
| FRITS03020-RJ45-2X.xxPHMF6 |
| FRITS03020-RJ45-2X.xxPGF6 |

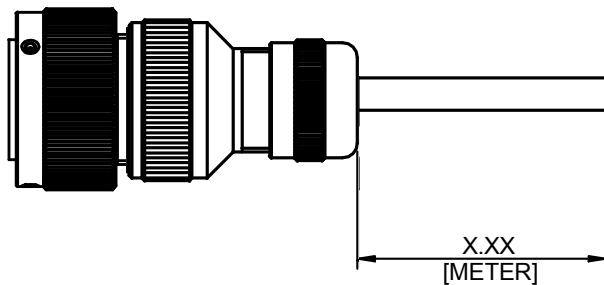
Female with Pigtail for Configuration : 01

| |
|---------------------------|
| FRITS0120-RJ45-2X.xxN1F6 |
| FRITS0120-RJ45-2X.xxN5F6 |
| FRITS0120-RJ45-2X.xxPHMF6 |
| FRITS0120-RJ45-2X.xxPGF6 |

Female with Pigtail for Configuration : 070

| |
|----------------------------|
| FRITS07020-RJ45-2X.xxN1F6 |
| FRITS07020-RJ45-2X.xxN5F6 |
| FRITS07020-RJ45-2X.xxPHMF6 |
| FRITS07020-RJ45-2X.xxPGF6 |

Male with Pigtail for Configuration : 06



Female with Pigtail for Configuration : 06

| |
|---------------------------|
| FRITS0620-RJ45-4X.xxN1F6 |
| FRITS0620-RJ45-4X.xxN5F6 |
| FRITS0620-RJ45-4X.xxPHMF6 |
| FRITS0620-RJ45-4X.xxPGF6 |

EXAMPLE : FRITS0620-RJ45-41.5PHMF6 → 1.5 mt Pigtail



MIL-DTL-5015 Type Reverse Bayonet Coupling (Series ITS) with Double RJ45 Connectors

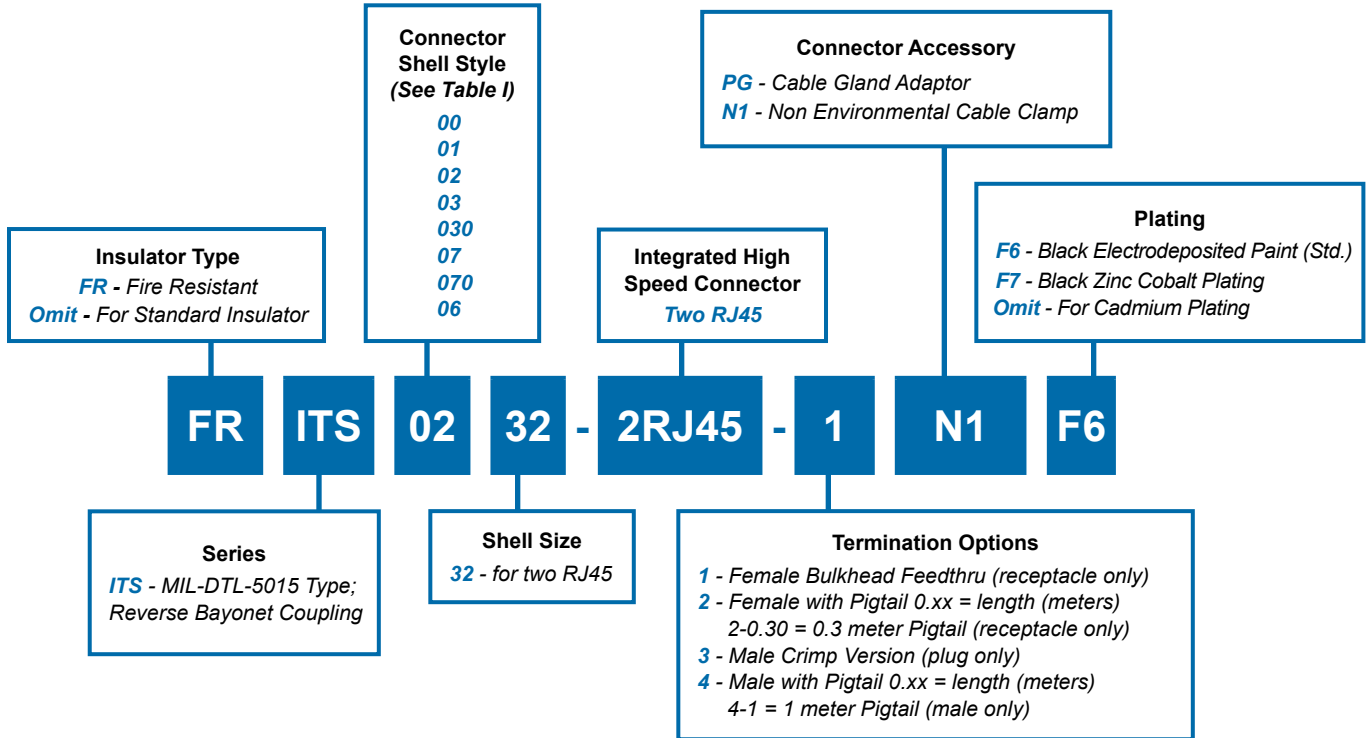


Figure 1
Receptacle (Front)



Figure 2
Receptacle (Rear)

MIL-DTL-5015 Type Reverse Bayonet Coupling (Series ITS) with Double RJ45 Connectors



TABLE I

**Connector Shell
Detailed Description**

- 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
- 07** - Rear Panel Mount Jam Nut Receptacle; No Accessory Threads
- 070** - Rear Panel Mount Jam Nut Receptacle with Accessory Threads
- 06** - Straight Cylindrical Plug Connector with Accessory Threads

Commercial-grade RJ45 connectors are intended for use in clean, dry environments. Exposure to dirt and moisture can lead to damage or failure. Glenair's sealed RJ45 connectors provide a high level of protection for the most hostile environments. Two standard RJ45 jacks are housed in rugged, waterproof ITS Series bayonet connectors. Dual connectors feature resilient nitrile inserts and electrodeposited corrosion-resistant black paint or black zinc cobalt plating. Cadmium plating is also available. A typical ITS dual RJ45 application consists of a through bulkhead female receptacle (*Figure 1 and 2*) and a male plug crimp RJ45 (*Figure 3*).

TECHNICAL CHARACTERISTICS

| | |
|---------------------------------|--|
| Category | Cat. 6 (Cat 5E available upon request) |
| Connection | 10BaseT, 100BaseTx, 1000BaseT |
| Working Voltage | 30/42 Volts AC RMS/VDC |
| Max Current Rating | 1.5 Amps at 20° C |
| Max Contact Resistance | 20 mΩ |
| Min. Insulation Resistance | 1.000 mΩ at 500 Volts DC |
| Dielectric Withstanding Voltage | 1000 Volts |
| Working Temperature | -40° to +68° C |
| Environmental Rating | IP67 (mated) |



**Figure 3
Plug (Front)**



**Figure 4
RJ45 Interconnection Sequence**

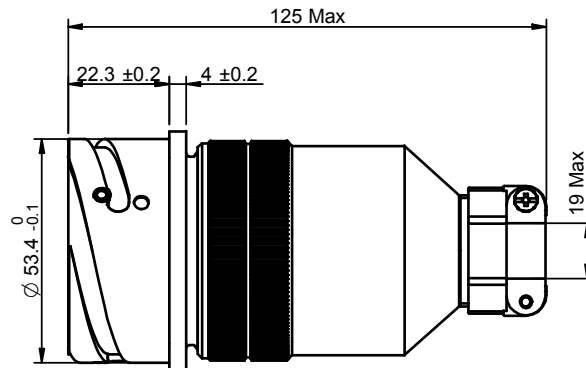
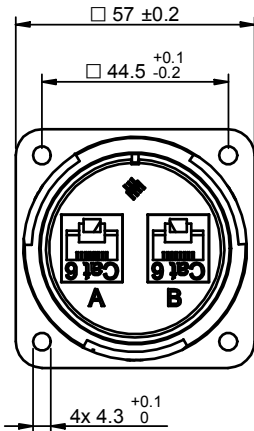


MIL-DTL-5015 Type Reverse Bayonet Coupling (Series ITS) with Double RJ45 Connectors

CONFIGURATIONS AVAILABLE : ITS 00 - DOUBLE RJ45

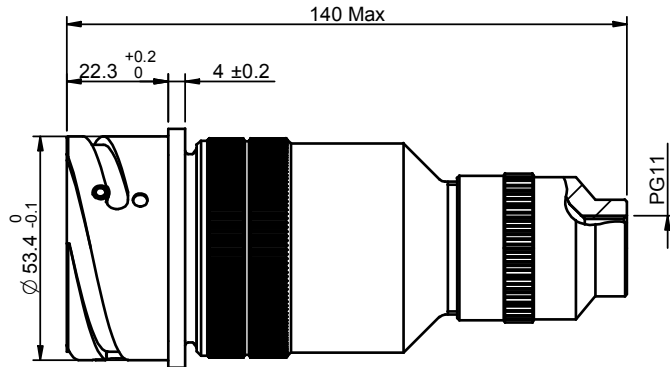
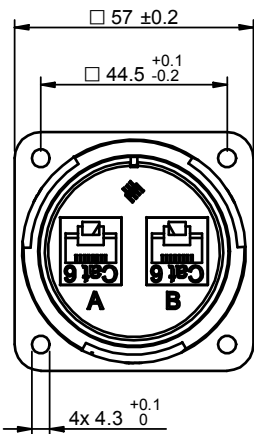
Suitable for n.2 RJ45 cables \varnothing 5,5 / min.

Front View



FRITS0032-2RJ45-1N1F6

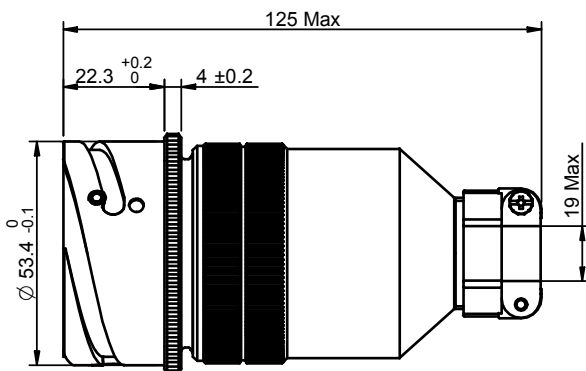
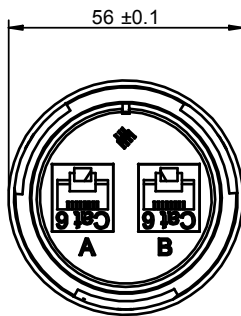
Front View



FRITS0032-2RJ45-1PGF6

CONFIGURATIONS AVAILABLE : ITS 01 - DOUBLE RJ45

Front View



FRITS0132-2RJ45-1N1F6

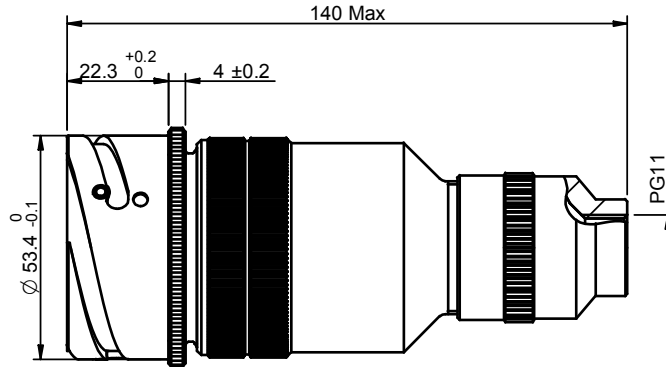
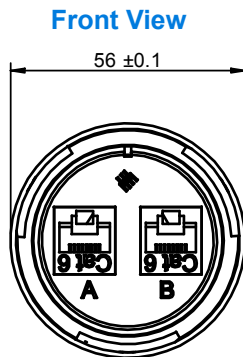
MIL-DTL-5015 Type Reverse Bayonet Coupling (Series ITS) with Double RJ45 Connectors



High-Speed
Connectors

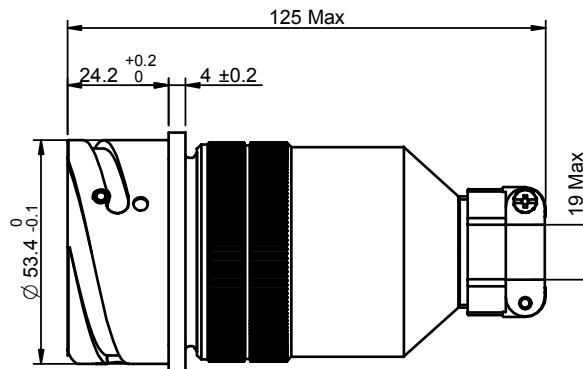
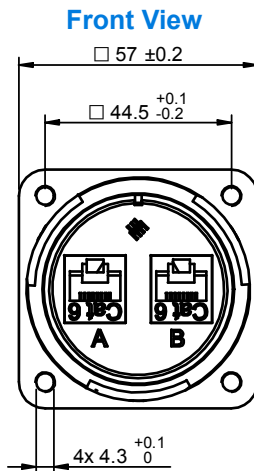
CONFIGURATIONS AVAILABLE : ITS 01 - DOUBLE RJ45

Suitable for n.2 RJ45 cables \varnothing 5,5 / min.

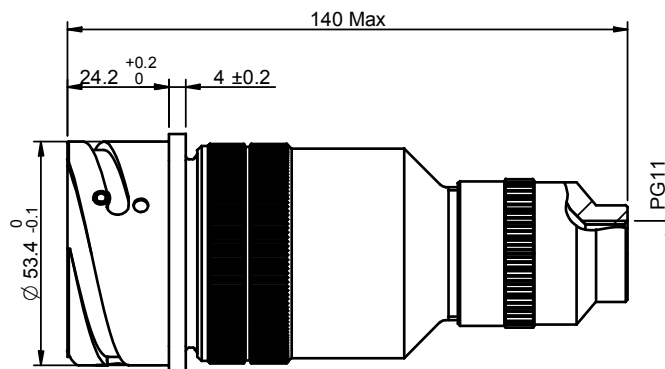
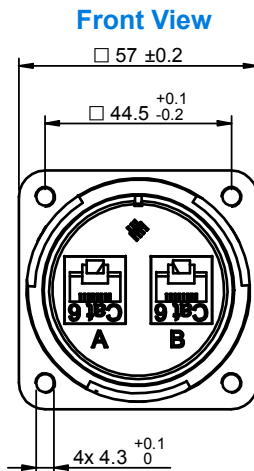


FRITS0132-2RJ45-1PGF6

CONFIGURATIONS AVAILABLE : ITS 030 - DOUBLE RJ45



FRITS03032-2RJ45-1N1F6



FRITS03032-2RJ45-1N1F6

Connectors

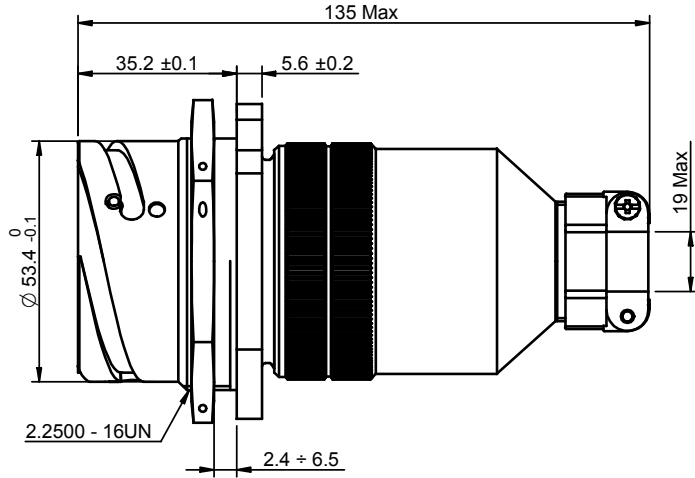
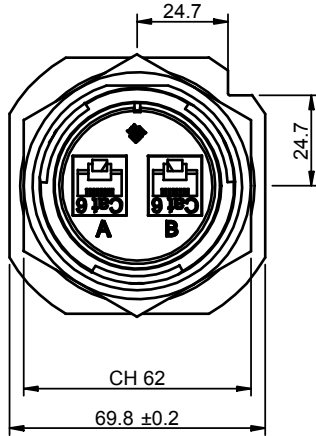


MIL-DTL-5015 Type Reverse Bayonet Coupling
(Series ITS)
with Double RJ45 Connectors

CONFIGURATIONS AVAILABLE : ITS 070 - DOUBLE RJ45

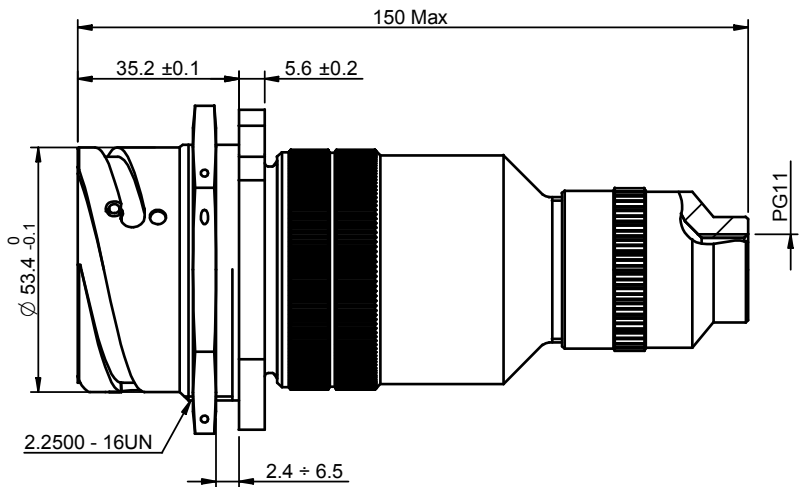
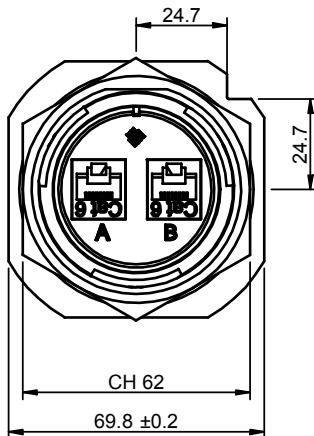
Suitable for n.2 RJ45 cables \varnothing 5,5 / min.

Front View



FRITS07032-2RJ45-1N1F6

Front View



FRITS07032-2RJ45-1PGF6

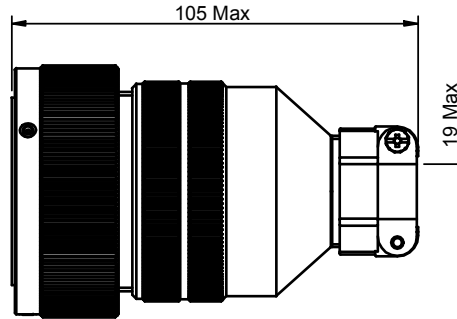
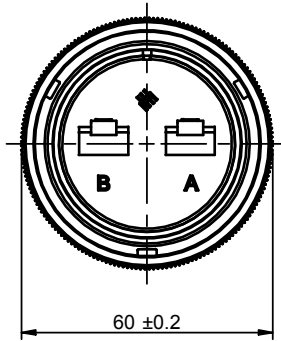
MIL-DTL-5015 Type Reverse Bayonet Coupling
(Series ITS)
with Double RJ45 Connectors



High-Speed
Connectors

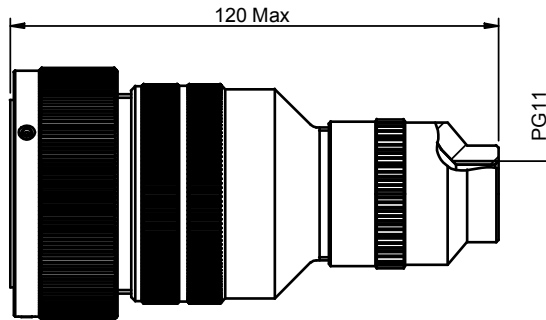
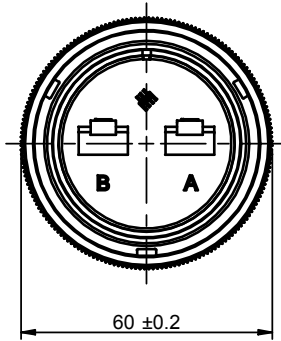
CONFIGURATIONS AVAILABLE : ITS 06 - DOUBLE RJ45

Front View



FRITS0632-2RJ45-3N1F6

Front View

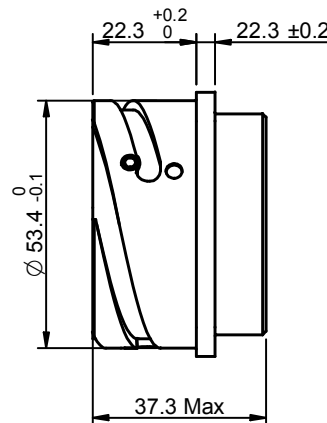
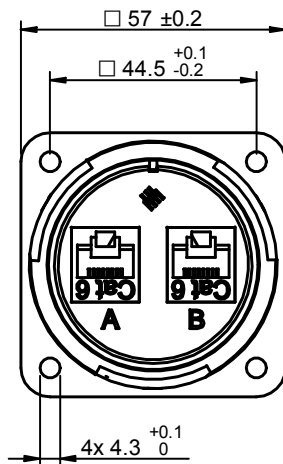


FRITS0632-2RJ45-3PGF6

Connectors

CONFIGURATIONS AVAILABLE : ITS 02 - DOUBLE RJ45

Front View



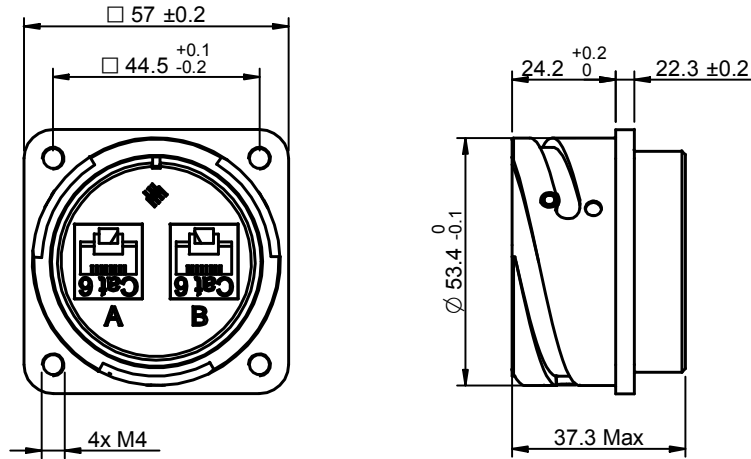
FRITS0232-2RJ45-1F6



MIL-DTL-5015 Type Reverse Bayonet Coupling
(Series ITS)
with Double RJ45 Connectors

