



# SEACON Rubber Molded Electrical Dry-Mate Connectors

Rubber Molded Electrical Dry-Mate Connectors  
Provide Reliable and Versatile Connectivity  
Solutions for Subsea Applications

# SEACON

## Rubber Molded Electrical Dry-Mate Connectors

Reliable and Versatile Connectivity Solutions for Subsea Applications

### KEY FEATURES

- Dry-mate connector
- 4 connector sizes (A, F, G, K)
- Up to 12 contacts
- Up to 20,000 psig (approx. 45,000ft/13,700m) mated
- Up to 300 amps
- Special versions available (right-angle, crimp style, gripper body, without cable field installable version)
- Neoprene, GRE, stainless steel, polyacetal
- SO cable as standard
- Typical uses: Light to medium duty applications, Remotely Operated Vehicles (ROV)'s, diver equipment, water analysis instruments, sewer and waste water industry



TE Connectivity (TE)'s standard SEACON Rubber Molded connector series typically consists of an in-line female neoprene connector mated to a Glass Reinforced Epoxy (GRE) bulkhead connector. Various sizes are available ranging from single contact connectors up to 12 contact connectors.

Most Rubber Molded connectors are available with pins and sockets reversed to help prevent mismatching of connectors, which otherwise look identical. This also allows for socket type contacts in a connector where there is a possibility of a "power-on" situation. Many of the bulkhead type connectors are available in 316 stainless steel. Male in-line connectors round out the series allowing for in-line mated sets not requiring bulkhead penetration. In addition, the WOC (without cable) type connectors allow for field installation in the event that a connector is damaged while at sea and needs replacing, or for long cable lengths that make cable transportation cost prohibitive.

The time proven Rubber Molded series is one of our most affordable lines and has been used on all types of underwater instrumentation including: underwater lighting, communications, Remotely Operated Vehicles (ROV)'s, thermistor arrays, hydrophone arrays, and all types of sonar systems. The contacts are gold plated per ASTM-B-488 and the series is rated up to 20,000 psig in a mated condition. These SEACON connectors have a long track record in the subsea industry dating back to the 1960's.



### APPLICATION

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#### Standard, Reversed Rubber Molded Series

- Applications requiring light to medium ruggedness
- Hazardous environments
- Field installable applications

#### Glass Reinforced Epoxy Series

- Applications requiring medium ruggedness
- Hazardous environments
- Power transmission
- Signal telemetry

#### Metal Shell Series

- Applications requiring heavy ruggedness
- Hazardous, rugged environments
- Power transmission
- Signal telemetry

### CABLE

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- **Rubber Molded Series:** Connector's power capability may be limited by amperage and voltage rating of cable to which it is molded to. With the exception of field installable connectors, the in-line series are provided on a standard 18" length of 18 AWG SO cable unless otherwise specified.
- **Glass Reinforced Epoxy Series & Metal Shell Series:** Connector's power capability may be limited by amperage and voltage rating of pigtails. Customer must specify if pigtails are to be applied.

### SPECIFICATIONS

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- **Mated Pressure:** Up to 20,000 psig.
- **Voltage Rating:** Up to 600 VDC (on standard cable).
- **Current:** Up to 300 amps.

### MATERIALS

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- **Connector Body:** Neoprene, Glass Reinforced Epoxy, Stainless Steel, Polyacetal,
- **Electrical Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488.

### MAINTENANCE

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The following procedures detail the maintenance requirements for the Rubber Molded Series and their associated parts. Only qualified technicians should perform the maintenance. If connectors are periodically un-mated TE recommends the following:

1. Before un-mating ensure connectors are free of foreign contaminants. Visually check for and note any damage or abnormalities.
2. After un-mating visually check for and note any damage, cuts or abnormalities.
3. Clean any grease, moisture or foreign particles from connectors and sealing surface area.
4. In the event the internal contact surfaces are dirty or have been exposed to water, the connector should be flushed with distilled or deionized water and thoroughly dried.
5. The surface should be dried using a low pressure (15 - 25 psi) gas stream of dry nitrogen or filtered compressed air (dry nitrogen is preferred). This drying procedure helps ensure the removal of any small foreign particles.
6. Electrically test the connector in accordance with the parameters of the system.
7. Apply a thin film of an appropriate silicone grease or spray to the sealing surface. Cover/protect connector from foreign contaminants until ready to mate.

### INSTALLATION & TORQUE OPERATIONS

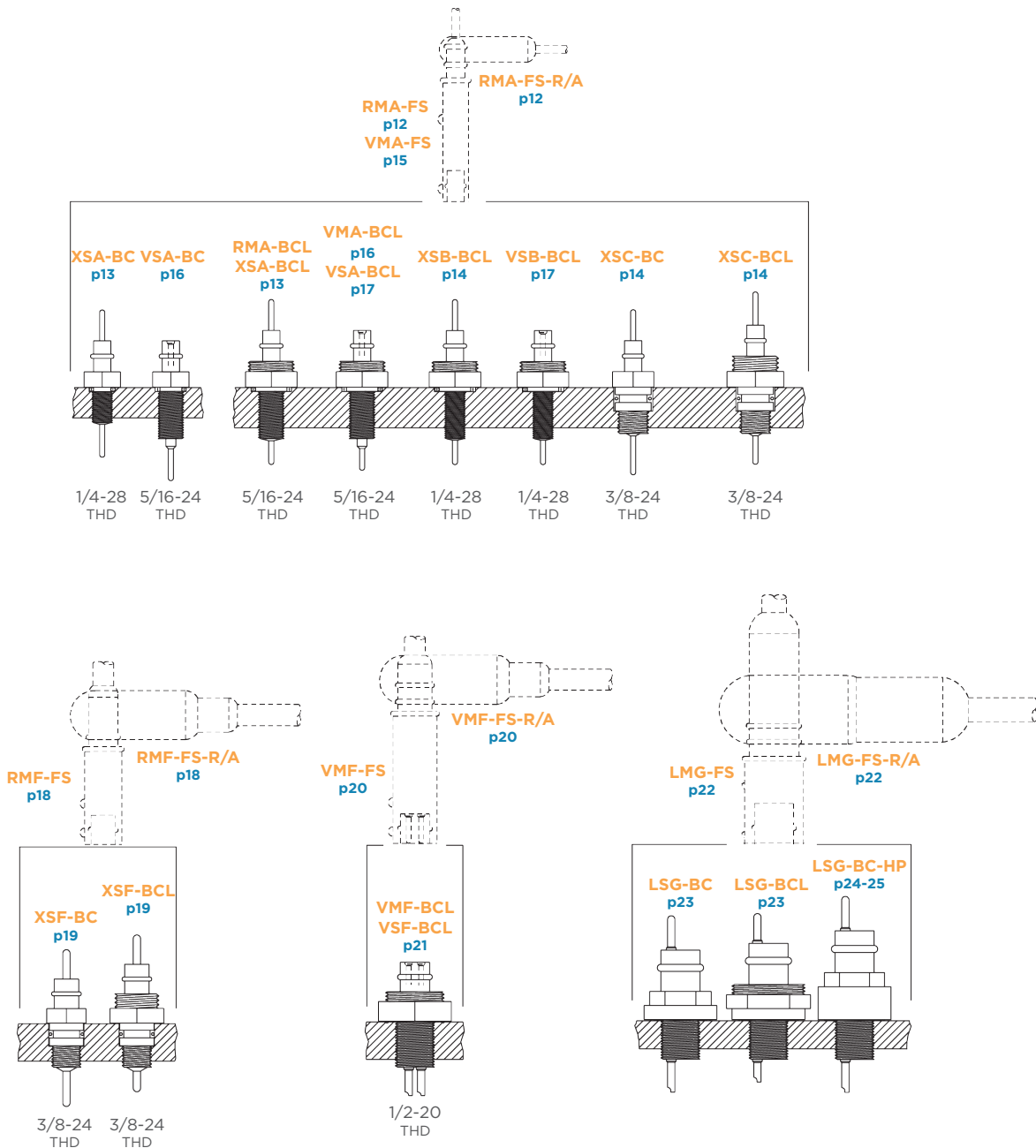
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1. Only qualified technicians should perform installation and torquing operations.
2. Torque values specified apply only when connector is installed in a metal housing.\*
3. Torque values listed are maximum values not to be exceeded.
4. Locking sleeves are finger/hand tightened only.

\* Torque values referenced in this literature assume installation into dry metal threads. Please contact the TE for recommendations.



# Rubber Molded Bulkhead Connector Mates Visual Index



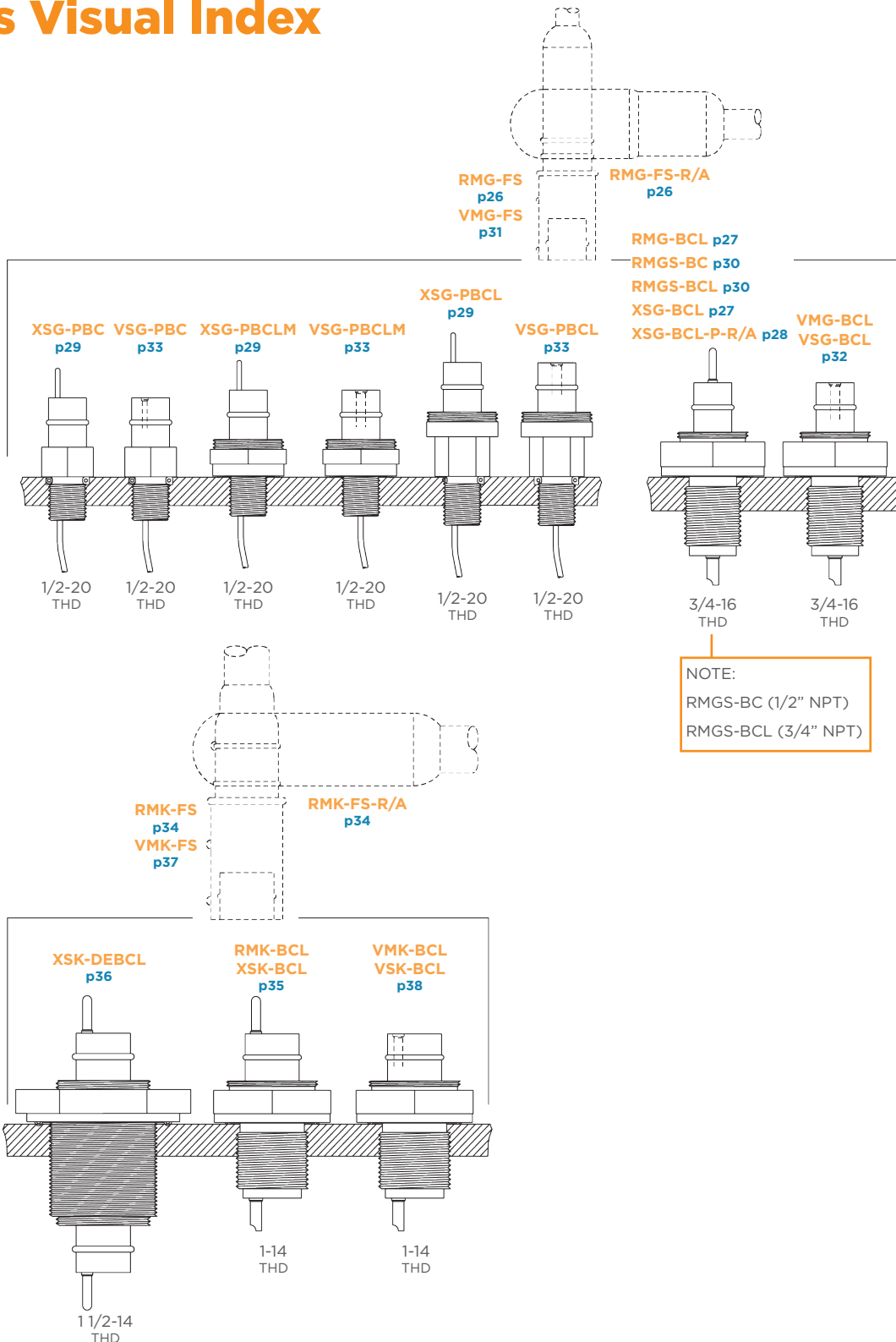
<b>NOTE:</b> LSG-3-BC: 1/2-20 LSG-4-BC: 9/16-18 LSG-6-BC: 9/16-18	<b>NOTE:</b> LSG-3-BCL: 1/2-20 LSG-4-BCL: 9/16-18 LSG-6-BCL: 9/16-18	<b>NOTE:</b> LSG-3-BC HP: 1/2-20 LSG-4-BC HP: 9/16-18 LSG-6-BC HP: 9/16-18
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**Note:**

- Torque values referenced in this literature assume installation into dry metal threads. Please contact TE for recommendations.



# Rubber Molded Bulkhead Connector Mates Visual Index



**Note:**

- Torque values referenced in this literature assume installation into dry metal threads. Please contact TE for recommendations.



## Quick Reference Mating Table

Female Socket In-Line	Mateable Male Plug In-Line	Mateable Metal Shell Bulkhead	Mateable Glass Reinforced Epoxy
RMA-FS RMA-FS-R/A RMA-FS-SL	RMA-MP RMA-MP-SL	RMA-BCL	XSA-BC, XSA-BCL XSB-BCL XSC-BC, XSC-BCL
VMA-FS VMA-FS-R/A VMA-FS-SL	VMA-MP VMA-MP-SL	VMA-BCL	VSA-BC, VSA-BCL VSB-BCL
RMF-FS RMF-FS R/A	RMF-MP	N/A	XSF-BC, XSF-BCL XSFDE-BCL (Formerly XSDE-BCL)
VMF-FS VMF-FS-R/A	VMF-MP	VMF-BCL	VSF-BCL
LMG-FS LMG-FS-R/A	LMG-MP	N/A	LSG-BC, LSG-BCL LSG-BC-HP LSG-BC-SC (Formerly LSK-BC-SC)
RMG-FS LMG-FS-R/A RMG-FS-WOC	RMG-MP RMG-MP-WOC	RMG-BCL RMGS-BC RMGS-BCL	XSG-BCL, XSG-BCL-P-R/A XSG-PBC, XSG-PBCL, XSG-PBCLM
VMG-FS VMG-FS-R/A VMG-FS-WOC	VMG-MP VMG-MP-WOC	VMG-BCL	VSG-BCL VSG-PBC, VSG-PBCL, VSG-PBCLM
RMK-FS RMK-FS-R/A RMK-FS-WOC	RMK-MP RMK-MP-WOC	RMK-BCL	XSK-BCL XSKDE-BCL
VMK-FS VMK-FS-R/A VMK-FS-WOC	VMK-MP VMK-MP-WOC	VMK-BCL	VSK-BCL



## Rubber Molded Connectors

### Ordering Information

**RMX - X - XX - XX**

**Family Designator**

**Rubber Molded**

**Shell Size**

- A
- F
- G
- K

**Number of Contacts Total**

**Connector Type**

**In-Line Connectors**

- LM** Rubber Molded-Special Version
- RM** Rubber Molded
- VM** Reversed Rubber Molded
- FS** Female Socket
- MP** Male Plug
- MPD** Male Plug Dummy
- FI** Field Installable
- HP** High Pressure
- LP** Low Pressure
- SL** Slip-on Series
- WOC** Without Cable

**Bulkhead Connectors**

- LS** Glass Reinforced Epoxy (Special Version)
- RM** Metal Shell
- VM** Reversed Metal Shell
- VS** Reversed Glass Reinforced Epoxy
- XS** Glass Reinforced Epoxy
- BC** Bulkhead Connector
- BCL** BC w/Locking Thread
- C** COAX
- DE** Double Ended
- HP** High Pressure
- IDC** Inboard Disconnect
- P** Pigtails

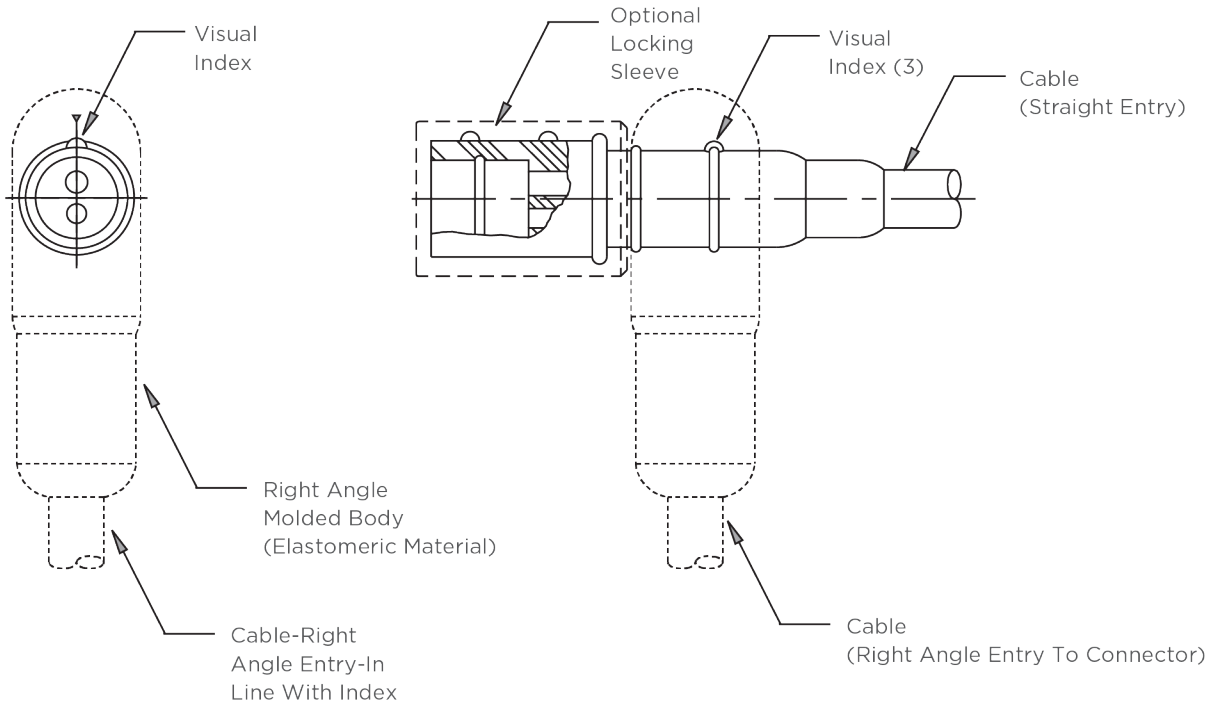
**Optional**

- R/A** Right Angle
- SC** Solder Cup
- TH** Thermistor Housing



# Typical Right Angle and Straight Connector Indexing

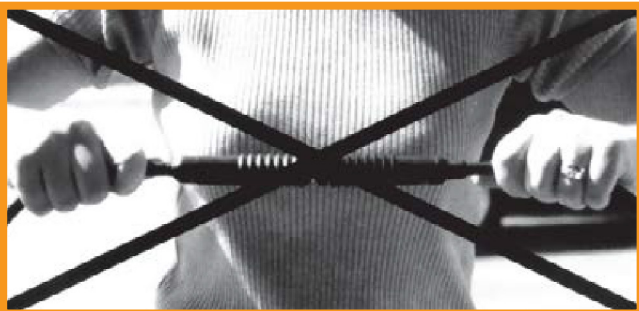
In the case of right angle connectors, the cable is always perpendicular to the index, as shown.



