



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.

TE Components . . . TE Technology . . . TE Know-how . . .

AMP | AGASTAT | CII | HARTMAN | KILOVAC | MICRDOT | NANONICS | POLAMCO | Raychem

SEACON | Rochester | DEUTSCH

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APPLICATION

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

- **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

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

MATERIALS

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

MAINTENANCE

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 contaminates. 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 ensures 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 contaminates until ready to mate.

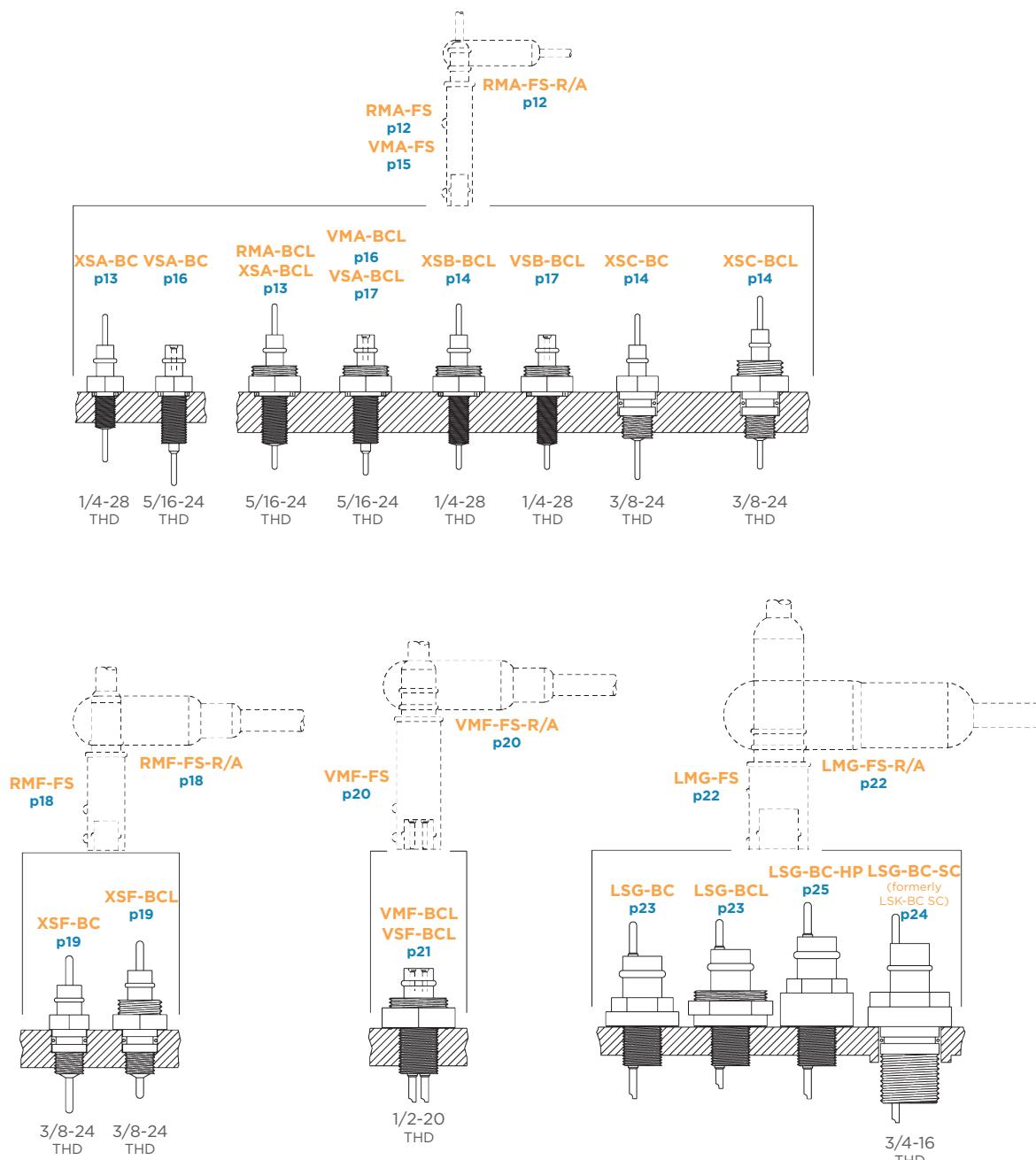
INSTALLATION & TORQUE OPERATIONS

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.



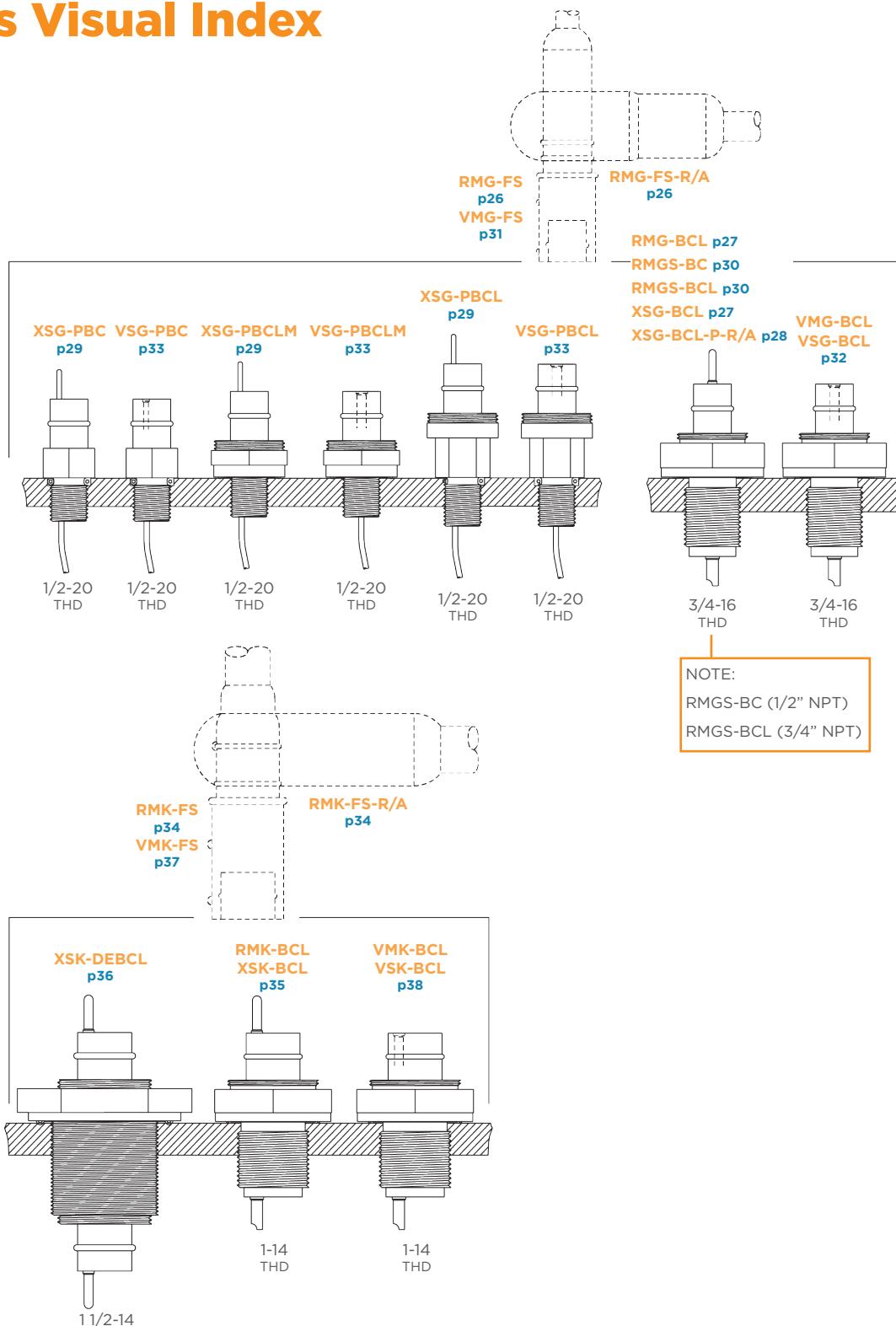
Rubber Molded Bulkhead Connector Mates Visual Index


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-MP	RMA-BCL	XSA-BC, XSA-BCL
RMA-FS-R/A	RMA-MP-SL		XSB-BCL
RMA-FS-SL			XSC-BC, XSC-BCL
VMA-FS	VMA-MP	VMA-BCL	VSA-BC, VSA-BCL
VMA-FS-R/A			VS _B -BCL
VMA-FS-SL	VMA-MP-SL		
RMF-FS	RMF-MP	N/A	XSF-BC, XSF-BCL
RMF-FS R/A			XSFDE-BCL (Formerly XSDE-BCL)
VMF-FS	VMF-MP	VMF-BCL	VSF-BCL
VMF-FS-R/A			
LMG-FS	LMG-MP	N/A	LSG-BC, LSG-BCL LSG-BC-HP
LMG-FS-R/A			LSG-BC-SC (Formerly LSK-BC-SC)
RMG-FS	RMG-MP	RMG-BCL	XSG-BCL, XSG-BCL-P-R/A
LMG-FS-R/A		RMGS-BC	XSG-PBC, XSG-PBCL, XSG-PBCLM
RMG-FS-WOC	RMG-MP-WOC	RMGS-BCL	
VMG-FS	VMG-MP	VMG-BCL	VSG-BCL
VMG-FS-R/A			VSG-PBC, VSG-PBCL, VSG-PBCLM
VMG-FS-WOC	VMG-MP-WOC		
RMK-FS	RMK-MP	RMK-BCL	XSK-BCL
RMK-FS-R/A			XSKDE-BCL
RMK-FS-WOC	RMK-MP-WOC		
VMK-FS	VMK-MP	VMK-BCL	VSK-BCL
VMK-FS-R/A			
VMK-FS-WOC	VMK-MP-WOC		