CONFIGURATIONS AVAILABLE : ITS 03 - DOUBLE RJ45

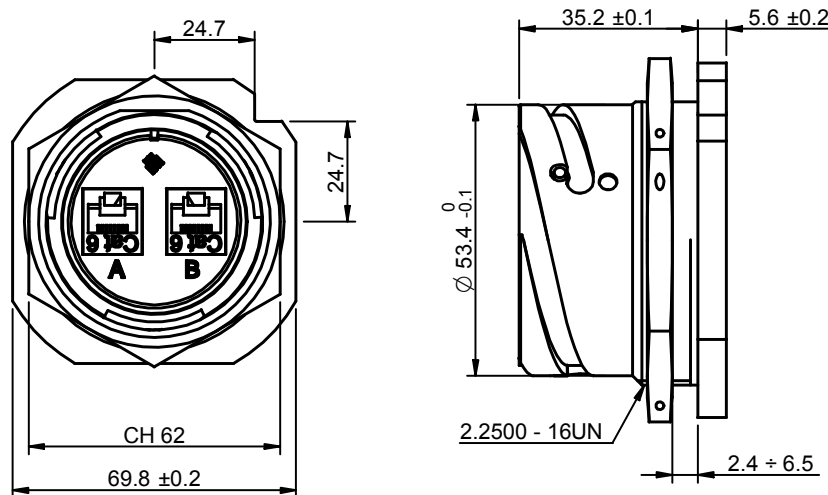
Front View



FRITS0332-2RJ45-1F6

CONFIGURATIONS AVAILABLE : ITS 07 - DOUBLE RJ45

Front View



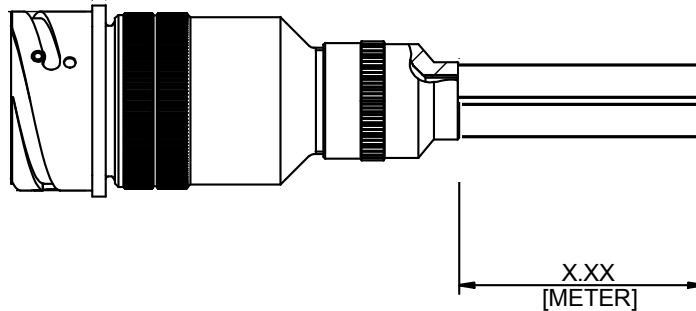
FRITS0732-2RJ45-1F6

MIL-DTL-5015 Type Reverse Bayonet Coupling (Series ITS) with Double RJ45 Connectors



PIGTAIL GENERAL SKETCHES AND CONFIGURATIONS AVAILABLE

Female with Pigtail for Configuration : 00 - 01 - 030 - 070



EXAMPLE : FRITS0032-2RJ45-21.5PHMF6 → 1.5 mt Pigtail

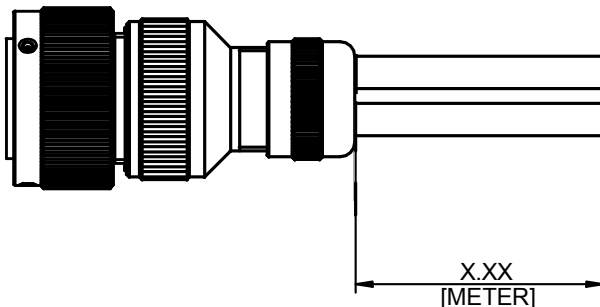
| |
|--|
| Female with Pigtail for Configuration : 00 |
| FRITS0032-2RJ45-2X.xxN1F6 |
| FRITS0032-2RJ45-2X.xxPGF6 |

| |
|---|
| Female with Pigtail for Configuration : 030 |
| FRITS03032-2RJ45-2X.xxN1F6 |
| FRITS03032-2RJ45-2X.xxPGF6 |

| |
|--|
| Female with Pigtail for Configuration : 01 |
| FRITS0132-2RJ45-2X.xxN1F6 |
| FRITS0132-2RJ45-2X.xxPGF6 |

| |
|---|
| Female with Pigtail for Configuration : 070 |
| FRITS07032-2RJ45-2X.xxN1F6 |
| FRITS07032-2RJ45-2X.xxPGF6 |

Male with Pigtail for Configuration : 06



| |
|--|
| Female with Pigtail for Configuration : 06 |
| FRITS0632-2RJ45-4X.xxN1F6 |
| FRITS0632-2RJ45-4X.xxPGF6 |

EXAMPLE : FRITS0632-2RJ45-41.5PHMF6 → 1.5 mt Pigtail

MIL-DTL-5015 Type Reverse Bayonet Coupling (Series ITS) USB-A Connector

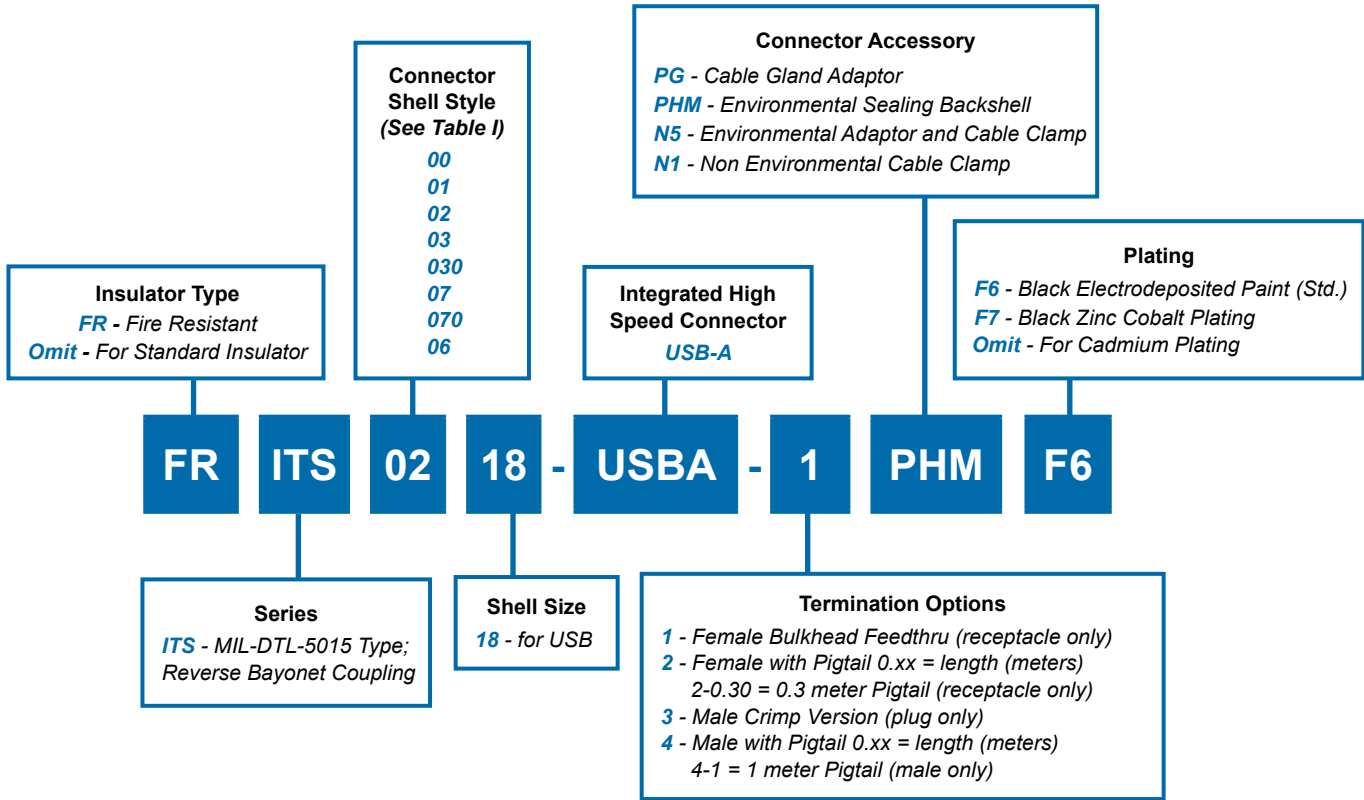


Figure 1
Receptacle (Front)

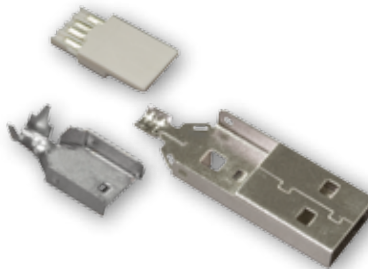


Figure 2
Plug (Front)

MIL-DTL-5015 Type Reverse Bayonet Coupling (Series ITS) USB-A Connector



TABLE I

**Connector Shell
Detailed Description**

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

07 - Rear Panel Mount Jam Nut Receptacle; No Accessory Threads

070 - Rear Panel Mount Jam Nut Receptacle with Accessory Threads

06 - Straight Cylindrical Plug Connector with Accessory Threads

Commercial-grade USB-A connectors are intended for use in clean, dry environments. Exposure to dirt and moisture can lead to damage or failure. Glenair's sealed USB-A connectors and feed-thrus provide a high level of protection for the most hostile environments. Standard USB-A connectors are housed in rugged, waterproof ITS and IPT Series bayonet connectors. Connectors feature resilient nitrile inserts and electrodeposited corrosion-resistant black paint or black zinc cobalt plating. Cadmium plating is also available. A typical ITS USB-A application consists of a through bulkhead female receptacle (*Figure 1*) and a male plug crimp USB-A (*Figure 2*).

TECHNICAL CHARACTERISTICS

| | |
|---------------------------------|---------------------------|
| Insert Arrangement | USB Type A |
| Dielectric Withstanding Voltage | 500 Volts AC for 1 minute |
| Current Rating | 1 Amp Max |
| Max. Contact Resistance | 30 mΩ |
| Min. Insulation Resistance | 1.000 mΩ at 500 Volts DC |
| Working Temperature | -55° to +105° C |
| Environmental Rating | IP67 (mated) |

Assembly Instructions

- Slide domed nut, rubber bushing, compression fitting and adapter over cable.
- Strip and prep USB cable.
- Solder wires to USB Insert.
- Install USB insert into housing and attach lid.
- Crimp lid to shield using hex crimp tool.
- Push assembled USB connector into back side of dielectric; until the metal tab bottoms on the rubber insulator.
- Install strain relief components and securely tighten.
- For use with M24758A conduit, remove stock backshell and replace with M24758/29 conduit adapter.



**Solder wires to USB-A
Insert**



**Install insert, attach
lid, and crimp shield**



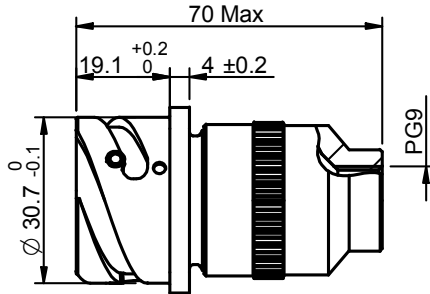
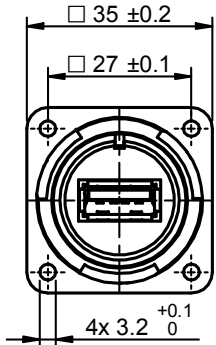
**Push terminated USB connector
into the dielectric until the tab
bottoms in the notch**



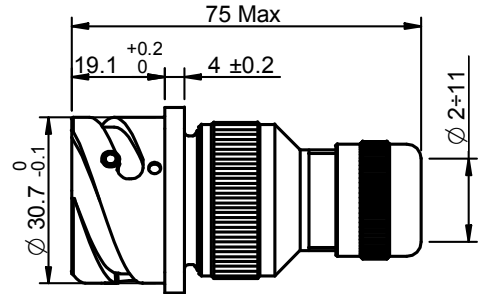
**Attach adapter, fitting,
bushing and nut. Securely
tighten.**

CONFIGURATIONS AVAILABLE : ITS 00

Front View

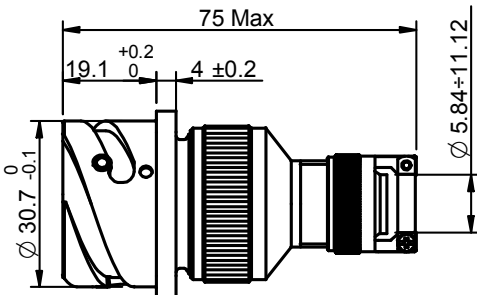
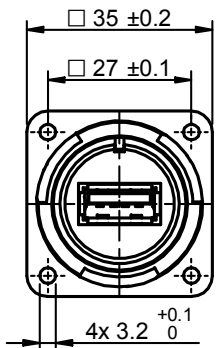


FRITS0018-USBA-1PGF6

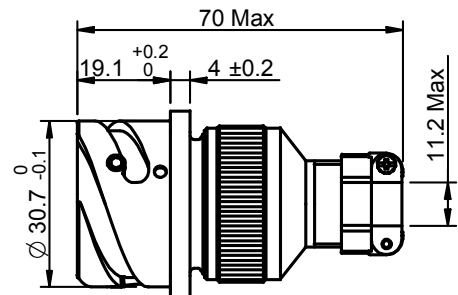


FRITS0018-USBA-1PHMF6

Front View



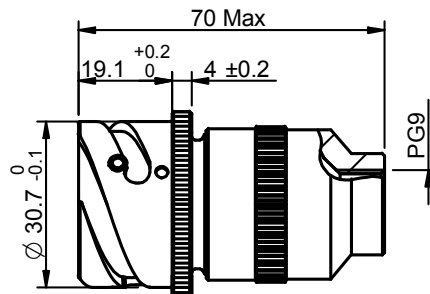
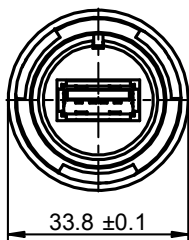
FRITS0018-USBA-1N5F6



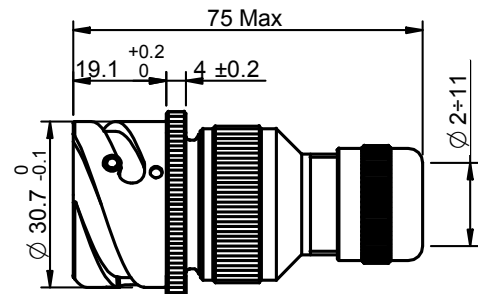
FRITS0018-USBA-1N1F6

CONFIGURATIONS AVAILABLE : ITS 01

Front View



FRITS0118-USBA-1PGF6



FRITS0118-USBA-1PHMF6

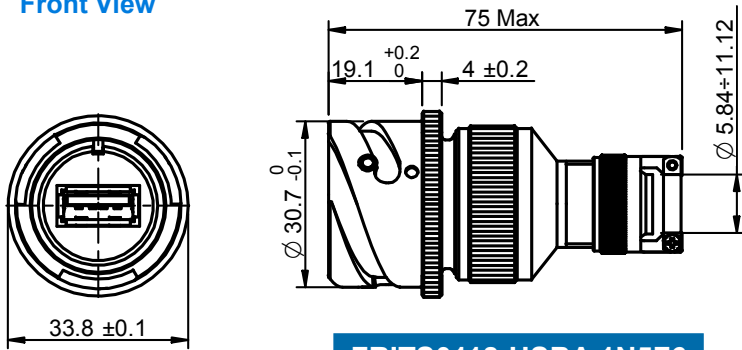
MIL-DTL-5015 Type Reverse Bayonet Coupling (Series ITS) USB-A Connector



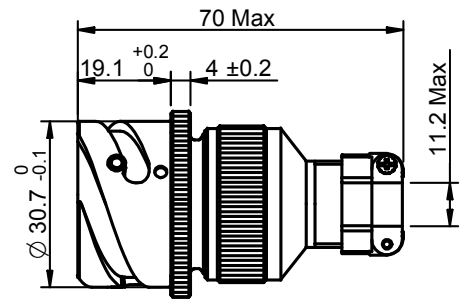
High-Speed
Connectors

CONFIGURATIONS AVAILABLE : ITS 01

Front View



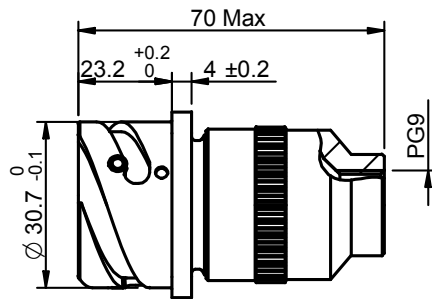
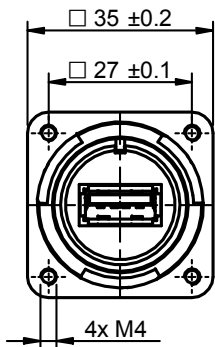
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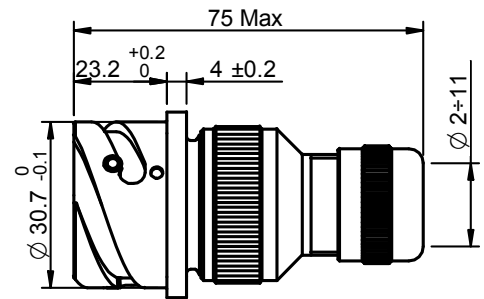
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CONFIGURATIONS AVAILABLE : ITS 030

Front View

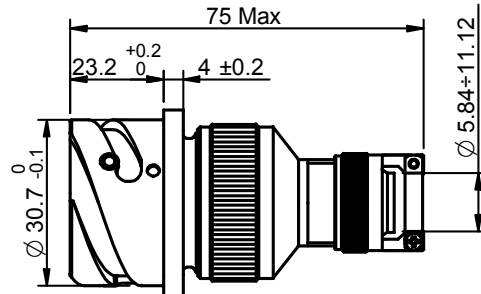
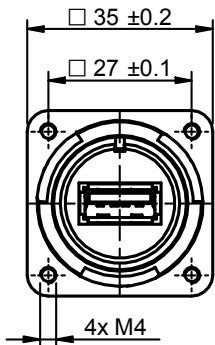


FRITS03018-USBA-1PGF6

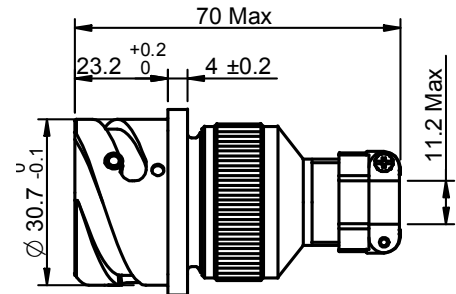


FRITS03018-USBA-1PHMF6

Front View



FRITS03018-USBA-1N5F6

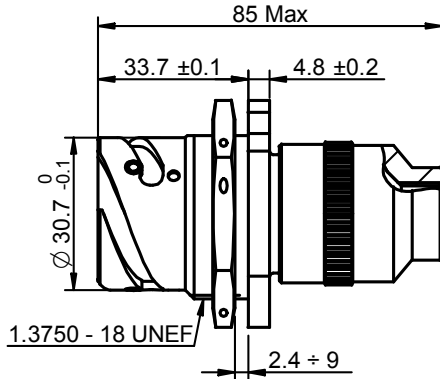
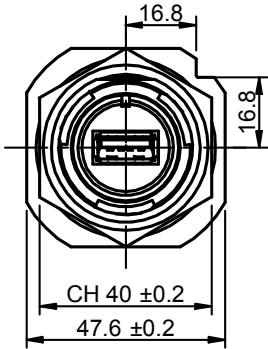


FRITS03018-USBA-1N1F6

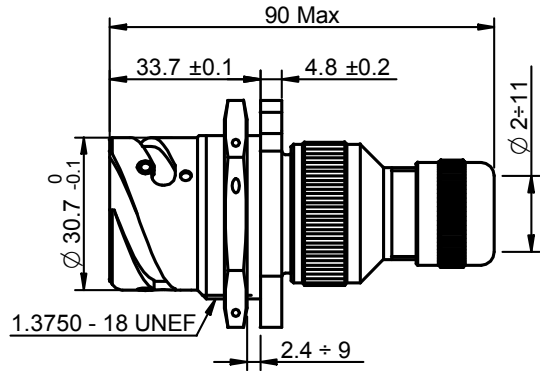
Connectors

CONFIGURATIONS AVAILABLE : ITS 070

Front View

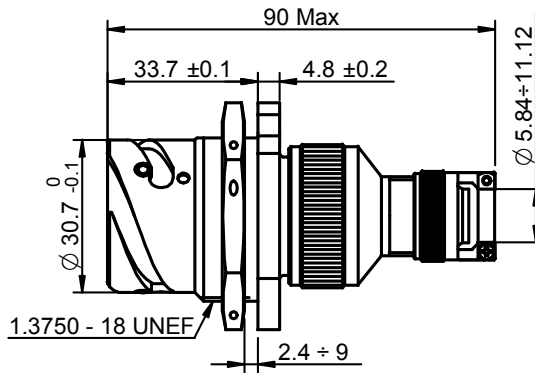
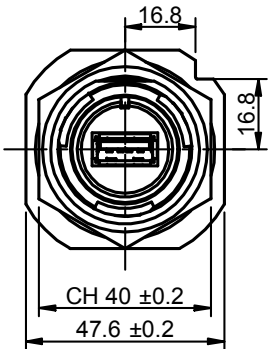


FRITS07018-USBA - 1 - PG F6

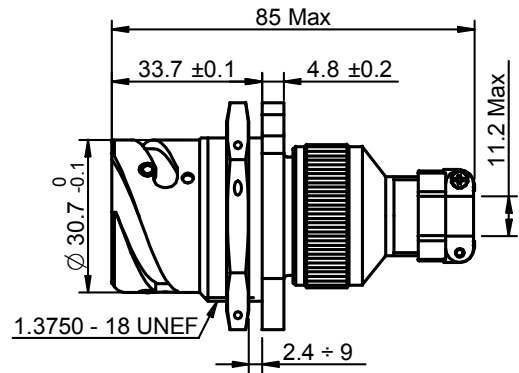


FRITS07018-USBA-1PHM F6

Front View



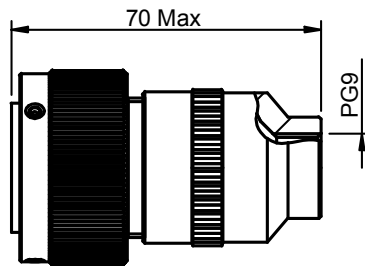
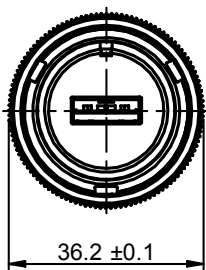
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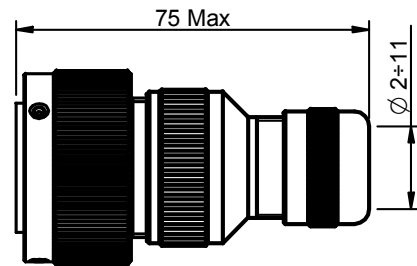
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CONFIGURATIONS AVAILABLE : ITS 06