## Mating

To help ensure that the connectors are not damaged during mating/un-mating, it is important to practice proper connect and disconnect procedures.

### INCORRECT



### CORRECT







# Typical Mated Assembly and Options

**CABLE**

Neoprene outer jacket supplied on our standard cables

**RUBBER MOLDED CONNECTOR**

**OPTIONAL LOCKING SLEEVE (long)**

For use with straight connectors only. This long type of locking sleeve helps to eliminate conductor breakage at termination joint by eliminating flexing at joint area.

**ELECTRICAL CONTACTS**

Copper alloy, hard gold plated per ASTM-B-488.

**BULKHEAD CONNECTORS**

Material - Glass Reinforced Epoxy eliminates all dissimilar metal problems

**O-RING**

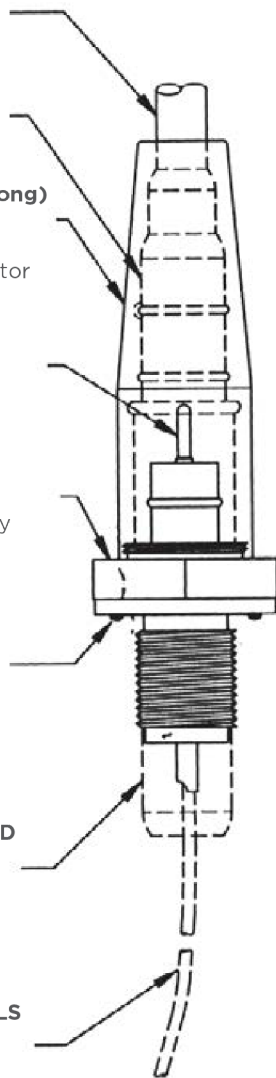
Buna N, 70 Durometer is standard. O-Rings supplied with all connectors. All O-Rings must be lubricated with a thin film of silicon or DC grease.

**OPTIONAL WATER. TIGHT MOLD**

Polyurethane usually used; neoprene optional (molded) To specify pigtails add .P after connector callout.

**OPTIONAL INDIVIDUAL PIGTAILS**

TFE, 18" Long. Longer lengths available

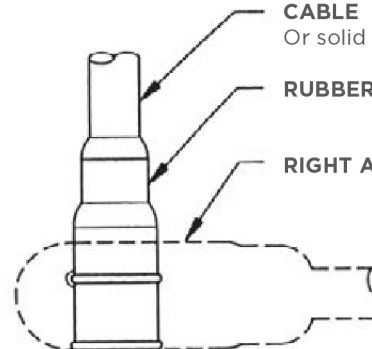


**CABLE**

Or solid rubber for dummy

**RUBBER MOLDED CONNECTOR**

**RIGHT ANGLE CONNECTOR**



**OPTIONAL LOCKING SLEEVE**

For use with straight or right

**BULKHEAD CONNECTORS**

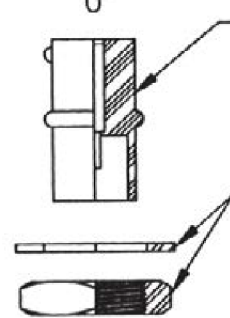
If IDC's are intended for use specify pins on low pressure side when ordering bulkhead connectors. Solder pots are standard.

**INBOARD DISCONNECT (IDC)**

Not Water Tight (Optional)

**INBOARD NUT & WASHER SET (SST)**

(Optional)



**Note:**

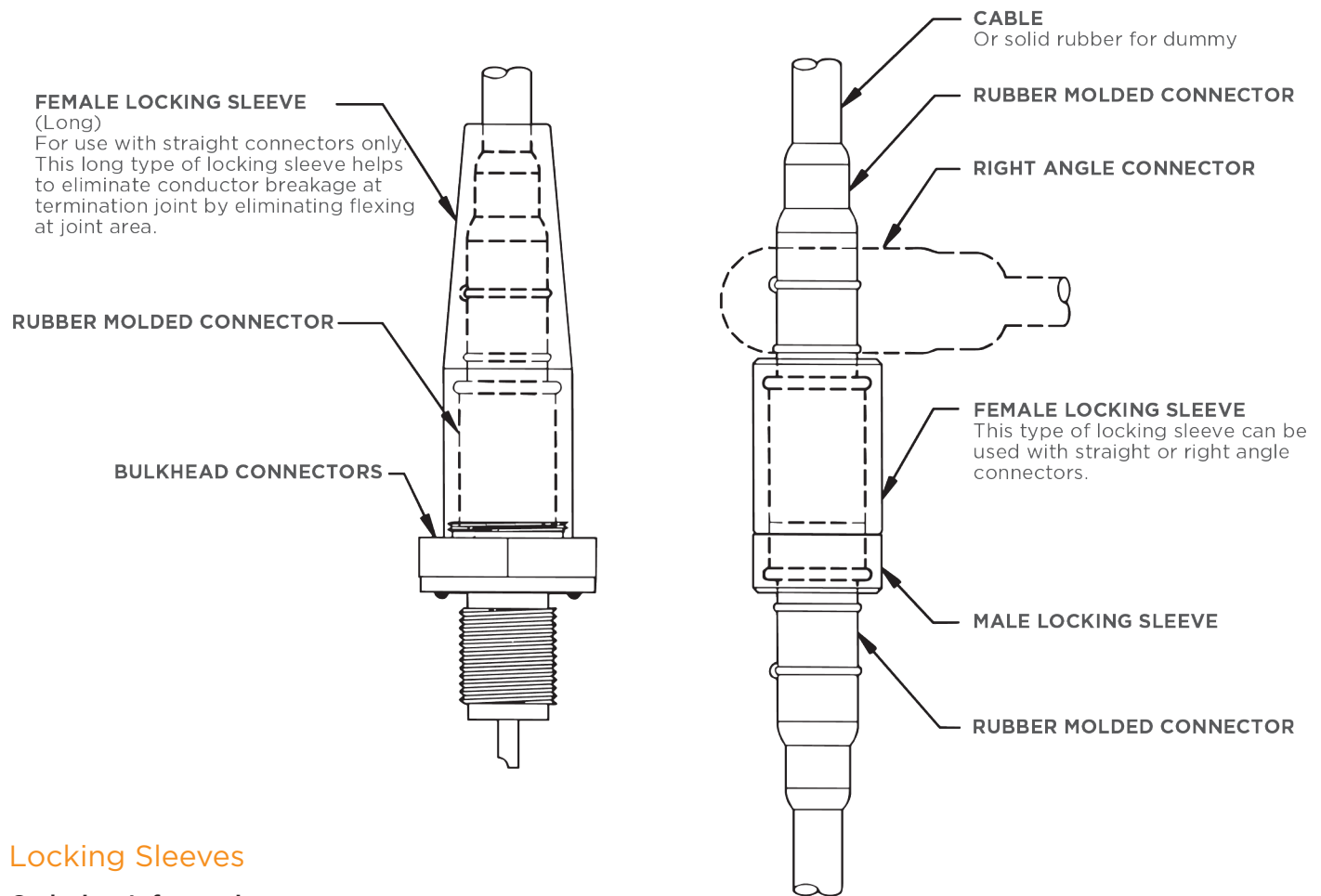
- Torque values referenced in this literature assume installation into dry metal threads. Please contact TE for recommendations.



# Locking Sleeves

Our range of locking sleeves are available in Polyacetal (D), but can also be available in plastic or stainless steel (S). Other materials may be available by special order.

Locking sleeves assists in avoiding accidental disconnection. The long locking sleeves are used to minimize flexing stress being applied to the electrical conductor terminations when the cable is flexed.



## Locking Sleeves

### Ordering Information

Shell Size \_\_\_\_\_

**A, F, G, K**

Connector Type \_\_\_\_\_

**FLS** Female Locking Sleeve  
**MLS** Male Locking Sleeve

Material \_\_\_\_\_

**D** Polyacetal - Standard  
**S** Stainless Steel  
**B** Bronze; CA 630  
**X** Long  
**TI** Titanium

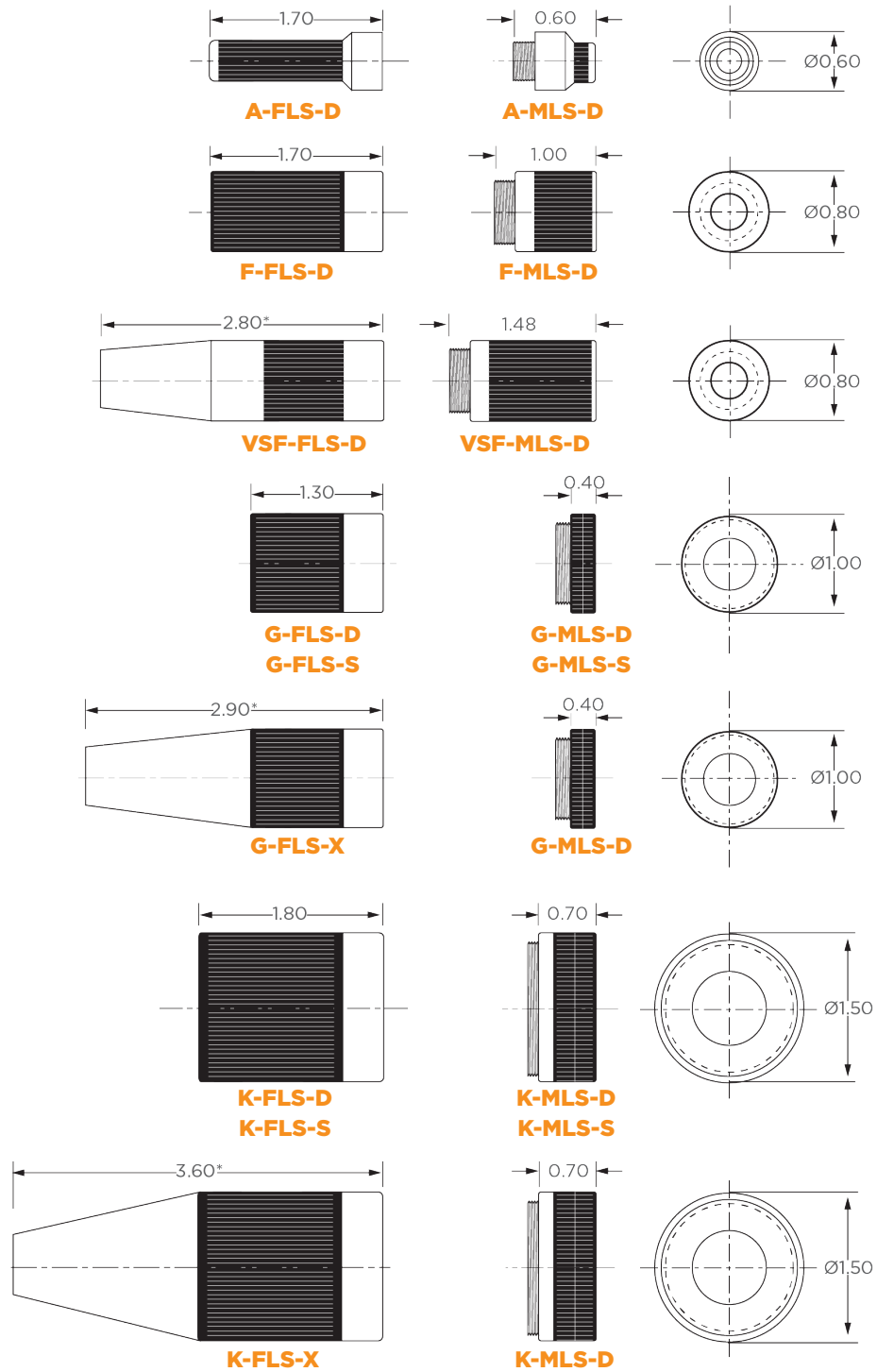
**X - XX - X**

### Note:

- Cable diameter must be specified when ordering (long -X) locking sleeves. X Size only uses 1/2 inch cable or smaller.



# Locking Sleeves



**Note:**

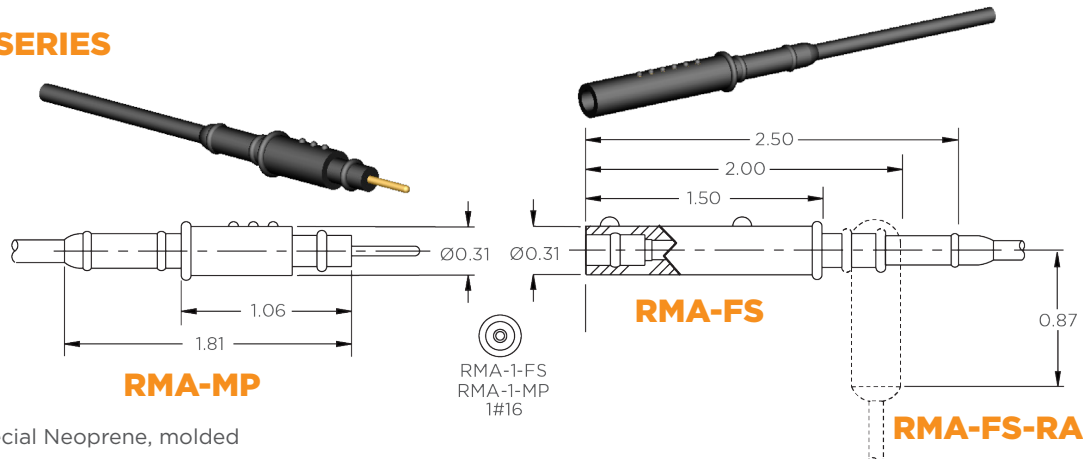
\* VSF-FLS-D, G-FLS-X, K-FLS-X length will vary, depending on cable diameter.



