SEACON
RUBBER MOLDED
UNDERWATER ELECTRICAL DRY-MATE CONNECTORS
# RUBBER MOLDED SERIES

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(REV 0704)
NOTE: Torque values referenced in this literature assume installation into dry metal threads. Please contact the factory for recommendations.
NOTE: Torque values referenced in this literature assume installation into dry metal threads. Please contact the factory for recommendations.
INTRODUCTION

Our standard rubber molded series typically consists of an in-line female neoprene connector mated to a glass reinforced epoxy (XS) bulkhead connector. Various sizes are available ranging from single contact connectors up through 12 contact connectors. Most are available with pins and sockets reversed to help prevent mismating 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, and can also be manufactured of any of the exotic metals. 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 inexpensive lines and has been used on all types of underwater instrumentation including: underwater lighting, communications, 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 psi in a mated condition.

PART NUMBERING SYSTEM

CONNECTORS

<table>
<thead>
<tr>
<th>Connector Type</th>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>In-Line Connectors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LM</td>
<td>Rubber Molded-Special Version</td>
<td></td>
</tr>
<tr>
<td>RM</td>
<td>Rubber Molded</td>
<td></td>
</tr>
<tr>
<td>VM</td>
<td>Reversed Rubber Molded</td>
<td></td>
</tr>
<tr>
<td>FS</td>
<td>Female Socket</td>
<td></td>
</tr>
<tr>
<td>FSD</td>
<td>Female Socket Dummy</td>
<td></td>
</tr>
<tr>
<td>MP</td>
<td>Male Plug</td>
<td></td>
</tr>
<tr>
<td>MPD</td>
<td>Male Plug Dummy</td>
<td></td>
</tr>
<tr>
<td>FI</td>
<td>Field Installable</td>
<td></td>
</tr>
<tr>
<td>HP</td>
<td>High Pressure</td>
<td></td>
</tr>
<tr>
<td>LP</td>
<td>Low Pressure</td>
<td></td>
</tr>
<tr>
<td>SL</td>
<td>Slip-on Series</td>
<td></td>
</tr>
<tr>
<td>WOC</td>
<td>Without Cable</td>
<td></td>
</tr>
<tr>
<td>Bulkhead Connectors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LS</td>
<td>Glass Reinforced Epoxy- Special Version</td>
<td></td>
</tr>
<tr>
<td>RM</td>
<td>Metal Shell</td>
<td></td>
</tr>
<tr>
<td>VM</td>
<td>Reversed Metal Shell</td>
<td></td>
</tr>
<tr>
<td>VS</td>
<td>Reversed Glass Reinforced Epoxy</td>
<td></td>
</tr>
<tr>
<td>XS</td>
<td>Glass Reinforced Epoxy</td>
<td></td>
</tr>
<tr>
<td>BC</td>
<td>Bulkhead Connector</td>
<td></td>
</tr>
<tr>
<td>BCL</td>
<td>BC w/Locking Thread</td>
<td></td>
</tr>
<tr>
<td>SC</td>
<td>Solder Cup</td>
<td></td>
</tr>
<tr>
<td>TH</td>
<td>Thermistor Housing</td>
<td></td>
</tr>
</tbody>
</table>