Rubber Molded Connectors

Ordering Information

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

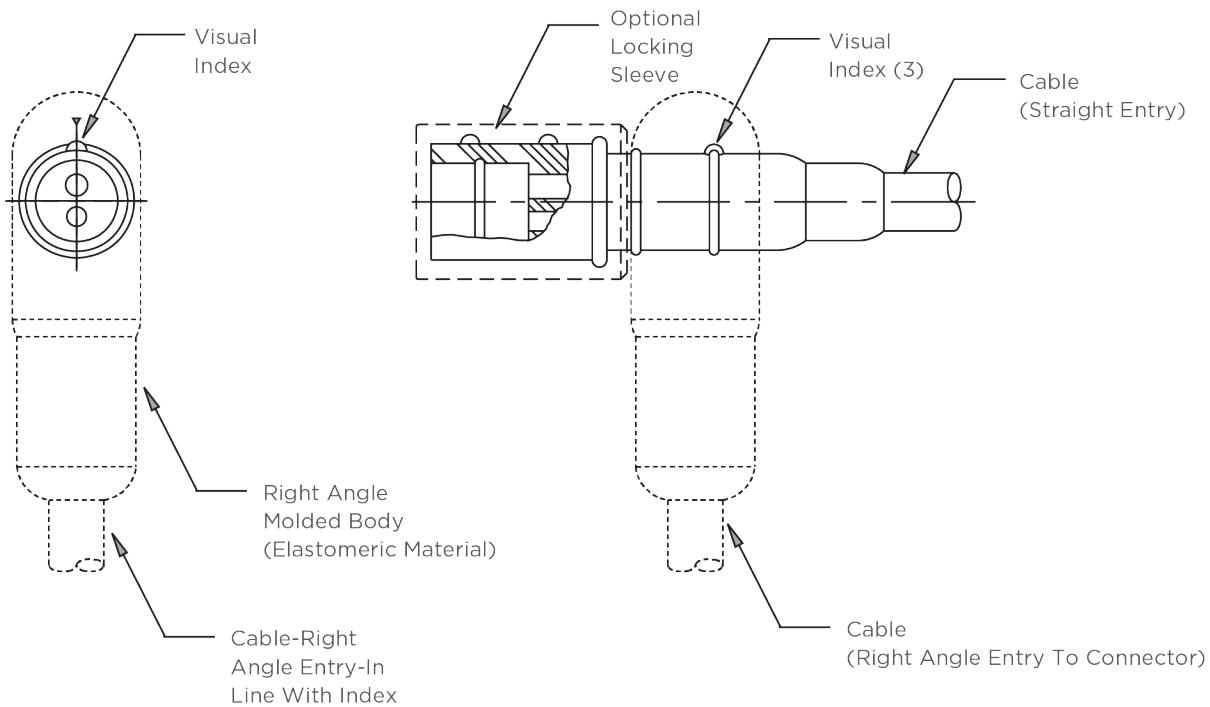
TH Thermistor Housing

RMX - X - XX - XX



Typical Right Angle and Straight Connector Indexing

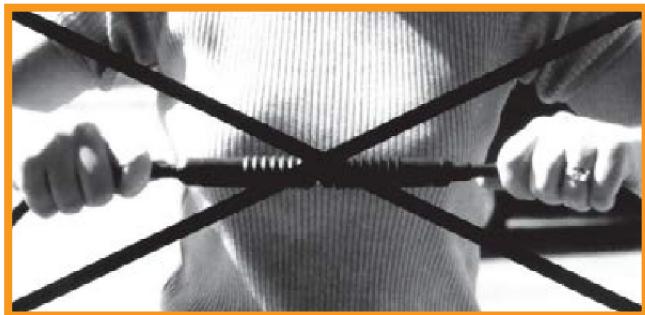
In the case of right angle connectors, the cable is always perpendicular to the index, as shown.



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

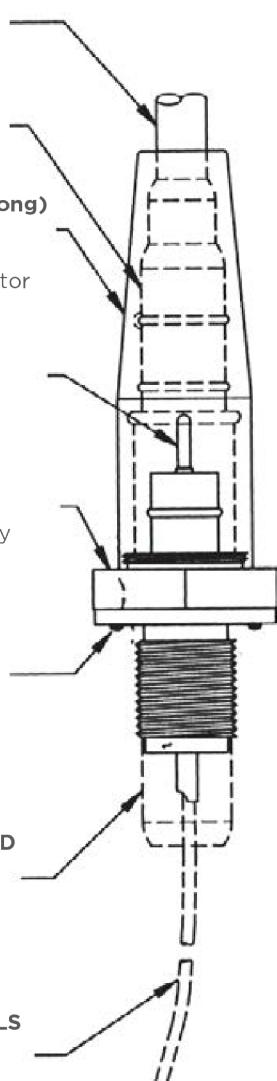
Buna N, 70 Durometer is standard. O-Rings supplied with all connectors. All O-Rings must be lubricated with a thin film of silicon or DC grease.

OPTIONAL WATER TIGHT MOLD

Polyurethane usually used; neoprene optional (molded) To specify pigtailed 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

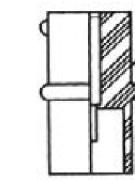
For use with straight or right

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:

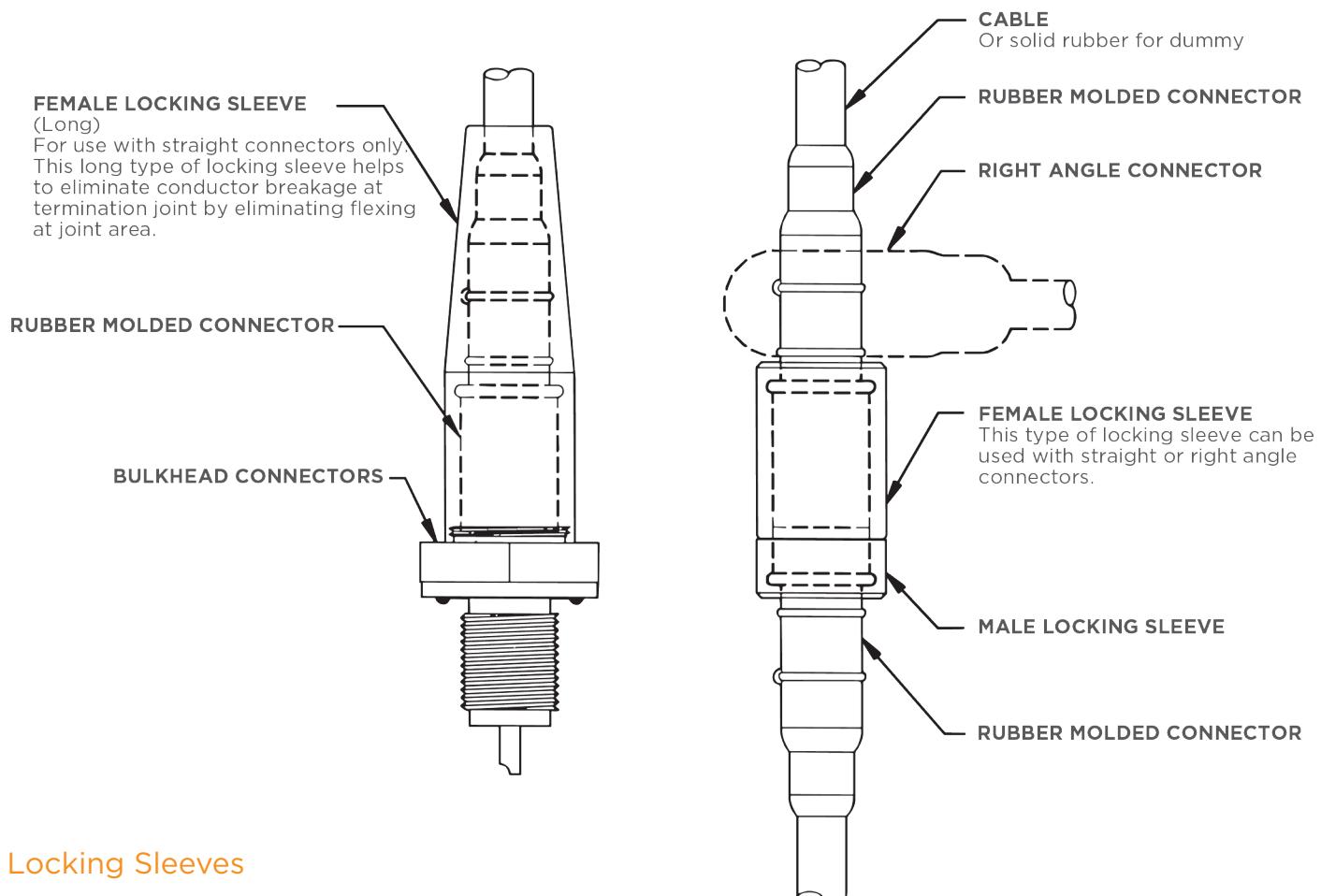
- Torque values referenced in this literature assume installation into dry metal threads. Please contact TE for recommendations.



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 assist 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

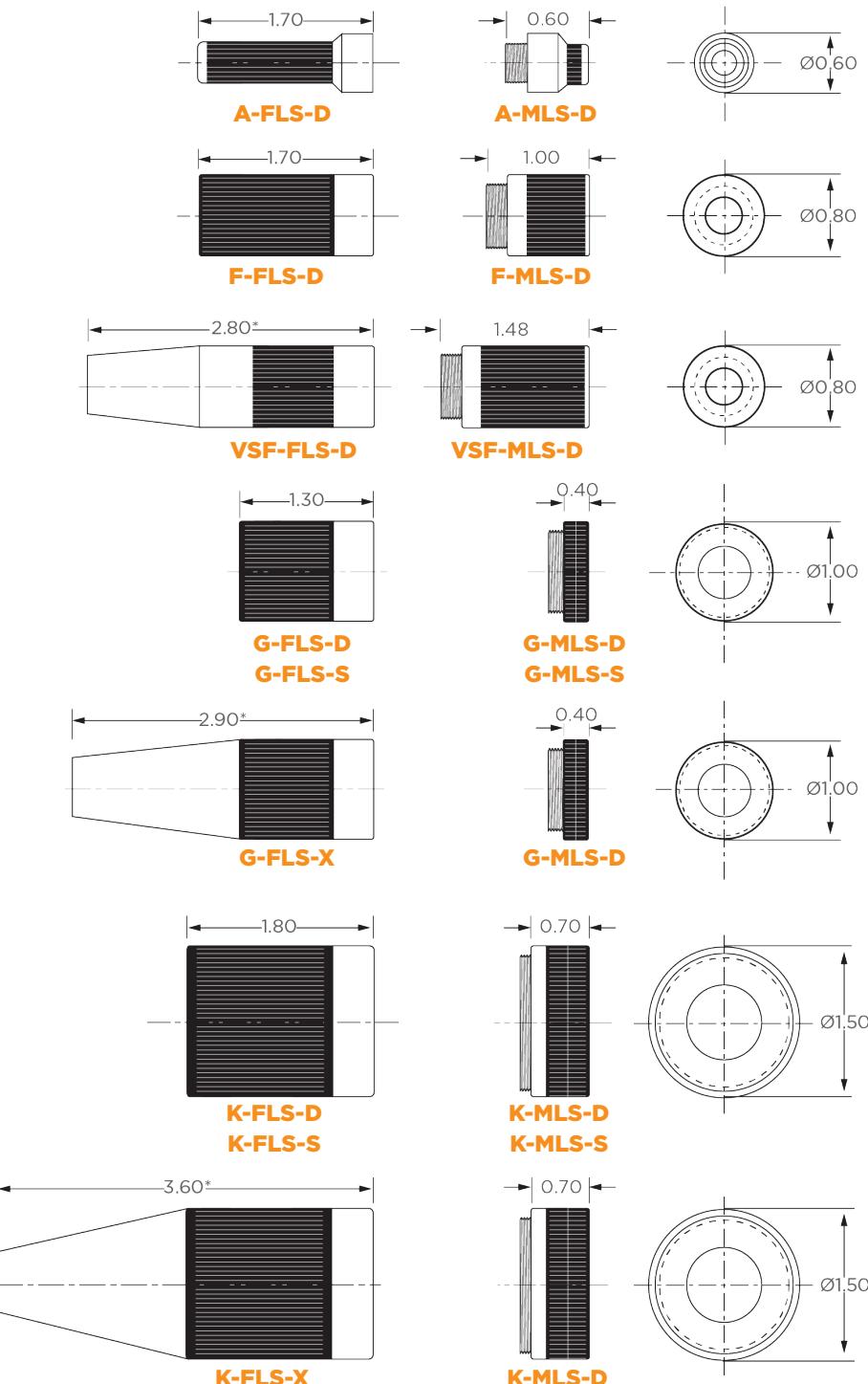
TI Titanium

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:

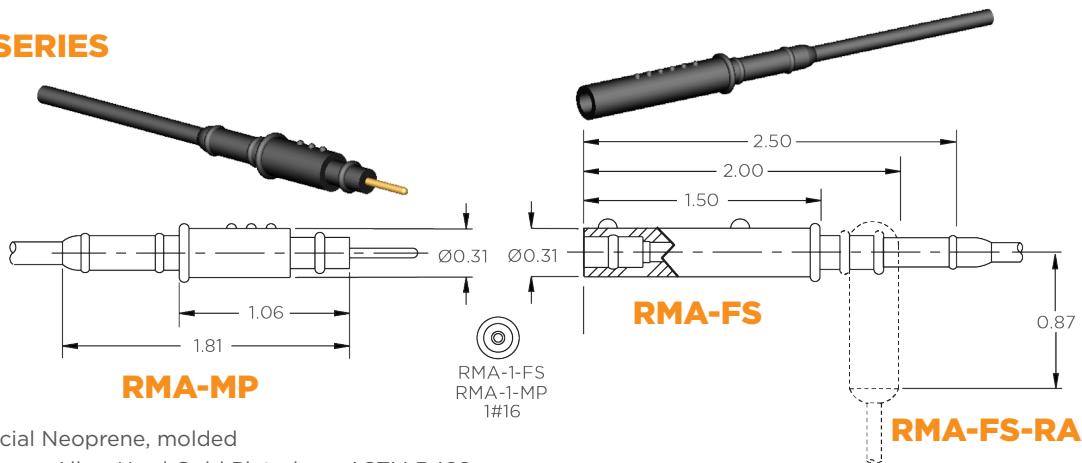
* VSF-FLS-D, G-FLS-X, K-FLS-X length will vary, depending on cable diameter.



RMA-FS and Associated Parts

Standard Rubber Molded

IN-LINE SERIES



Material: Special Neoprene, molded

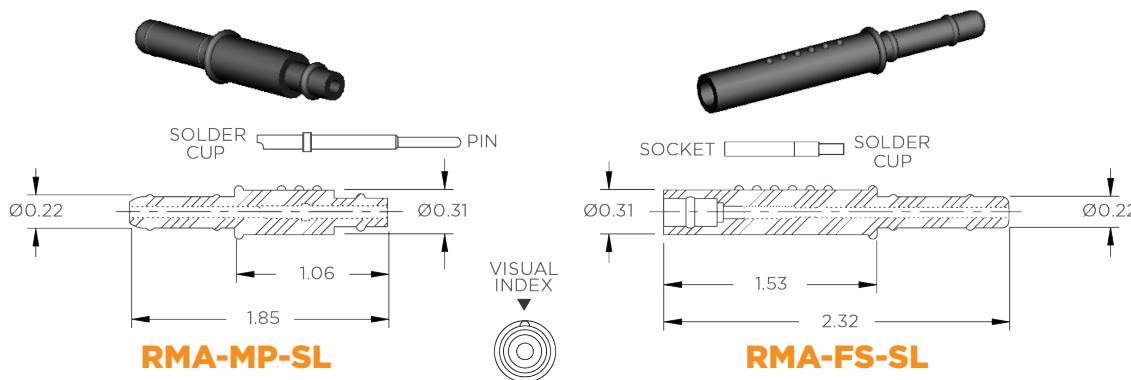
Contacts: Copper Alloy, Hard Gold Plated per ASTM B488

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	Dummy Connector	Mates To
A-MLS-D	RMA-MP, RMA-MP-SL	RMA-FSD	RMA-MP
A-FLS-D	RMA-FS, RMA-FS-R/A, RMA-MP-SL	RMA-MPD-LP/HP	RMA-FS & RMA-FS-R/A

Note:

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

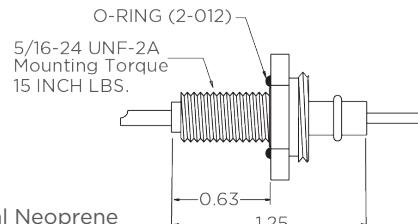


RMA-FS and Associated Parts

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

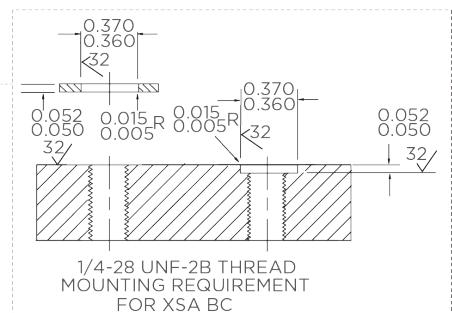
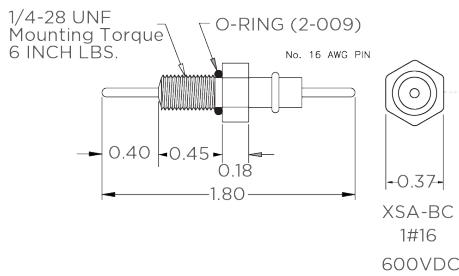
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488

Mated Pressure Rating: Up to 20,000 psi

Dummy Connector: RMF-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

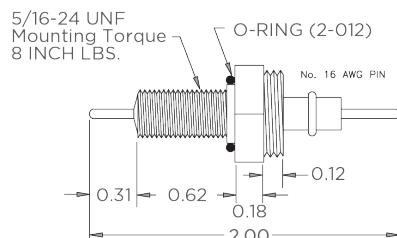
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488

Mated Pressure Rating: Up to 20,000 psi

Dummy Connector: RMF-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.



Material: Glass Reinforced Epoxy

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

Mated Pressure Rating: Up to 20,000 psi

Dummy Connector: RMF-FSD

Note:

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

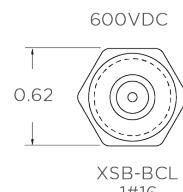
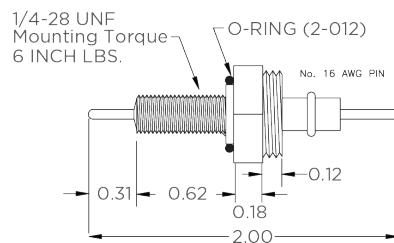


RMA-FS and Associated Parts

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

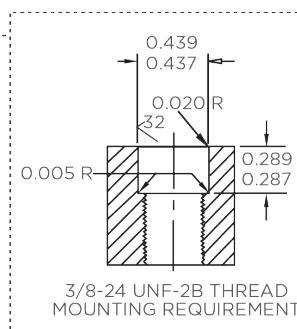
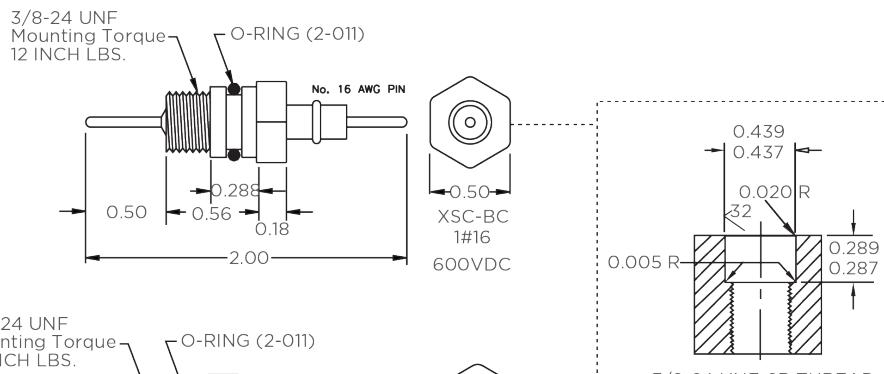
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488

Mated Pressure Rating: Up to 20,000 psi

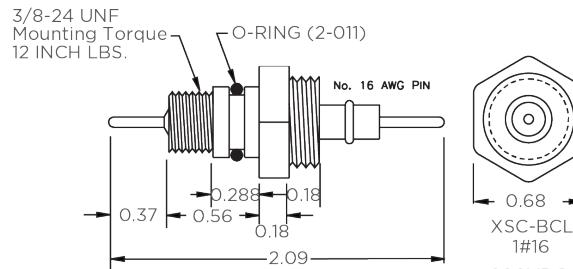
Dummy Connector: RMF-FSD

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:

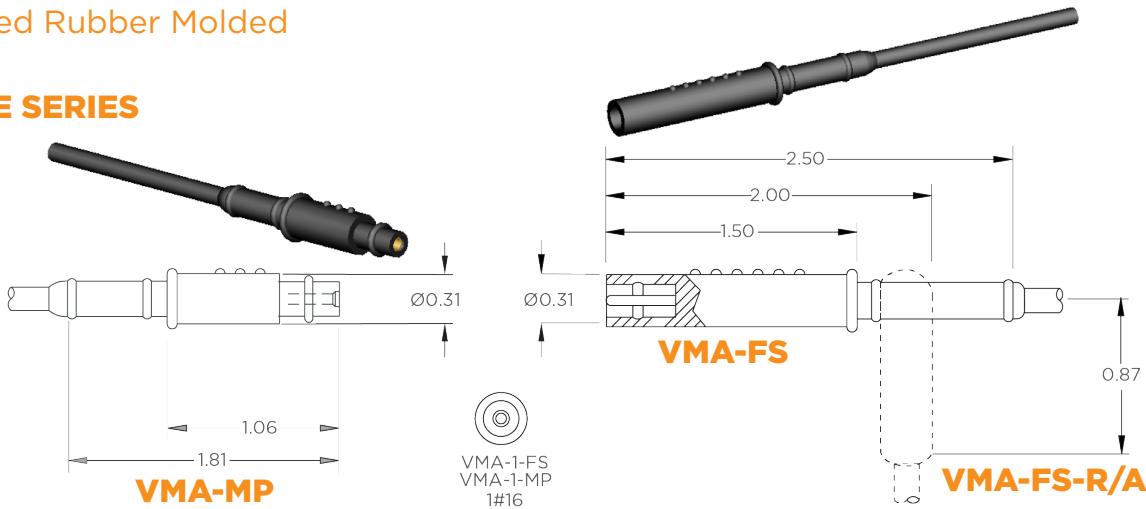
- Torque values referenced in this literature assume installation into dry metal threads. Please contact TE for recommendations.