Front View



FRITS0618-USBA-3PGF6



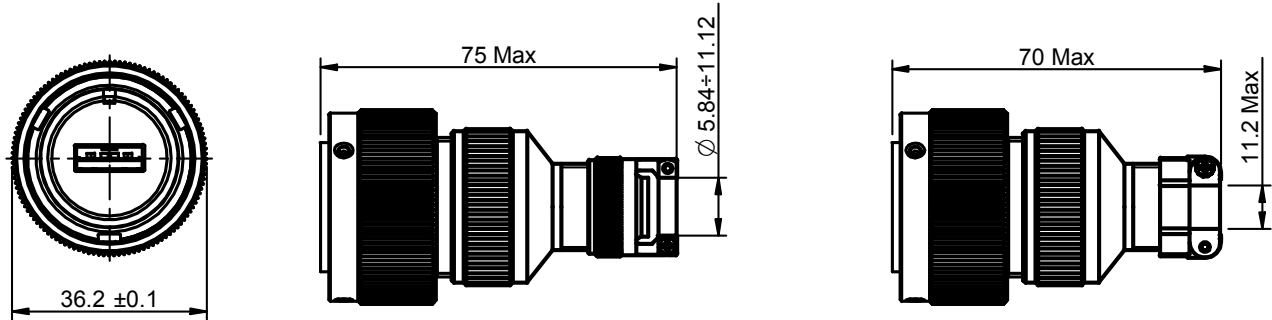
FRITS0618-USBA-3PHMF6

MIL-DTL-5015 Type Reverse Bayonet Coupling
(Series ITS)
USB-A Connector



CONFIGURATIONS AVAILABLE : ITS 06

Front View

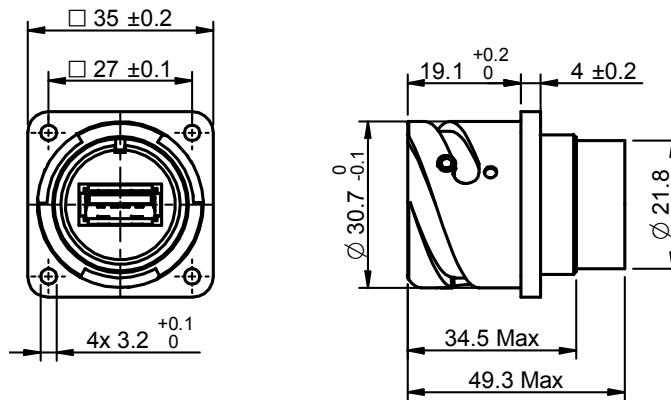


FRITS0618-USBA-3N5F6

FRITS0618-USBA-3N1F6

CONFIGURATIONS AVAILABLE : ITS 02

Front View



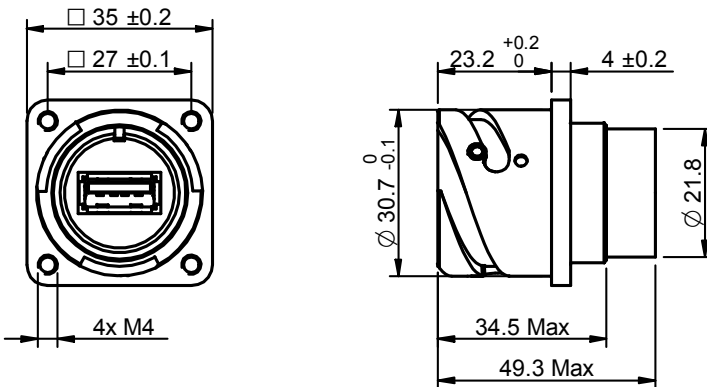
FRITS0218-USBA-1F6



MIL-DTL-5015 Type Reverse Bayonet Coupling
(Series ITS)
USB-A Connector

CONFIGURATIONS AVAILABLE : ITS 03

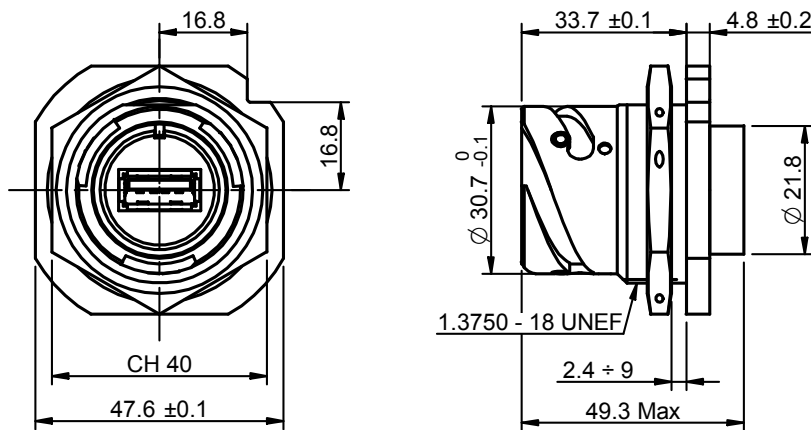
Front View



FRITS0318-USBA-1F6

CONFIGURATIONS AVAILABLE : ITS 07

Front View



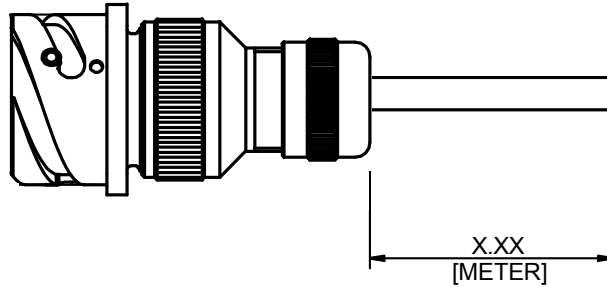
FRITS0718-USBA-1F6

MIL-DTL-5015 Type Reverse Bayonet Coupling (Series ITS) USB-A Connector



PIGTAIL GENERAL SKETCHES AND CONFIGURATIONS AVAILABLE

Female with Pigtail for Configuration : 00 - 01 - 030 - 070



EXAMPLE : FRITS0018-USBA-21.5PHMF6 → 1.5 mt Pigtail

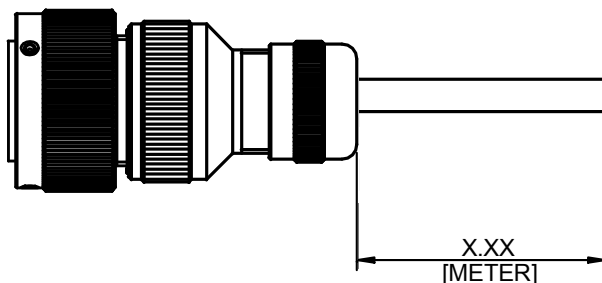
| Female with Pigtail for Configuration : 00 |
|--|
| FRITS0018-USBA-2X.xxN1F6 |
| FRITS0018-USBA-2X.xxN5F6 |
| FRITS0018-USBA-2 X.xxPHMF6 |
| FRITS0018-USBA-2X.xxPGF6 |

| Female with Pigtail for Configuration : 030 |
|---|
| FRITS03018-USBA-2X.xxN1F6 |
| FRITS03018-USBA-2X.xxN5F6 |
| FRITS03018-USBA-2X.xxPHMF6 |
| FRITS03018-USBA-2X.xxPGF6 |

| Female with Pigtail for Configuration : 01 |
|--|
| FRITS0118-USBA-2X.xxN1F6 |
| FRITS0118-USBA-2X.xxN5F6 |
| FRITS0118-USBA-2X.xxPHMF6 |
| FRITS0118-USBA-2X.xxPGF6 |

| Female with Pigtail for Configuration : 070 |
|---|
| FRITS07018-USBA-2X.xxN1F6 |
| FRITS07018-USBA-2X.xxN5F6 |
| FRITS07018-USBA-2X.xxPHMF6 |
| FRITS07018-USBA-2X.xxPGF6 |

Male with Pigtail for Configuration : 06



| Female with Pigtail for Configuration : 06 |
|--|
| FRITS0618-USBA-4X.xxN1F6 |
| FRITS0618-USBA-4X.xxN5F6 |
| FRITS0618-USBA-4X.x PHMF6 |
| FRITS0618-USBA-4X.xxPGF6 |

EXAMPLE : FRITS0618-USBA-41.5PHMF6 → 1.5 mt Pigtail



MIL-DTL-5015 Type Reverse Bayonet Coupling (Series ITS) USB-B Connector

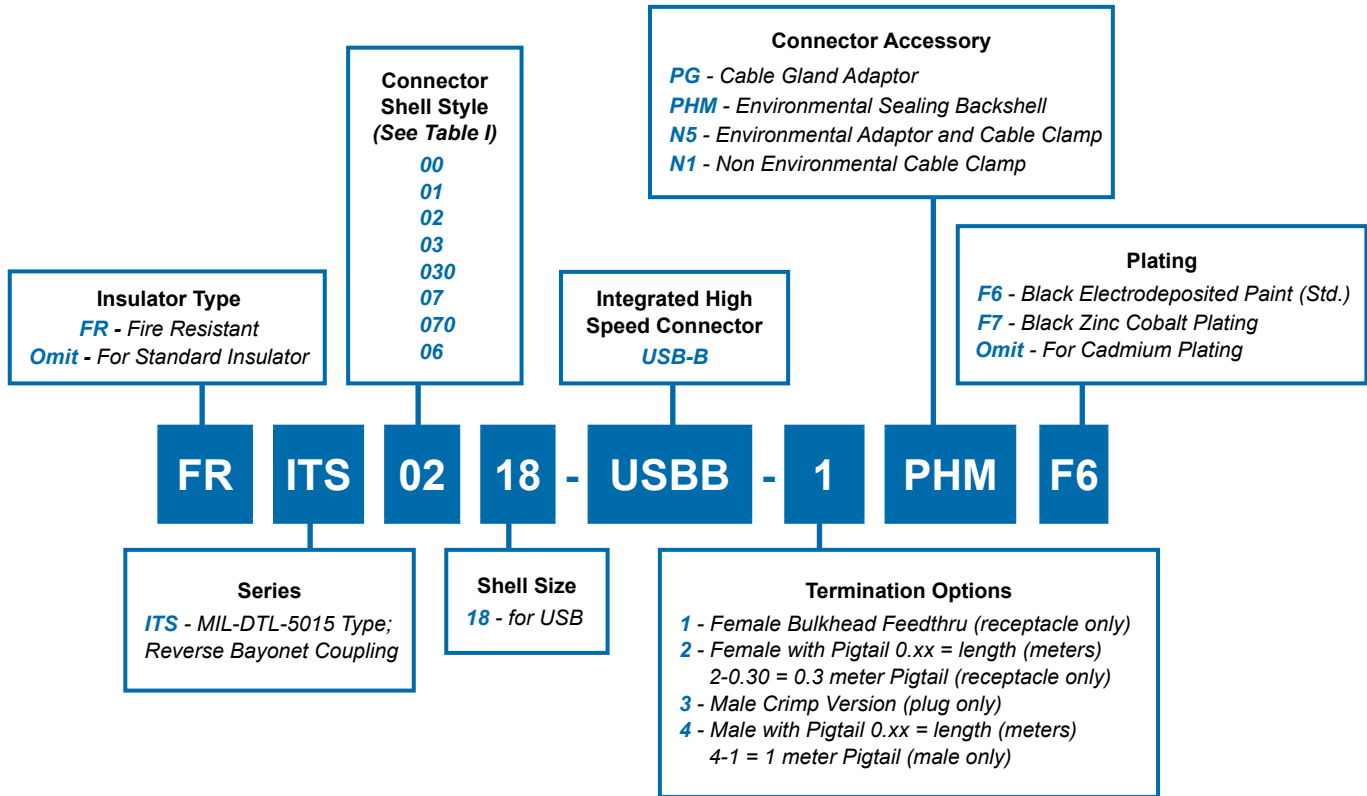
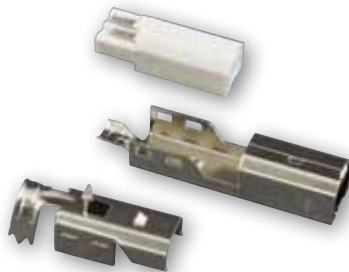


Figure 1
Receptacle (Front)



Figure 2
Plug (Front)



MIL-DTL-5015 Type Reverse Bayonet Coupling (Series ITS) USB-B Connector



TABLE I

**Connector Shell
Detailed Description**

- 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*
- 07 - Rear Panel Mount Jam Nut Receptacle; No Accessory Threads*
- 070 - Rear Panel Mount Jam Nut Receptacle with Accessory Threads*
- 06 - Straight Cylindrical Plug Connector with Accessory Threads*

Commercial-grade USB-B connectors are intended for use in clean, dry environments. Exposure to dirt and moisture can lead to damage or failure. Glenair's sealed USB-B connectors and feed-thrus provide a high level of protection for the most hostile environments. Standard USB-B connectors are housed in rugged, waterproof ITS and IPT Series bayonet connectors. Connectors feature resilient nitrile inserts and electrodeposited corrosion-resistant black paint or black zinc cobalt plating. Cadmium plating is also available. A typical ITS USB-B application consists of a through bulkhead female receptacle (Figure 1) and a male plug crimp USB-B (Figure 2).

TECHNICAL CHARACTERISTICS

| | |
|---------------------------------|---------------------------|
| Insert Arrangement | USB Type B |
| Dielectric Withstanding Voltage | 500 Volts AC for 1 minute |
| Current Rating | 1 Amp Max |
| Max. Contact Resistance | 30 mΩ |
| Min. Insulation Resistance | 1.000 mΩ at 500 Volts DC |
| Working Temperature | -55° to +105° C |
| Environmental Rating | IP67 (with metal cap) |

Assembly Instructions

1. Slide domed nut, rubber bushing, compression fitting and adapter over cable.
2. Strip and prep USB cable.
3. Solder wires to USB Insert.
4. Install USB insert into housing and attach lid.
5. Crimp lid to shield using hex crimp tool.
6. Push assembled USB connector into back side of dielectric; until the metal tab bottoms on the rubber insulator.
7. Install strain relief components and securely tighten.
8. For use with M24758A conduit, remove stock backshell and replace with M24758/29 conduit adapter.



**Solder wires to USB-B
Insert**



**Install insert, attach
lid, and crimp shield**



**Push terminated USB connector
into the dielectric until the tab
bottoms in the notch**



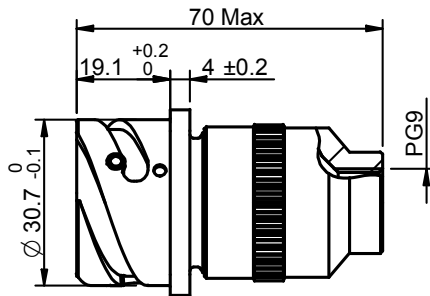
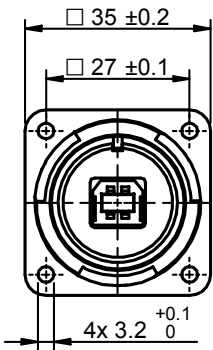
**Attach adapter, fitting,
bushing and nut. Securely
tighten.**



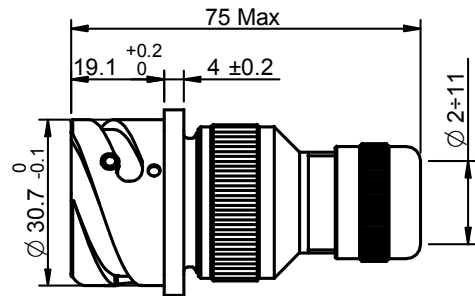
MIL-DTL-5015 Type Reverse Bayonet Coupling (Series ITS) USB-B Connector

CONFIGURATIONS AVAILABLE : ITS 00

Front View

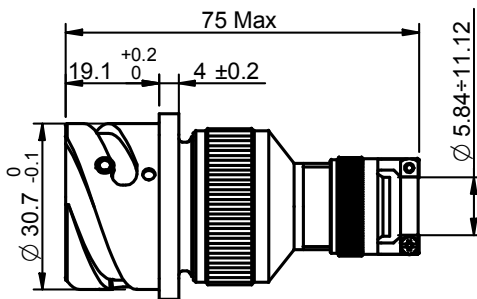
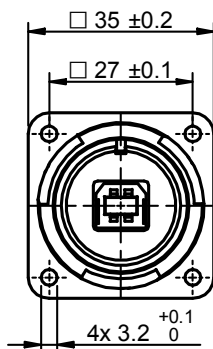


FRITS0018-USBB-1PGF6

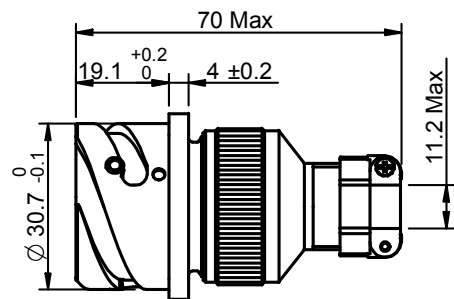


FRITS0018-USBB-1PHMF6

Front View



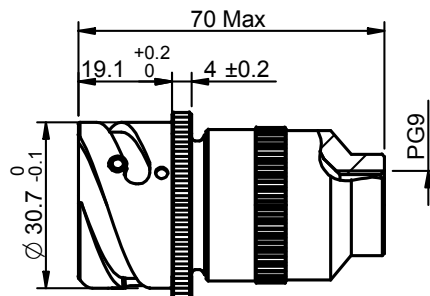
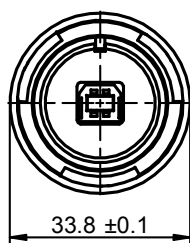
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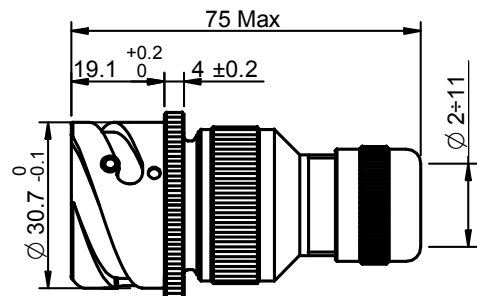
FRITS0018-USBB-1N1F6

CONFIGURATIONS AVAILABLE : ITS 01

Front View



FRITS0118-USBB-1PGF6



FRITS0118-USBB-1PHMF6

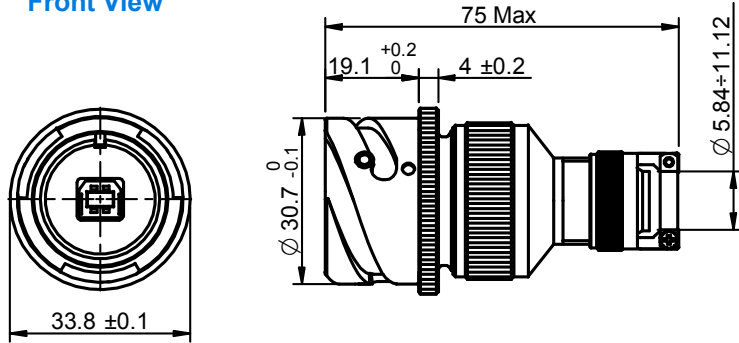
MIL-DTL-5015 Type Reverse Bayonet Coupling (Series ITS) USB-B Connector



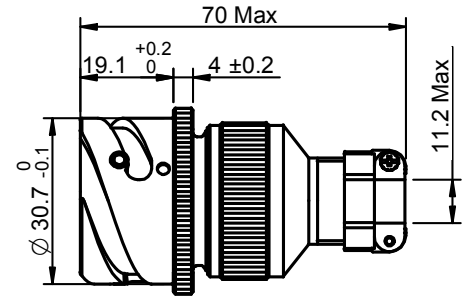
High-Speed
Connectors

CONFIGURATIONS AVAILABLE : ITS 01

Front View



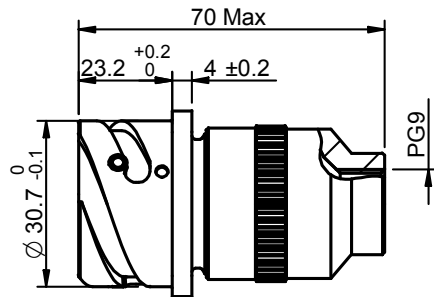
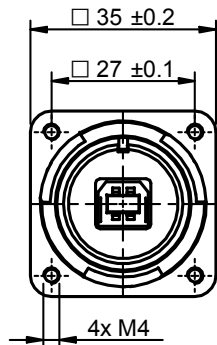
FRITS0118-USB-1N5F6



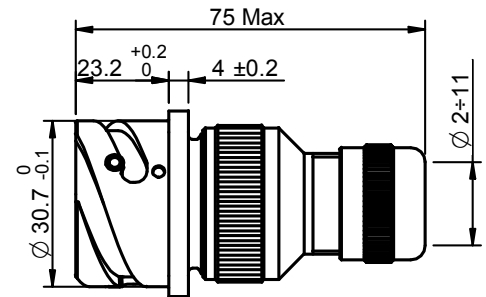
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CONFIGURATIONS AVAILABLE : ITS 030

Front View

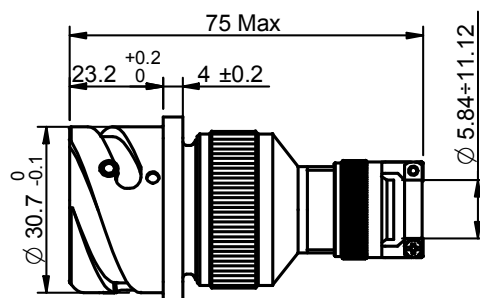
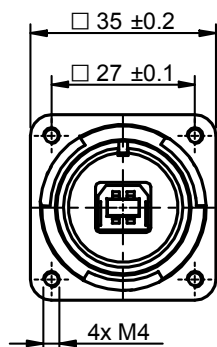


FRITS03018-USB-1PGF6

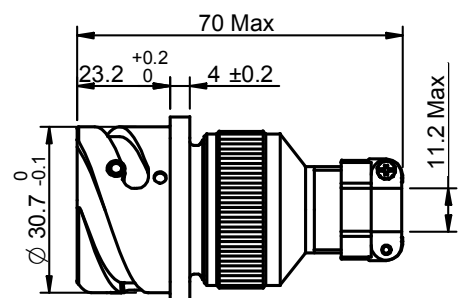


FRITS03018-USB-1 PHMF6

Front View



FRITS03018-USB-1N5F6



FRITS03018-USB-1N1F6

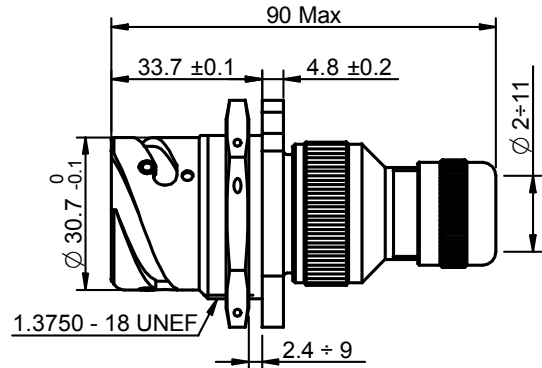
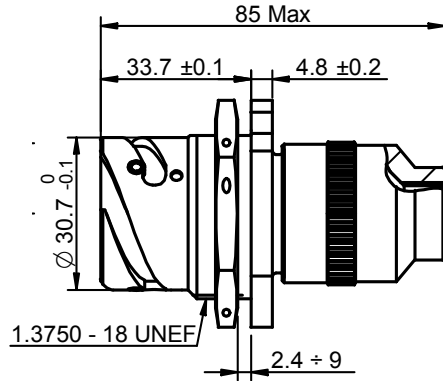
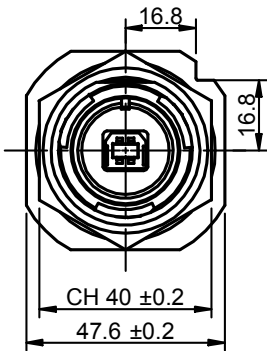
Connectors



MIL-DTL-5015 Type Reverse Bayonet Coupling (Series ITS) USB-B Connector

CONFIGURATIONS AVAILABLE : ITS 070

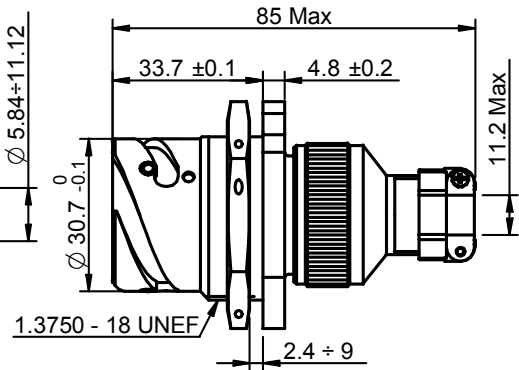
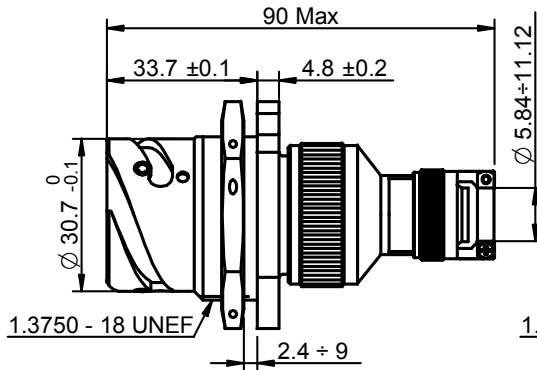
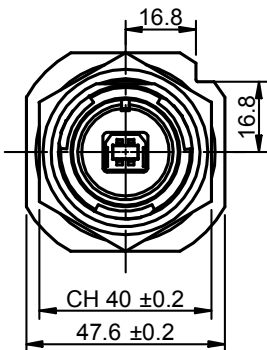
Front View