# RMA-FS and Associated Parts

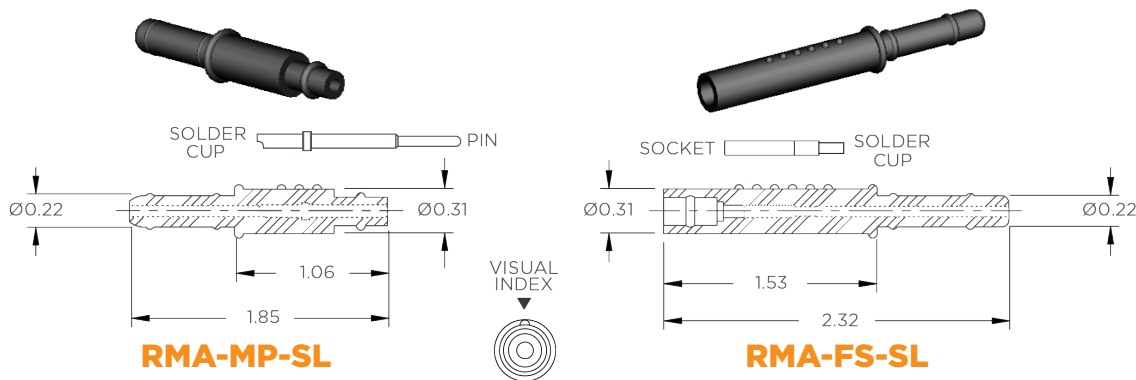
Standard Rubber Molded

## IN-LINE SERIES



**Material:** Special Neoprene, molded  
**Contacts:** Copper Alloy, Hard Gold Plated per ASTM B488  
**Cable:** 1 N 2  
**Voltage Rating:** 600 VDC. Contact TE for higher voltage requirements  
**Mated Pressure Rating:** Up to 20,000 psi

## SLIP-ON SERIES



**Material:** Special Neoprene, molded  
**Contacts:** Brass, Hard Gold Plated per ASTM-B-488  
**Voltage Rating:** 600 VDC. Contact TE for higher voltage requirements  
**Mated Pressure Rating:** Up to 20,000 psi

Locking Sleeve	Available For
A-MLS-D	RMA-MP, RMA-MP-SL
A-FLS-D	RMA-FS, RMA-FS-R/A, RMA-MP-SL

Dummy Connector	Mates To
RMA-FSD	RMA-MP
RMA-MPD-LP/HP	RMA-FS & RMA-FS-R/A

- Specify number of conductors when ordering
- Material:** Special Neoprene, molded  
**Mated Pressure Rating:**
- RMA-FSD: 20,000 psi
  - RMA-MPD-LP: <4,000 psi
  - RMA-MPD-HP: 4,000 - 20,000 psi (male contact required)

**Note:**

- Specify exact wire diameter when ordering. Maximum wire DIA=0.09 inch.

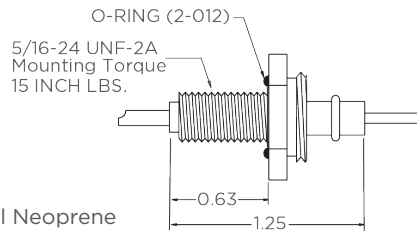


# RMA-FS and Associated Parts

## Mateable Bulkhead Connectors

### RMA-BCL

Special insulating neoprene is compression molded to the metal body forming a reliable seal. The metal body can be made of stainless steel, aluminum or other metals. This connector utilizes a facial o-ring seal to the bulkhead.



**Material:** 316 Stainless Steel, Internal Insulation-Special Neoprene

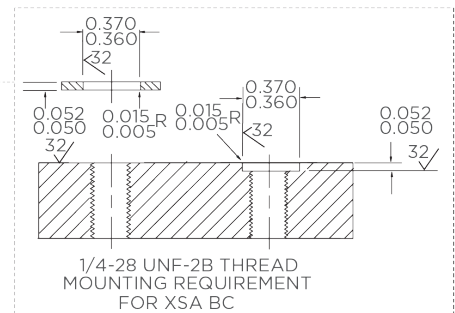
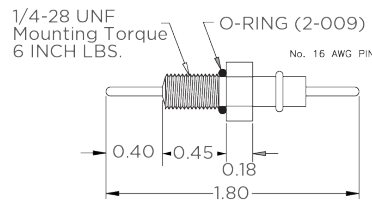
**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488

**Mated Pressure Rating:** Up to 20,000 psi

**Dummy Connector:** RMA-FSD

### XSA-BC

The smallest standard connector in our non-metallic series, features an o-ring in the thread relief area. Available in single contact.



**Material:** Glass Reinforced Epoxy

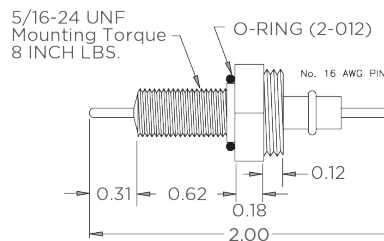
**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488

**Mated Pressure Rating:** Up to 20,000 psi

**Dummy Connector:** RMA-FSD

### XSA-BCL

These are miniature, single contact connectors which feature a locking sleeve provision. The o-ring is located on a step under the hex and seals by flush mounting to the bulkhead.



600VDC



**Material:** Glass Reinforced Epoxy

**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488

**Mated Pressure Rating:** Up to 20,000 psi

**Dummy Connector:** RMA-FSD

**Note:**

- Torque values referenced in this literature assume installation into dry metal threads. Please contact TE for recommendations.

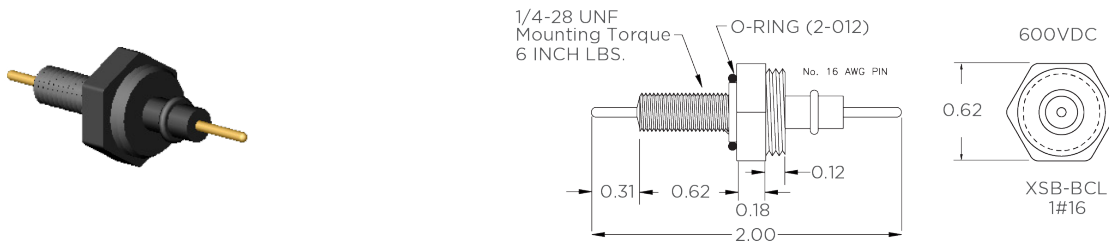


# RMA-FS and Associated Parts

## Mateable Bulkhead Connectors

### XSB-BCL

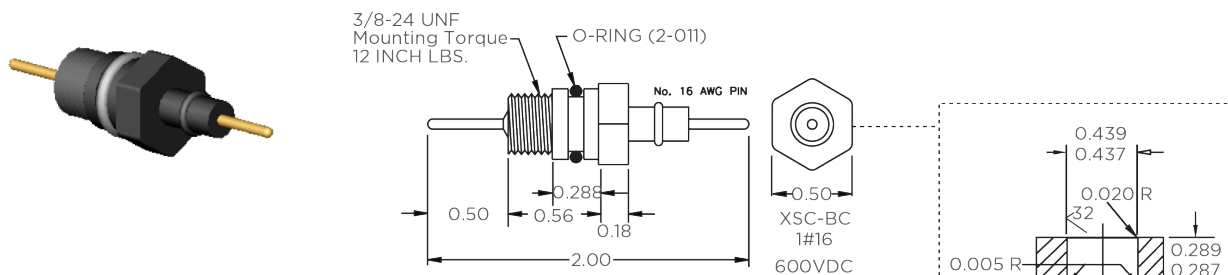
A miniature connector body very similar to the XSA-BCL, but utilizes a smaller installation thread. The small thread size requires care in installation to help avoid damaging or cracking. The o-ring is located on a stop under the hex and seals by flush mounting to the bulkhead.



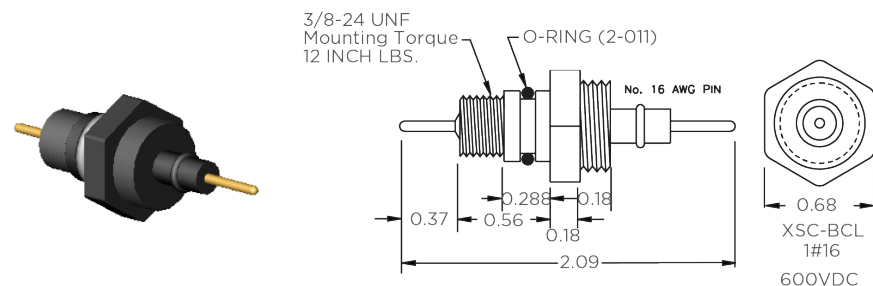
- Material:** Glass Reinforced Epoxy
- Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488
- Mated Pressure Rating:** Up to 20,000 psi
- Dummy Connector:** RMA-FSD

### XSC-BC

These connectors feature a radial type o-ring seal, good for up to 10,000 psi, mated. Available only in single contact.



### XSC-BCL



- Material:** Glass Reinforced Epoxy
- Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488
- Mated Pressure Rating:** Up to 10,000 psi
- Dummy Connector:** RMA-FSD

**Note:**

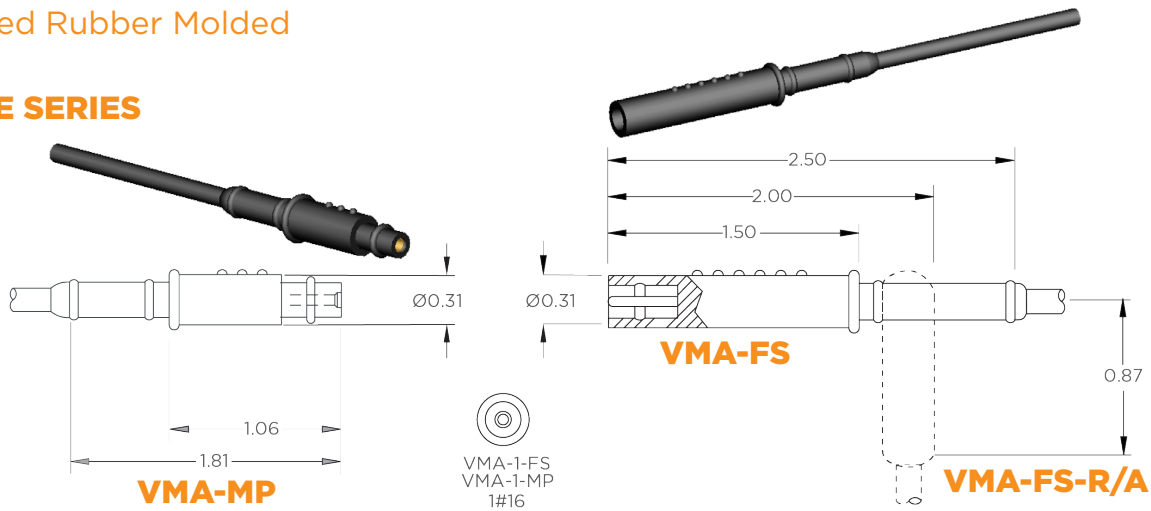
- Torque values referenced in this literature assume installation into dry metal threads. Please contact TE for recommendations.



# VMA-FS and Associated Parts

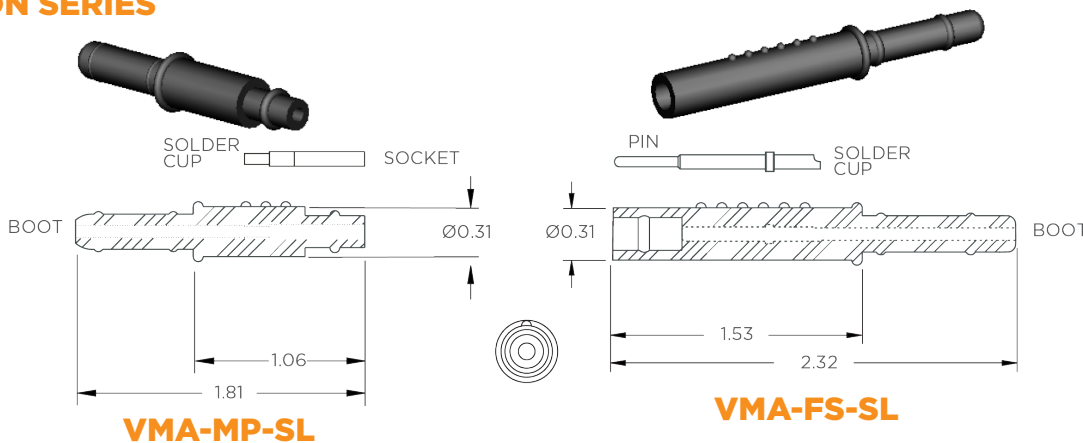
Reversed Rubber Molded

## IN-LINE SERIES



**Material:** Special Neoprene, Molded  
**Contacts:** Copper Alloy, Hard Gold Plated per ASTM B488  
**Cable:** 1 N 2  
**Voltage Rating:** 600 VDC. Contact TE for higher voltage requirements  
**Mated Pressure Rating:** Up to 20,000 psi

## SLIP-ON SERIES



**Material:** Special Neoprene, Molded  
**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488  
**Voltage Rating:** 600 VDC. Contact TE for higher voltage requirements  
**Mated Pressure Rating:** Up to 20,000 psi

Locking Sleeve	Available For
A-MLS-D	VMA-MP, VMA-MP-SL
A-FLS-D	VMA-FS, VMA-FS-R/A, VMA-FS-SL

Dummy Connector	Mates To
VMA-MPD	VMA-FS, VMA-FS-R/A
VMA-FSD-LP/HP	VMA-MP

- Specify number of conductors when ordering
- Material:** Special Neoprene, molded
- Mated Pressure Rating:**
  - VMA-MPD: 20,000 psi
  - VMA-FSD-LP: <4,000 psi (connector body W/O male pin)
  - VMA-FSD-HP: 4,000 - 20,000 psi

**Note:**

- Specify exact wire diameter when ordering. Maximum wire DIA=0.09 inch.

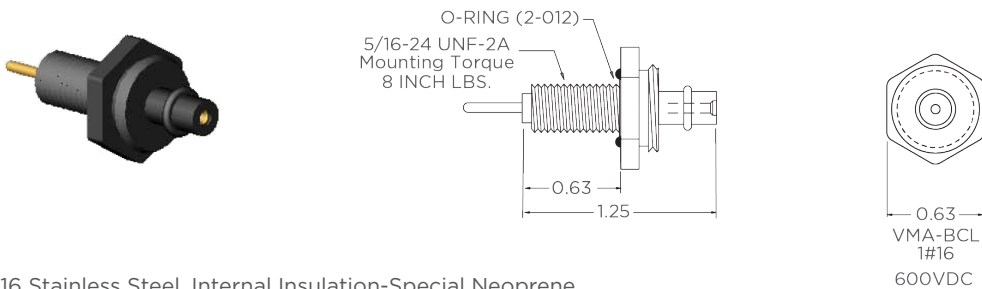


# VMA-FS and Associated Parts

## Mateable Bulkhead Connectors

### VMA-BCL

Special insulating neoprene is compression molded to the metal body forming a reliable seal. The metal body can be made of stainless steel, aluminum or other metals. This connector utilizes a facial o-ring to seal to the bulkhead.



**Material:** 316 Stainless Steel, Internal Insulation-Special Neoprene

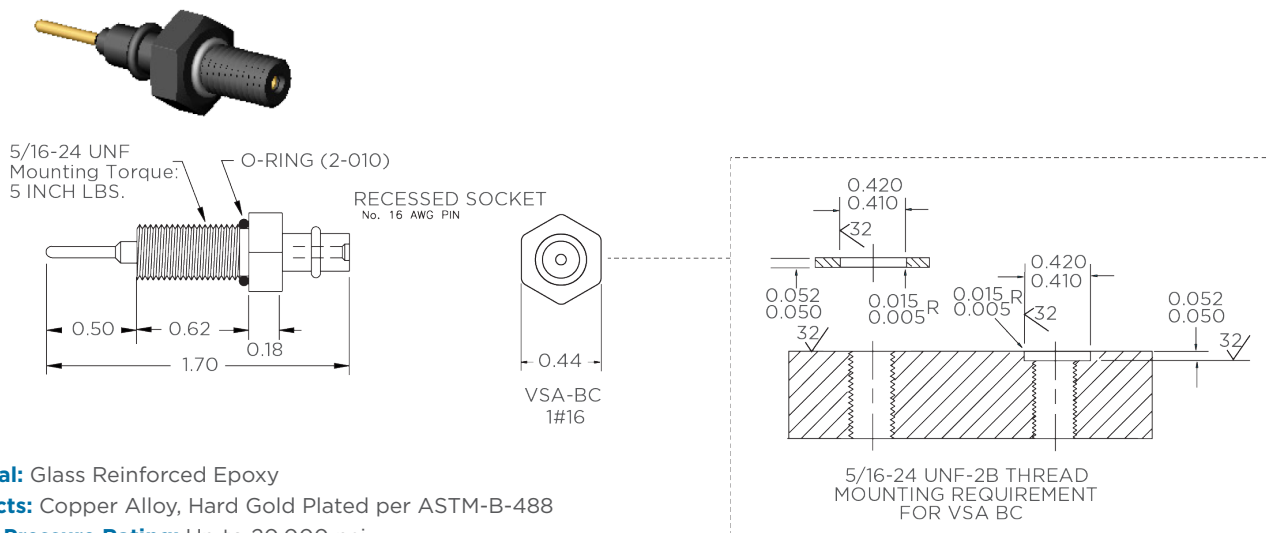
**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488

**Mated Pressure Rating:** Up to 20,000 psi

**Dummy Connector:** VMA-FSD-HP or VMA-FSD-LP

### VSA-BC

The smallest standard connector in our non-metallic series, features an o-ring in the thread relief area. Available in single contact.



**Material:** Glass Reinforced Epoxy

**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488

**Mated Pressure Rating:** Up to 20,000 psi

**Dummy Connector:** VMA-FSD-HP or VMA-FSD-LP

**Note:**

- Torque values referenced in this literature assume installation into dry metal threads. Please contact TE for recommendations.