VMA-FS and Associated Parts

Reversed Rubber Molded

IN-LINE SERIES



Material: Special Neoprene, Molded

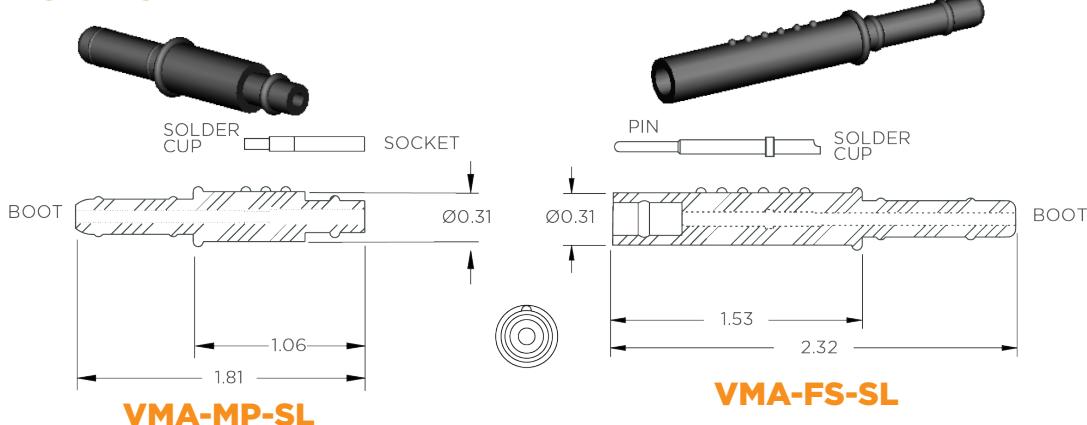
Contacts: Copper Alloy, Hard Gold Plated per ASTM B488

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.

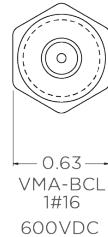
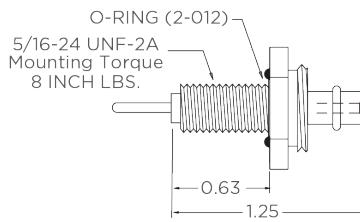


VMA-FS and Associated Parts

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

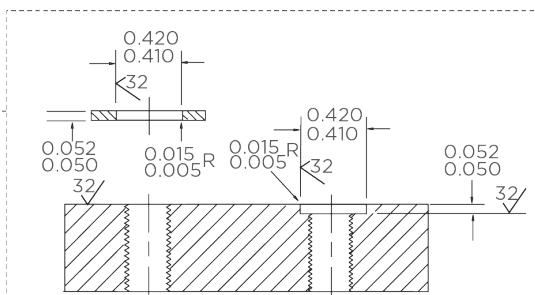
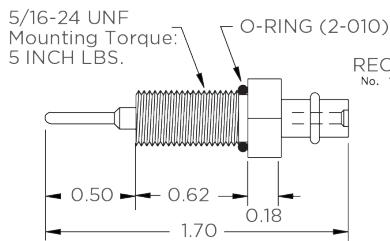
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488

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.

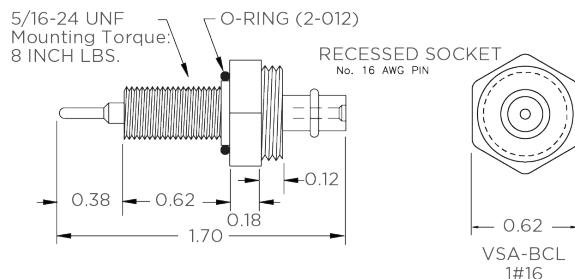


VMA-FS and Associated Parts

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

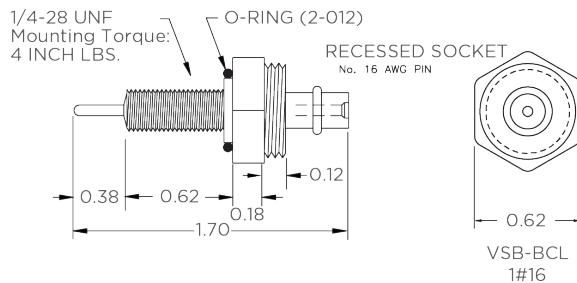
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488

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:

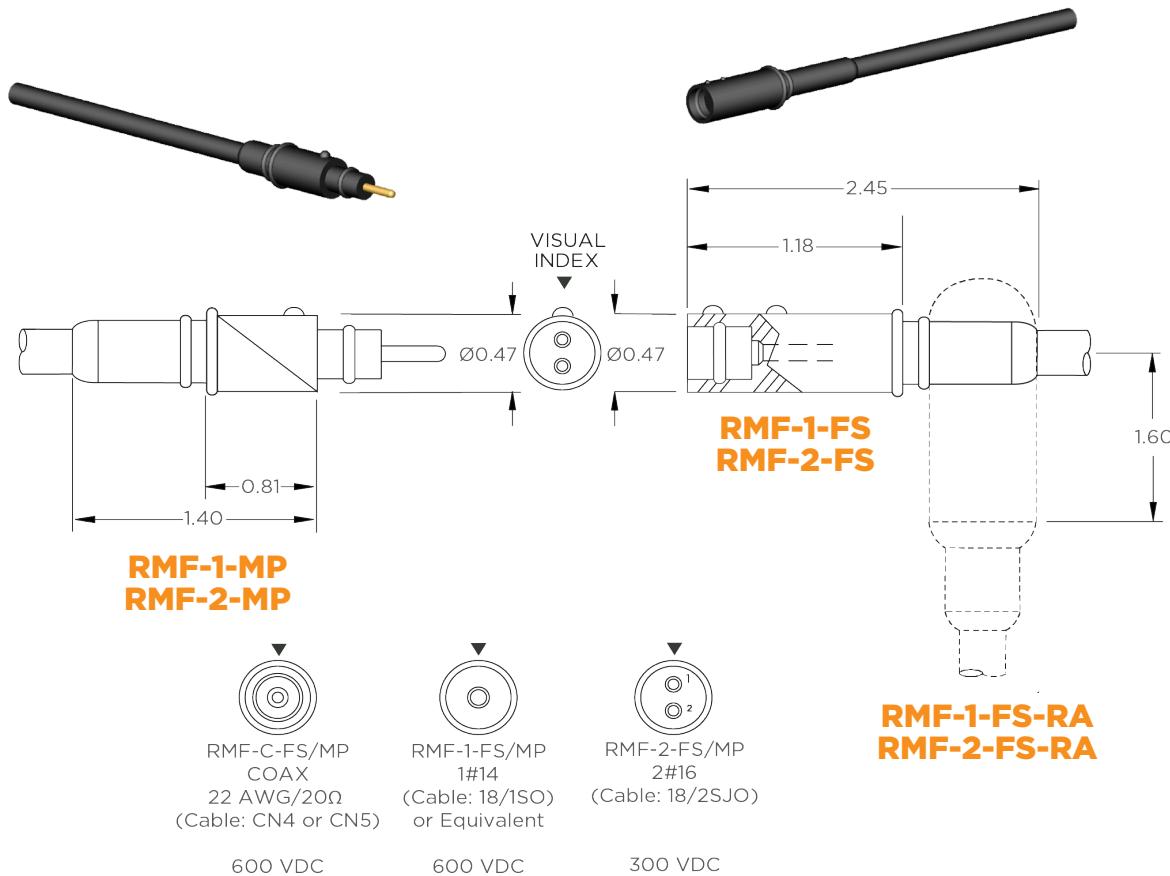
- Torque values referenced in this literature assume installation into dry metal threads. Please contact TE for recommendations.



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, \leq 4,000 psi, no contact required

Note:

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

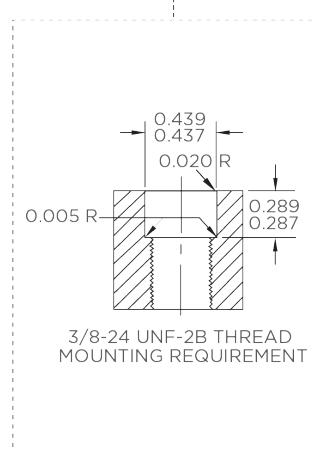
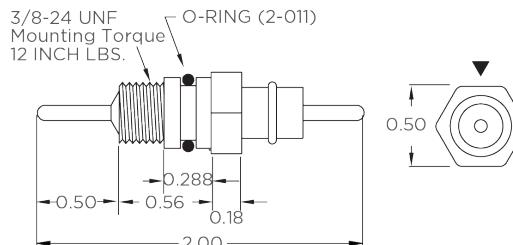


RMF-FS and Associated Parts

Mateable Bulkhead Connectors

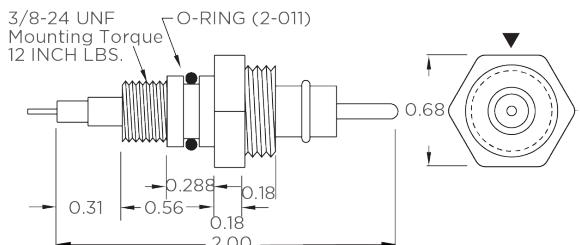
XSF-BC

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:

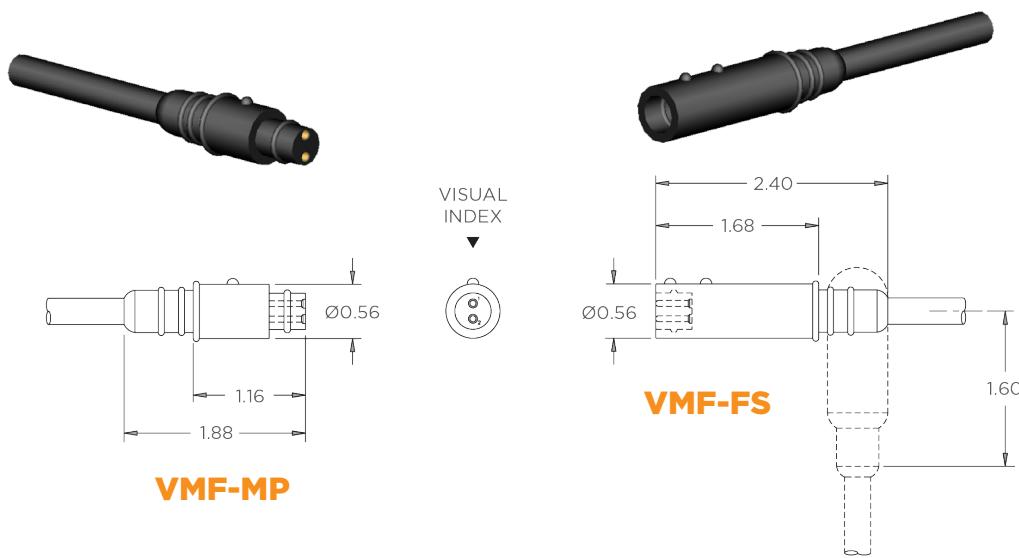
- Torque values referenced in this literature assume installation into dry metal threads. Please contact TE for recommendations.



VMF-FS & Associated Parts

Reversed Rubber Molded

IN-LINE SERIES



VMF-MP

VMF-FS

VMF-FS-RA

- ▼ VMF-C-FS
600 VDC
CABLE: CN4 or CN5
- ▼ VMF-1-FS
600 VDC
CABLE: 18/ISO or EQUIVALENT
- ▼ VMF-2-FS
300 VDC
CABLE: 18/2 SJO

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.