FRITS07018-USBB-1PG F6

FRITS07018-USBB-1PHM F6

Front View

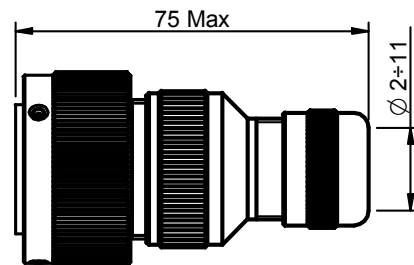
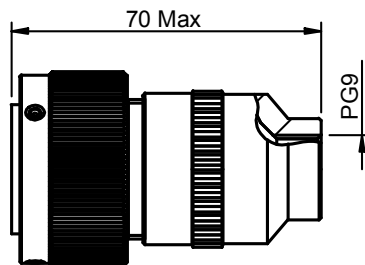
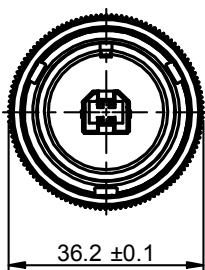


FRITS07018-USBB-1N5F6

FRITS07018-USBB-1N1F6

CONFIGURATIONS AVAILABLE : ITS 06

Front View



FRITS0618-USBB-3PGF6

FRITS0618-USBB-3PHMF6

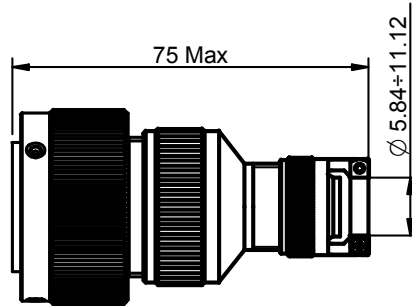
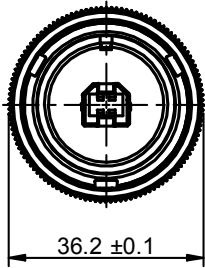
MIL-DTL-5015 Type Reverse Bayonet Coupling
(Series ITS)
USB-B Connector



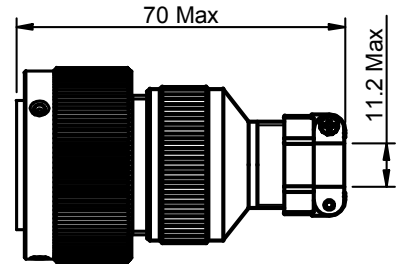
High-Speed
Connectors

CONFIGURATIONS AVAILABLE : ITS 06

Front View



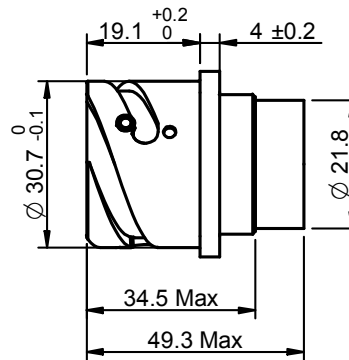
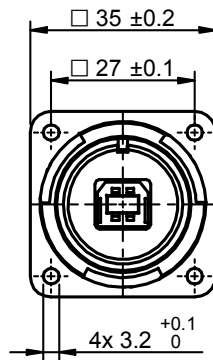
FRITS0618-USB-3N5F6



FRITS0618-USB-3N1F6

CONFIGURATIONS AVAILABLE : ITS 02

Front View



FRITS0218-USB-1F6

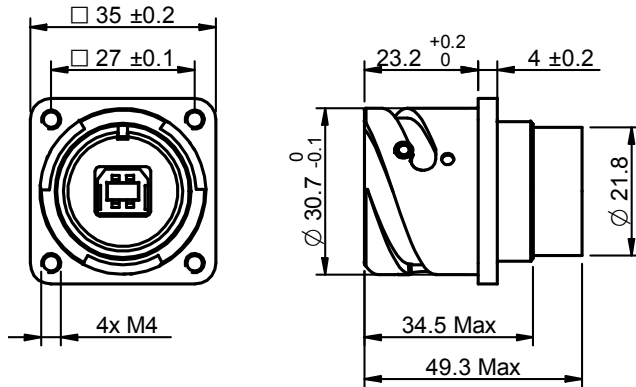
Connectors



MIL-DTL-5015 Type Reverse Bayonet Coupling
(Series ITS)
USB-B Connector

CONFIGURATIONS AVAILABLE : ITS 03

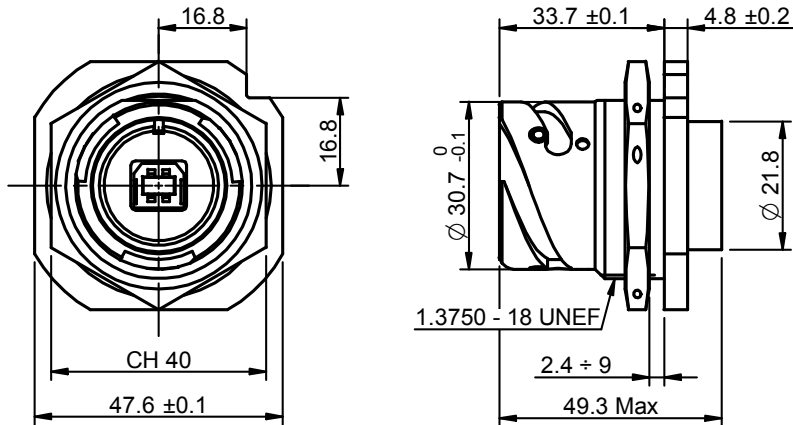
Front View



FRITS0318-USB-1F6

CONFIGURATIONS AVAILABLE : ITS 07

Front View



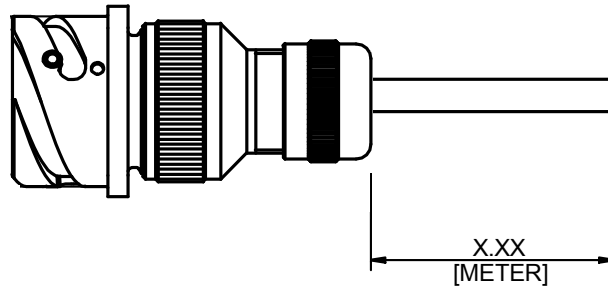
FRITS0718-USB-1F6

MIL-DTL-5015 Type Reverse Bayonet Coupling (Series ITS) USB-B Connector



PIGTAIL GENERAL SKETCHES AND CONFIGURATIONS AVAILABLE

Female with Pigtail for Configuration : 00 - 01 - 030 - 070



EXAMPLE : FRITS0018-USBB-21.5PHMF6 → 1.5 mt Pigtail

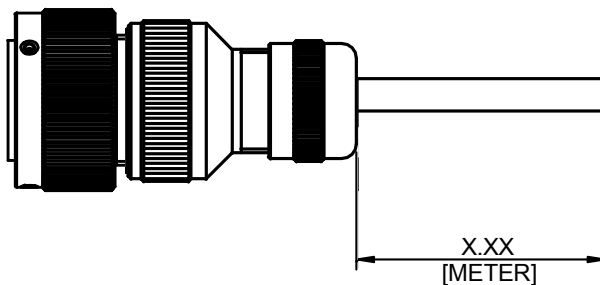
| Female with Pigtail for Configuration : 00 |
|--|
| FRITS0018-USBB-2X.xxN1F6 |
| FRITS0018-USBB-2X.xxN5F6 |
| FRITS0018-USBB-2X.xxPHMF6 |
| FRITS0018-USBB-2X.xxPGF6 |

| Female with Pigtail for Configuration : 030 |
|---|
| FRITS03018-USBB-2X.xxN1F6 |
| FRITS03018-USBB-2X.xxN5F6 |
| FRITS03018-USBB-2X.xxPHMF6 |
| FRITS03018-USBB-2X.xxPGF6 |

| Female with Pigtail for Configuration : 01 |
|--|
| FRITS0118-USBB-2X.xxN1F6 |
| FRITS0118-USBB-2X.xxN5F6 |
| FRITS0118-USBB-2X.xxPHMF6 |
| FRITS0118-USBB-2X.xxPGF6 |

| Female with Pigtail for Configuration : 070 |
|---|
| FRITS07018-USBB-2X.xxN1F6 |
| FRITS07018-USBB-2X.xxN5F6 |
| FRITS07018-USBB-2X.xxPHMF6 |
| FRITS07018-USBB-2X.xxPGF6 |

Male with Pigtail for Configuration : 06



| Female with Pigtail for Configuration : 06 |
|--|
| FRITS0618-USBB-4X.xxN1F6 |
| FRITS0618-USBB-4X.xxN5F6 |
| FRITS0618-USBB-4X.xxPHMF6 |
| FRITS0618-USBB-4X.xxPGF6 |

EXAMPLE : FRITS0618-USBB-41.5PHMF6 → 1.5 mt Pigtail



MIL-DTL-5015 Type Reverse Bayonet
or Threaded Coupling (Series IT and ITS)
USB-A Memory Key

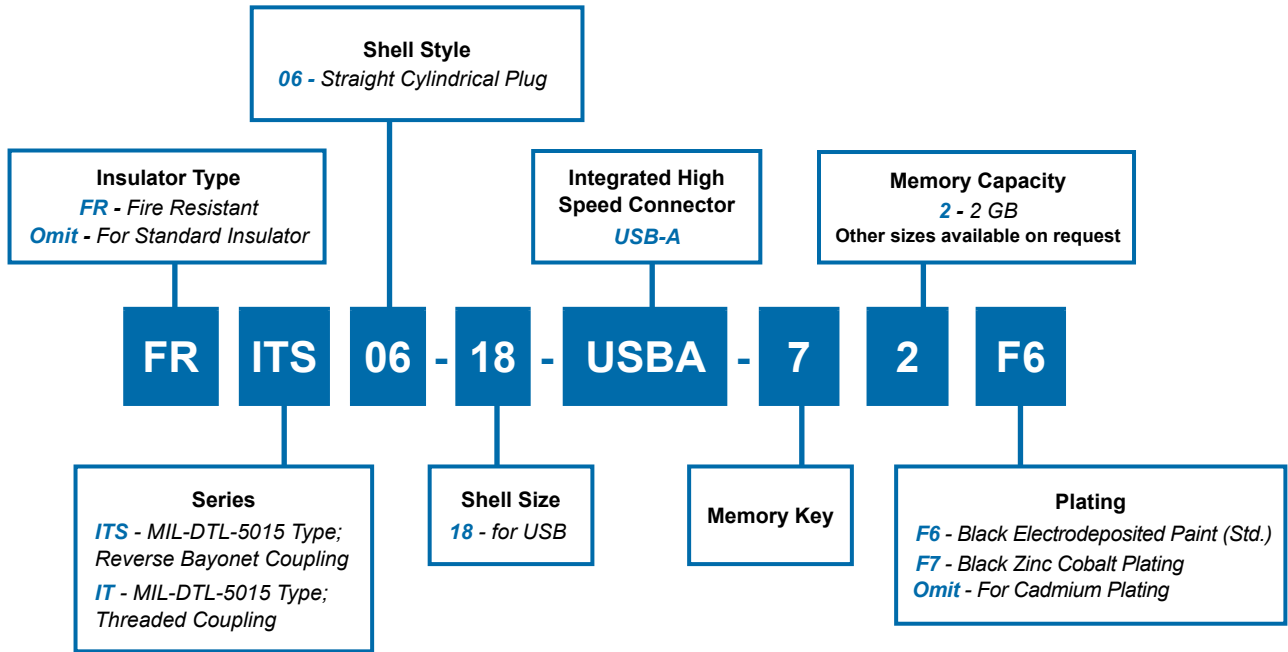


Figure 1
ITS
with USB-A Memory Key

MIL-DTL-5015 Type Reverse Bayonet or Threaded Coupling (Series IT and ITS) USB-A Memory Key

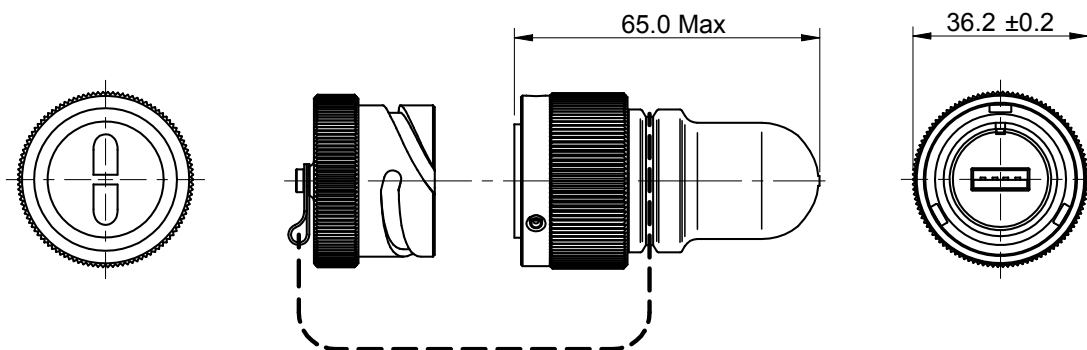
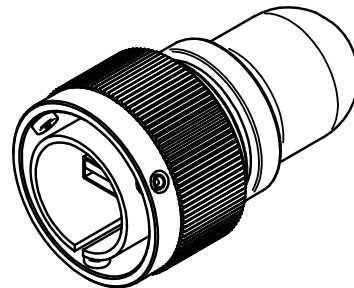


Glenair combines the convenience of a USB-A memory key with the durability and environmental sealing of threaded or bayonet coupling MIL-DTL-5015 Type Connectors. Available in a robust aluminum shell with black electrodeposited paint or black zinc cobalt plating, the Glenair USB-A memory key mates with your choice of IT or ITS type connectors with female USB-A contacts. Cadmium plating is also available.

Standard capacity: 2GB

| TECHNICAL CHARACTERISTICS | |
|---------------------------|---|
| Inserts and Grommet | Suitable Rubber |
| Gaskets | Neoprene Rubber |
| Metallic Parts | Aluminum Alloy RoHS Compliant Finish Available |
| Contact | USB Type A Insert |
| Insulator | P.B.T UL 94-V0 |
| Environmental Rating | IP67 (mated) |
| Memory Capability | 2GB Standard * |

* (for other sizes available, please contact the factory)





MIL-DTL-5015 Type Reverse Bayonet Coupling (Series ITH) Quadrax Connector

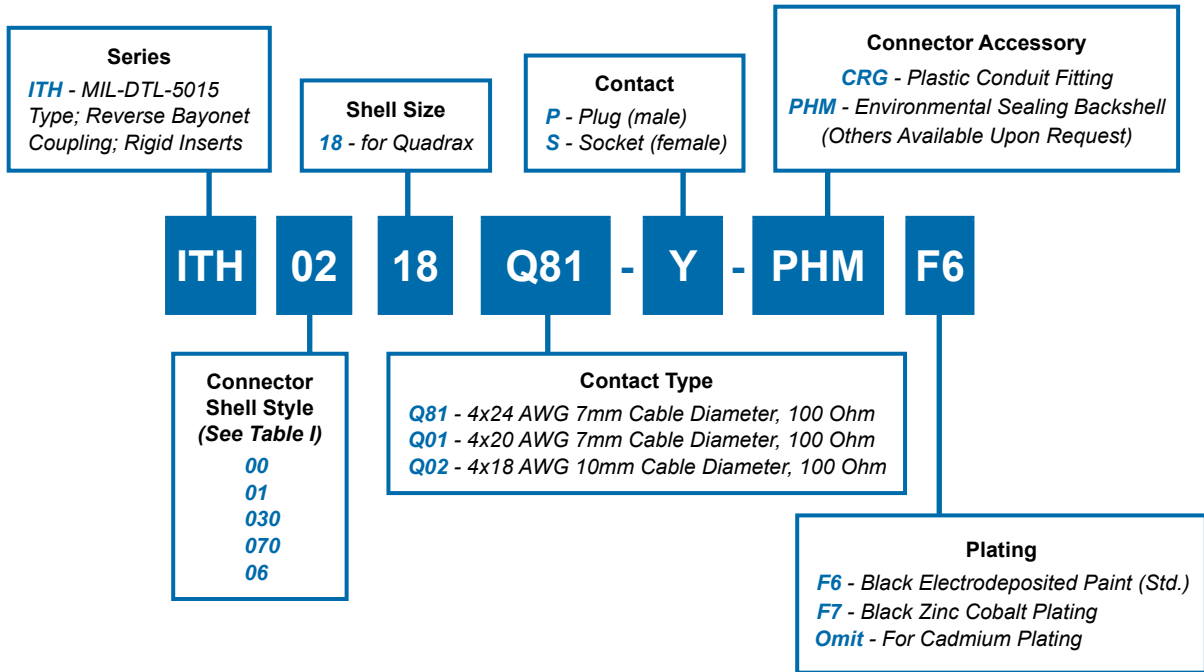


Figure 1
Receptacle (Front)



Figure 2
Plug (Front)

MIL-DTL-5015 Type Reverse Bayonet Coupling (Series ITH) Quadrax Connector



TABLE I

**Connector Shell
Detailed Description**

00 - Front Panel Mount
Square Flange Receptacle
with Accessory Threads

01 - In Line Cylindrical
Receptacle with Accessory
Threads

030 - Rear Panel Mount
Square Flange Receptacle
with Accessory Threads

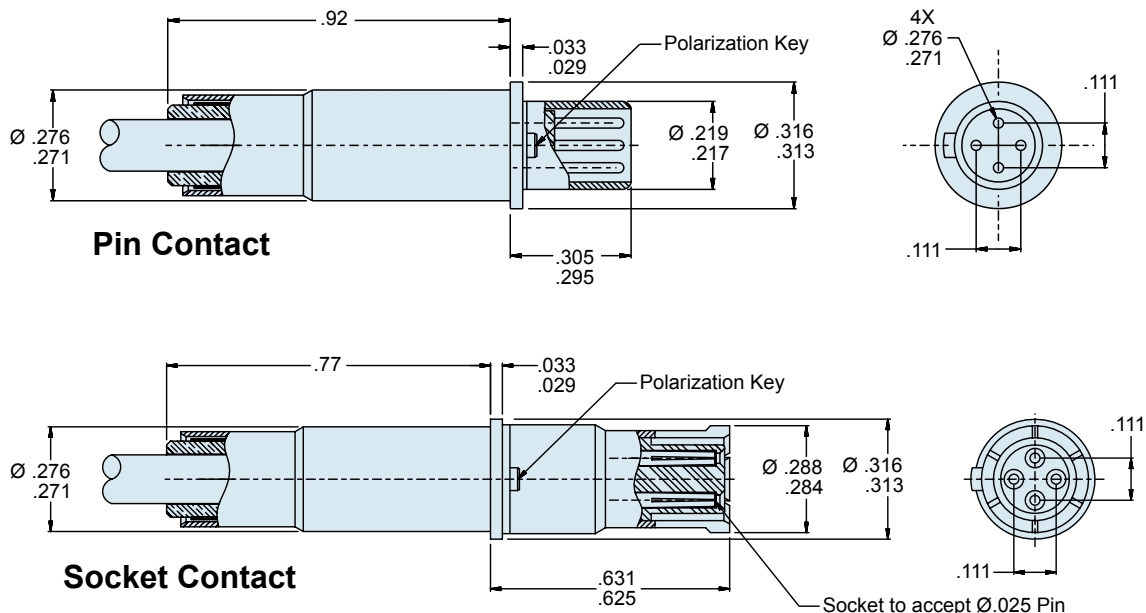
070 - Rear Panel Mount
Jam Nut Receptacle with
Accessory Threads

06 - Straight Cylindrical Plug
Connector with Accessory
Threads

High Speed quadrax connectors offer a host of data transmission benefits, but are often hamstrung by their lack of environmental sealing and durability. Glenair recognized this and created a high speed quadrax contact housed within a rugged ITH series reverse bayonet 5015 type connector. Users can now satisfy their high speed data transmission needs with the reliability of an environmentally sealed and backshell compatible connection system. The ITH Gigastar connector is available with three different contacts and black electrodeposited and black zinc cobalt plating options. Cadmium plating is also available.

| TECHNICAL CHARACTERISTICS | |
|--|---|
| Suitable for cables equivalent to CAT. 5 | |
| Attenuation | .3 dB @ 100MHz (typical per contact pair) |
| Crosstalk | ≥40 dB @ 100 MHz (typical) |
| Max Contact Resistance | 15 mΩ |
| Characteristic Impedance | 150 Ω (100 MHz - 1 GHz) |
| Working Temperature | -40° C to +100° C |
| Environmental Rating | IP67 (mated) |
| Contacts | Q81 - 4x24 AWG 7mm Cable Diameter, 100 Ohm Q01 - 4x20 AWG 7mm Cable Diameter, 100 Ohm Q02 - 4x18 AWG 10mm Cable Diameter, 100 Ohm |

QUADRAX CONTACTS

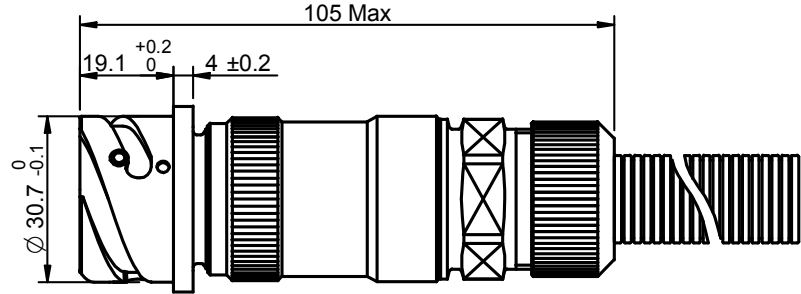
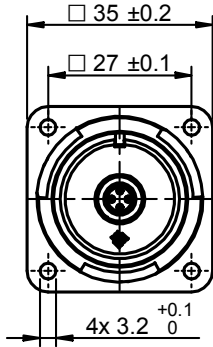




MIL-DTL-5015 Type Reverse Bayonet Coupling
(Series ITH)
Quadrx Connector

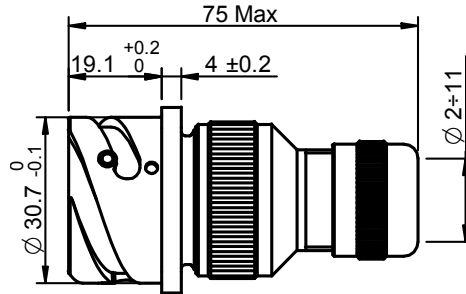
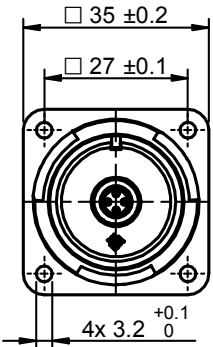
CONFIGURATIONS AVAILABLE : ITH 00

Front View



ITH0018QXX-Y-CRGF6

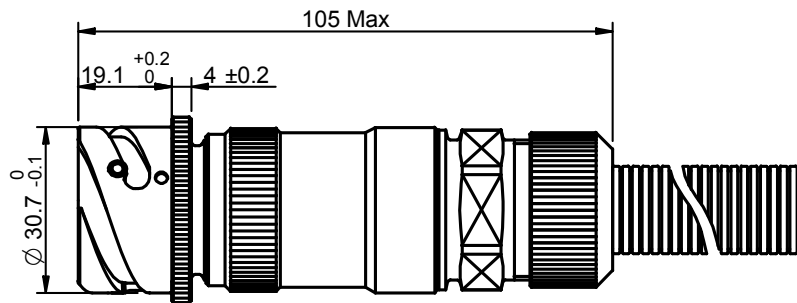
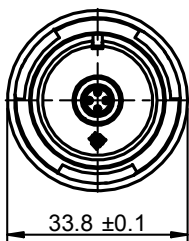
Front View



ITH0018QXX-Y-PHMF6

CONFIGURATIONS AVAILABLE : ITH 01

Front View



ITH0118QXX-Y-CRGF6

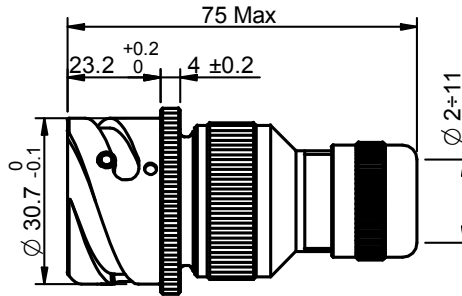
MIL-DTL-5015 Type Reverse Bayonet Coupling
(Series ITH)
Quadrax Connector