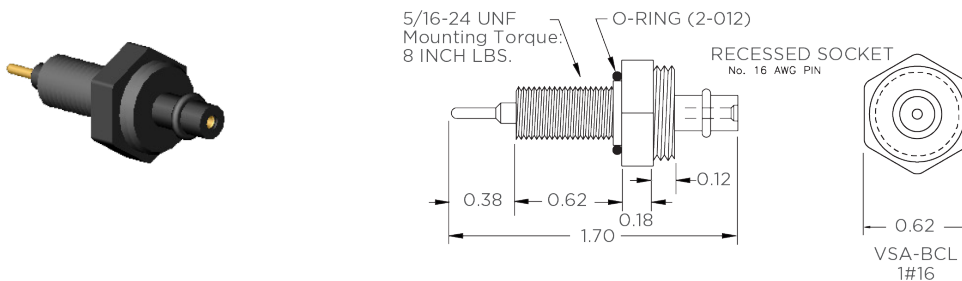


# VMA-FS and Associated Parts

## Mateable Bulkhead Connectors

### VSA-BCL

Miniature single contact connectors which feature a locking sleeve provision. The o-ring is located on a step under the hex and seals by flush mounting to the bulkhead.



**Material:** Glass Reinforced Epoxy

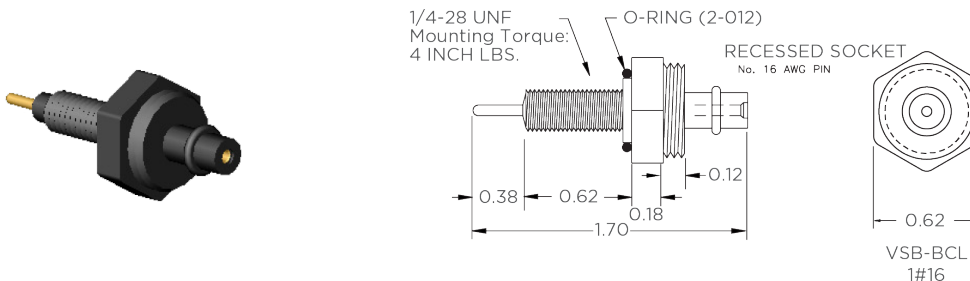
**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488

**Mated Pressure Rating:** Up to 20,000 psi

**Dummy Connector:** VMA-FSD-HP or VMA-FSD-LP

### VSB-BCL

This is a miniature connector body very similar to the VSA-BCL, but utilizes a smaller installation thread. The small thread size requires care in installation to help avoid damaging or cracking. The o-ring is located on a stop under the hex and seals by flush mounting to the bulkhead.



**Material:** Glass Reinforced Epoxy

**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488

**Mated Pressure Rating:** Up to 20,000 psi

**Dummy Connector:** VMA-FSD-HP or VMA-FSD-LP

**Note:**

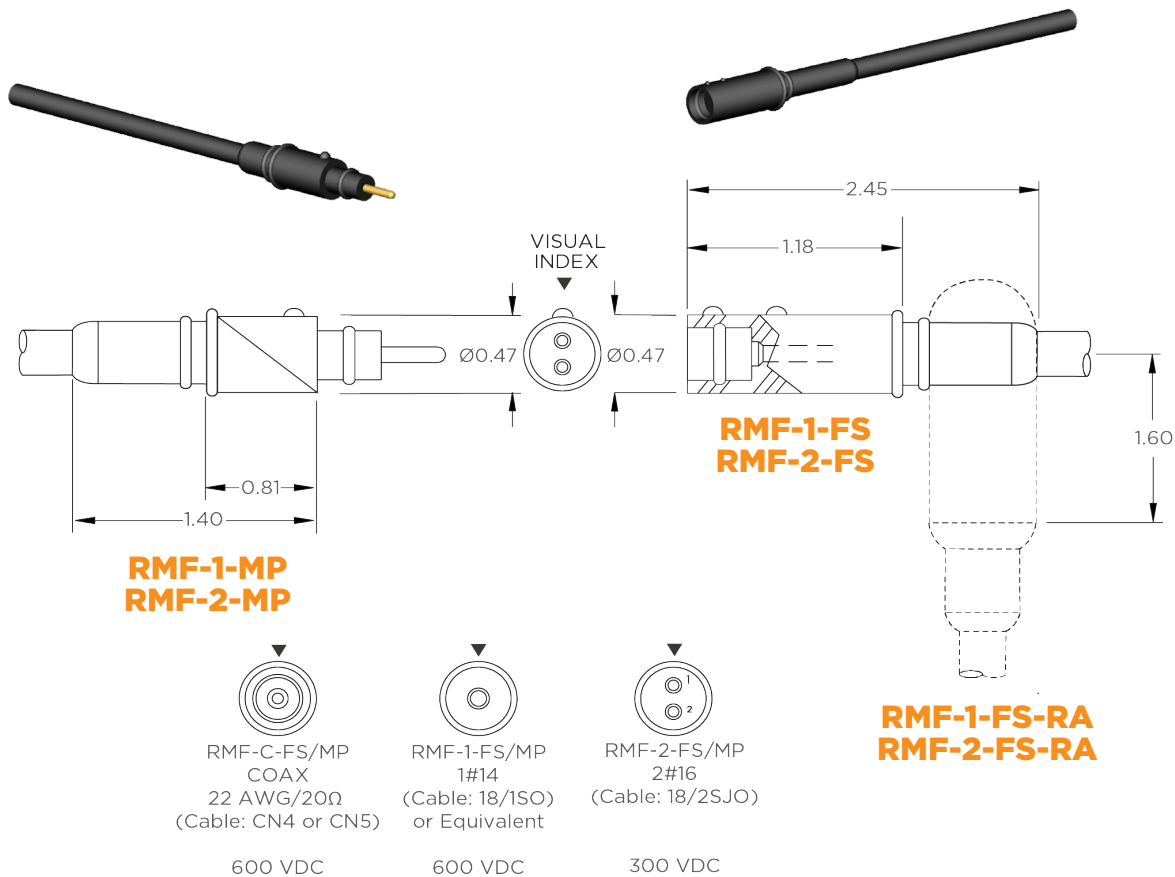
- Torque values referenced in this literature assume installation into dry metal threads. Please contact TE for recommendations.



# RMF-FS and Associated Parts

Standard Rubber Molded

## IN-LINE SERIES



**Material:** Special Neoprene, Molded  
**Contacts:** Copper Alloy, Hard Gold Plated per ASTM B488  
**Voltage Rating:** See specific configuration  
**Mated Pressure Rating:** Up to 10,000 psi

Locking Sleeve	Available For
F-MLS-D	RMF-MP
XSF-FLS-D	RMF-FS, RMF-FS-R/A

Dummy Connector	Mates To
RMF-FSD	RMF-MP
RMF-MPD-HP/LP	RMF-FS, RMF-FS-R/A

- Specify number of conductors when ordering
- Material:** Special Neoprene, molded
- Mated Pressure Rating:**
- RMF-FSD: 10,000 psi
  - RMF-MPD-HP: High Pressure, 4,000-10,000 psi, contact required
  - RMF-MPD-LP: Low Pressure, ≤ 4,000 psi, no contact required

**Note:**

- Torque values referenced in this literature assume installation into dry metal threads. Please contact TE for recommendations.

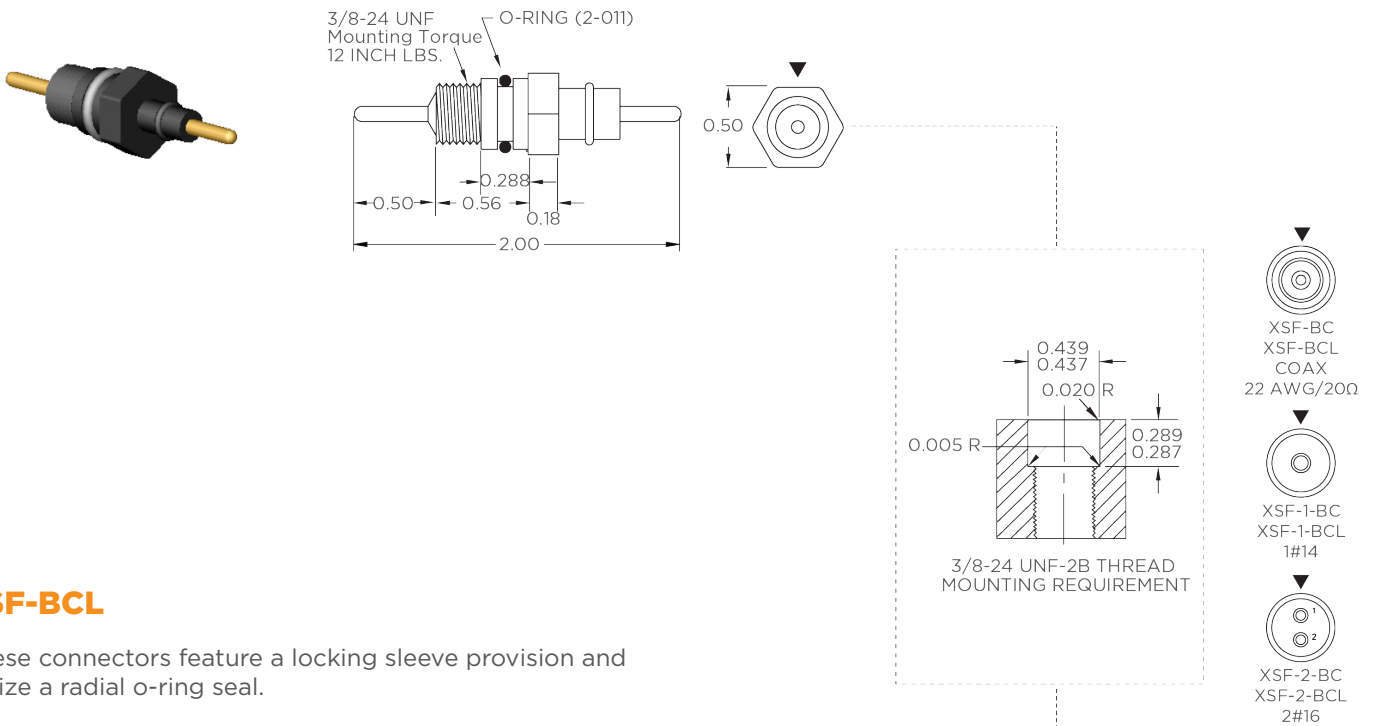


# RMF-FS and Associated Parts

## Mateable Bulkhead Connectors

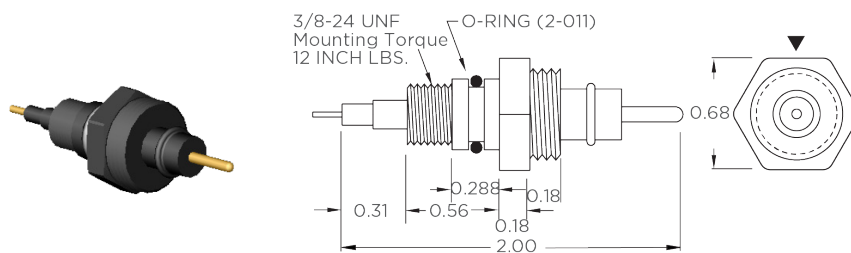
### XSF-BC

Features radial o-ring seal.



### XSF-BCL

These connectors feature a locking sleeve provision and utilize a radial o-ring seal.



**Material:** Glass Reinforced Epoxy

**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488

**Mated Pressure Rating:** Up to 10,000 psi

**Dummy Connector:** RMF-FSD

**Note:**

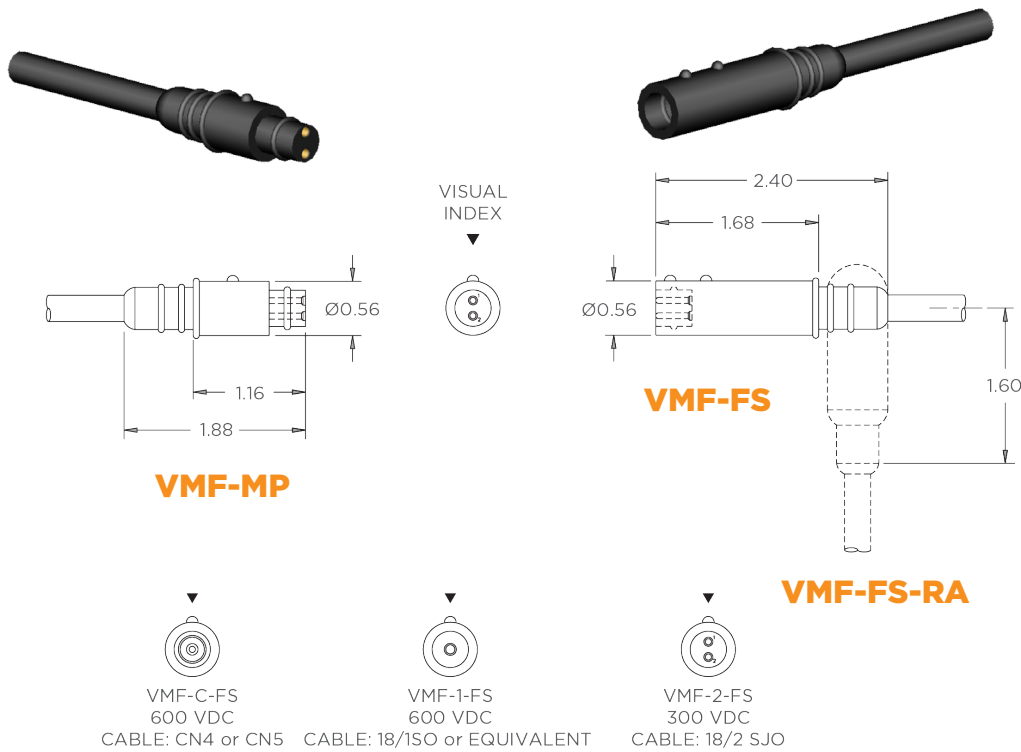
- Torque values referenced in this literature assume installation into dry metal threads. Please contact TE for recommendations.



# VMF-FS & Associated Parts

Reversed Rubber Molded

## IN-LINE SERIES



**Material:** Special Neoprene, Molded

**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488

**Voltage Rating:** See specific configuration

**Mated Pressure Rating:** Up to 20,000 psi

Locking Sleeve	Available For
VSF-MLS-D	VMF-MP
VSF-FLS-D	VMF-FS, VMF-FS-R/A

Dummy Connector	Mates To
VMF-MPD	VMF-FS, VMF-FS-R/A
VMF-FSD-LP/HP	VMF-MP

- Specify number of conductors when ordering

**Material:** Special Neoprene, molded

**Mated Pressure Rating:**

- VMF-MPD: 10,000 psi
- VMF-FSD-HP: High Pressure, 4,000-10,000 psi, contact required
- VMF-FSD-LP: Low Pressure, ≤ 4,000 psi, no contact required

**Note:**

- Specify exact wire diameter when ordering. Maximum wire DIA=0.09 inch.

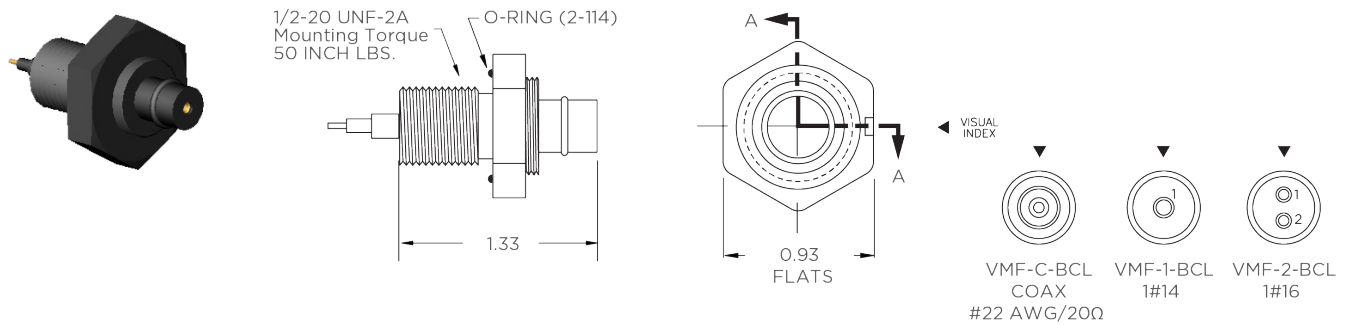


# VMF-FS & Associated Parts

## Mateable Bulkhead Connectors

### VMF-BCL

Special insulating neoprene is permanently molded to the metal shell. These types of connectors are used where physical abuse may be too great for the non-metallic (glass reinforced epoxy) series.