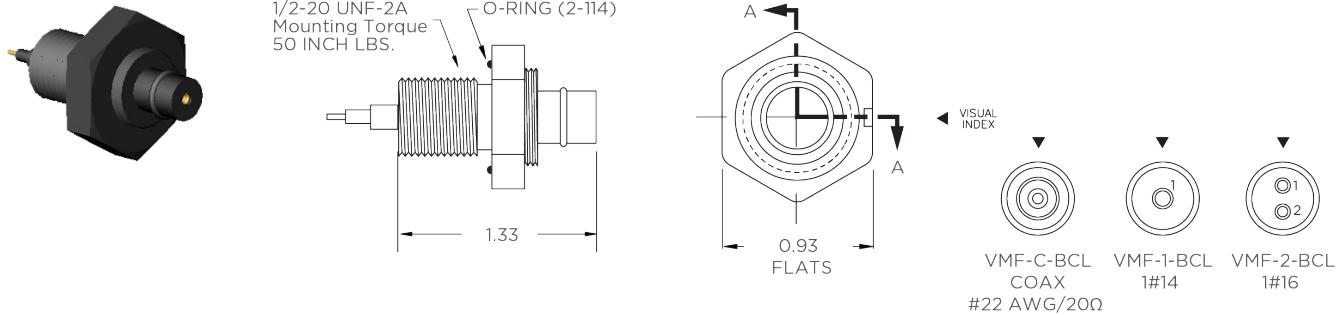


VMF-FS & Associated Parts

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

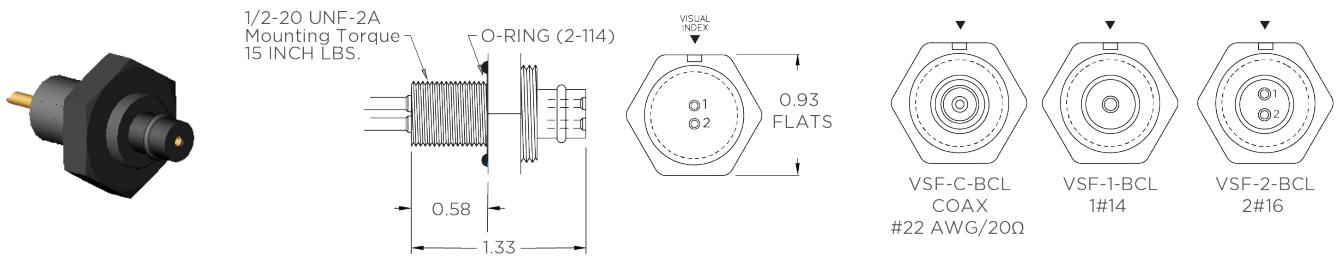
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488

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:

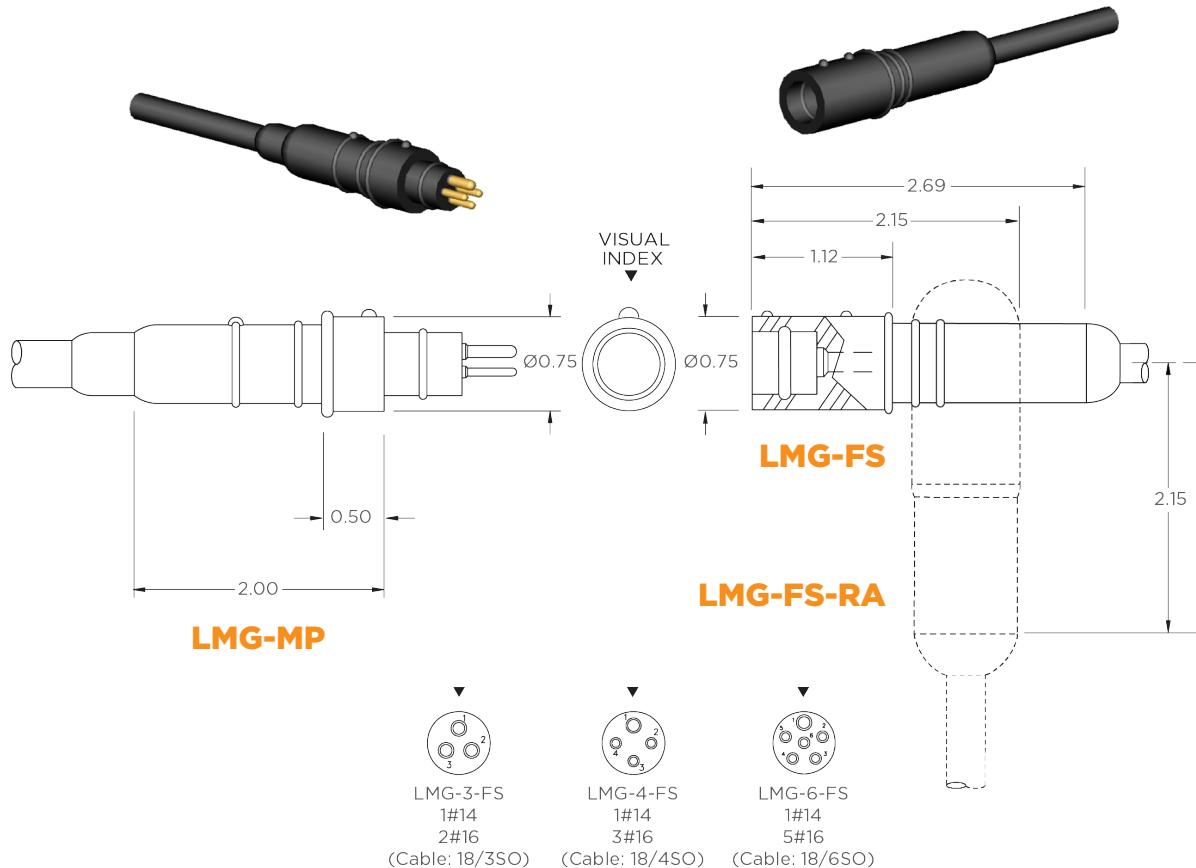
- Torque values referenced in this literature assume installation into dry metal threads. Please contact TE for recommendations.



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, \leq 4,000 psi, no contact required



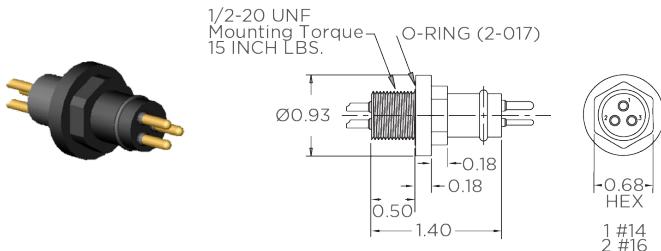
LMG-FS and Associated Parts

Mateable Bulkhead Connectors

LSG-BC, LSG-BCL

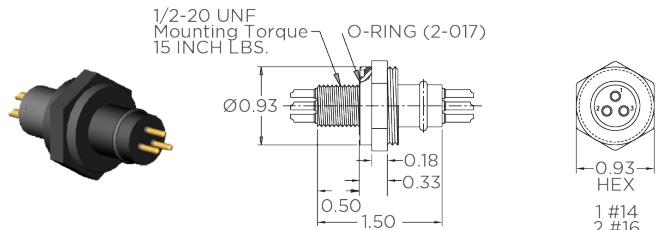
These non-metallic connectors utilize a facial o-ring seal to the bulkhead. The LSG-BCL has a locking sleeve provision.

LSG-3-BC



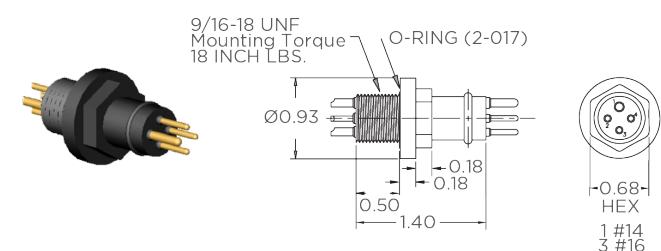
- Does not mate to RMG-FS or RMG-FS-R/A

LSG-3-BCL



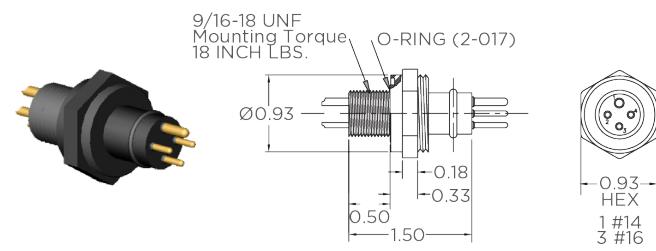
- Does not mate to RMG-FS or RMG-FS-R/A

LSG-4-BC



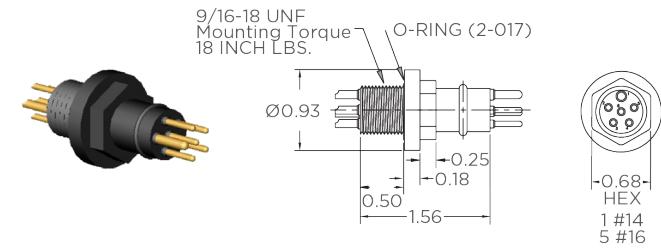
- Does not mate to RMG-FS or RMG-FS-R/A

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

Material: Glass Reinforced Epoxy

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

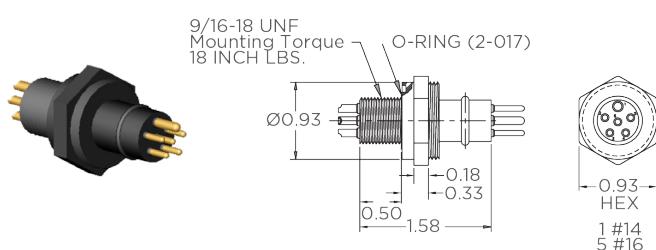
Mated Pressure Rating: Up to 3,000 psi

Dummy Connector: LMG-FSD

Note:

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

LSG-6-BCL



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



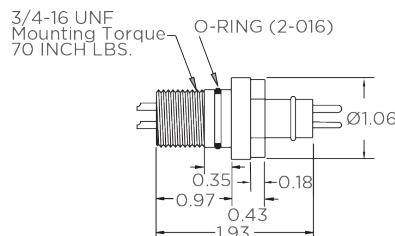
LMG-FS & Associated Parts

Mateable Bulkhead Connectors

LSG-BC-SC (Formerly known as LSK-BC-SC)

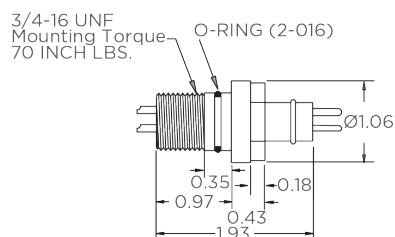
These non-metallic connectors utilize a radial o-ring seal to the bulkhead.