Right Angle (optional)
Female Socket
Number of Contacts
Size
Rubber Molded

<table>
<thead>
<tr>
<th>In-Line Connectors</th>
<th>Code</th>
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</tr>
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<tbody>
<tr>
<td>LM Te</td>
<td>Rubber Molded-Special Version</td>
<td></td>
</tr>
<tr>
<td>RM Te</td>
<td>Rubber Molded</td>
<td></td>
</tr>
<tr>
<td>VM Te</td>
<td>Reversed Rubber Molded</td>
<td></td>
</tr>
<tr>
<td>FS Te</td>
<td>Female Socket</td>
<td></td>
</tr>
<tr>
<td>FSD Te</td>
<td>Female Socket Dummy</td>
<td></td>
</tr>
<tr>
<td>MP Te</td>
<td>Male Plug</td>
<td></td>
</tr>
<tr>
<td>MPD Te</td>
<td>Male Plug Dummy</td>
<td></td>
</tr>
<tr>
<td>FI Te</td>
<td>Field Installable</td>
<td></td>
</tr>
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<td>HP Te</td>
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<td>WOC Te</td>
<td>Without Cable</td>
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</tr>
<tr>
<td>Bulkhead Connectors</td>
<td></td>
<td></td>
</tr>
<tr>
<td>LS Te</td>
<td>Glass Reinforced Epoxy- Special Version</td>
<td></td>
</tr>
<tr>
<td>RM Te</td>
<td>Metal Shell</td>
<td></td>
</tr>
<tr>
<td>VM Te</td>
<td>Reversed Metal Shell</td>
<td></td>
</tr>
<tr>
<td>VS Te</td>
<td>Reversed Glass Reinforced Epoxy</td>
<td></td>
</tr>
<tr>
<td>XS Te</td>
<td>Glass Reinforced Epoxy</td>
<td></td>
</tr>
<tr>
<td>BC Te</td>
<td>Bulkhead Connector</td>
<td></td>
</tr>
<tr>
<td>BCL Te</td>
<td>BC w/Locking Thread</td>
<td></td>
</tr>
<tr>
<td>SC Te</td>
<td>Solder Cup</td>
<td></td>
</tr>
<tr>
<td>TH Te</td>
<td>Thermistor Housing</td>
<td></td>
</tr>
</tbody>
</table>

Right Angle (optional)
Female Socket
Number of Contacts
Size
Rubber Molded
GENERAL INFORMATION
RUBBER MOLDED AND ASSOCIATED SERIES

APPLICATIONS:
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.

NOTE: Torque values referenced in this literature assume installation into dry metal threads. Please contact the factory for recommendations.
MAINTENANCE PROCEDURES
CONNECTORS

MAINTENANCE

The following procedures detail the maintenance requirements for the Rubber Molded Series and their associated parts. Even though this procedure appears simple, only qualified technicians should perform the maintenance. If connectors are periodically unmated SEA CON® recommends the following:

1. Before unmating ensure connectors are free of foreign contaminants. Visually check for and note any damage or abnormalities.
2. After unmating 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 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 contaminants 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 are noted with actual part and can be found in pages to follow.

NOTE: Torque values referenced in this literature assume installation into dry metal threads. Please contact the factory for recommendations.
In the case of right angle connectors, the cable is always perpendicular to the index, as shown.
RUBBER MOLDED SERIES
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.

NOTE: Torque values referenced in this literature assume installation into dry metal threads. Please contact the factory for recommendations.

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

INCOMPLETE
INCORRECT

LONGER LENGTHS AVAILABLE

INCOMPLETE
CORRECT
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 factory for higher voltage requirements
Pressure Rating, Mated: up to 20,000 psi

SLIP-ON SERIES

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

Material: Special Neoprene, molded
Contacts: Brass, Hard Gold Plated per ASTM-B-488
Voltage Rating: 600 VDC-contact factory for higher voltage requirements
Pressure Rating, Mated: up to 20,000 PSI

LOCKING SLEEVES

A-MLS-D (AVAILABLE FOR RMA-MP)
A-FLS-D (AVAILABLE FOR RMA-FS, RMA-FS-R/A)

DUMMY CONNECTORS

RMA-FSD MATES TO RMA-MP
RMA-MPD-LP/HP TO RMA-FS & RMA-FS-R/A
Material: Special Neoprene, molded
Pressure Rating, Mated:
RMA-FSD (20,000PSI)
RMA-MPD-LP (≤4,000 PSI)
RMA-MPD-HP (4,000 – 20,000 PSI) Male Contact Required
Part Name: **RMA-BCL**
Material: 316 Stainless St., Internal Insulation-Special Neoprene
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488
Pressure Rating, Mated: up to 20,000 psi

**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.

Part Name: **XSA-BC**
Material: Glass Reinforced Epoxy
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488
Pressure Rating, Mated: up to 20,000 psi

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

**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. Same Material and Pressure as XSA-BC.

**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 avoid damaging or cracking. The o-ring is located on a stop under the hex and seals by flush mounting to the bulkhead. Same Material and Pressure as XSA-BC.