**Material:** 316 Stainless Steel

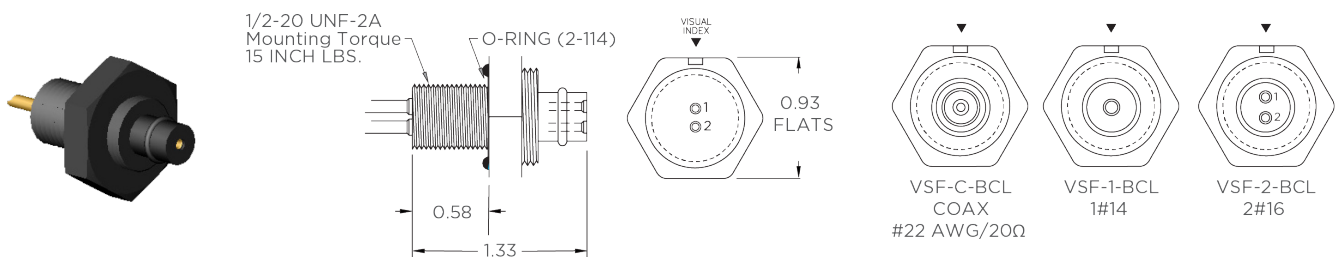
**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488

**Mated Pressure Rating:** Up to 20,000 psi

**Dummy Connector:** VMF-FSD

### VSF-BCL

Available in coax, 1 and 2 contacts, features a facial o-ring seal to the bulkhead.



**Material:** Glass Reinforced Epoxy

**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488

**Mated Pressure Rating:** Up to 20,000 psi

**Dummy Connector:** VMF-FSD

**Note:**

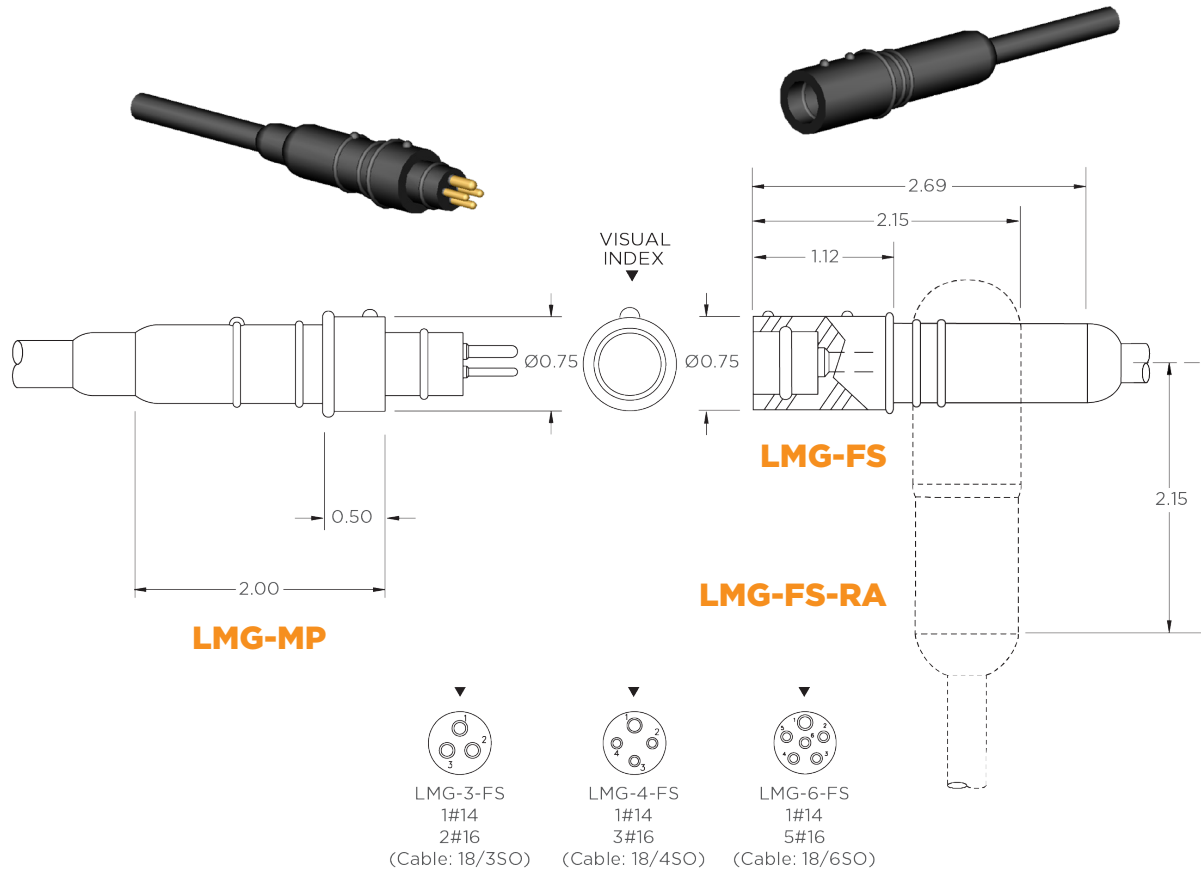
- Torque values referenced in this literature assume installation into dry metal threads. Please contact TE for recommendations.



# LMG-FS & Associated Parts

Standard Rubber Molded

## IN-LINE SERIES



**Material:** Special Neoprene, Molded  
**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488  
**Voltage Rating:** 600 VDC. Contact TE for higher voltage requirements  
**Mated Pressure Rating:** Up to 20,000 psi

Locking Sleeve	Available For
G-MLS-D	LMG-MP
G-FLS-D	LMG-FS, LMG-FS-R/A

Dummy Connector	Mates To
LMG-FSD	LMG-MP
LMG-MPD-LP/HP	LMG-FS, LMG-FS-R/A

- Specify number of conductors when ordering
- Material:** Special Neoprene, molded
- Mated Pressure Rating:**
  - LMG-FSD: 20,000 psi
  - LMG-MPD-HP: High Pressure, 4,000-20,000 psi, contact required
  - LMG-MPD-LP: Low Pressure, ≤ 4,000 psi, no contact required



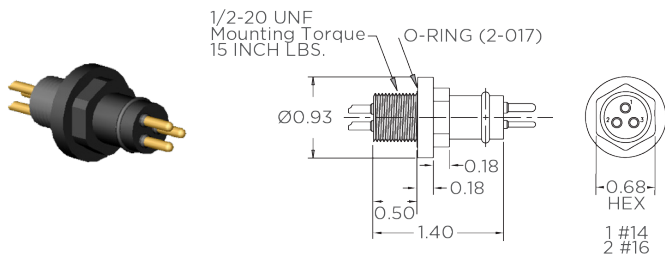
# LMG-FS and Associated Parts

## Mateable Bulkhead Connectors

### LSG-BC, LSG-BCL

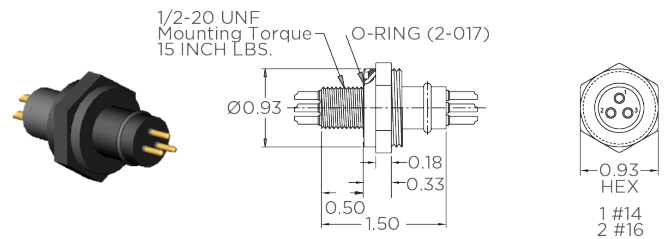
These non-metallic connectors utilize a facial o-ring seal to the bulkhead. The LSG-BCL has a locking sleeve provision.

#### LSG-3-BC



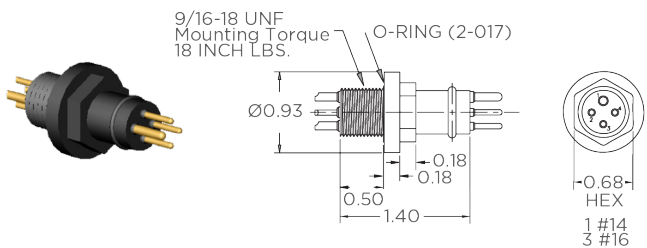
- Does not mate to RMG-FS or RMG-FS-R/A

#### LSG-3-BCL



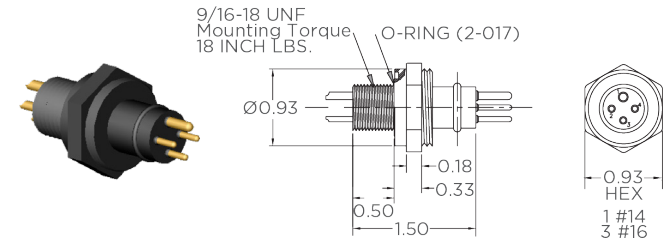
- Does not mate to RMG-FS or RMG-FS-R/A

#### LSG-4-BC



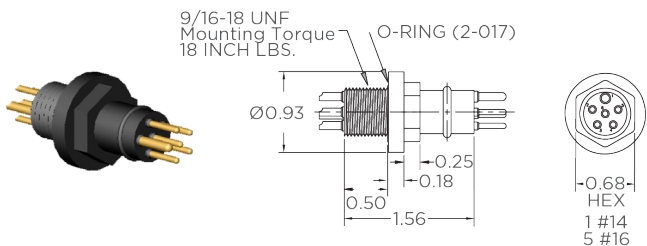
- Does not mate to RMG-FS or RMG-FS-R/A

#### LSG-4-BCL



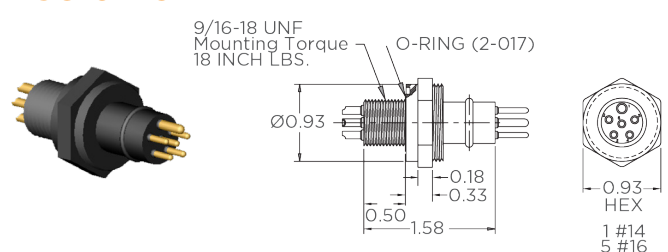
- Does not mate to RMG-FS or RMG-FS-R/A

#### LSG-6-BC



- Also mates to RMG-FS or RMG-FS-R/A

#### LSG-6-BCL



- Also mates to RMG-FS or RMG-FS-R/A

**Material:** Glass Reinforced Epoxy

**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488

**Mated Pressure Rating:** Up to 3,000 psi

**Dummy Connector:** LMG-FSD

**Note:**

- Torque values referenced in this literature assume installation into dry metal threads. Please contact TE for recommendations.



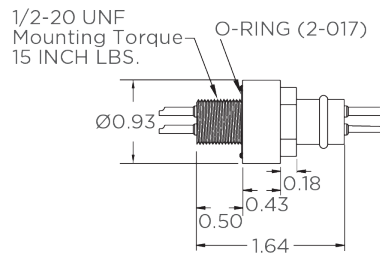
# LMG-FS & Associated Parts

Mateable Bulkhead Connectors

## LSG-BC-HP

These non-metallic connectors feature a facial o-ring seal to the bulkhead.

## LSG-3-BC-HP



- Does not mate to RMG-FS or RMG-FS-R/A

**Material:** Glass Reinforced Epoxy

**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488

**Mated Pressure Rating:** Up to 10,000 psi

**Dummy Connector:** LMG-FSD

**Note:**

- Torque values referenced in this literature assume installation into dry metal threads. Please contact TE for recommendations.





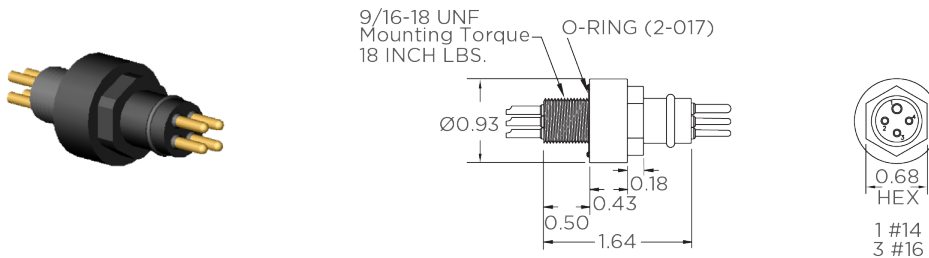
# LMG-FS & Associated Parts

## Mateable Bulkhead Connectors

### LSG-BC-HP

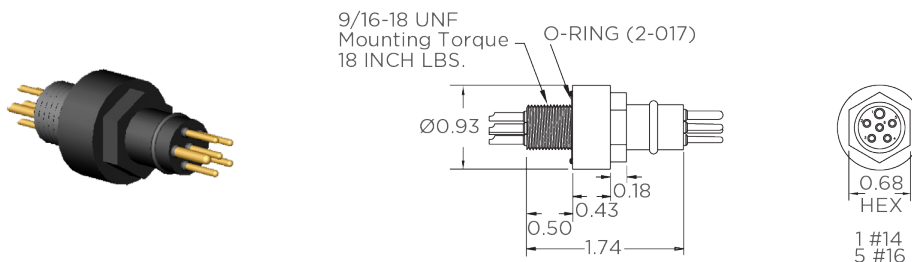
These non-metallic connectors feature a facial o-ring seal to the bulkhead.

### LSG-4-BC-HP



- Does not mate to RMG-FS or RMG-FS-R/A

### LSG-6-BC-HP



- Also mates to RMG-FS or RMG-FS-R/A

**Material:** Glass Reinforced Epoxy

**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488

**Mated Pressure Rating:** Up to 10,000 psi

**Dummy Connector:** LMG-FSD

**Note:**

- Torque values referenced in this literature assume installation into dry metal threads. Please contact TE for recommendations.

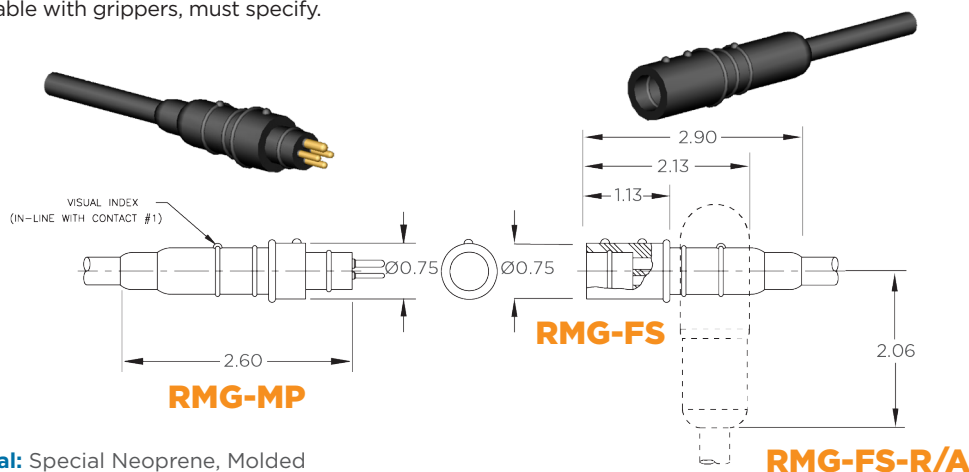








# RMG-FS & Associated Parts

Standard Rubber Molded

## IN-LINE SERIES

- Available with grippers, must specify.

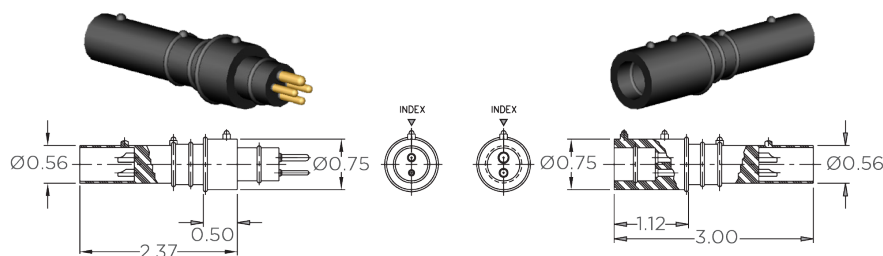






 RMG-1-FS 1#10 (Cable: 18/1SO) or Equivalent	 RMG-2-FS 1#10 1#14 (Cable: 18/2SO)
 RMG-3-FS 1#10 2#14 (Cable: 18/3SO)	 RMG-4-FS 1#14 3#16 (Cable: 18/4SO)
 RMG-5-FS 1#14 4#16 (Cable: 18/5SO)	 RMG-6-FS 1#14 5#16 (Cable: 18/6SO)

**Material:** Special Neoprene, Molded  
**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488  
**Voltage Rating:** 600 VDC. Contact TE for higher voltage requirements  
**Mated Pressure Rating:** Up to 20,000 psi

## WOC CONNECTORS - RMG-FS-WOC, RMG-MP-WOC

WOC stands for “without cable.” The connectors are supplied as shown below for installation in the field and/or to non-neoprene jacketed cables, Bonding can be achieved by molding to the connectors shown using polyurethane with appropriate primers.



 RMG-1-FS MP-WOC 1 #10 AWG	 RMG-2-FS MP-WOC 1 #10 AWG 1 #14 AWG
 RMG-3-FS MP-WOC 1 #10 AWG 2 #14 AWG	 RMG-4-FS MP-WOC 1 #14 AWG 3 #16 AWG

**Material:** Special Neoprene, Molded  
**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488  
**Voltage Rating:** 600 VDC. Contact TE for higher voltage requirements  
**Mated Pressure Rating:** Up to 20,000 psi

Locking Sleeve	Available For	Dummy Connector	Mates To
G-MLS-D / G-MLS-S	RMG-MP, RMG-MP WOC	RMG-FSD	RMG-MP, BCL & XSG-BCL, XSG-PBC, XSG-PBCL, XSG-PBCLM
G-FLS-D / G-FLS-S	RMG-FS, RMG-FS-R/A, RMG-FS-WOC	RMG-MPD	RMG-FS & RMG FS-R/A
G-FLS-X*	RMG-FS		

**Note:**

- \* Must specify cable OD.