LSG-3-BC-SC



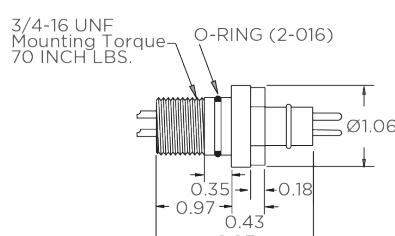
- Does not mate to RMG-FS or RMG-FS-R/A

LSG-4-BC-SC



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

LSG-6-BC-SC



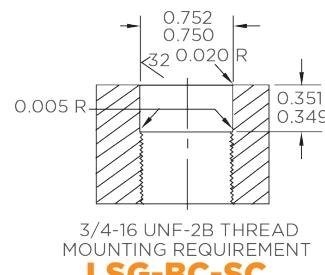
- Also mates to RMG-FS or RMG-FS-R/A

Material: Glass Reinforced Epoxy

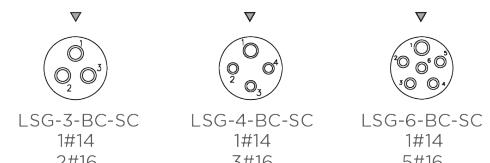
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488

Mated Pressure Rating: Up to 5,000 psi

Dummy Connector: LMG-FSD



3/4-16 UNF-2B THREAD
MOUNTING REQUIREMENT
LSG-BC-SC



▼
LSG-3-BC-SC
1#14
2#16

▼
LSG-4-BC-SC
1#14
3#16

▼
LSG-6-BC-SC
1#14
5#16

Note:

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



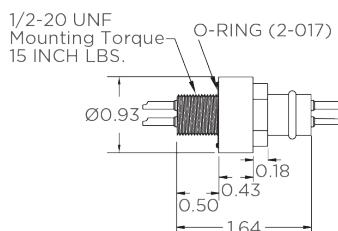
LMG-FS & Associated Parts

Mateable Bulkhead Connectors

LSG-BC-HP

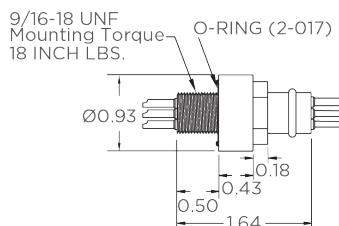
These non-metallic connectors feature a facial o-ring seal to the bulkhead.

LSG-3-BC-HP



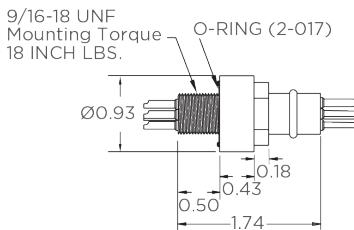
- Does not mate to RMG-FS or RMG-FS-R/A

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.

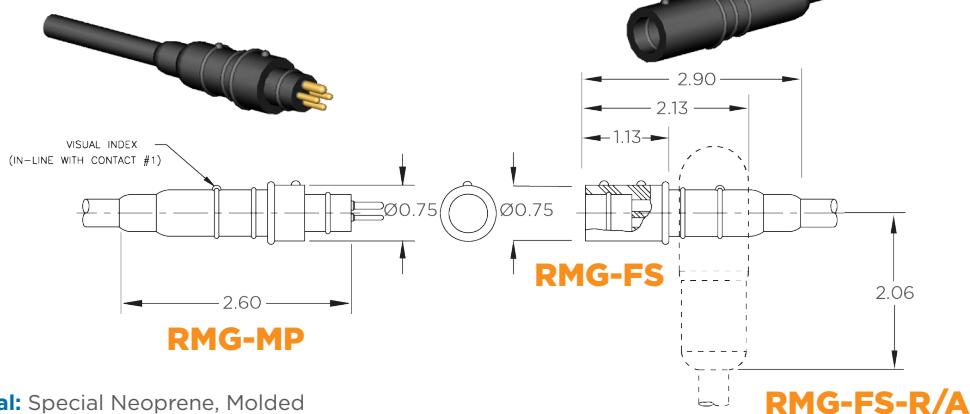


RMG-FS & Associated Parts

Standard Rubber Molded

IN-LINE SERIES

- Available with grippers, must specify.



Material: Special Neoprene, Molded

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

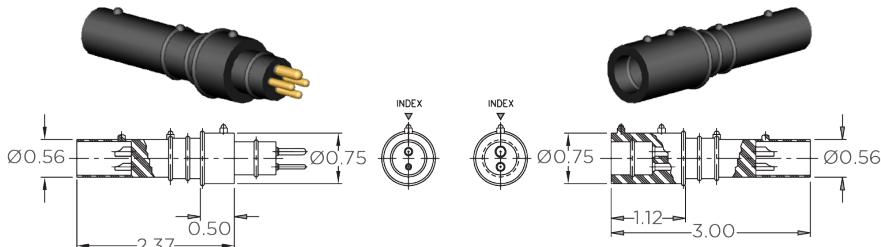
Voltage Rating: 600 VDC. Contact TE for higher voltage requirements

Mated Pressure Rating: Up to 20,000 psi

	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)

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		• Specify number of conductors when ordering

Note:

- * Must specify cable OD.

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, \leq 4,000 psi, no contact required

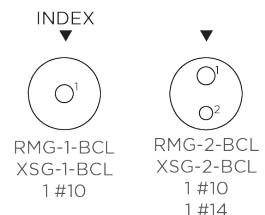
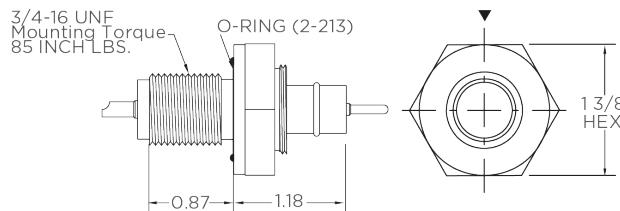


RMG-FS & Associated Parts

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

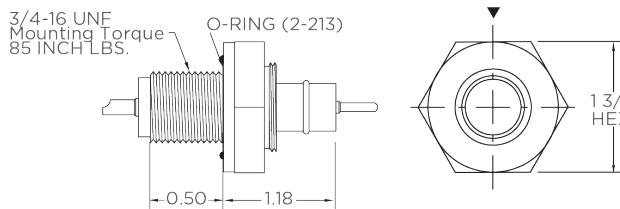
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488

Mated Pressure Rating: Up to 20,000 psi

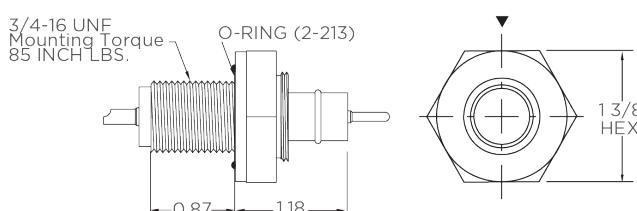
Dummy Connector: RMG-FSD

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.

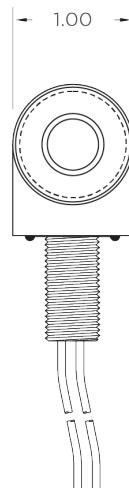
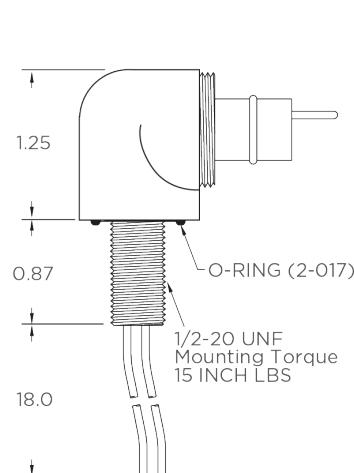


RMG-FS & Associated Parts

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.



- ▼ XSG-2-BCL-P-R/A
1 #10
1 #14
- ▼ XSG-3-BCL-P-R/A
1 #10
2 #14
- ▼ XSG-4-BCL-P-R/A
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 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.

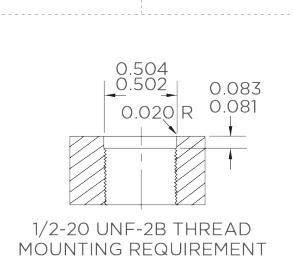
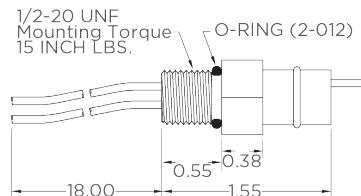


RMG-FS & Associated Parts

Mateable Bulkhead Connectors

XSG-PBC

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



XSG-1-PBC
 XSG-1-PBCL
 XSG-1-PBCLM
 1 #10

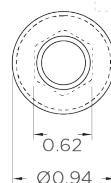
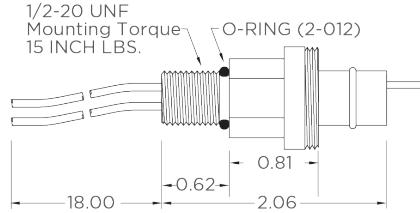
XSG-2-PBC
 XSG-2-PBCL
 XSG-2-PBCLM
 1 #10
 1 #14

XSG-3-PBC
 XSG-3-PBCL
 XSG-3-PBCLM
 1 #10
 2 #14

XSG-4-PBC
 XSG-4-PBCL
 XSG-4-PBCLM
 1 #14
 3 #16

XSG-PBCL

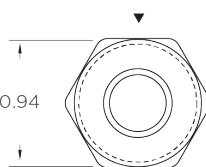
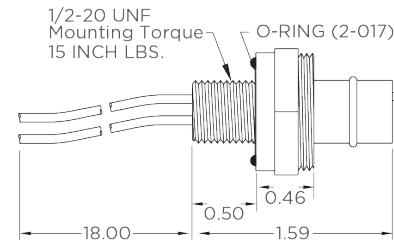
Small footprint non-metallic connector utilizing an o-ring in the thread relief area to seal to the bulkhead. Features a locking sleeve provision.



1/2-20 UNF-2B THREAD MOUNTING REQUIREMENT

XSG-PBCLM

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



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.

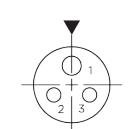
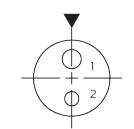
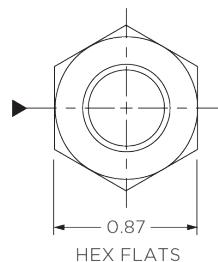
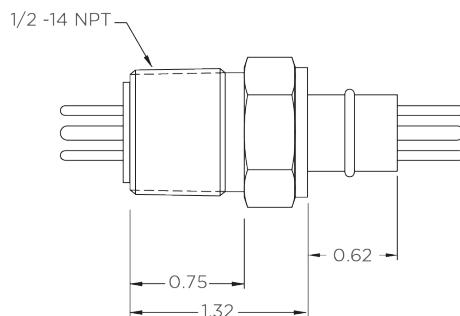


RMG-FS & Associated Parts

Mateable Bulkhead Connectors

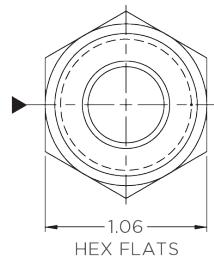
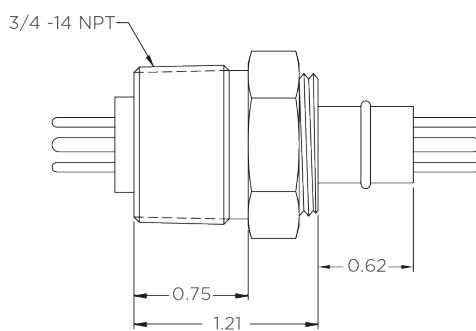
RMGS-BC

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:

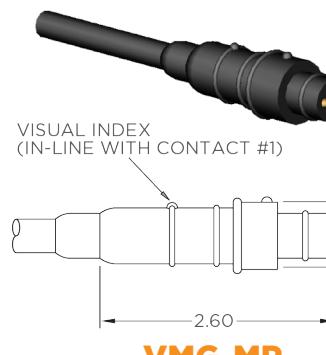
- Torque values referenced in this literature assume installation into dry metal threads. Please contact TE for recommendations.