**NOTE**: Torque values referenced in this literature assume installation into dry metal threads. Please contact the factory for recommendations.
RMA-FS AND ASSOCIATED PARTS
MATEABLE BULKHEAD CONNECTORS

BULKHEAD CONNECTORS & MOUNTING REQUIREMENT
(MATES TO RMA-FS & RMA-FS-R/A & RMA FS SL)
Dummy connector RMA FSD

Part Names: XSC-BC, XSC-BCL
Material: Glass Reinforced Epoxy
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488
Pressure Rating, Mated: up to 10,000 psi

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

XSC-BC, XSC-BCL

XSC-BC

XSC-BCL

NOTE: Torque values referenced in this literature assume installation into dry metal threads. Please contact the factory 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-B-488
Cable: 1 N 2
Voltage Rating: 600 VDC-contact factory for higher voltage requirements
Pressure Rating, Mated: 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 factory for higher voltage requirements
Pressure Rating, Mated: up to 20,000 psi

Notes: Specify exact wire diameter when ordering. Maximum wire DIA=0.09 INCH

LOCKING SLEEVES

A-MLS-D (AVAILABLE FOR VMA-MP)
A-FLS-D (AVAILABLE FOR VMA-FS, VMA-FS-R/A)

DUMMY CONNECTORS

VMA-FSD-LP MATES TO VMA-MP
VMA-FSD-HP MATES TO VMA-MP
VMA-MPD MATES TO VMA-FS & VMA-FS-R/A
Material: Special Neoprene, Molded
Pressure Rating, Mated:
VMA-FSD-LP <4,000 PSI (CONNECTOR BODY W/O MALE PIN)
VMA-FSD-HP 4,000 - 20,000 PSI
VMA-MPD 20,000 PSI
VMA-FS AND ASSOCIATED PARTS
MATEABLE BULKHEAD CONNECTORS

BULKHEAD CONNECTORS & MOUNTING REQUIREMENT
(MATES TO VMA-FS & VMA-FS-R/A & VMA-FS SL)
Dummy Connector: VMA-FS D HP or VMA FS D LP

Part Name: **VMA-BCL**
Material: 316 Stainless St., Internal Insulation-Special Neoprene
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488
Pressure Rating, Mated: up to 20,000 psi

**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.

Part Names: **VSA-BC, VSA-BCL, VSB-BCL**
Material: Glass Reinforced Epoxy
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488
Pressure Rating, Mated: up to 20,000 psi

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

**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.

**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 avoid damaging or cracking. The o-ring is located on a stop under the hex and seals by flush mounting to the bulkhead.

Note: Torque values referenced in this literature assume installation into dry metal threads. Please contact the factory for recommendations.
IN-LINE SERIES

Material: Special Neoprene, Molded
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488
See Specific Configuration for Voltage Rating
Pressure Rating, Mated: up to 10,000 psi

LOCKING SLEEVES
F-MLS-D (AVAILABLE FOR RMF-MP)
XSF-FLS-D (AVAILABLE FOR RMF-FS, RMF-FS-R/A)

DUMMY CONNECTORS
RMF-FSD MATES TO RMF-MP
RMF-MPD-HP MATES TO RMF-FS & RMF-FS –R/A
RMF-MPD-LP MATES TO RMF-FS & RMF-FS-R/A

Material: Special Neoprene, Molded
Pressure Rating, Mated:
RMF-FSD (10,000 PSI)
RMF-MPD-HP (HIGH PRESSURE, 4,000 PSI-10,000 PSI, CONTACT REQUIRED)
RMF-MPD-LP (LOW PRESSURE, < 4,000 PSI, NO CONTACT REQUIRED)