High-Speed
Connectors

CONFIGURATIONS AVAILABLE : ITH 01

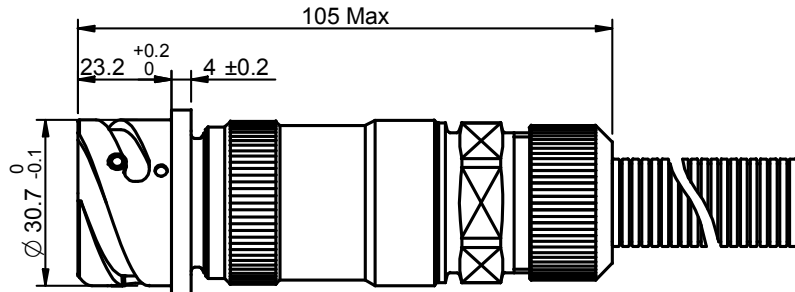
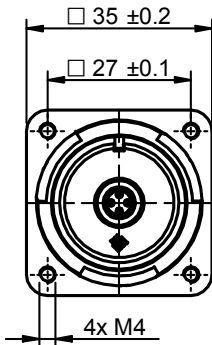
Front View



ITH0118QXX-Y-PHMF6

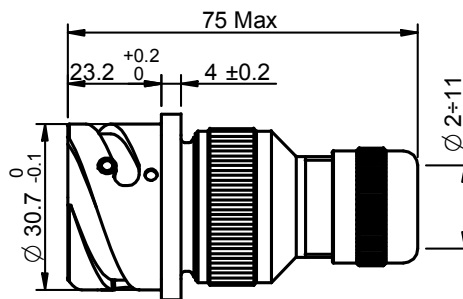
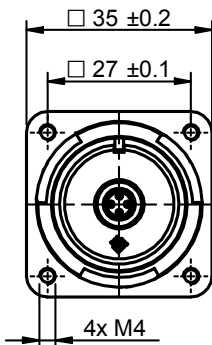
CONFIGURATIONS AVAILABLE : ITH 030

Front View



ITH03018QXX-Y-CRGF6

Front View



ITH03018QXX-Y-PHMF6

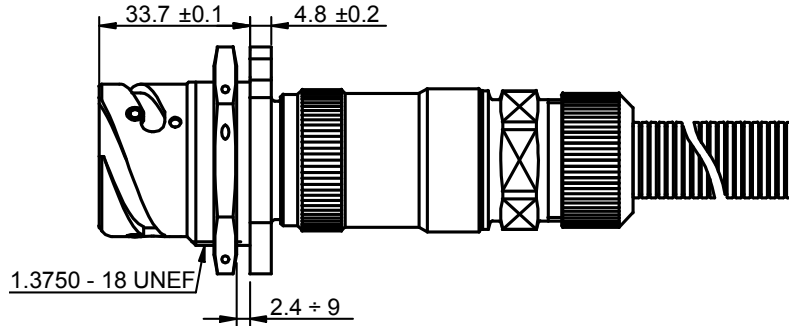
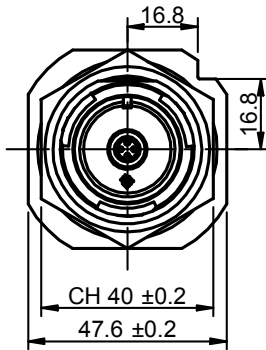
Connectors



MIL-DTL-5015 Type Reverse Bayonet Coupling
(Series ITH)
Quadrx Connector

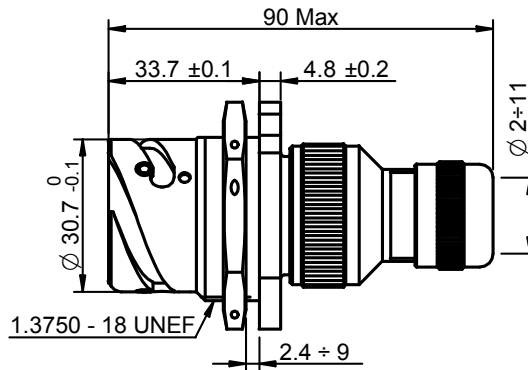
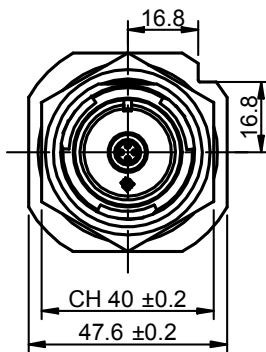
CONFIGURATIONS AVAILABLE : ITH 070

Front View



ITH07018QXX-Y-CRGF6

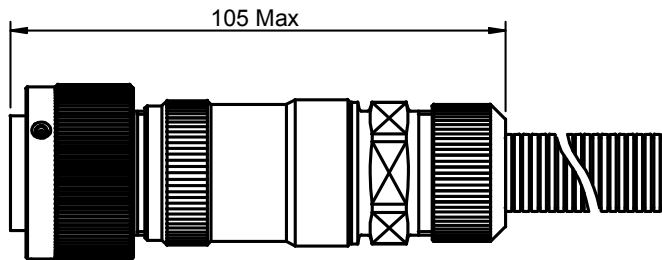
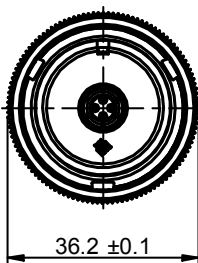
Front View



ITH07018QXX-Y-PHMF6

CONFIGURATIONS AVAILABLE : ITH 06

Front View



ITH0618QXX-Y-CRGF6

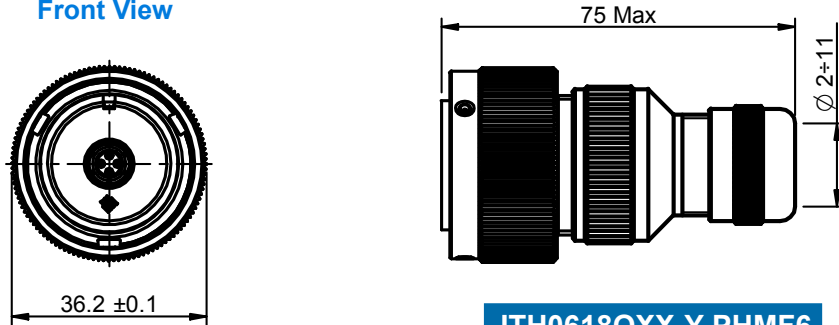
MIL-DTL-5015 Type Reverse Bayonet Coupling (Series ITH) Quadrx Connector



High-Speed
Connectors

CONFIGURATIONS AVAILABLE : ITH 06

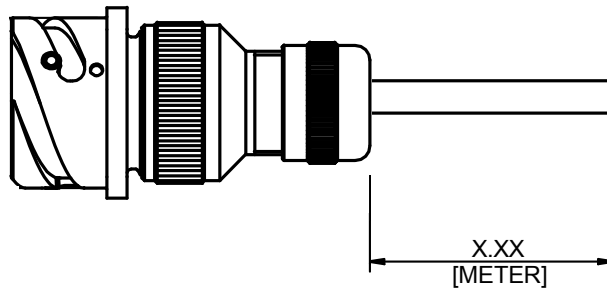
Front View



ITH0618QXX-Y-PHMF6

CONFIGURATIONS AVAILABLE : ITH 01

Female with Pigtail for Configuration : 00 - 01 - 030 - 070



EXAMPLE : **ITH0018QXX-Y-1.5PHMF6** → 1.5 mt Pigtail

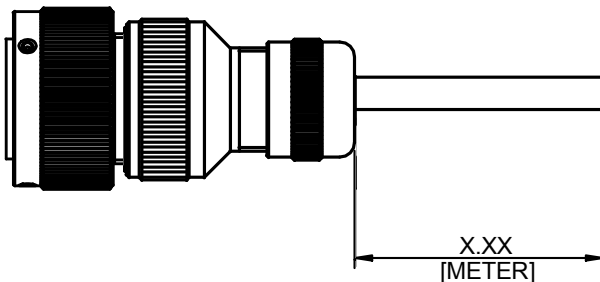
| |
|--|
| Female with Pigtail for Configuration : 00 |
| ITH0018QXX-Y-Z.zzCRGF6 |
| ITH0018QXX-Y-Z.zzPHMF6 |

| |
|---|
| Female with Pigtail for Configuration : 030 |
| ITH03018QXX-Y-Z.zzCRGF6 |
| ITH03018QXX-Y-Z.zzPHMF6 |

| |
|--|
| Female with Pigtail for Configuration : 01 |
| ITH0118QXX-Y-Z.zzCRGF6 |
| ITH0118QXX-Y-Z.zzCRGF6 |

| |
|---|
| Female with Pigtail for Configuration : 070 |
| ITH07018QXX-Y-Z.zzCRGF6 |
| ITH07018QXX-Y-Z.zzPHMF6 |

Male with Pigtail for Configuration : 06



| |
|--|
| Female with Pigtail for Configuration : 06 |
| ITH0618QXX-Y-Z.zzCRGF6 |
| ITH0618QXX -Y-Z.zzPHMF6 |

EXAMPLE : **ITH0618QXX-Y-1.5PHMF6** → 1.5 mt Pigtail

Connectors



MIL-DTL-26482 Type Reverse Bayonet Coupling (Series IPT) with Single RJ45 Connector

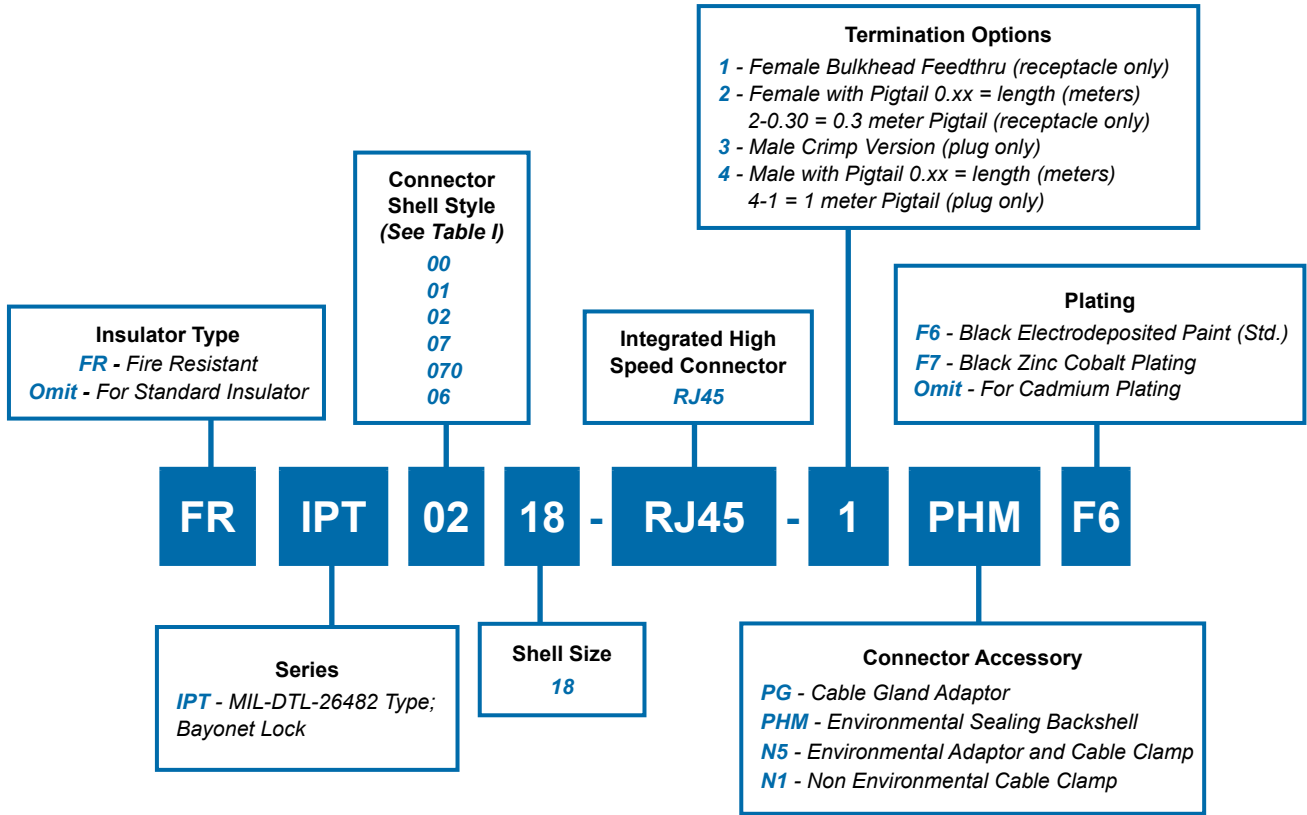


Figure 1
Receptacle (Front)



Figure 2
Receptacle (Rear)

MIL-DTL-26482 Type Reverse Bayonet Coupling (Series IPT) with Single RJ45 Connector



TABLE I

Connector Shell Detailed Description

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

07 - Rear Panel Mount
Jam Nut Receptacle; No
Accessory Threads

070 - Rear Panel Mount
Jam Nut Receptacle with
Accessory Threads

06 - Straight Cylindrical
Plug Connector with
Accessory Threads

Commercial-grade RJ45 connectors are intended for use in clean, dry environments. Exposure to dirt and moisture can lead to damage or failure. Glenair's sealed RJ45 connectors provide a high level of protection for the most hostile environments. Standard RJ45 jacks are housed in rugged, waterproof IPT Series bayonet connectors. Connectors feature resilient nitrile inserts and electrodeposited corrosion-resistant black paint or black zinc cobalt plating. Cadmium plating is also available. A typical IPT RJ45 application consists of a through bulkhead female receptacle (*Figure 1 and 2*) and a male plug crimp RJ45 (*Figure 3*).

TECHNICAL CHARACTERISTICS

| Category | Cat. 6 (Cat 5E available upon request) |
|---------------------------------|--|
| Connection | 10BaseT, 100BaseTx, 1000BaseT |
| Working Voltage | 30/42 Volts AC RMS/VDC |
| Max Current Rating | 1.5 Amps at 20° C |
| Max Contact Resistance | 20 mΩ |
| Min. Insulation Resistance | 1.000 mΩ at 500 Volts DC |
| Dielectric Withstanding Voltage | 1000 Volts |
| Working Temperature | -40° to +68° C |
| Environmental Rating | IP67 (mated) |



Figure 3
Plug (Front)



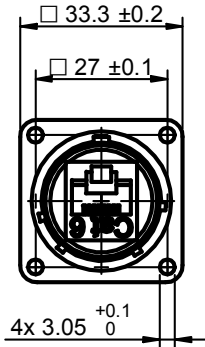
Figure 4
RJ45 Interconnection Sequence



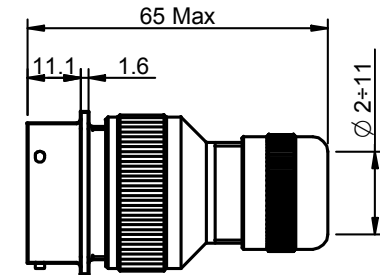
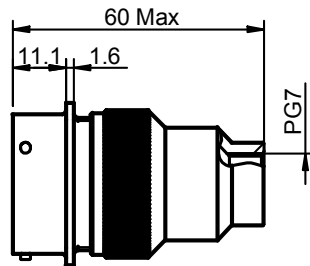
MIL-DTL-26482 Type Reverse Bayonet Coupling (Series IPT) with Single RJ45 Connector

CONFIGURATIONS AVAILABLE : IPT 00

Front View

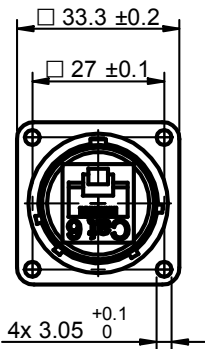


FRIPT0018-RJ45-1PGF6

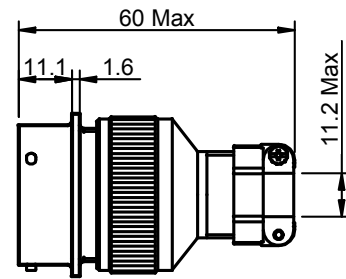
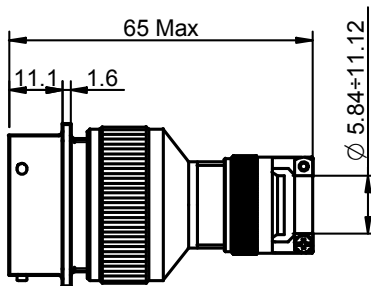


FRIPT0018-RJ45-1PHMF6

Front View



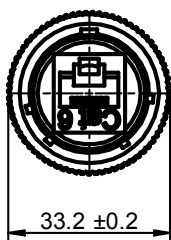
FRIPT0018-RJ45-1N5F6



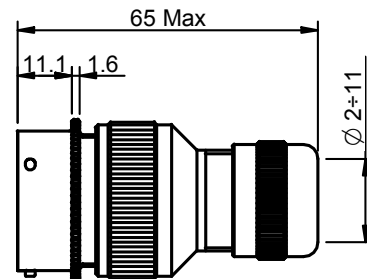
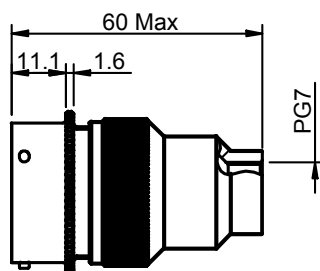
FRIPT0018-RJ45-1N1F6

CONFIGURATIONS AVAILABLE : IPT 01

Front View



FRIPT0118-RJ45-1PGF6



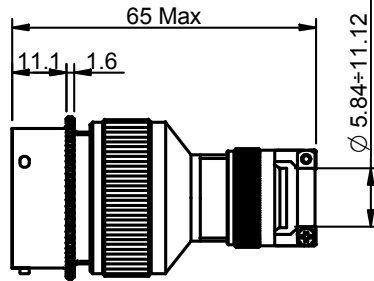
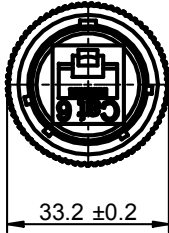
FRIPT0118-RJ45-1PHMF6

MIL-DTL-26482 Type Reverse Bayonet Coupling
(Series IPT)
with Single RJ45 Connector

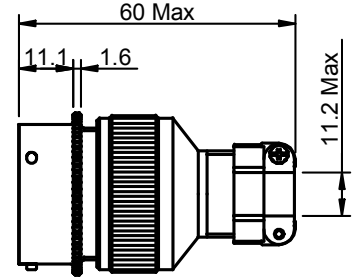


CONFIGURATIONS AVAILABLE : IPT 01

Front View



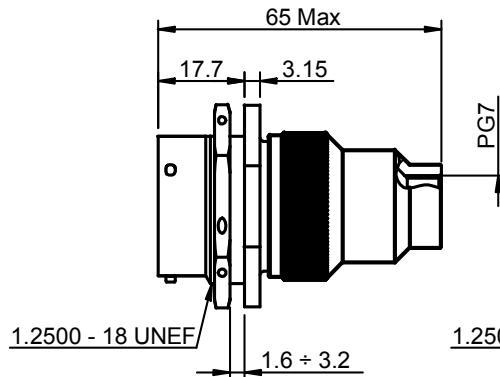
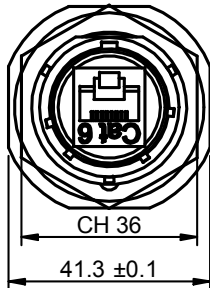
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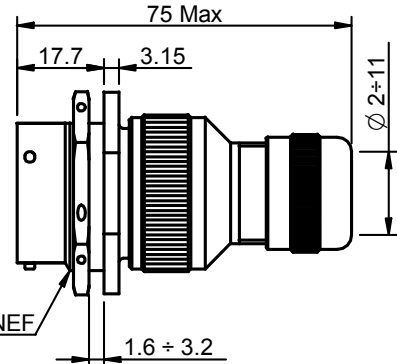
FRIPT0118-RJ45-1N1F6

CONFIGURATIONS AVAILABLE : IPT 070

Front View

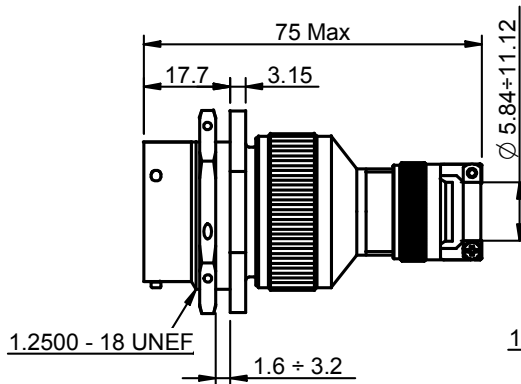
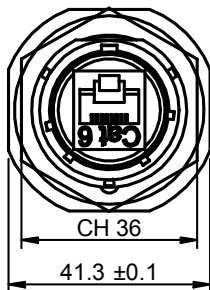


FRIPT07018-RJ45-1PGF6

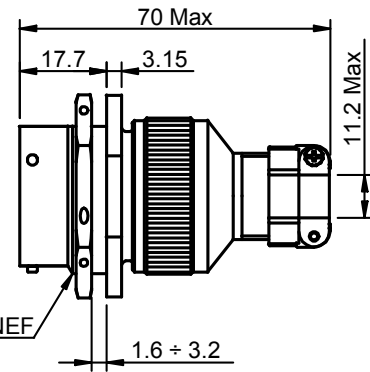


FRIPT07018-RJ45-1PHMF6

Front View



FRIPT07018-RJ45-1N5F6



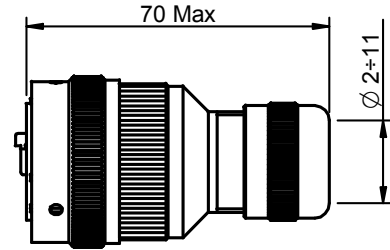
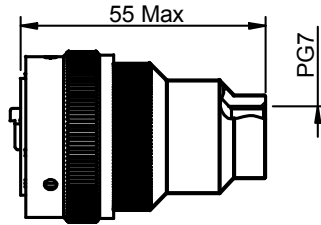
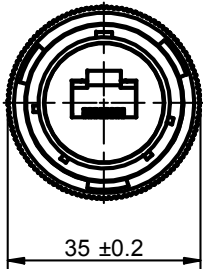
FRIPT07018-RJ45-1N1F6



MIL-DTL-26482 Type Reverse Bayonet Coupling (Series IPT) with Single RJ45 Connector

CONFIGURATIONS AVAILABLE : IPT 06

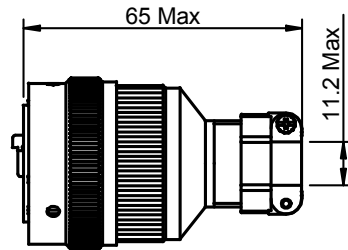
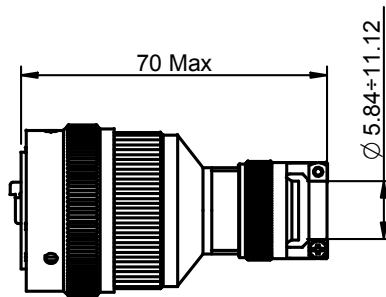
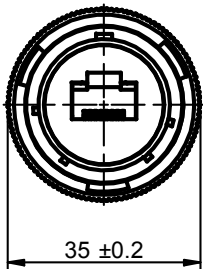
Front View



FRIPT0618-RJ45-3PGF6

FRIPT0618-RJ45-3PHMF6

Front View



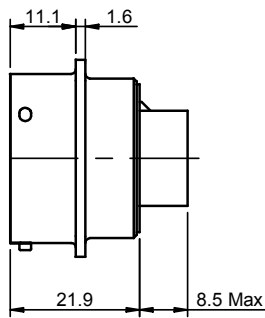
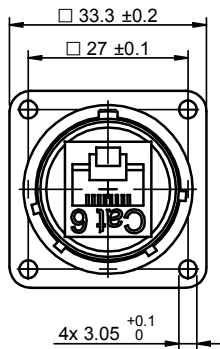
FRIPT0618-RJ45-3N5F6