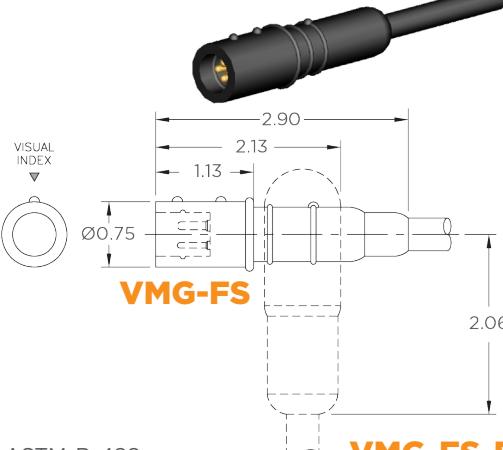
VMG-FS & Associated Parts

Reversed Rubber Molded

IN-LINE SERIES



VMG-MP



VMG-FS-R/A

	VMG-1-FS 1 #14 (Cable: 18/1SO) or Equivalent
	VMG-2-FS 1 #14 1 #16 (Cable: 18/2SO)
	VMG-3-FS 1 #14 2 #16 (Cable: 18/3SO)
	VMG-4-FS 1 #14 3 #16 (Cable: 18/4SO)

Material: Special Neoprene, Molded

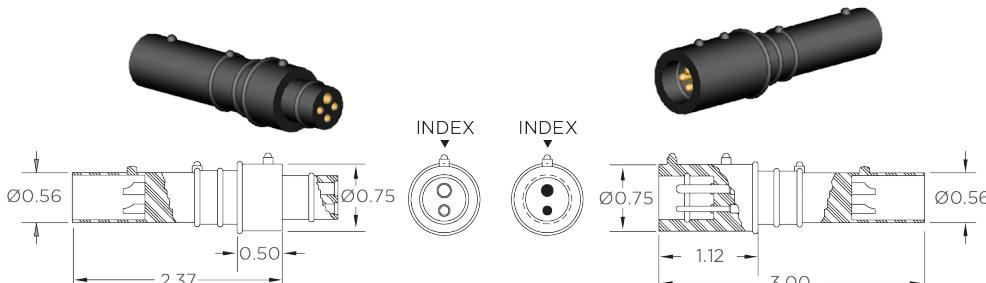
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488

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.



	VMG-1-FS-WOC 1 #14
	VMG-2-FS-WOC 1 #14 1 #16
	VMG-3-FS-WOC 1 #14 2 #16
	VMG-4-FS-WOC 1 #14 3 #16

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, \leq 4,000 psi, no contact required

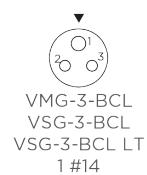
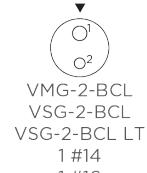
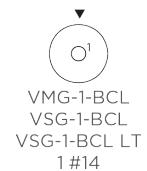
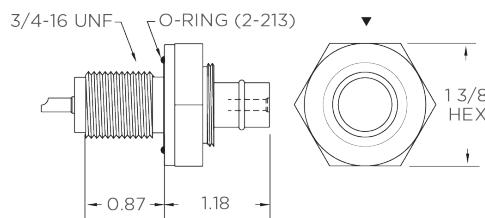


VMG-FS & Associated Parts

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

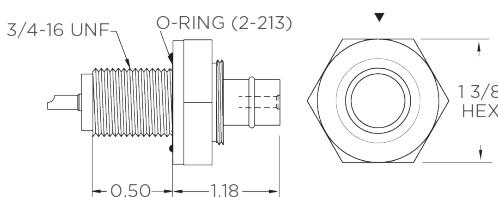
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488

Mated Pressure Rating: Up to 20,000 psi

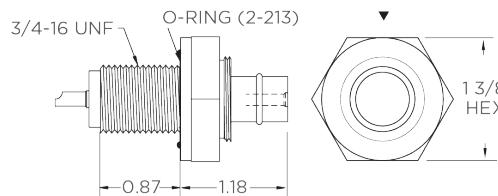
Dummy Connector: VMG-FSD

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.



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.

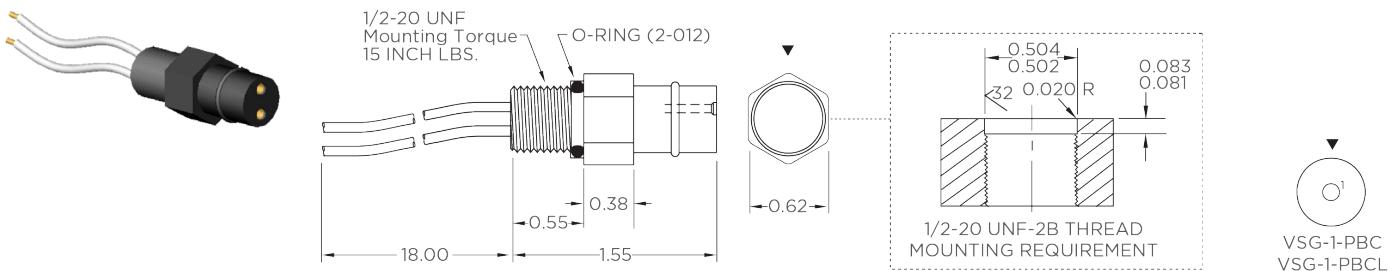


VMG-FS & Associated Parts

Mateable Bulkhead Connectors

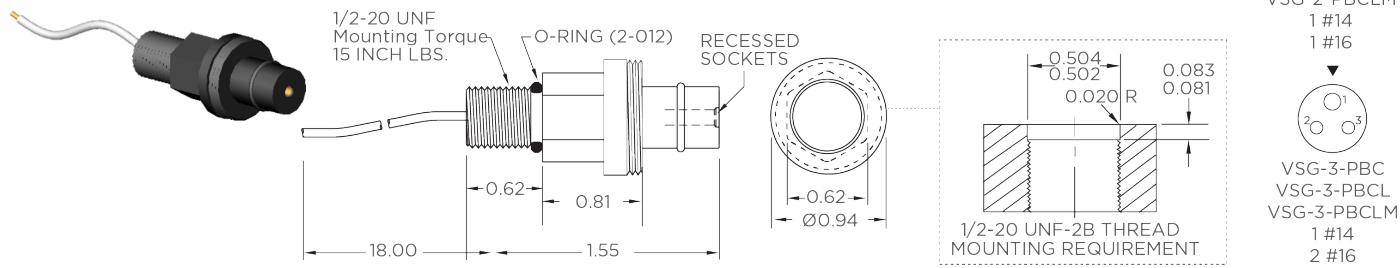
VSG-PBC

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



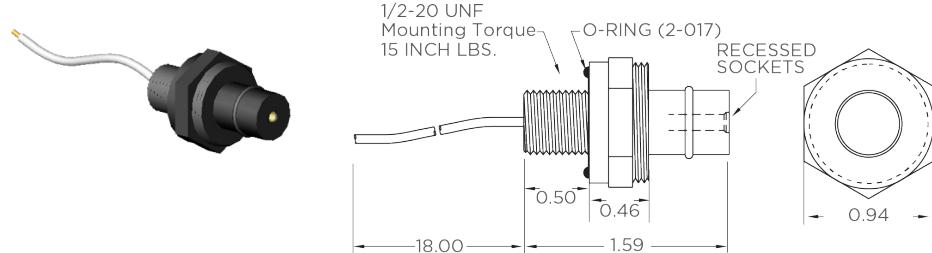
VSG-PBCL

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



RMK-MP

- 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

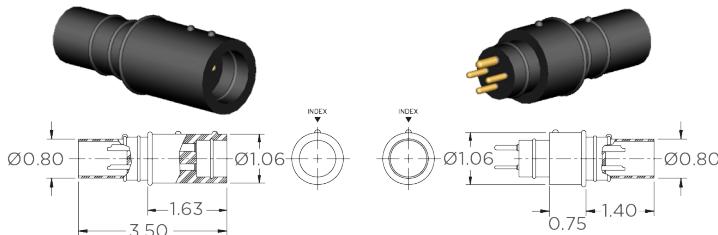


RMK-FS-R/A

	RMK-1/0-FS 1 #1/0 (Cable: 1/0 Welding)		RMK-1-FS 1 #8 AWG (Cable: 8/ISO)		RMK-6/8-FS 1 #6 AWG 1 #8 AWG (Cable: 8/2SO)
	RMK-2-FS 1 #10 AWG 1 #14 AWG (Cable: 18/2SO)		RMK-3-FS 1 #10 AWG 2 #14 AWG (Cable: 18/3SO)		RMK-4-FS 1 #10 AWG 3 #14 AWG (Cable: 18/4SO)
	RMK-5-FS 1 #10 AWG 4 #14 AWG (Cable: 18/5SO)		RMK-6-FS 1 #14 AWG 5 #16 AWG (Cable: 18/6SO)		RMK-7-FS 1 #14 AWG 6 #16 AWG (Cable: 18/7SO)
	RMK-8-FS 1 #14 AWG 7 #16 AWG (Cable: 18/8SO)		RMK-9-FS 1 #14 AWG 8 #16 AWG (Cable: 18/10SO)		RMK-12-FS 1 #14 AWG 11 #16 AWG (Cable: 18/12SO)

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

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

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

Note:

- * Must specify cable OD.

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	

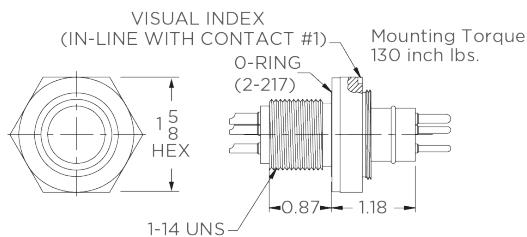


RMK-FS & Associated Parts

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.