- Specify number of conductors when ordering
- Material:** Special Neoprene, molded.
- Mated Pressure Rating:**
  - RMG-FSD: 20,000 psi
  - RMG-MPD-HP: High Pressure, 4,000-20,000 psi, contact required
  - RMG-MPD-LP: Low Pressure, ≤ 4,000 psi, no contact required

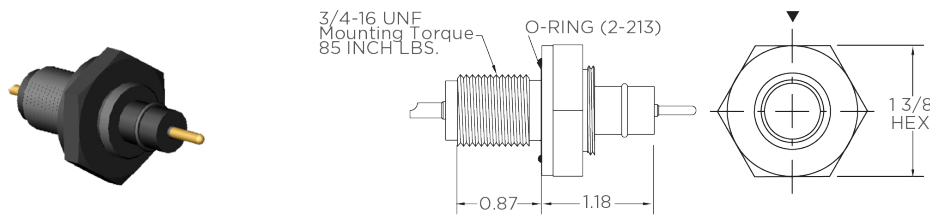


# RMG-FS & Associated Parts

## Mateable Bulkhead Connectors

### RMG-BCL

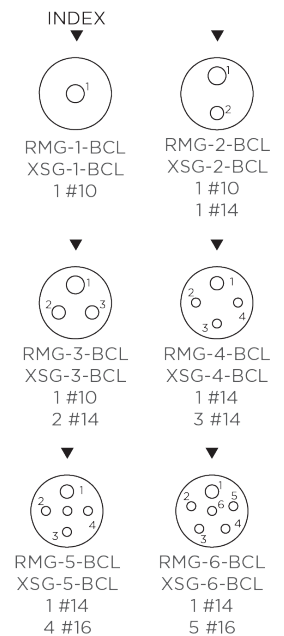
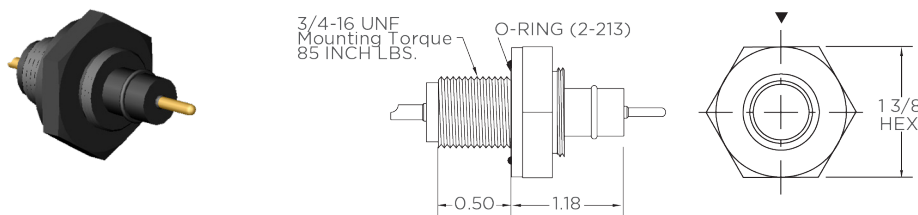
Special Insulating neoprene is permanently molded to the metal shell. These types of connectors are used where physical abuse may be too great for the non-metallic (glass reinforced epoxy) series. The RMG-BCL has a locking sleeve provision and utilizes a facial o-ring seal to the bulkhead.



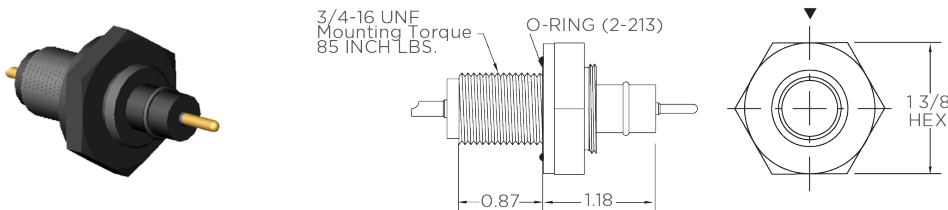
**Material:** 316 Stainless Steel, Internal Insulation-Special Neoprene  
**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488  
**Mated Pressure Rating:** Up to 20,000 psi  
**Dummy Connector:** RMG-FSD

### XSG-BCL

One of our oldest connectors in the non-metallic series, with male pin as shown. Connector is one homogeneously molded unit available with different thread lengths as indicated. The XSG-BCL has a locking sleeve provision and utilizes a facial o-ring seal to the bulkhead.



### XSG-BCL-LT



**Material:** Glass Reinforced Epoxy  
**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488  
**Mated Pressure Rating:** Up to 3,000 psi  
**Dummy Connector:** RMG-FSD

**Note:**

- Torque values referenced in this literature assume installation into dry metal threads. Please contact TE for recommendations.

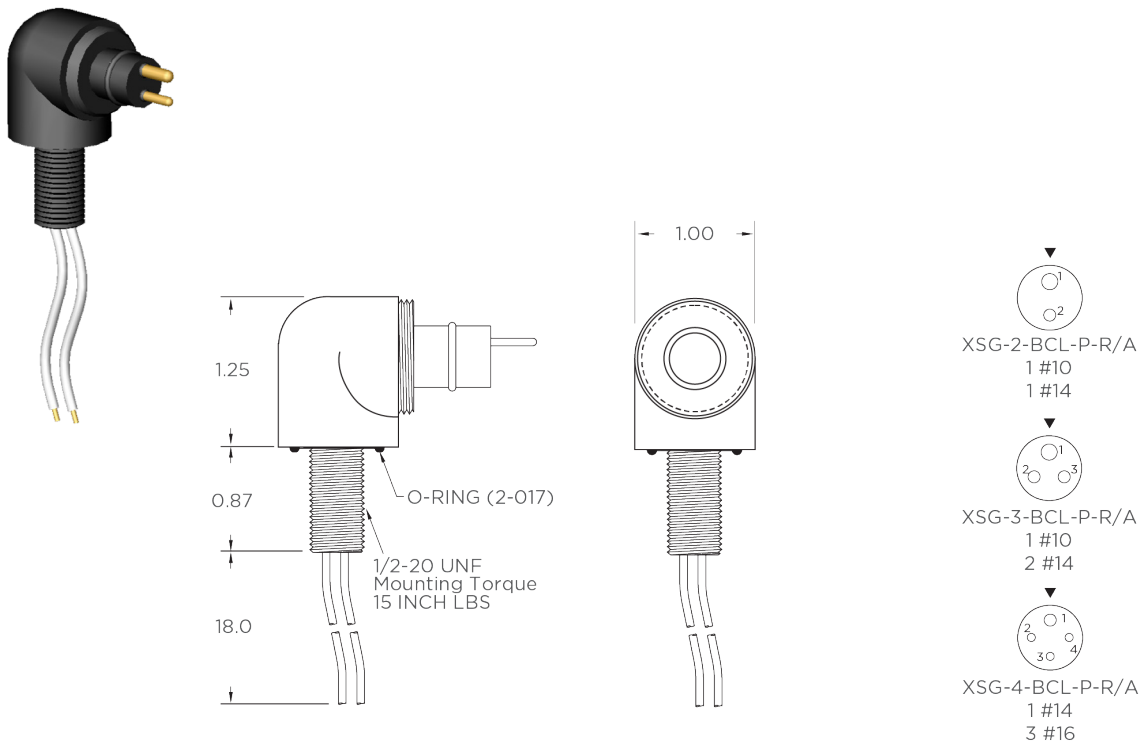


# RMG-FS & Associated Parts

## Mateable Bulkhead Connectors

### XSG-BCL-P-R/A

A non-metallic low profile right angle bulkhead connector featuring a locking sleeve provision and utilizing a facial o-ring seal to the bulkhead.



**Material:** Glass Reinforced Epoxy

**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488

**Pigtails:** Polyacetal insulated #18 AWG

**Mated Pressure Rating:** Up to 20,000 psi

**Dummy Connector:** RMG-FSD

**Note:**

- Torque values referenced in this literature assume installation into dry metal threads. Please contact TE for recommendations.

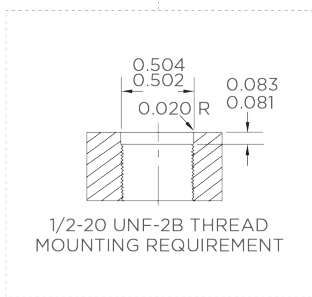
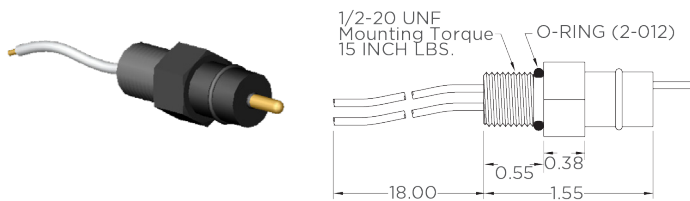


# RMG-FS & Associated Parts

## Mateable Bulkhead Connectors

### XSG-PBC

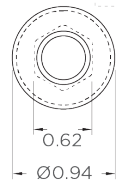
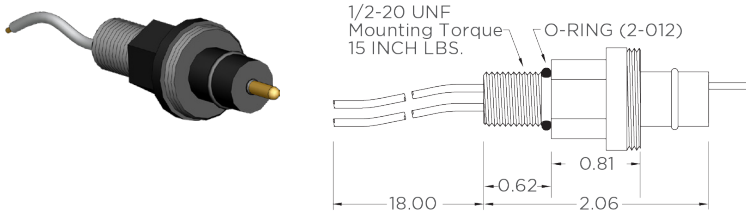
Small footprint non-metallic connector utilizing an o-ring in the thread relief area to seal to the bulkhead.



- <sup>1</sup>
- XSG-1-PBC
- XSG-1-PBCL
- XSG-1-PBCLM
- 1 #10

### XSG-PBCL

Small footprint non-metallic connector utilizing an o-ring in the thread relief area to seal to the bulkhead. Features a locking sleeve provision.

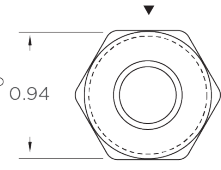
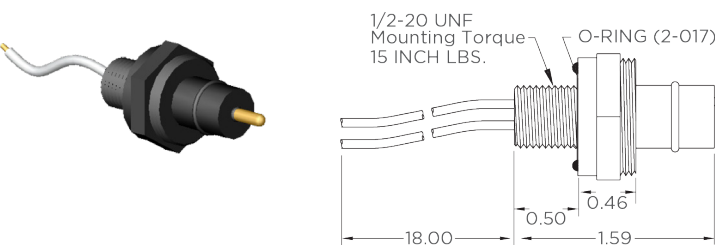


- <sup>1</sup>
- <sup>2</sup>
- XSG-2-PBC
- XSG-2-PBCL
- XSG-2-PBCLM
- 1 #10
- 1 #14

- <sup>1</sup>
- <sup>2</sup>
- <sup>3</sup>
- XSG-3-PBC
- XSG-3-PBCL
- XSG-3-PBCLM
- 1 #10
- 2 #14

### XSG-PBCLM

Non-metallic connector utilizing a facial o-ring seal to the bulkhead. Features a locking sleeve provision.



- <sup>1</sup>
- <sup>2</sup>
- <sup>3</sup>
- <sup>4</sup>
- XSG-4-PBC
- XSG-4-PBCL
- XSG-4-PBCLM
- 1 #14
- 3 #16

- Material:** Glass Reinforced Epoxy
- Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488
- Pigtails:** Polyacetal insulated #18 AWG
- Mated Pressure Rating:** Up to 5,000 psi
- Dummy Connector:** RMG-FSD

**Note:**

- Torque values referenced in this literature assume installation into dry metal threads. Please contact TE for recommendations.

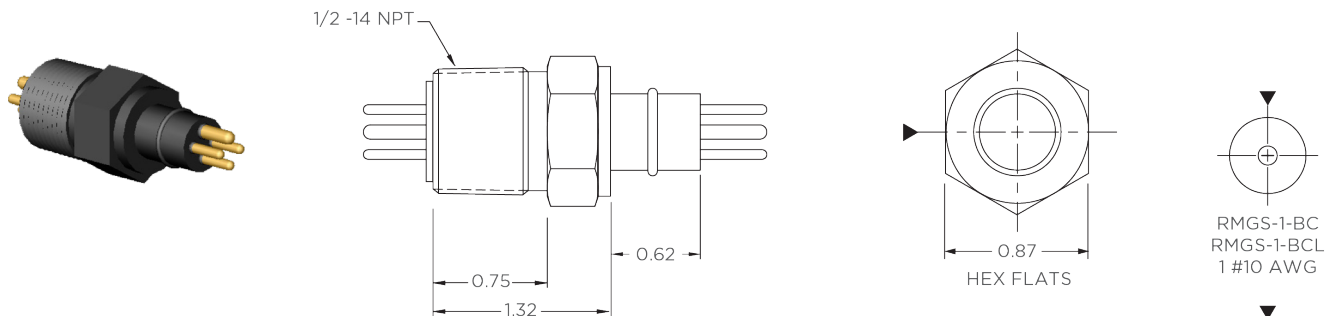


# RMG-FS & Associated Parts

## Mateable Bulkhead Connectors

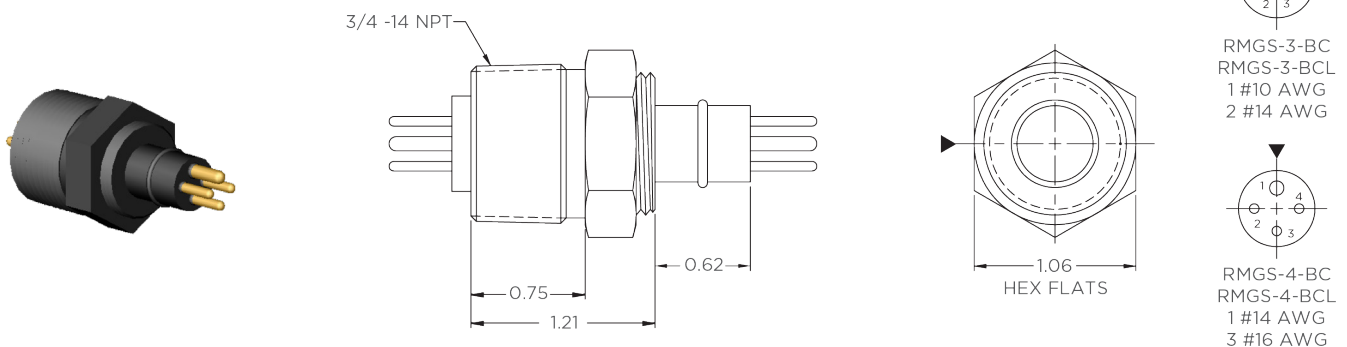
### RMGS-BC

Features a stainless steel body, insulating neoprene, and pipe thread for sealing to bulkhead. No o-ring required for sealing.



### RMGS-BCL

Features a stainless steel body, insulating neoprene, and pipe thread for sealing to bulkhead. No o-ring required for sealing. Features a locking sleeve provision.



**Material:** 316 Stainless Steel

**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488

**Mated Pressure Rating:** Up to 5,000 psi

**Dummy Connector:** RMG-FSD

**Note:**

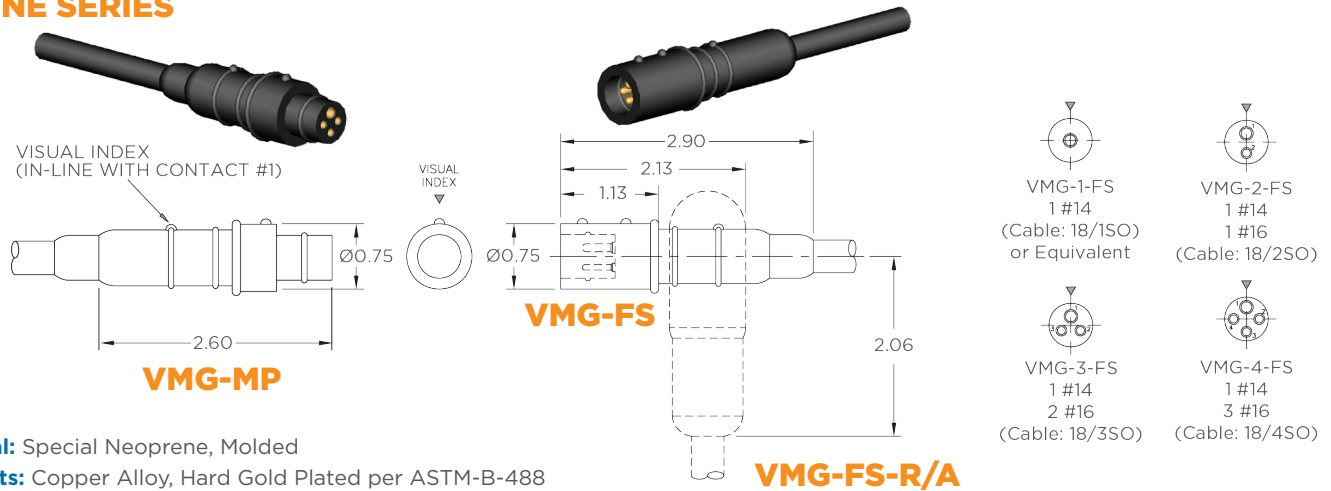
- Torque values referenced in this literature assume installation into dry metal threads. Please contact TE for recommendations.