FRIPT0618-RJ45-3N1F6

CONFIGURATIONS AVAILABLE : IPT 02 and IPT 07

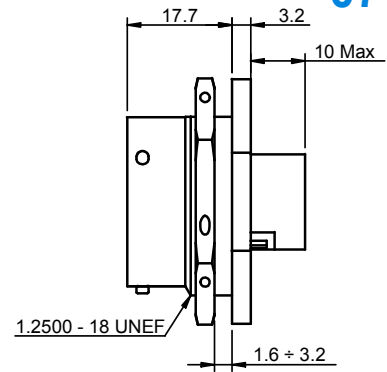
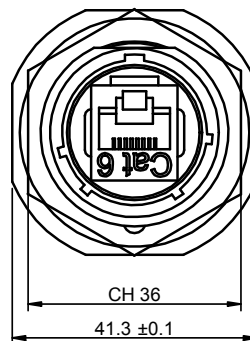
02

Front View



FRIPT0218-RJ45-1F6

Front View



07

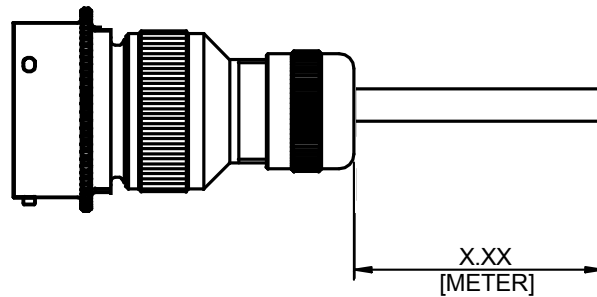
FRIPT0718-RJ45-1F6

MIL-DTL-26482 Type Reverse Bayonet Coupling (Series IPT) with Single RJ45 Connector



PIGTAIL GENERAL SKETCHES AND CONFIGURATIONS AVAILABLE

Female with Pigtail for Configuration : 00 - 01 - 030 - 070



EXAMPLE : **FRIPT0018-RJ45-21.5PHMF6** → 1.5 mt Pigtail

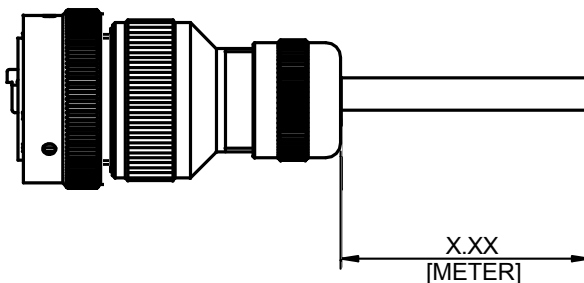
| Female with Pigtail for Configuration : 00 |
|--|
| FRIPT0018-RJ45-2X.xxN1F6 |
| FRIPT0018-RJ45-2X.xxN5F6 |
| FRIPT0018-RJ45-2X.xxPHMF6 |
| FRIPT0018-RJ45-2X.xxPGF6 |

| Female with Pigtail for Configuration : 030 |
|---|
| FRIPT03018-RJ45-2X.xxN1F6 |
| FRIPT03018-RJ45-2X.xxN5F6 |
| FRIPT03018-RJ45-2X.xxPHMF6 |
| FRIPT03018-RJ45-2X.xxPGF6 |

| Female with Pigtail for Configuration : 01 |
|--|
| FRIPT0118-RJ45-2X.xxN1F6 |
| FRIPT0118-RJ45-2X.xxN5F6 |
| FRIPT0118-RJ45-2X.xxPHMF6 |
| FRIPT0118-RJ45-2X.xxPGF6 |

| Female with Pigtail for Configuration : 070 |
|---|
| FRIPT07018-RJ45-2X.xxN1F6 |
| FRIPT07018-RJ45-2X.xxN5F6 |
| FRIPT07018-RJ45-2X.xxPHMF6 |
| FRIPT07018-RJ45-2X.xxPGF6 |

Male with Pigtail for Configuration : 06

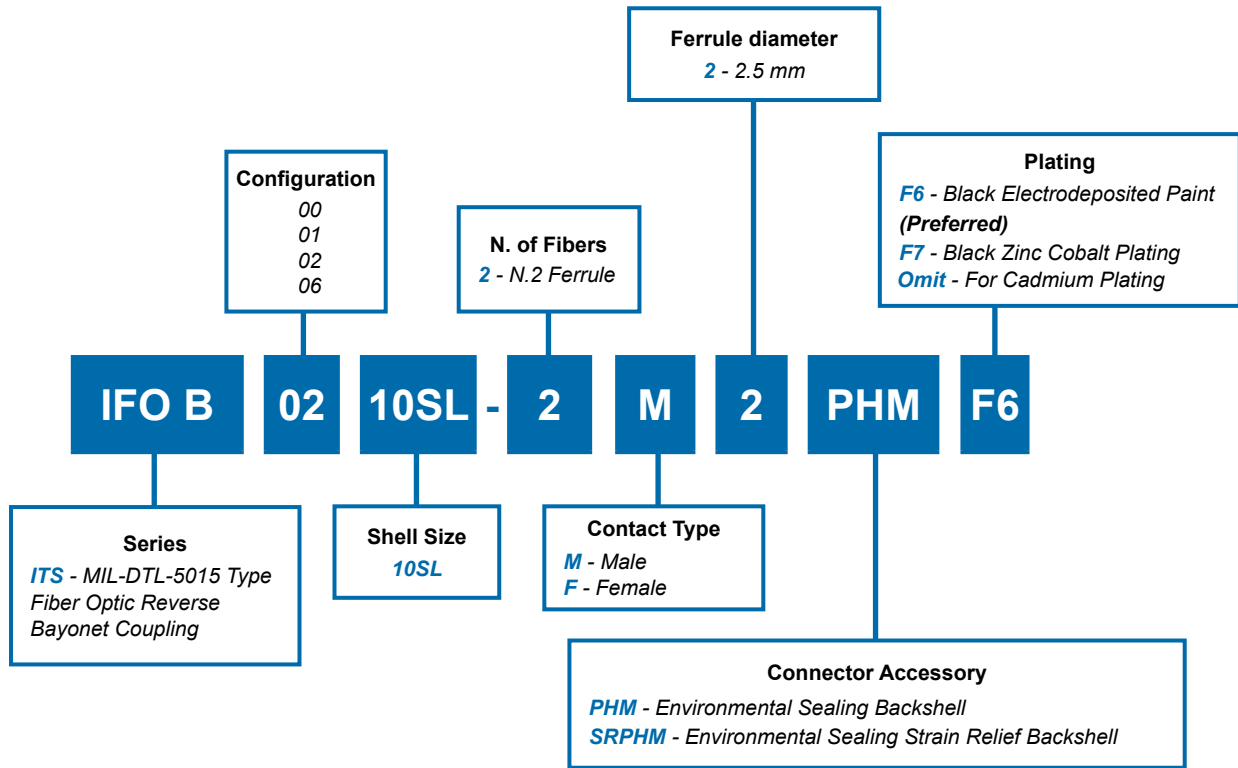


| Female with Pigtail for Configuration : 06 |
|--|
| FRIPT0618-RJ45-4X.xxN1F6 |
| FRIPT0618-RJ45-4X.xxN5F6 |
| FRIPT0618-RJ45-4X.xxPHMF6 |
| FRIPT0618-RJ45-4X.xxPGF6 |

EXAMPLE : **FRIPT0618-RJ45-41.5PHMF6** → 1.5 mt Pigtail



MIL-DTL-5015 and VG95234 Type
(Series IFO)
2 Pole Fiber Optic Connector



MIL-DTL-5015 and VG95234 Type (Series IFO) 2 Pole Fiber Optic Connector



- MIL-DTL-5015 and VG95234 Size 10SL.
- PHM Backshells for jacketed cables.
- SR PHM Strain Relief Backshells for jacketed cables.
- Metal cover for fiber protection.
- Long Backshell for fiber bending prevention.

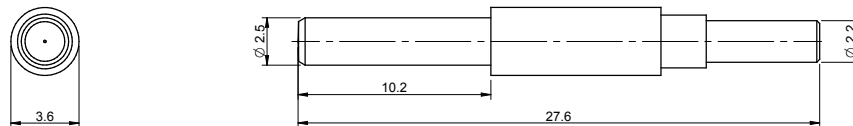
| CONNECTOR TECHNICAL CHARACTERISTICS | |
|-------------------------------------|---|
| Connection | Fiber Optic |
| Fiber Type | 9/125 - 50/125 - 62/125 |
| Insertion Loss [DB] | ≤ 1.4 dB |
| Working Temperature | -25° to +85° C |
| Flammability | UL94-V0 |
| Insert | Thermoplastic Resin |
| Metallic Parts | Aluminium Alloy; Black Electrodeposited Paint * |
| Mating Cycles | 500 Cycles |
| Environmental Rating | IP67 (mated) |
| Gaskets and Bushings | Polychloroprene and Silicone Rubber |

* RoHS compliant

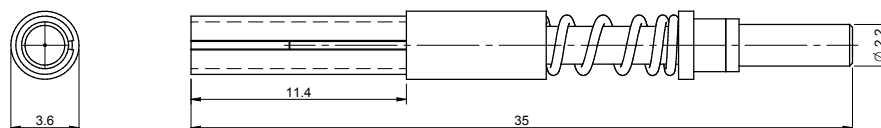
Optical Contacts

| OPTICAL CONTACT TECHNICAL CHARACTERISTICS | |
|---|-------------------------|
| Optical Contacts | Zirconia Ferrules |
| | Stainless Steel Springs |
| | Zirconia split sleeves |
| Ferrule Diameter | 2.5 mm |

Male Contact

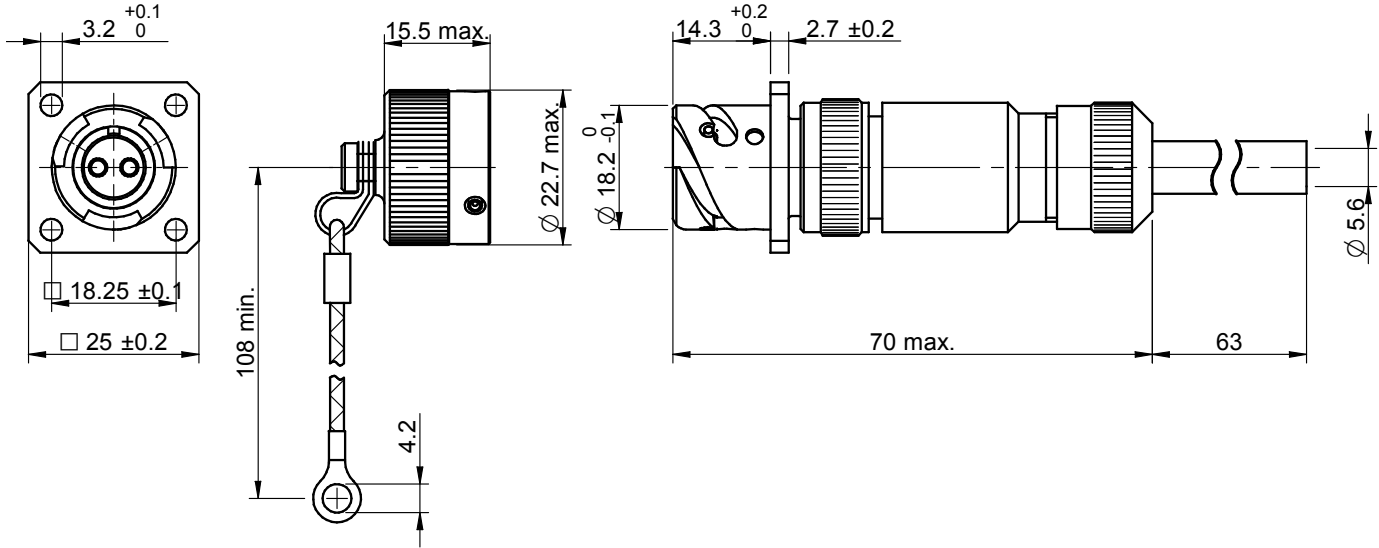


Female Contact



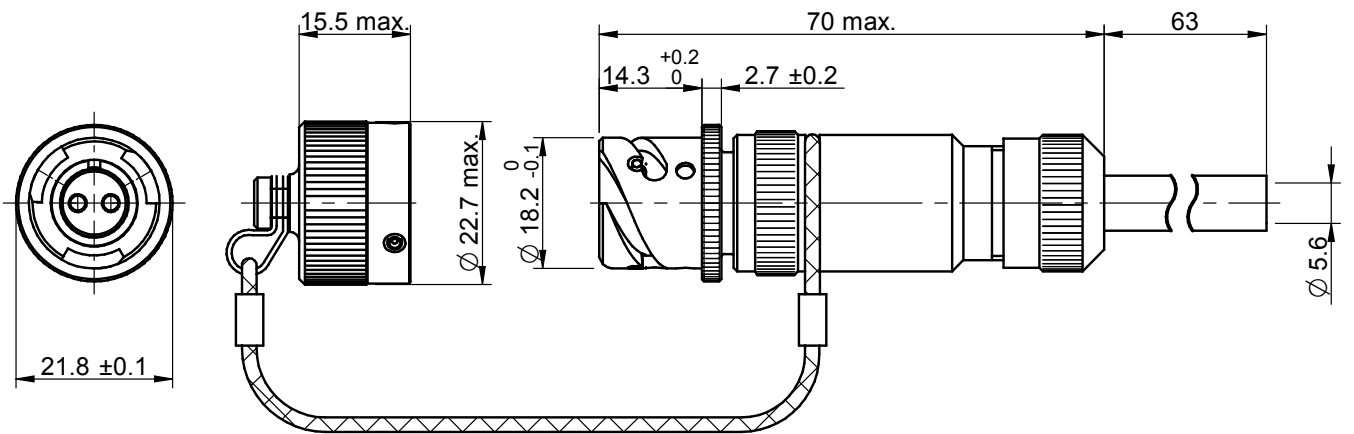
MIL-DTL-5015 and VG95234 Type
(Series IFO)
2 Pole Fiber Optic Connector

Front View



IFOB0010SL-2...2PHMF6

Front View

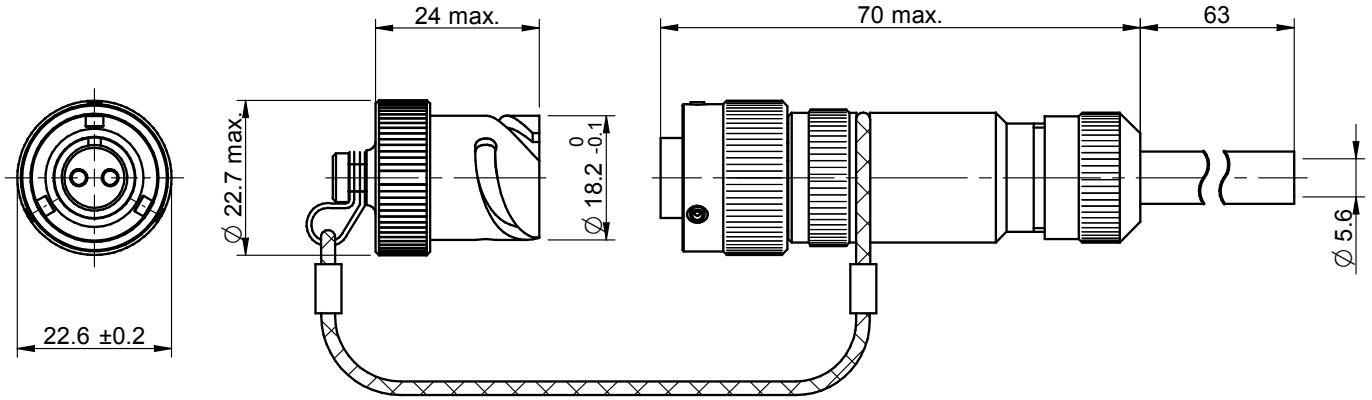


IFOB0110SL-2...2PHMF6

MIL-DTL-5015 and VG95234 Type
(Series IFO)
2 Pole Fiber Optic Connector

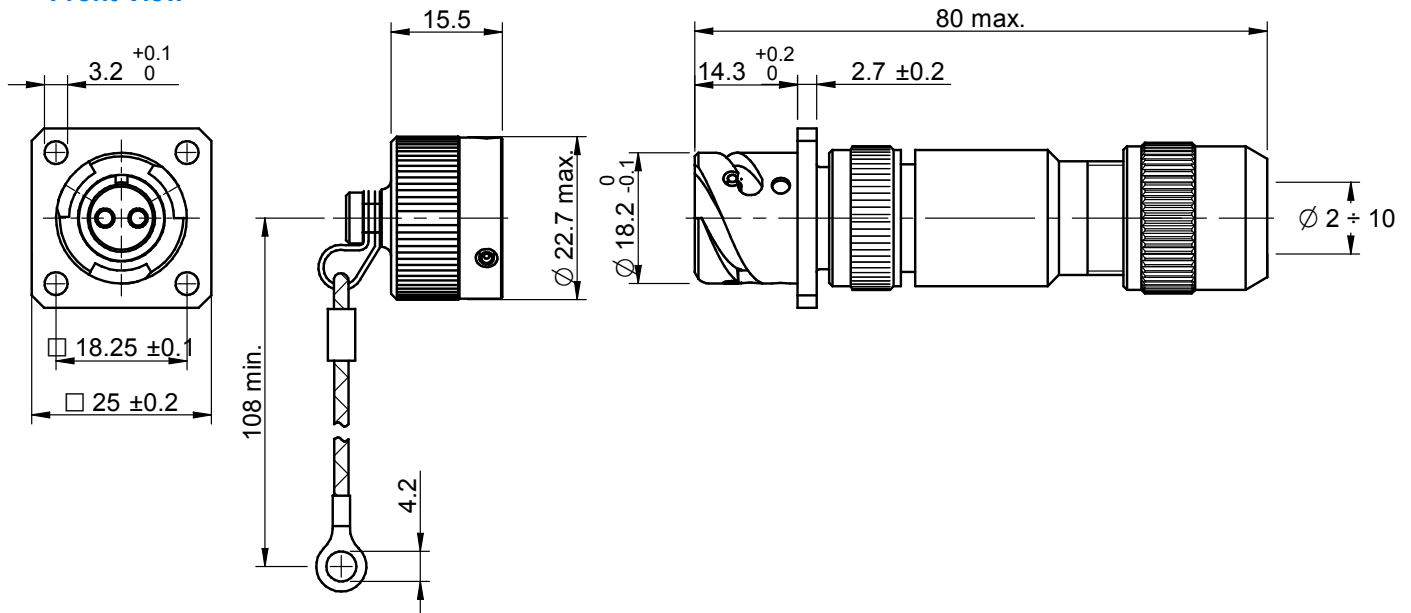


Front View



IFOB0610SL-2...2PHMF6

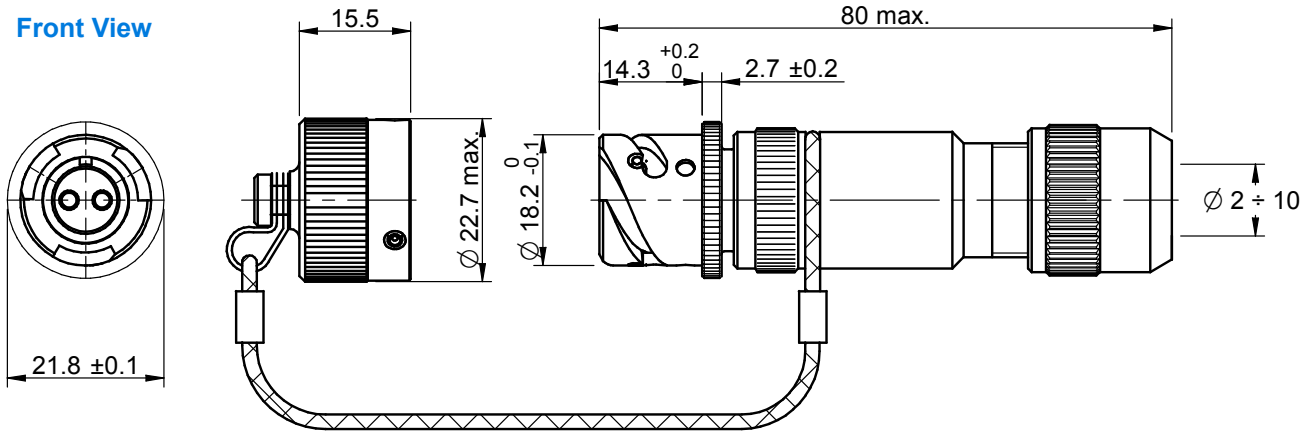
Front View



IFOB0010SL-2...2SRPHMF6

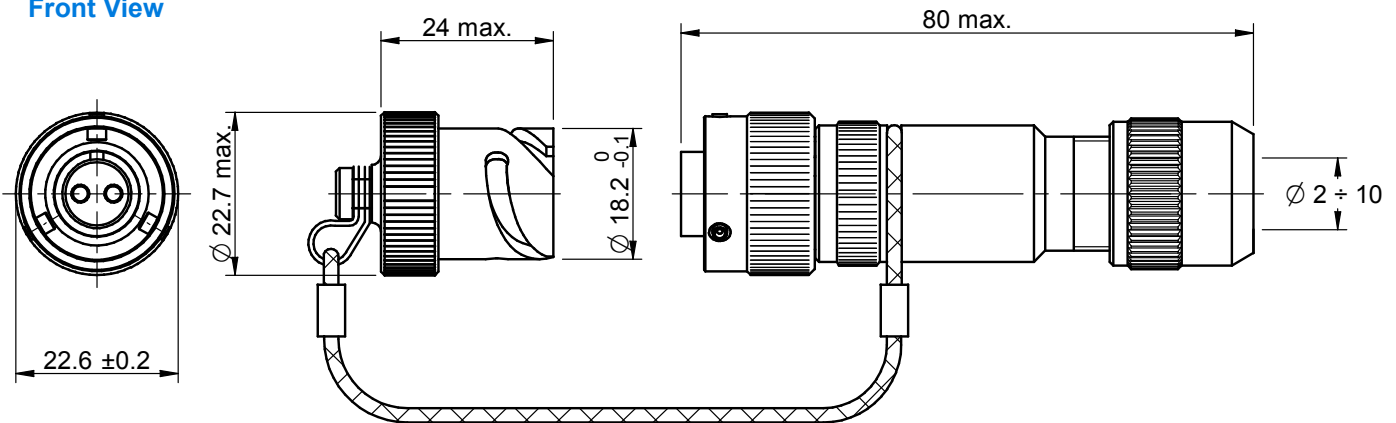
MIL-DTL-5015 and VG95234 Type
(Series IFO)
2 Pole Fiber Optic Connector