	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

Material: 316 Stainless Steel, Internal Insulation-Special Neoprene

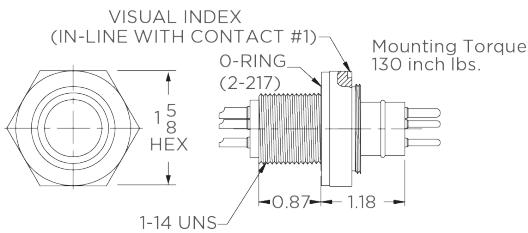
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488

Mated Pressure Rating: Up to 20,000 psi

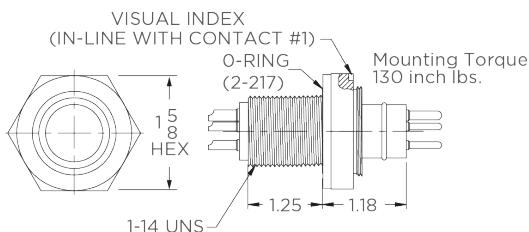
Dummy Connector: RMK-FSD

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.

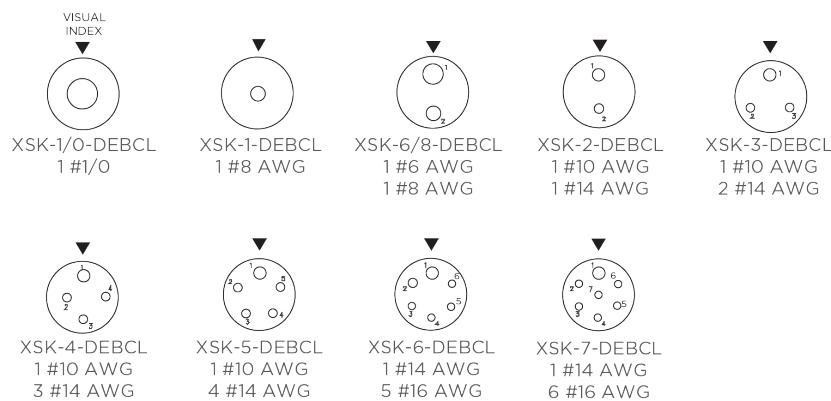
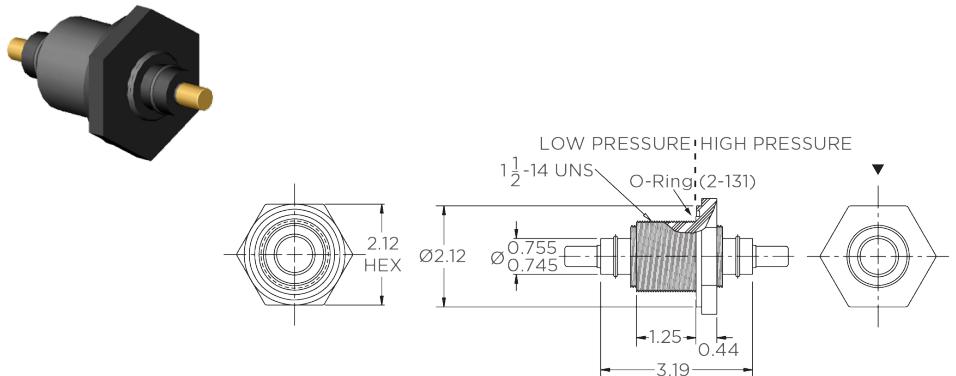


RMK-FS & Associated Parts

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:

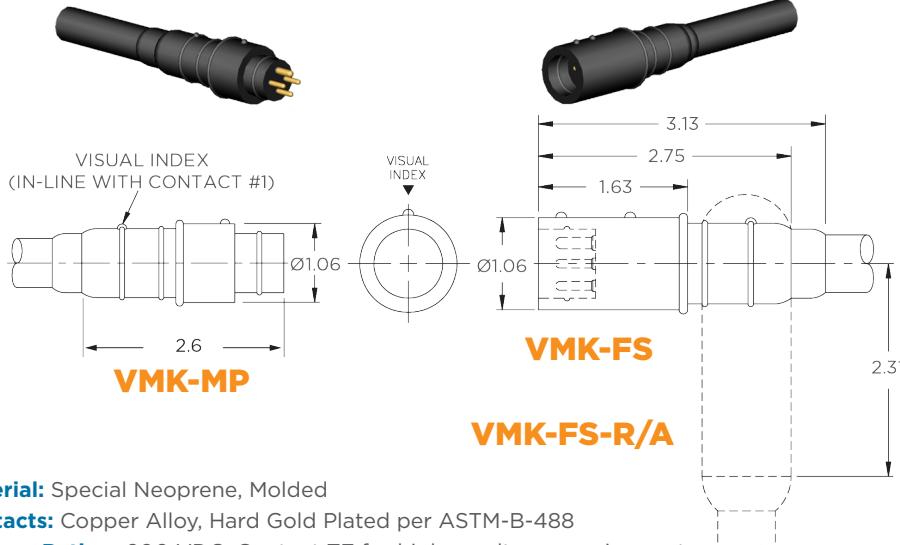
- Torque values referenced in this literature assume installation into dry metal threads. Please contact TE for recommendations.



VMK-FS & Associated Parts

Reversed Rubber Molded

IN-LINE SERIES

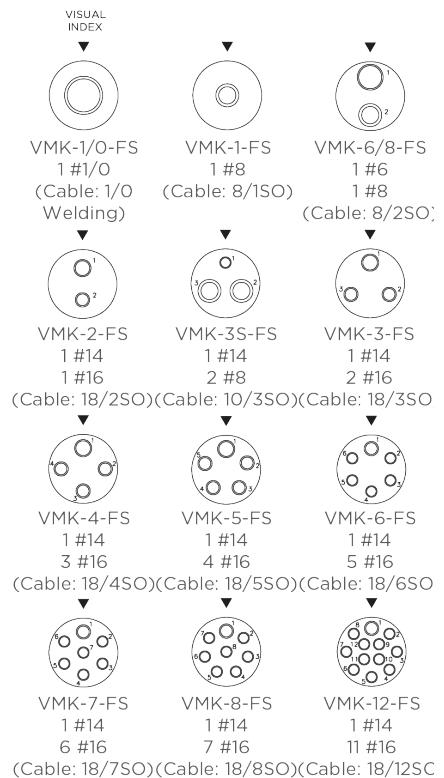


Material: Special Neoprene, Molded

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

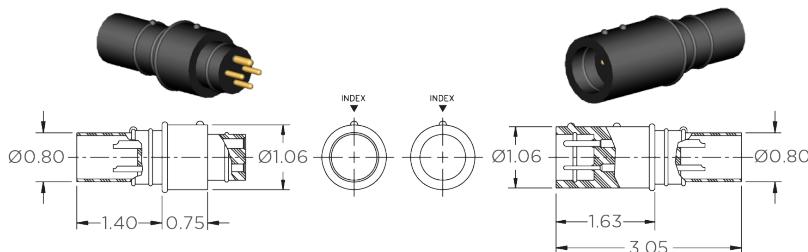
Voltage Rating: 600 VDC. Contact TE for higher voltage requirements

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

- 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, \leq 4,000 psi, no contact required

Note:

- * Must specify cable OD.

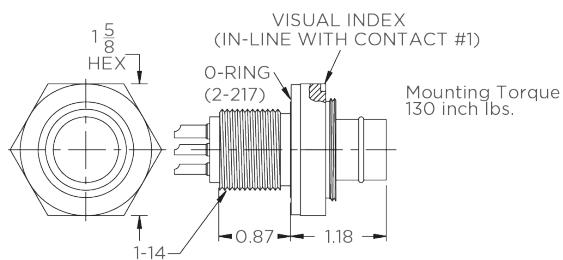


VMK-FS & Associated Parts

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

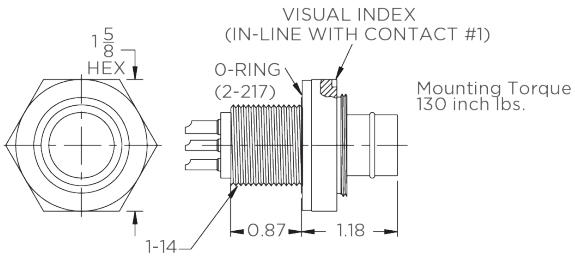
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488

Mated Pressure Rating: Up to 20,000 psi

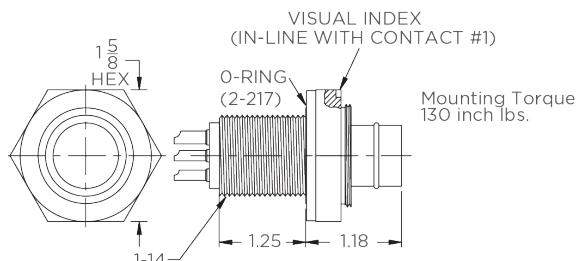
Dummy Connector: VMK-FSD

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

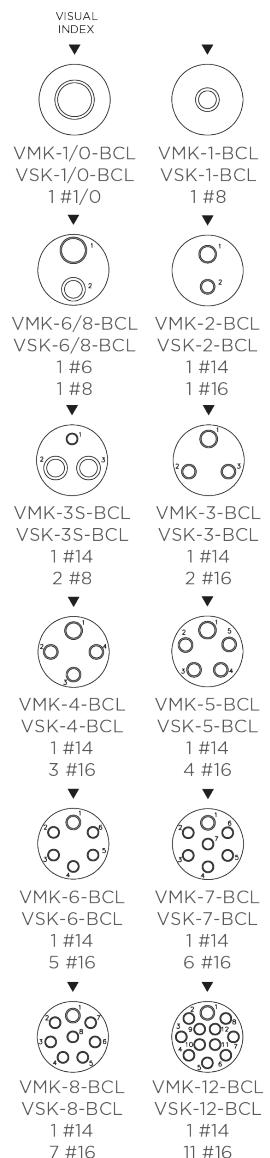
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488

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.

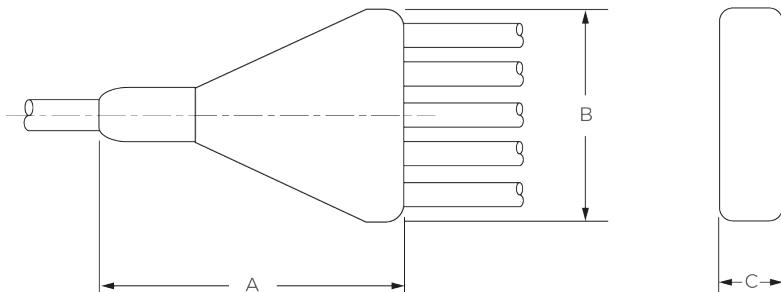




Special Assemblies

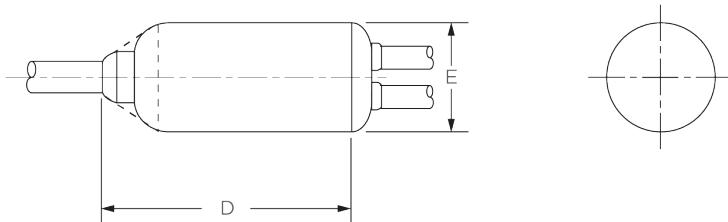
Cable Molds and Cable Splices

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.

LET'S CONNECT

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