# VMG-FS & Associated Parts

Reversed Rubber Molded

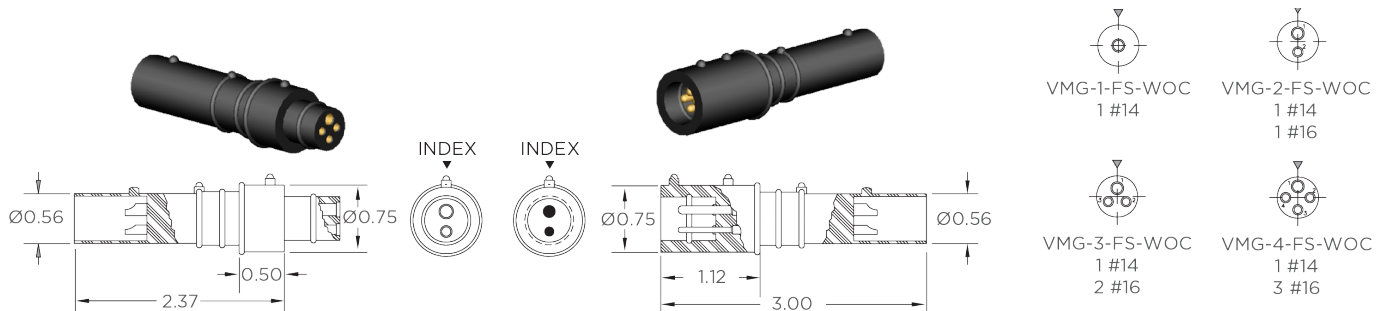
## IN-LINE SERIES



**Material:** Special Neoprene, Molded  
**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488  
**Voltage:** 600 VDC. Contact TE for higher voltage requirements  
**Mated Pressure Rating:** Up to 20,000 psi

## WOC CONNECTORS - VMG-FS-WOC, VMG-MP-WOC

WOC stands for “without cable.” The connectors are supplied as shown below for installation in the field and/or to non-neoprene jacketed cables. Bonding can be achieved by molding to the connectors shown using polyurethane with appropriate primers.



**Material:** Special Neoprene, Molded  
**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488  
**Voltage:** 600 VDC. Contact TE for higher voltage requirements  
**Mated Pressure Rating:** Up to 20,000 psi

Locking Sleeve	Available For	Dummy Connector	Mates To
G-MLS-D	VMG-MP, VMG-MP-WOC	VMG-FSD	VMG-MP
G-FLS-D	VMG-FS, VMG-FS-R/A, VMG-FS WOC	VMG-MPD	VMG-FS & VMG-FS-R/A & VMG-FS WOC
G-FLS-X*	VMG-FS		

**Note:**

- \* Must specify cable OD.

- Specify number of conductors when ordering
- Material:** Special Neoprene, molded
- Mated Pressure Rating:**
  - VMG-MPD: 20,000 psi
  - VMG-FSD-HP: High Pressure, 4,000-20,000 psi, contact required
  - VMG-FSD-LP: Low Pressure, ≤ 4,000 psi, no contact required

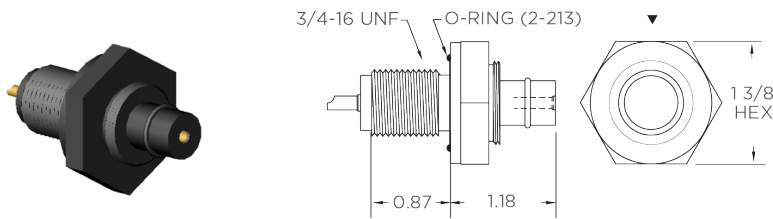


# VMG-FS & Associated Parts

## Mateable Bulkhead Connectors

### VMG-BCL

Special insulating neoprene is permanently molded to the metal shell. These types of connectors are used where physical abuse may be too great for the non-metallic (glass reinforced epoxy) series. The VMG-BCL features a locking sleeve provision and utilizes a facial o-ring seal to the bulkhead.



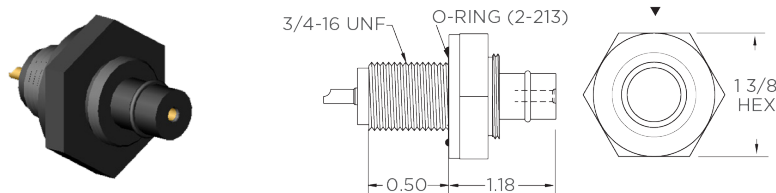
**Material:** 316 Stainless Steel, Internal Insulation-Special Neoprene  
**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488  
**Mated Pressure Rating:** Up to 20,000 psi  
**Dummy Connector:** VMG-FSD

VMG-1-BCL  
 VSG-1-BCL  
 VSG-1-BCL LT  
 1 #14

VMG-2-BCL  
 VSG-2-BCL  
 VSG-2-BCL LT  
 1 #14  
 1 #16

### VSG-BCL

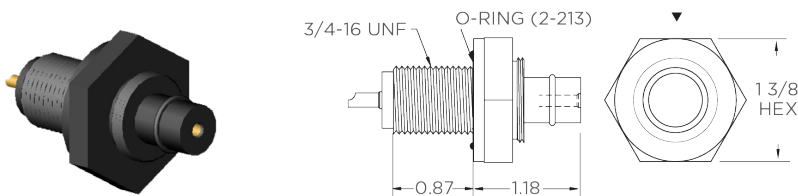
One of our oldest connectors in the non-metallic series, with female sockets as shown. Connector is one homogeneously molded unit available with different thread lengths as indicated. The VSG-BCL features a locking sleeve provision and utilizes a facial o-ring seal to the bulkhead.



VMG-3-BCL  
 VSG-3-BCL  
 VSG-3-BCL LT  
 1 #14  
 2 #16

VMG-4-BCL  
 VSG-4-BCL  
 VSG-4-BCL LT  
 1 #14  
 3 #16

### VSG-BCL-LT



**Material:** Glass Reinforced Epoxy  
**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488  
**Mated Pressure Rating:** Up to 20,000 psi  
**Dummy Connector:** VMG-FSD

**Note:**

- Torque values referenced in this literature assume installation into dry metal threads. Please contact TE for recommendations.



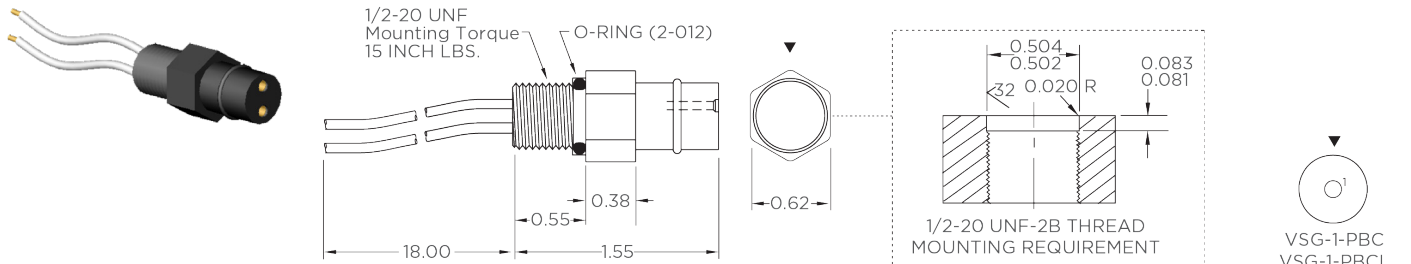


# VMG-FS & Associated Parts

## Mateable Bulkhead Connectors

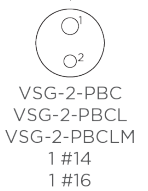
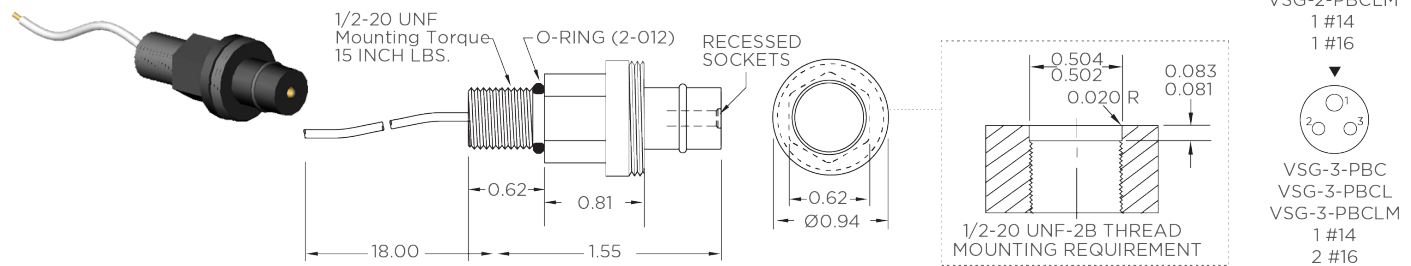
### VSG-PBC

Non-Metallic connector utilizing an o-ring in the thread relief area to seal the bulkhead.



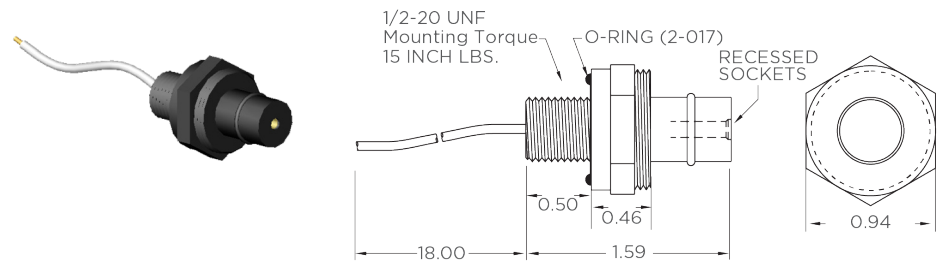
### VSG-PBCL

Non-metallic connector that features a locking sleeve provision and utilizes an o-ring in the thread relief area to seal to the bulkhead.



### VSG-PBCLM

Non-Metallic connector featuring a locking sleeve provision. VSG-PBCLM utilizes a facial o-ring seal to the bulkhead.



- Material:** Glass Reinforced Epoxy
- Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488
- Pigtails:** Polyacetal insulated #18 AWG
- Mated Pressure Rating:** Up to 5,000 psi
- Dummy Connector:** VMG-FSD

**Note:**

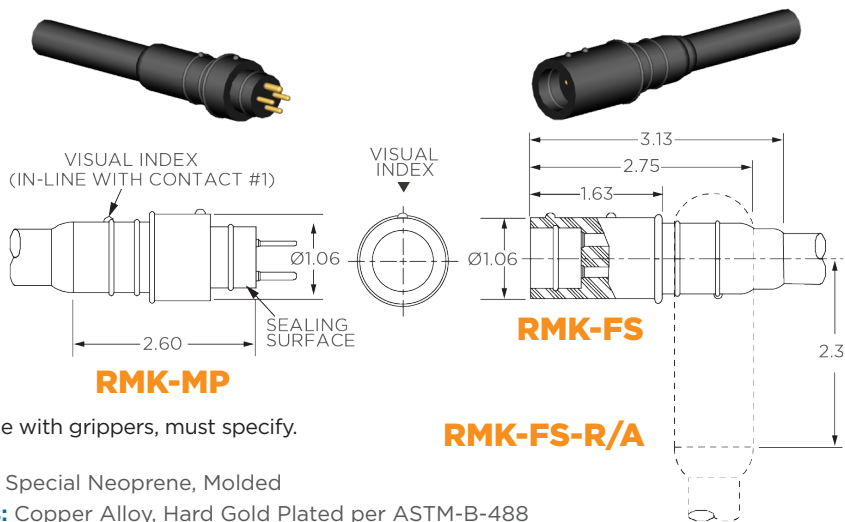
- Torque values referenced in this literature assume installation into dry metal threads. Please contact TE for recommendations.



# RMK-FS & Associated Parts

Standard Rubber Molded

## IN-LINE SERIES



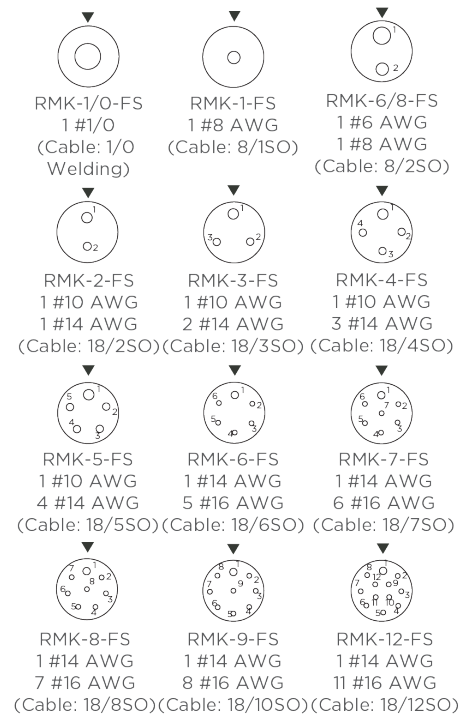
• Available with grippers, must specify.

**Material:** Special Neoprene, Molded

**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488

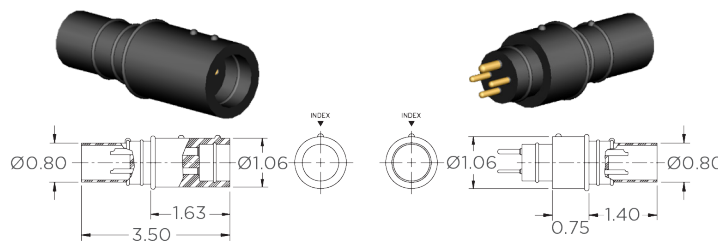
**Voltage Rating:** 600 VDC. Contact TE for higher voltage requirements

**Mated Pressure Rating:** Up to 20,000 psi



## WOC CONNECTORS - RMK-FS-WOC, RMK-MP-WOC

WOC stands for “without cable.” The connectors are supplied as shown below for installation in the field and/or to non-neoprene jacketed cables, Bonding can be achieved by molding to the connectors shown using polyurethane with appropriate primers.

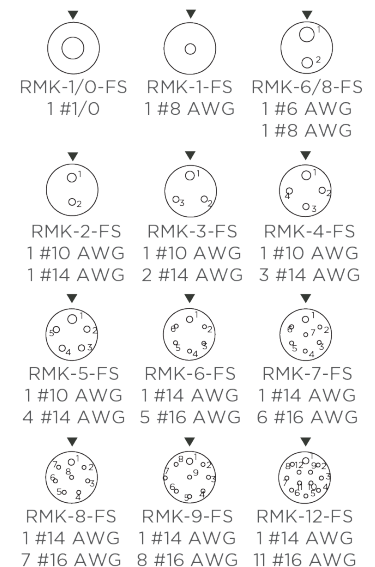


**Material:** Special Neoprene, Molded

**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488

**Voltage Rating:** 600 VDC. Contact TE for higher voltage requirements

**Mated Pressure Rating:** Up to 20,000 psi



Locking Sleeve	Available For
K-MLS-D / K-MLS-S	RMK-MP, RMK-MP-WOC
K-FLS-D / K-FLS-S	RMK-FS, RMK-FS -R/A, RMK-FS-WOC
K-FLS-X*	RMK-FS

Dummy Connector	Mates To
RMK-FSD	RMK-MP
RMK-MPD	RMK-FS & RMK-FS-R/A & RMK-FS-WOC

• Specify number of conductors when ordering

**Material:** Special Neoprene, molded

**Mated Pressure Rating:**

- RMK-FSD: 20,000 psi
- RMK-MPD-HP: High Pressure, 4,000-20,000 psi, contact required
- RMK-MPD-LP: Low Pressure, ≤ 4,000 psi, no contact required

**Note:**

• \* Must specify cable OD.

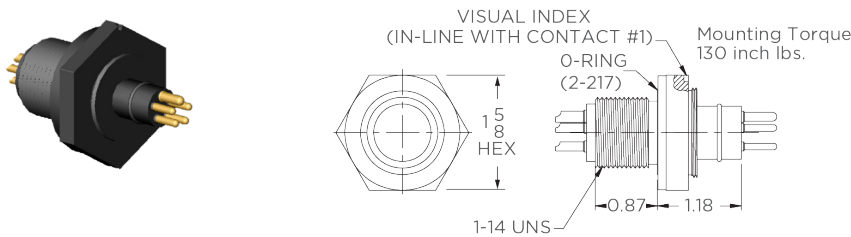


# RMK-FS & Associated Parts

## Mateable Bulkhead Connectors

### RMK-BCL

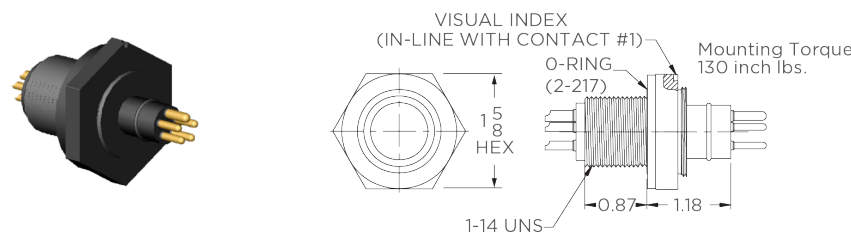
Special Insulating neoprene is permanently molded to the metal shell. These types of connectors are used where physical abuse may be too great for the non-metallic (glass reinforced epoxy) series. The RMK-BCL has a locking sleeve provision and utilizes a facial O-ring seal to the bulkhead.