Front View



IFOB0110SL-2...2SRPHMF6

Front View

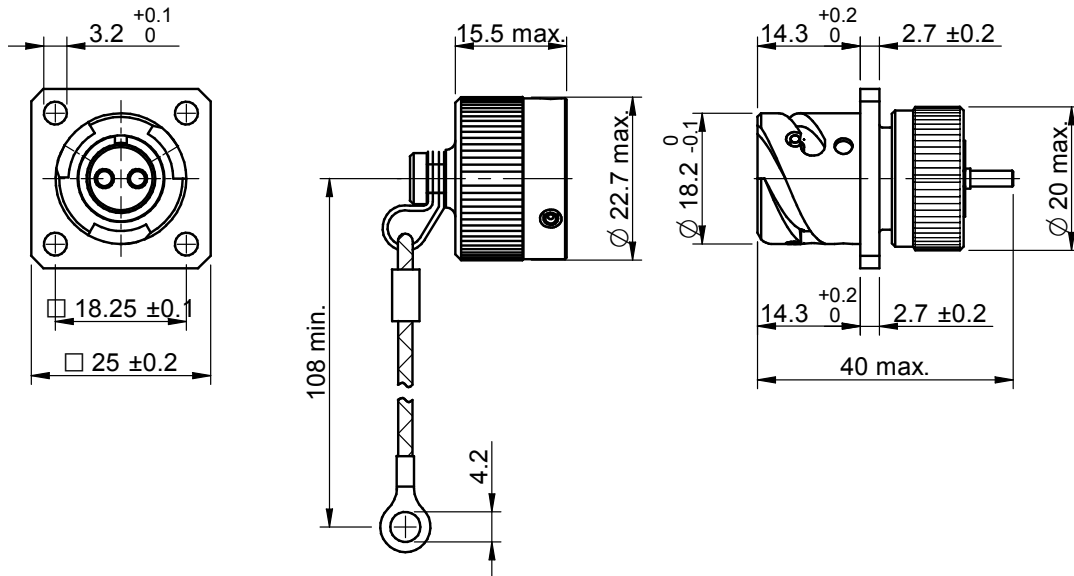


IFOB0610SL-2...2SRPHMF6

MIL-DTL-5015 and VG95234 Type
(Series IFO)
2 Pole Fiber Optic Connector



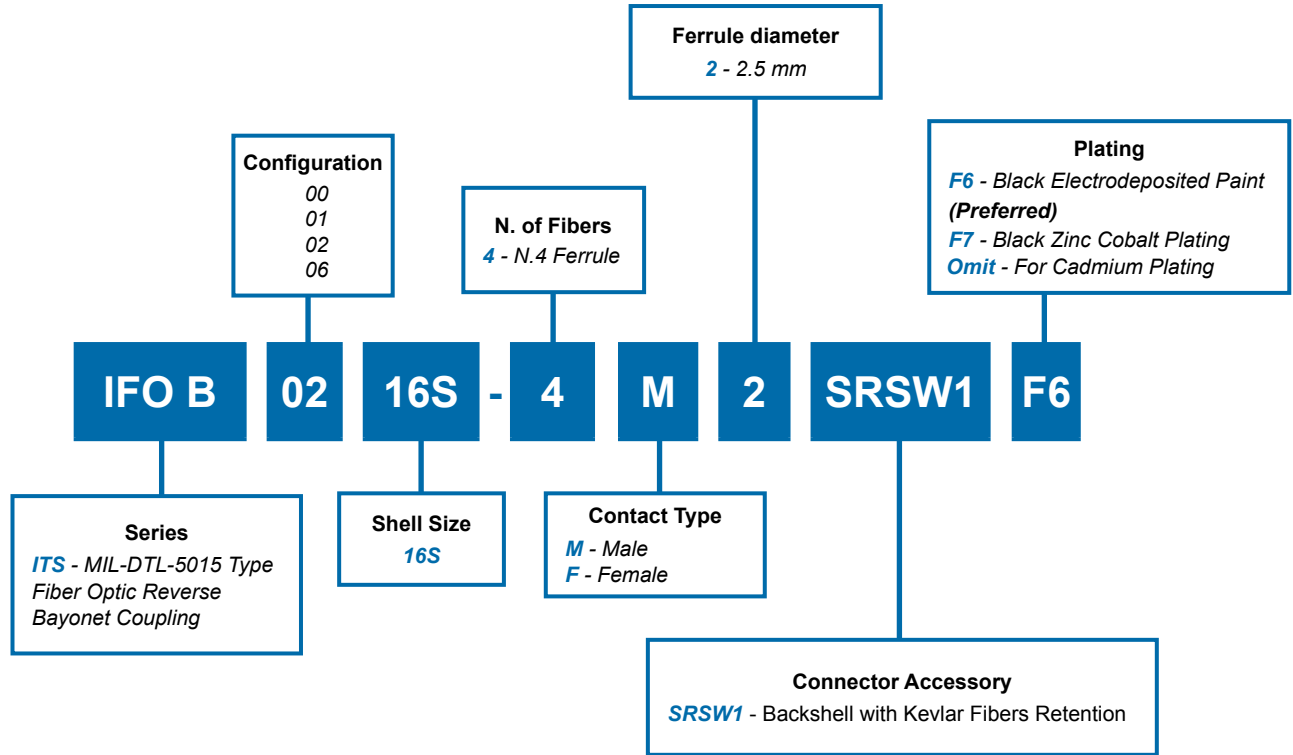
Front View



IFOB0210SL-2...2F6



MIL-DTL-5015 and VG95234 Type
(Series IFO)
4 Pole Fiber Optic Connector



MIL-DTL-5015 and VG95234 Type (Series IFO) 4 Pole Fiber Optic Connector



- MIL-DTL-5015 and VG95234 Size 16S.
- SRSW1 Strain Relief Backshells for jacketed cables.
- Metal cover for fiber protection.
- Long Backshell for fiber bending prevention.

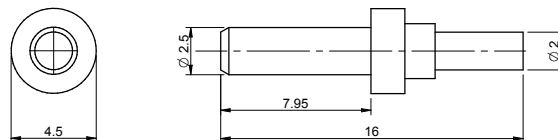
| CONNECTOR TECHNICAL CHARACTERISTICS | |
|-------------------------------------|---|
| Connection | Fiber Optics |
| Fiber Type | 9/125 - 50/125 - 62/125 |
| Insertion Loss [DB] | ≤ 1.4 dB |
| Working Temperature | -25° to +85° C |
| Flammability | UL94-V0 |
| Insert | Termoplastic Resin |
| Metallic Parts | Aluminium Alloy; Black Electrodeposited Paint * |
| Mating Cycles | 500 Cycles |
| Environmental Rating | IP67 (mated) |
| Gaskets and Bushings | Polychloroprene and Silicone Rubber |

* RoHS compliant

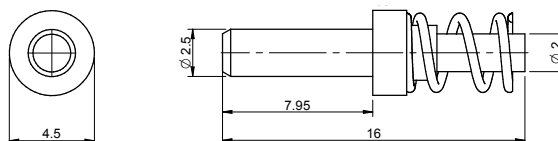
Optical Contacts

| OPTICAL CONTACT TECHNICAL CHARACTERISTICS | |
|---|-------------------------|
| Optical Contacts | Zirconia Ferrules |
| | Stainless Steel Springs |
| | Zirconia split sleeves |
| Ferrule Diameter | 2.5 mm |

Male Contact



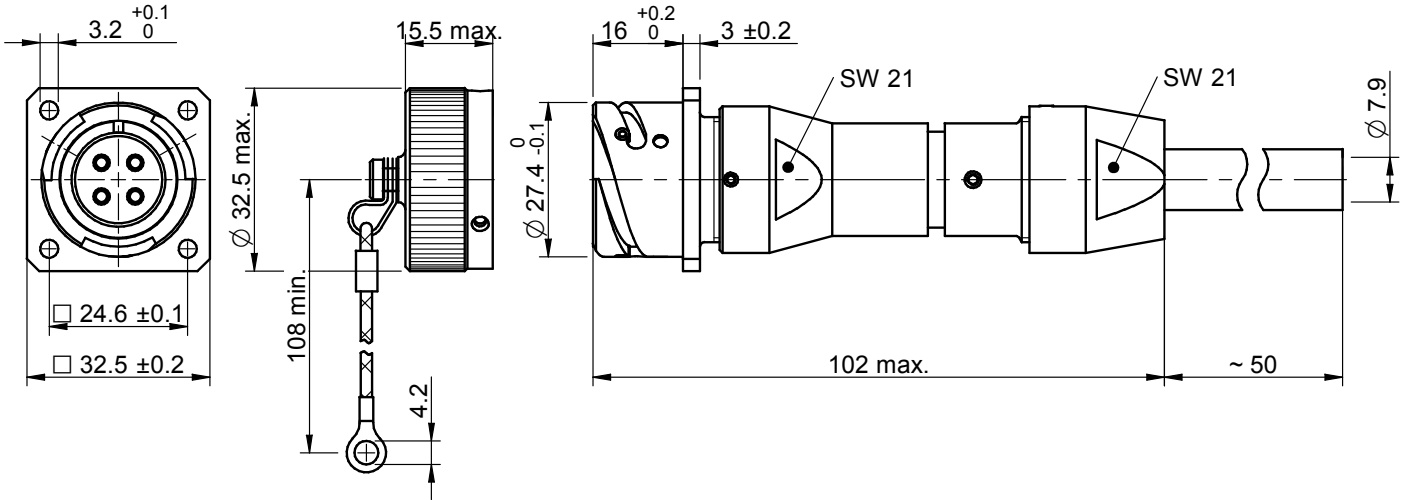
Female Contact





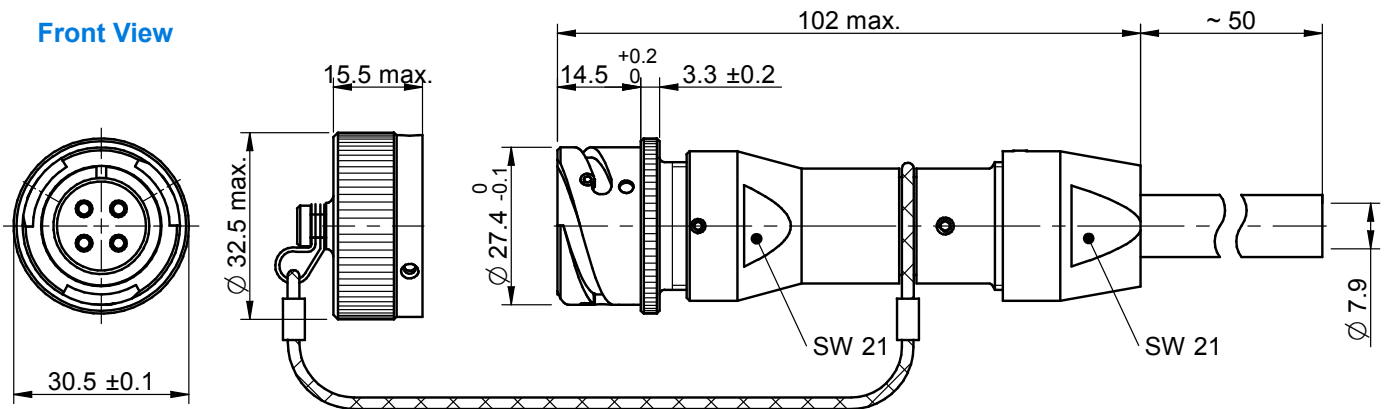
MIL-DTL-5015 and VG95234 Type
(Series IFO)
4 Pole Fiber Optic Connector

Front View



IFOB0016S-4...2RSW1F6

Front View

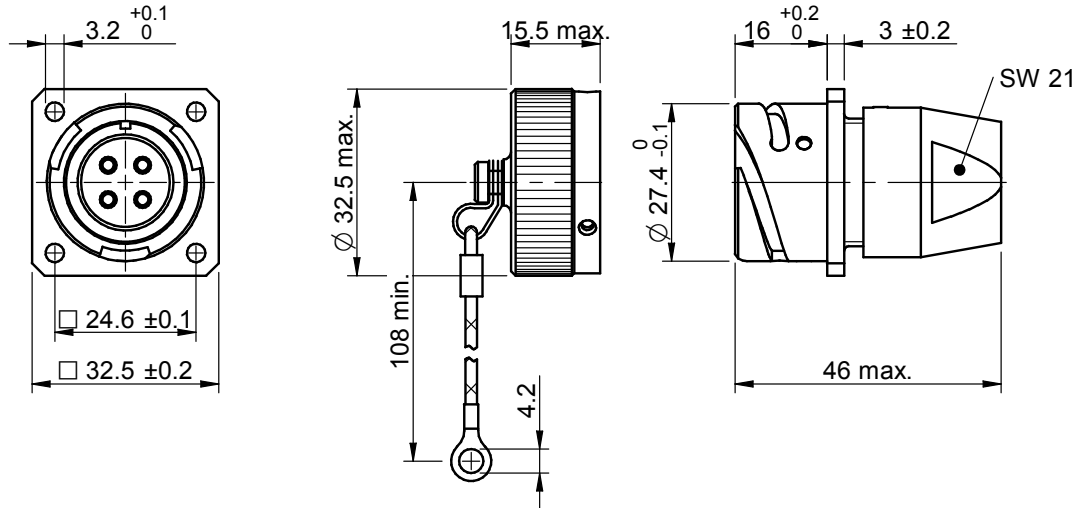


IFOB0116S-4...2RSW1F6

MIL-DTL-5015 and VG95234 Type
(Series IFO)
4 Pole Fiber Optic Connector

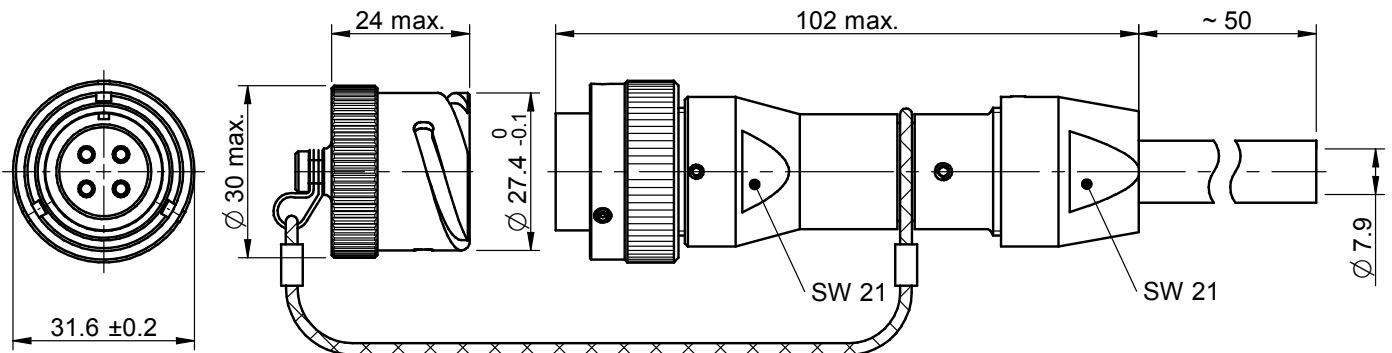


Front View



IFOB0216S-4...2SRSW1F6

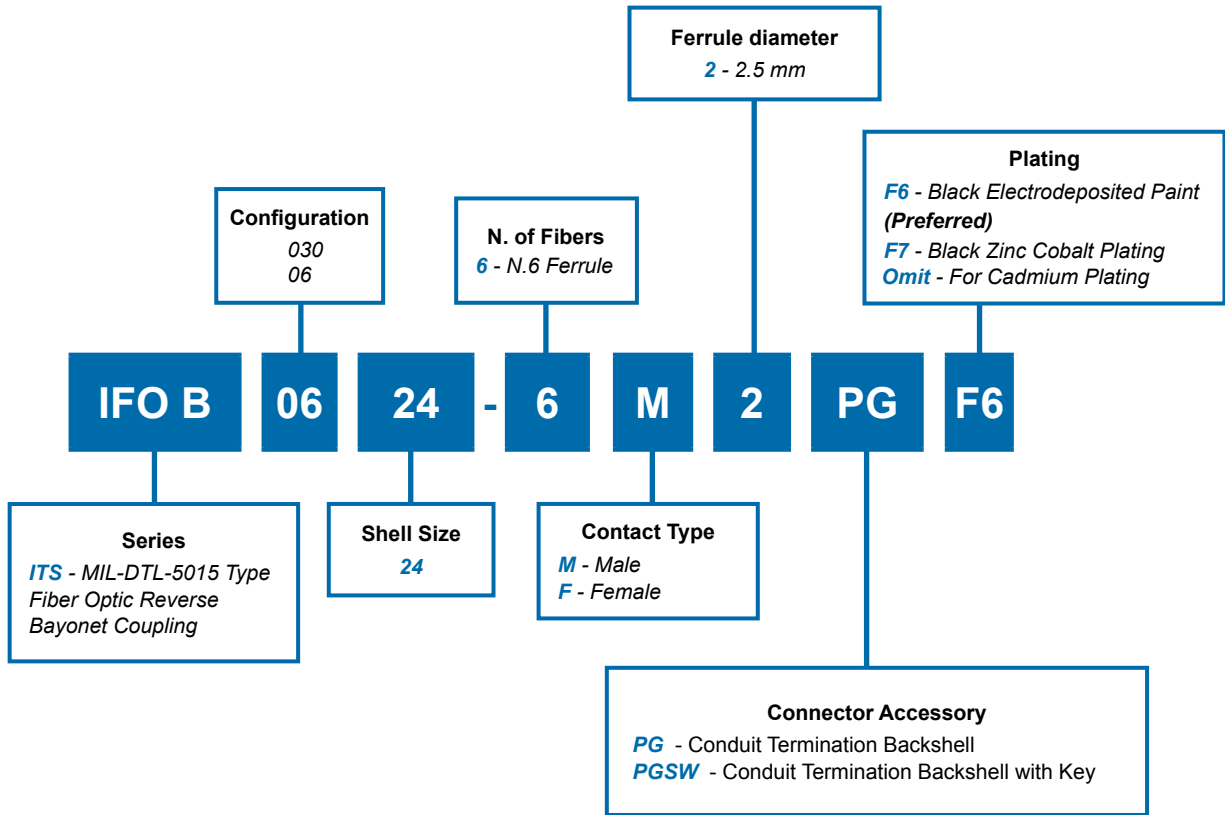
Front View



IFOB0616S-4...2SRSW1F6



MIL-DTL-5015 and VG95234 Type
(Series IFO)
6 Pole Fiber Optic Connector



MIL-DTL-5015 and VG95234 Type (Series IFO) 6 Pole Fiber Optic Connector



- MIL-DTL-5015 and VG95234 Size 24.
- PG Backshells for conduit termination.
- PGSW Strain Relief Backshells for jacketed cables.
- Metal cover for fiber protection.
- Long Backshell for fiber bending prevention.

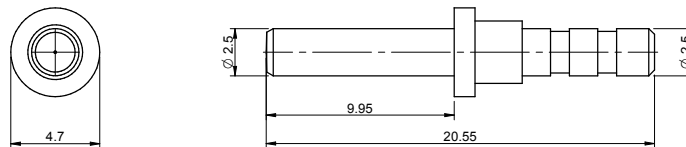
| CONNECTOR TECHNICAL CHARACTERISTICS | |
|-------------------------------------|---|
| Connection | Fiber Optic |
| Fiber Type | 9/125 - 50/125 - 62/125 |
| Insertion Loss [DB] | ≤ 1.4 dB |
| Working Temperature | -25° to +85° C |
| Flammability | UL94-V0 |
| Insert | Termoplastic Resin |
| Metallic Parts | Aluminium Alloy; Black Electrodeposited Paint * |
| Mating Cycles | 500 Cycles |
| Environmental Rating | IP67 (mated) |
| Gaskets and Bushings | Polychloroprene and Silicone Rubber |

* RoHS compliant

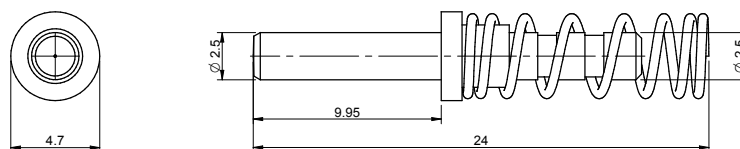
Optical Contacts

| OPTICAL CONTACT TECHNICAL CHARACTERISTICS | |
|---|-------------------------|
| Optical Contacts | Zirconia Ferrules |
| | Stainless Steel Springs |
| | Zirconia split sleeves |
| Ferrule Diameter | 2.5 mm |

Male Contact



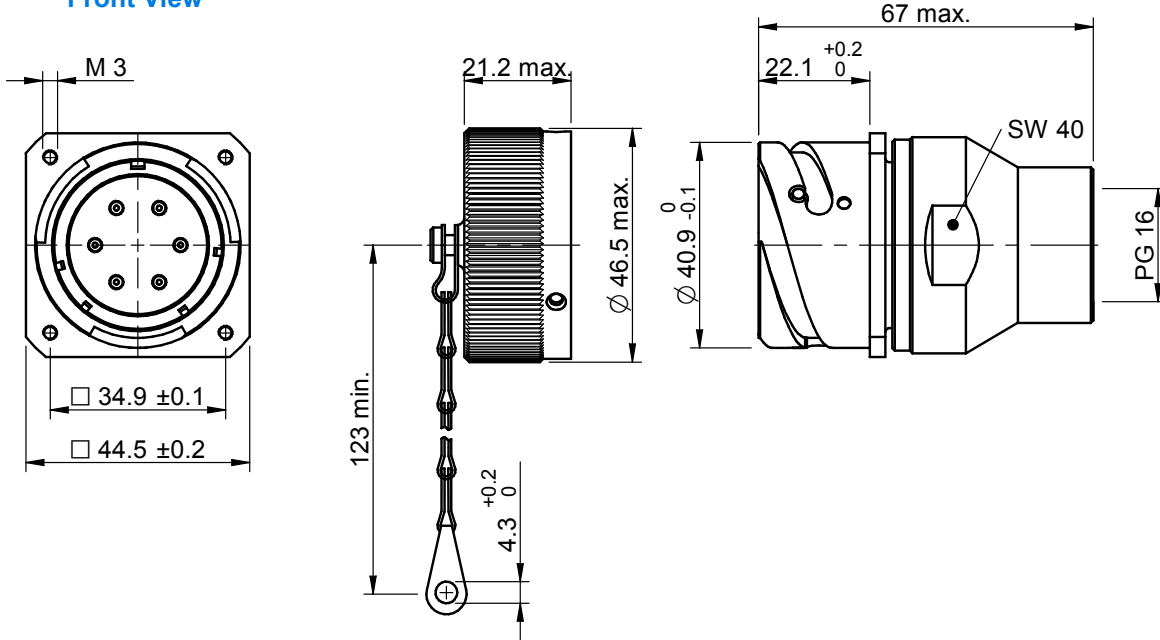
Female Contact





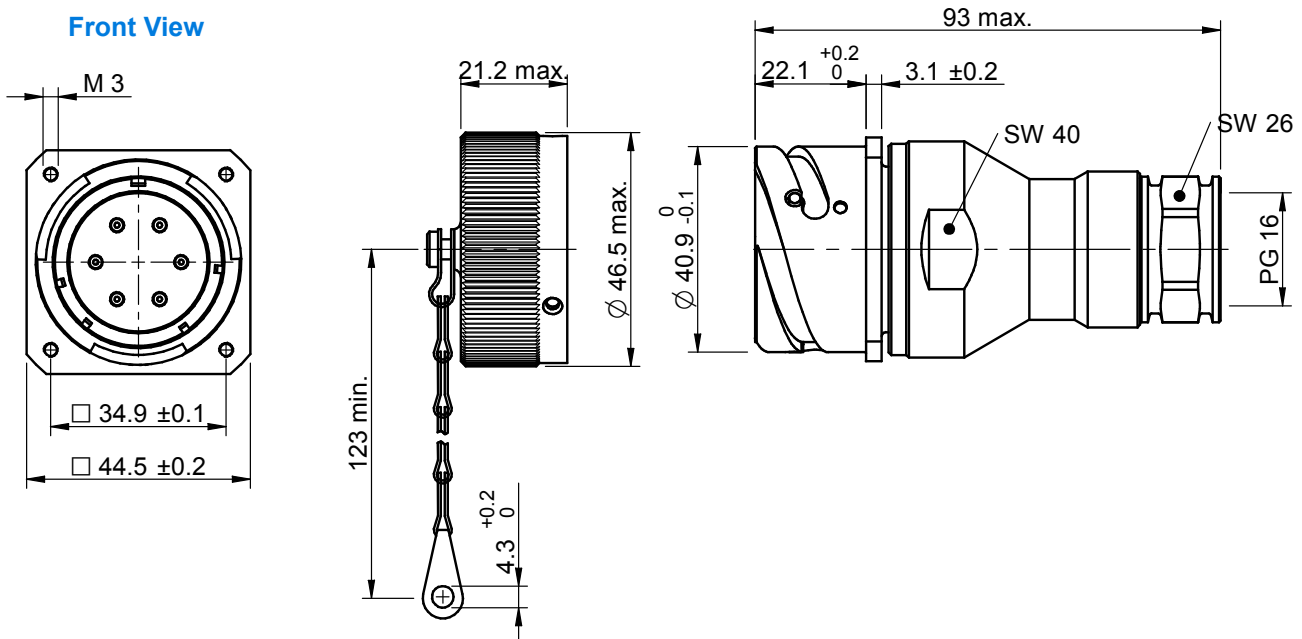
MIL-DTL-5015 and VG95234 Type
(Series IFO)
6 Pole Fiber Optic Connector

Front View



IFOB03024-6...2PGF6

Front View

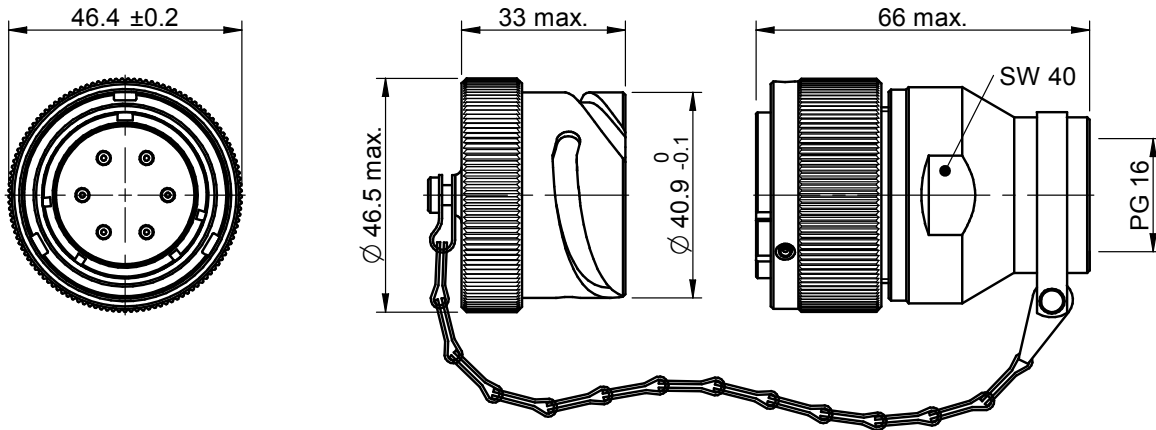


IFOB03024-6...2PGSWF6

MIL-DTL-5015 and VG95234 Type
(Series IFO)
6 Pole Fiber Optic Connector

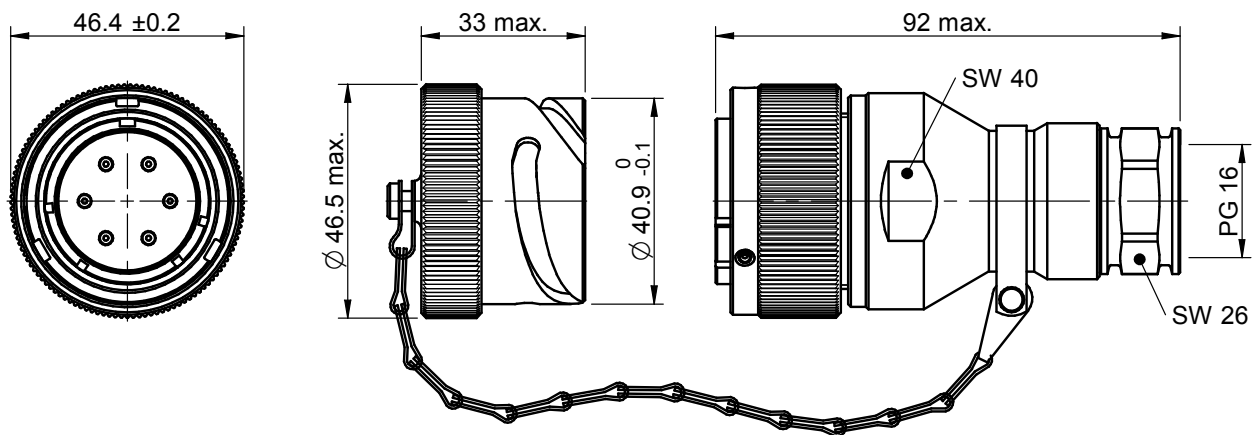


Front View



IFOB0624-6...2PGF6

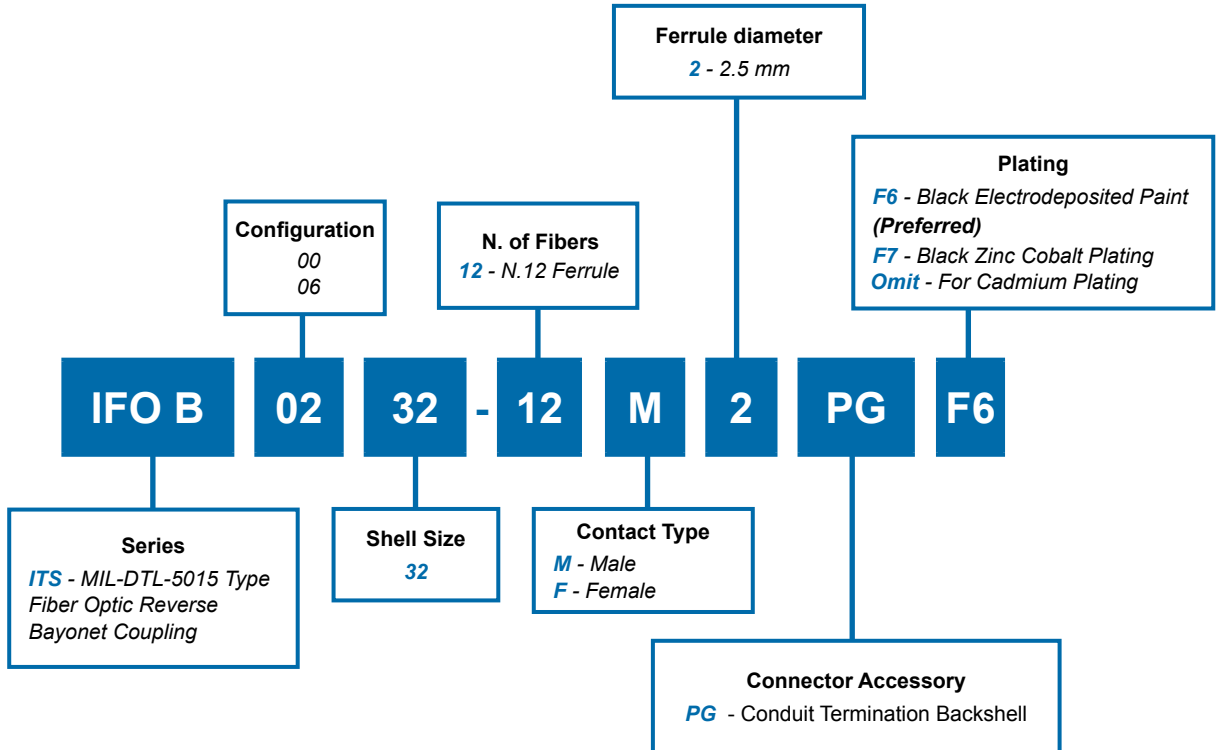
Front View



IFOB0624-6...2PGSWF6



MIL-DTL-5015 and VG95234 Type
(Series IFO)
12 Pole Fiber Optic Connector



MIL-DTL-5015 and VG95234 Type (Series IFO) 12 Pole Fiber Optic Connector



- MIL-DTL-5015 and VG95234 Size 32.
- PG Backshells for conduit termination.
- Metal cover for fibers protection.
- Long Backshell for fiber bending prevention.

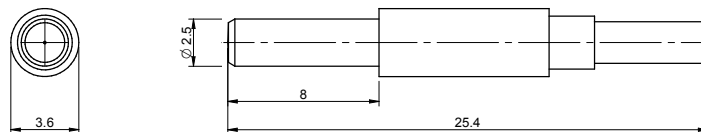
| CONNECTOR TECHNICAL CHARACTERISTICS | |
|-------------------------------------|---|
| Connection | Fiber Optic |
| Fiber Type | 9/125 - 50/125 - 62/125 |
| Insertion Loss [DB] | ≤ 1.4 dB |
| Working Temperature | -25° to +85° C |
| Flammability | UL94-V0 |
| Insert | Termoplastic Resin |
| Metallic Parts | Aluminium Alloy; Black Electrodeposited Paint * |
| Mating Cycles | 500 Cycles |
| Environmental Rating | IP67 (mated) |
| Gaskets and Bushings | Polychloroprene and Silicone Rubber |

* RoHS compliant

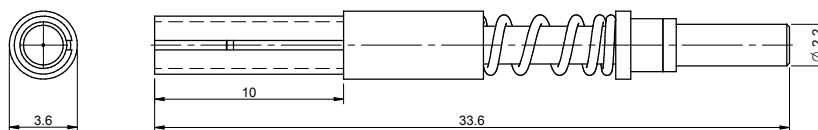
Optical Contacts

| OPTICAL CONTACT TECHNICAL CHARACTERISTICS | |
|---|-------------------------|
| Optical Contacts | Zirconia Ferrules |
| | Stainless Steel Springs |
| | Zirconia split sleeves |
| Ferrule Diameter | 2.5 mm |

Male Contact

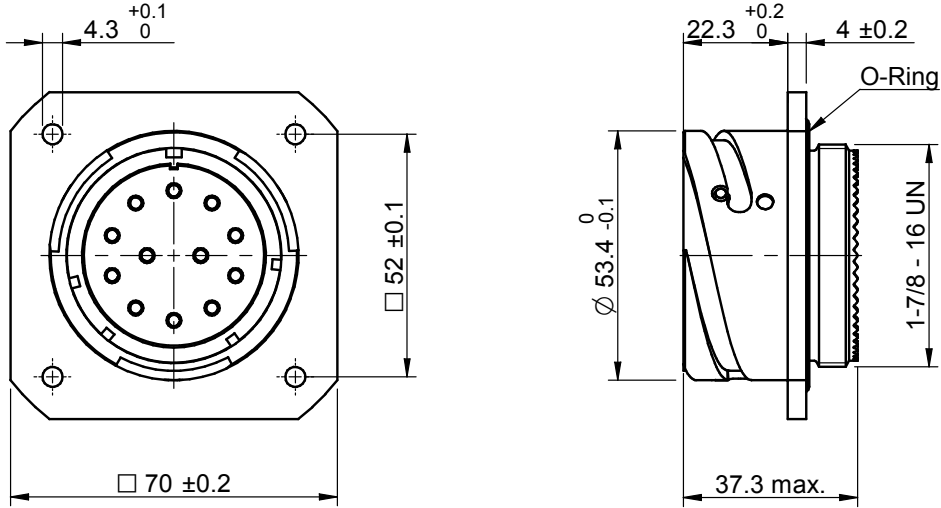


Female Contact



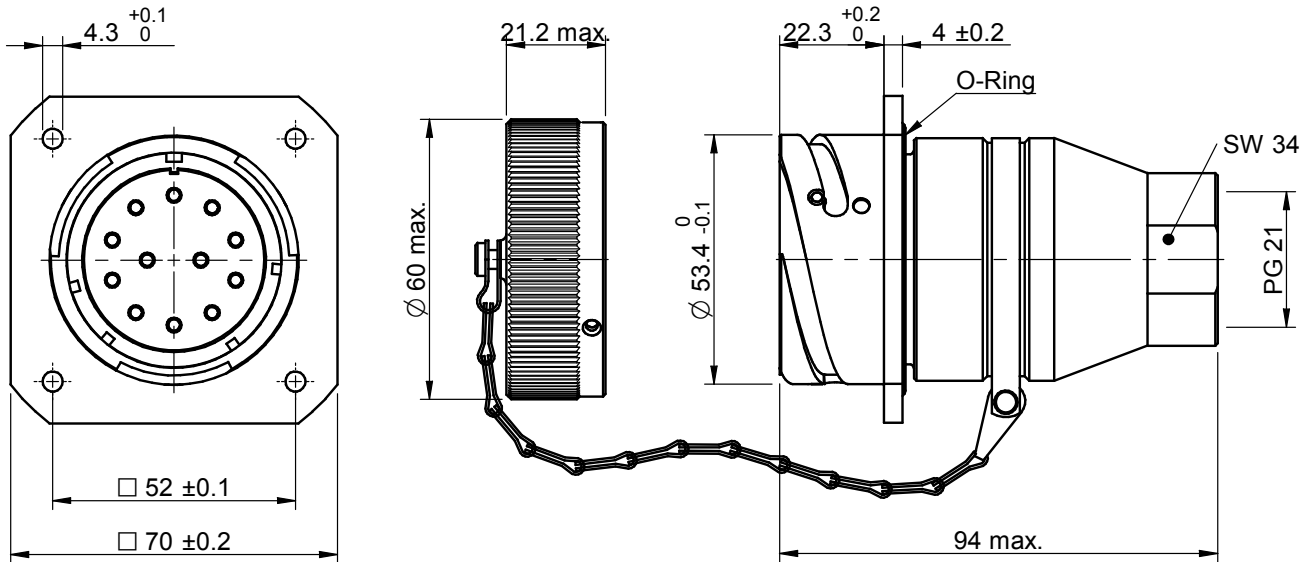
MIL-DTL-5015 and VG95234 Type
(Series IFO)
12 Pole Fiber Optic Connector

Front View



IFOB0032-12...2F6

Front View



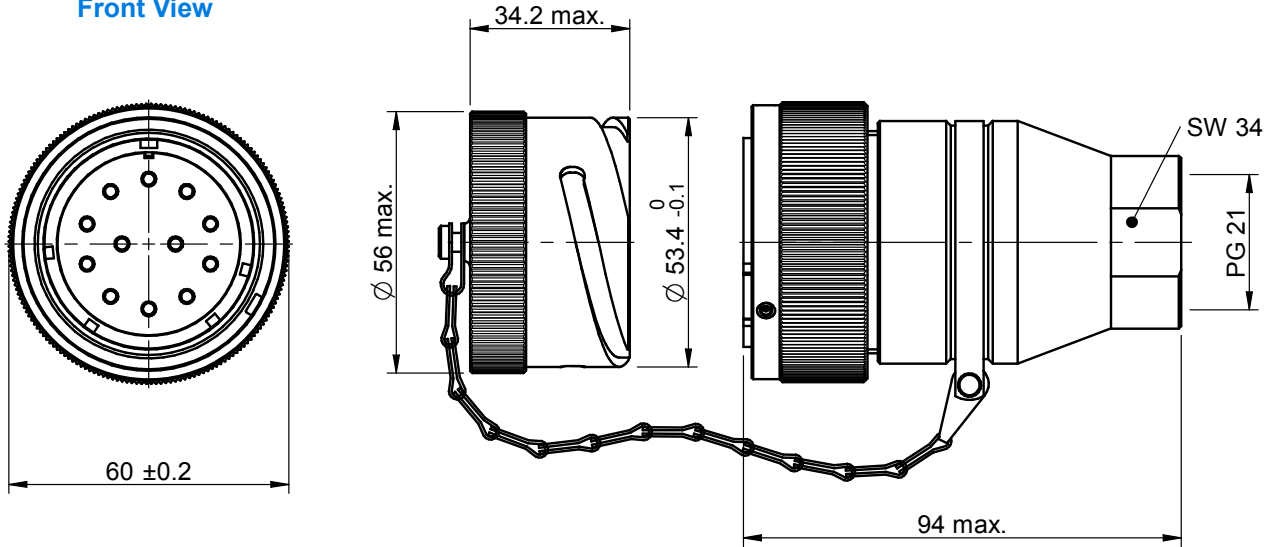
IFOB0032-12...2PGF6

MIL-DTL-5015 and VG95234 Type
(Series IFO)
12 Pole Fiber Optic Connector



High-Speed
Connectors

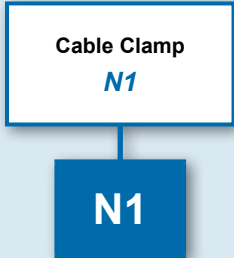
Front View



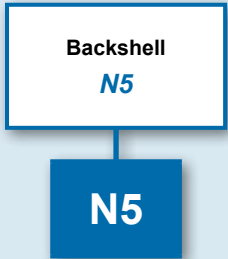
IFOB0632-12...2PGF6

Connectors

Available Backshell Options

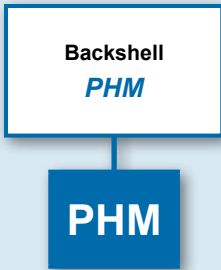


The Glenair N1 cable clamp provides a simple and effective strain relief option for all high speed data transmission connectors. Low profile saddle clamps purchase the cable just aft of the accessory threads for an unobtrusive and compact strain-relief solution. May be used in conjunction with a wide range of standard backshell accessories.

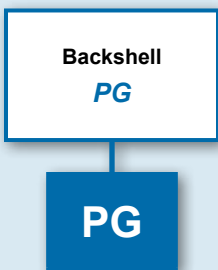


The Glenair N5 backshell offers users the benefits of an environmental sealing backshell combined with a style "C" cable clamp.





The Glenair PHM backshell utilizes a non-environmental compression bushing that provides ample strain relief for general duty applications.



The Glenair PG cable gland backshell provides basic environmental protection and strain relief for use with straight plugs.





Available Backshell Assemblies

Assembly Option Table

| Connector | Shell Style |  PG |  PHM |  N5 |  N1 |
|-----------------------------|-------------|--|---|---|--|
| ITS With Single RJ45 | 00 | FRITS0020-RJ45-1PGF6 | FRITS0020-RJ45-1PHMF6 | FRITS0020-RJ45-1N5F6 | FRITS0020-RJ45-1N1F6 |
| | 01 | FRITS0120-RJ45-1PGF6 | FRITS0120-RJ45-1PHMF6 | FRITS0120-RJ45-1N5F6 | FRITS0120-RJ45-1N1F6 |
| | 030 | FRITS03020-RJ45-1PGF6 | FRITS03020-RJ45-1PHMF6 | FRITS03020-RJ45-1N5F6 | FRITS03020-RJ45-1N1F6 |
| | 070 | FRITS07020-RJ45-1PGF6 | FRITS07020-RJ45-1PHMF6 | FRITS07020-RJ45-1N5F6 | FRITS07020-RJ45-1N1F6 |
| | 06 | FRITS0620-RJ45-3PGF6 | FRITS0620-RJ45-3PHMF6 | FRITS0620-RJ45-1N5F6 | FRITS0620-RJ45-3N1F6 |
| | 02 | FRITS0220-RJ45-1F6 | | | |
| | 03 | <i>No Accessory Threads.</i> FRITS0320-RJ45-1F6 | | | |
| | 07 | FRITS0720-RJ45-1F6 | | | |
| ITS With Two RJ45s | 00 | FRITS0032-2RJ45-1PGF6 | N/A | N/A | FRITS0032-2RJ45-1N1F6 |
| | 01 | FRITS0132-2RJ45-1PGF6 | N/A | N/A | FRITS0132-2RJ45-1N1F6 |
| | 030 | FRITS03032-2RJ45-1PGF6 | N/A | N/A | FRITS03032-2RJ45-1N1F6 |
| | 070 | FRITS07032-2RJ45-1PGF6 | N/A | N/A | FRITS07032-2RJ45-1N1F6 |
| | 06 | FRITS0632-2RJ45-1PGF6 | N/A | N/A | FRITS0632-2RJ45-1N1F6 |
| | 02 | FRITS0232-2RJ45-1F6 | | | |
| | 03 | <i>No Accessory Threads.</i> FRITS0332-2RJ45-1F6 | | | |
| | 07 | FRITS0732-2RJ45-1F6 | | | |
| ITS With USB-A | 00 | FRITS0018-USBA-1PGF6 | FRITS0018-USBA-1PHMF6 | FRITS0018-USBA-1N5F6 | FRITS0018-USBA-1N1F6 |
| | 01 | FRITS0118-USBA-1PGF6 | FRITS0118-USBA-1PHMF6 | FRITS0118-USBA-1N5F6 | FRITS0118-USBA-1N1F6 |
| | 030 | FRITS03018-USBA-1PGF6 | FRITS03018-USBA-1PHMF6 | FRITS03018-USBA-1N5F6 | FRITS03018-USBA-1N1F6 |
| | 070 | FRITS07018-USBA-1PGF6 | FRITS07018-USBA-1PHMF6 | FRITS07018-USBA-1N5F6 | FRITS07018-USBA-1N1F6 |
| | 06 | FRITS0618-USBA-1PGF6 | FRITS0618-USBA-1PHMF6 | FRITS0618-USBA-3N5F6 | FRITS0618-USBA-3N1F6 |
| | 02 | FRITS0218-USBA-1F6 | | | |
| | 03 | <i>No Accessory Threads.</i> FRITS0318-USBA-1F6 | | | |
| | 07 | FRITS0718-USBA-1F6 | | | |

Available Backshell Assemblies



High-Speed Connectors

Assembly Option Table

| Connector | Shell Style |  PG |  PHM |  N5 |  N1 |
|----------------------|-------------|---|--|--|---|
| ITS With USB-B | 00 | FRITS0018-USBB-1PGF6 | FRITS0018-USBB-1PHMF6 | FRITS0018-USBB-1N5F6 | FRITS0018-USBB-1N1F6 |
| | 01 | FRITS0118-USBB-1PGF6 | FRITS0118-USBB-1PHMF6 | FRITS0118-USBB-1N5F6 | FRITS0118-USBB-1N1F6 |
| | 030 | FRITS03018-USBB-1PGF6 | FRITS03018-USBB-1PHMF6 | FRITS03018-USBB-1N1F6 | FRITS03018-USBB-1N5F6 |
| | 070 | FRITS07018-USBB-1PGF6 | FRITS07018-USBB-1PHMF6 | FRITS07018-USBB-1N5F6 | FRITS07018-USBB-1N1F6 |
| | 06 | FRITS0618-USBB-1-PGF6 | FRITS0618-USBB-1PHMF6 | FRITS0618-USBB-3N5F6 | FRITS0618-USBB-3N1F6 |
| | 02 | FRITS0218-USBB-1F6 | | | |
| | 03 | <i>No Accessory Threads.</i> FRITS0318-USBB-1F6 | | | |
| | 07 | FRITS0718-USBB-1F6 | | | |
| Series ITH Quadrax | 00 | N/A | ITH0018QXX-Y-PHMF6 | ITH 0018QXX-Y-CRGF6 (CRG Backshell for Conduit) | |
| | 01 | N/A | ITH0118QXX-Y-PHMF6 | ITH0118QXX-Y-CRGF6 (CRG Backshell for Conduit) | |
| | 030 | N/A | ITH03018QXX-Y-PHMF6 | ITH030QXX-Y-CRGF6 (CRG Backshell for Conduit) | |
| | 070 | N/A | ITH07018QXX-Y-PHMF6 | ITH07018QXX-Y-CRGF6 (CRG Backshell for Conduit) | |
| | 06 | N/A | ITH0618QXX-Y-PHMF6 | ITH0618QXX-Y-CRGF6 (CRG Backshell for Conduit) | |
| IPT with Single RJ45 | 00 | IPT0018-RJ45-1PGF6 | IPT0018-RJ45-1PHMF6 | IPT0018-RJ45-1N5F6 | IPT0018-RJ45-1N1F6 |
| | 01 | IPT0118-RJ45-1PGF6 | IPT0118-RJ45-1PHMF6 | IPT0118-RJ45-1N5F6 | IPT0118-RJ45-1N1F6 |
| | 070 | IPT07018-RJ45-1PGF6 | IPT07018-RJ45-1PHMF6 | IPT07018-RJ45-1N5F6 | IPT07018-RJ45-1N1F6 |
| | 06 | IPT0618-RJ45-1PGF6 | IPT0618-RJ45-1PHMF6 | IPT0618-RJ45-1N5F6 | IPT0618-RJ45-1N1F6 |
| | 02 | IPT0218-RJ45-1F6 | | | |
| | 07 | <i>No Accessory Threads.</i> IPT0718-RJ45-1F6 | | | |

Backshells

SERIES 18

FIBER OPTICS

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