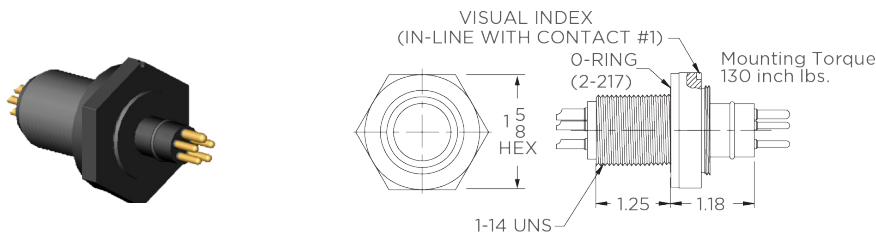
**Material:** 316 Stainless Steel, Internal Insulation-Special Neoprene  
**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488  
**Mated Pressure Rating:** Up to 20,000 psi  
**Dummy Connector:** RMK-FSD

### XSK-BCL

One of our oldest connectors in the non-metallic series, with male pin as shown. Connector is one homogeneously molded unit available with different thread lengths as indicated. The XSK-BCL has a locking sleeve provision and utilizes a facial o-ring seal to the bulkhead.



### XSK-BCL-LT



**Material:** Glass Reinforced Epoxy  
**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488  
**Mated Pressure Rating:** Up to 20,000 psi  
**Dummy Connector:** RMK-FSD

**Note:**

- Torque values referenced in this literature assume installation into dry metal threads. Please contact TE for recommendations.

XSK-1/0-BCL 1 #1/0	RMK-1-BCL XSK-1-BCL 1 #8 AWG
RMK-6/8-BCL XSK-6/8-BCL 1 #6 AWG 1 #8 AWG	RMK-2-BCL XSK-2-BCL 1 #10 AWG 1 #14 AWG
RMK-3-BCL XSK-3-BCL 1 #10 AWG 2 #14 AWG	RMK-4-BCL XSK-4-BCL 1 #10 AWG 3 #14 AWG
RMK-5-BCL XSK-5-BCL 1 #10 AWG 4 #14 AWG	RMK-6-BCL XSK-6-BCL 1 #14 AWG 5 #16 AWG
RMK-7-BCL XSK-7-BCL 1 #14 AWG 6 #16 AWG	RMK-8-BCL XSK-8-BCL 1 #14 AWG 7 #16 AWG
RMK-9-BCL XSK-9-BCL 1 #14 AWG 8 #16 AWG	RMK-12-BCL XSK-12-BCL 1 #14 AWG 11 #16 AWG

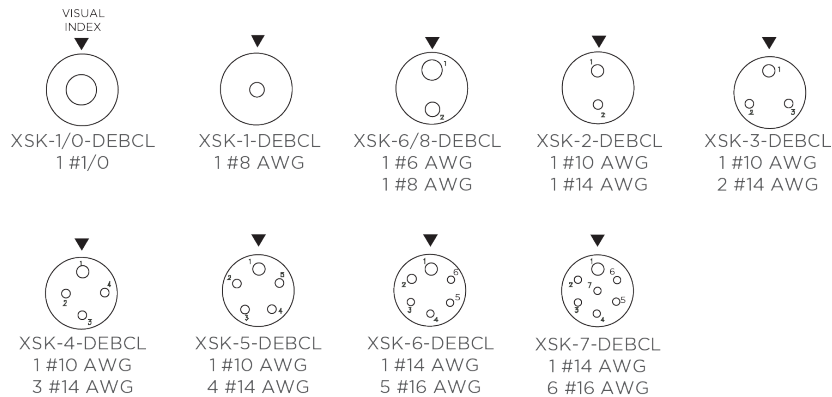
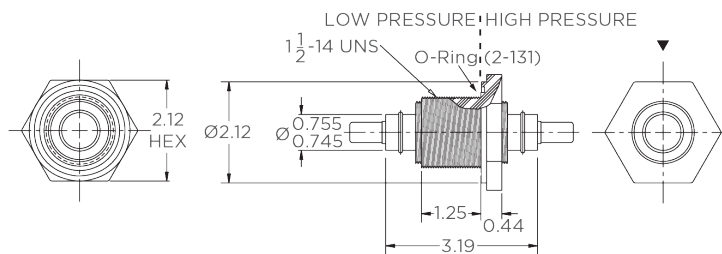


# RMK-FS & Associated Parts

## Mateable Bulkhead Connectors

### XSK-DEBCL

A non-metallic double ended connector which accepts a mating connector on either end. The same locking sleeve also mates to both ends. This connector utilizes a facial o-ring seal to the bulkhead.



**Material:** Glass Reinforced Epoxy

**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488

**Mated Pressure Rating:** Up to 20,000 psi

**Dummy Connector:** RMK-FSD

**Note:**

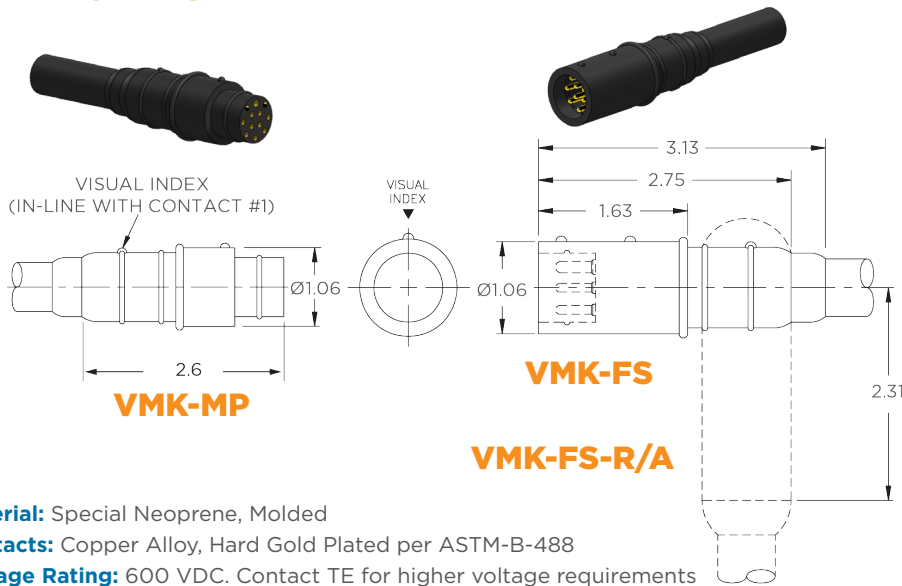
- Torque values referenced in this literature assume installation into dry metal threads. Please contact TE for recommendations.



# VMK-FS & Associated Parts

Reversed Rubber Molded

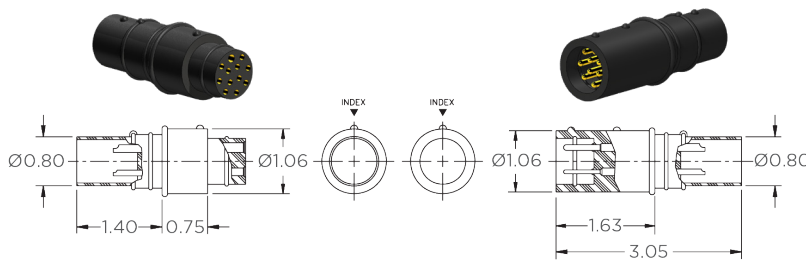
## IN-LINE SERIES



**Material:** Special Neoprene, Molded  
**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488  
**Voltage Rating:** 600 VDC. Contact TE for higher voltage requirements  
**Mated Pressure Rating:** Up to 20,000 psi

## WOC CONNECTORS - VMK-FS-WOC, VMK-MP-WOC

WOC stands for “without cable.” The connectors are supplied as shown below for installation in the field and/or to non-neoprene jacketed cables, Bonding can be achieved by molding to the connectors shown using polyurethane with appropriate primers.

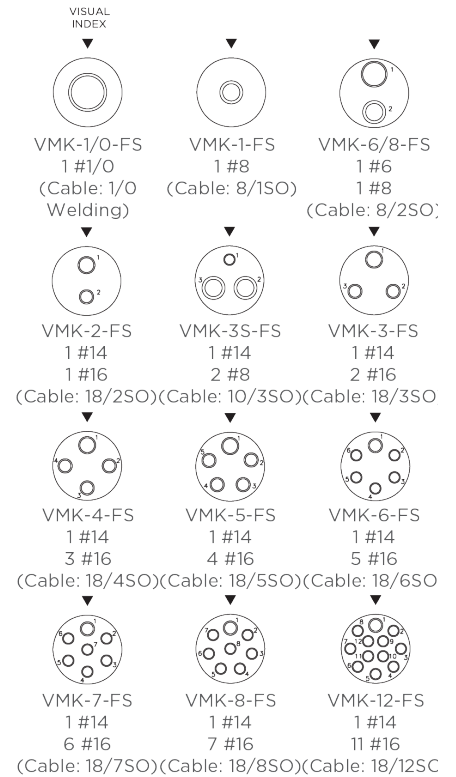


**Material:** Special Neoprene, Molded  
**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488  
**Voltage Rating:** 600 VDC. Contact TE for higher voltage requirements  
**Mated Pressure Rating:** Up to 20,000 psi

Locking Sleeve	Available For	Dummy Connector	Mates To
K-MLS-D	VMK-MP, VMK-MP-WOC	VMK-FSD	VMK-MP
K-FLS-D	VMK-FS, VMK-FS-R/A, VMK-FS-WOC	VMK-MPD	VMK-FS & VMK-FS-R/A

**Note:**

• \* Must specify cable OD.



- Specify number of conductors when ordering
- Material:** Special Neoprene, molded
- Mated Pressure Rating:**
  - VMK-MPD: 20,000 psi
  - VMK-FSD-HP: High Pressure, 4,000-20,000 psi, contact required
  - VMK-FSD-LP: Low Pressure, ≤ 4,000 psi, no contact required

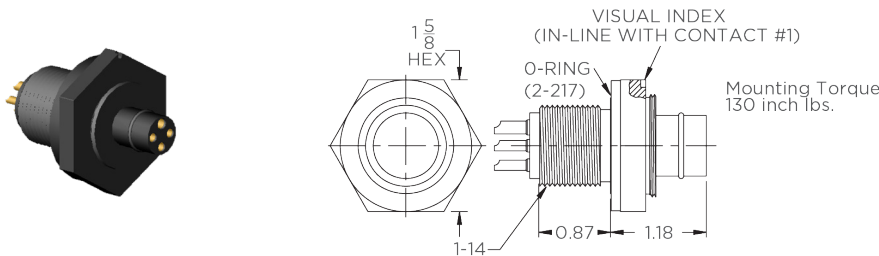


# VMK-FS & Associated Parts

## Mateable Bulkhead Connectors

### VMK-BCL

Special Insulating neoprene is permanently molded to the metal shell. These types of connectors are used where physical abuse may be too great for the non-metallic (glass reinforced epoxy) series. The VMK-BCL has a locking sleeve provision and utilizes a facial o-ring seal to the bulkhead.



**Material:** 316 Stainless Steel, Internal Insulation-Special Neoprene

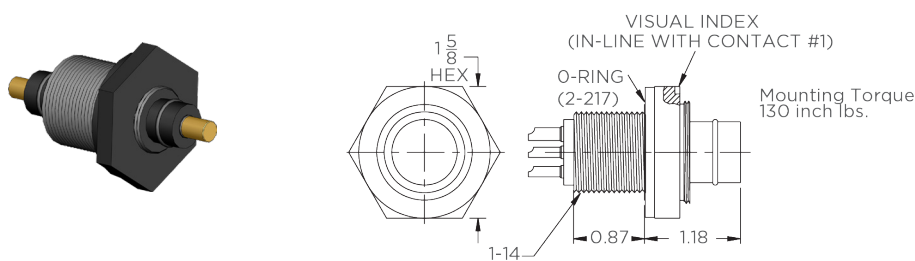
**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488

**Mated Pressure Rating:** Up to 20,000 psi

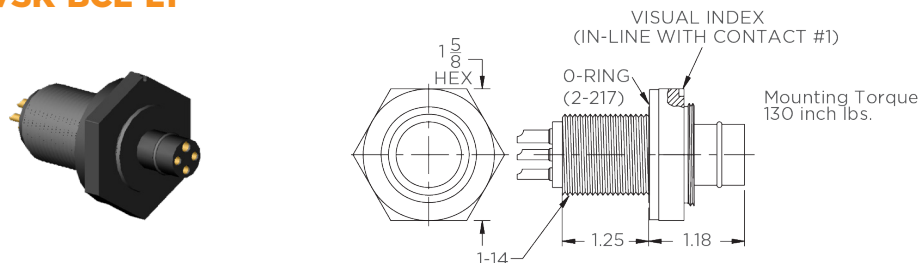
**Dummy Connector:** VMK-FSD

### VSK-BCL

One of our oldest connectors in the non-metallic series, with male pin as shown. Connector is one homogeneously molded unit available with different thread lengths as indicated. The VSK-BCL has a locking sleeve provision and utilizes a facial o-ring seal to the bulkhead.



### VSK-BCL-LT



**Material:** Glass Reinforced Epoxy

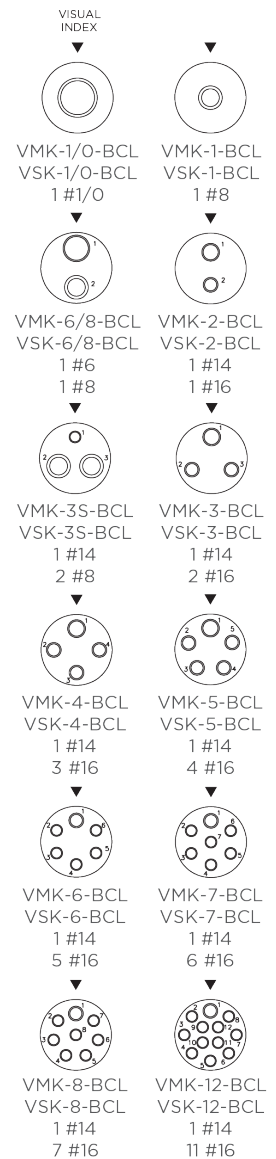
**Contacts:** Copper Alloy, Hard Gold Plated per ASTM-B-488

**Mated Pressure Rating:** Up to 20,000 psi

**Dummy Connector:** VMK-FSD

**Note:**

- Torque values referenced in this literature assume installation into dry metal threads. Please contact TE for recommendations.

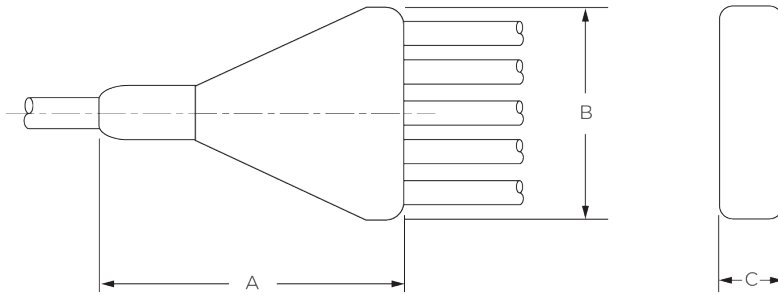




# Special Assemblies

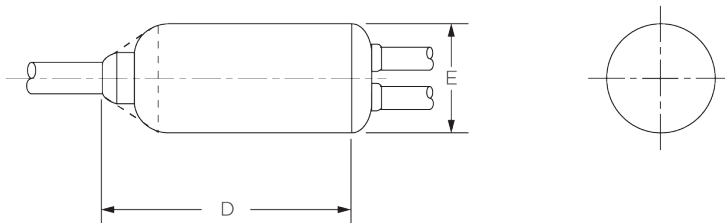
## Cable Molds and Cable Splices

### WYE MOLDS



Available Molds	A (in)	B (In)	C (In)
Y-30	2 3/4	1 5/8	5/8
Y-40	4 7/8	3 1/2	1
Y-50	6 3/4	4	1 1/2
Y-70	9 1/2	5 1/2	2

### BARREL MOLDS



Available Molds	D (in)	E (In)
B-30	2	1 1/4
B-40	4	1 3/4
B-50	6 1/2	2 3/4
B-70	8 1/2	3 1/2

**Material:** Neoprene Molding per B/A X-5727 or Polyurethane; Black per MIL-M-24041

**Note:**

- Length and geometric shape may vary depending on cable diameter.

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