Note: Specify number of conductors when ordering
RMF-FS AND ASSOCIATED PARTS
MATEABLE BULKHEAD CONNECTORS

BULKHEAD CONNECTORS & MOUNTING REQUIREMENT
(MATES TO RMF-FS & RMF-FS-R/A & RMF FS WOC)
Dummy Connector RMF-FSD

Part Names: **XSF-BC, XSF-BCL**
Material: Glass Reinforced Epoxy
Contacts: Copper Alloy, Hard Gold Plated per MIL-G-45204
Pressure Rating, Mated: up to 10,000 psi

**XSF-BC:** Features radial o-ring seal.
**XSF-BCL:** These connectors feature a locking sleeve provision and utilize a radial o-ring seal.

Part Name: **XSFDE-BCL**
Material: Glass Reinforced Epoxy
Contacts: Copper Alloy, Hard Gold Plated
Pressure Rating, Mated: up to 10,000 psi

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

**NOTE:** Torque values referenced in this literature assume installation into dry metal threads. Please contact the factory for recommendations.
VMF-FS AND 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
Pressure Rating, Mated: up to 20,000 psi

LOCKING SLEEVES
VSF-MLS-D (AVAILABLE FOR VMF-MP)
VSF-FLS-D (AVAILABLE FOR VMF-FS, VMF-FS-R/A)

DUMMY CONNECTORS

Note: Specify number of conductors when ordering

VMF-FSD-HP MATES TO VMF-MP
VMF-FSD-LP MATES TO VMF-MP
VMF-MPD MATES TO VMF-FS & VMF-FS-R/A

MATERIAL: SPECIAL NEOPRENE, MOLDED
PRESSURE RATING, MATED:
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)
VMF-FS AND ASSOCIATED PARTS
MATEABLE BULKHEAD CONNECTORS

BULKHEAD CONNECTORS
(MATES TO VMF-FS & VMF-FS-R/A & VMF FS WOC)
Dummy Connector: VMF-FSD

Part Name: VMF-BCL
Material: 316, Stainless Steel
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488
Pressure Rating, Mated: up to 20,000 psi

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

Part Name: VSF-BCL
Material: Glass Reinforced Epoxy
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488
Pressure Rating, Mated: up to 20,000 psi

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

**NOTE:** Torque values referenced in this literature assume installation into dry metal threads. Please contact the factory for recommendations.
LMG-FS AND 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 factory for higher voltage requirements
Pressure Rating, Mated: up to 20,000 psi

LOCKING SLEEVES

G-MLS-D (AVAILABLE FOR LMG-MP)
G-FLS-D (AVAILABLE FOR LMG-FS, LMG-FS-R/A)

DUMMY CONNECTORS

LMG-FSD MATES TO LMG-MP
LMG-MPD LP/HP MATES TO LMG-FS & LMG-FS-R/A

Note: Specify number of conductors when ordering

LMG-MPD-HP (HIGH PRESSURE, 4,000 PSI-20,000 PSI, CONTACT REQUIRED)
LMG-MPD-LP (LOW PRESSURE, ≤ 4,000 PSI NO CONTACT REQUIRED)
LMG-FS AND ASSOCIATED PARTS
MATEABLE BULKHEAD CONNECTORS

Part Name: **LSG-BC, LSG-BCL**
Mates to LMG-FS, LMG-FS R/A
Dummy Connector - LMG-FS D
Material: Glass Reinforced Epoxy
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488
Pressure Rating, Mated: up to 3,000 psi

**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.

**Note:** Does not mate to RMG-FS or RMG-FS R/A

**Note:** Also mates to RMG-FS and RMG-FS R/A

**NOTE:** Torque values referenced in this literature assume installation into dry metal threads. Please contact the factory for recommendations.
Part Name: **LSG-BC-SC** (Formerly known as LSK-BC-SC)

<table>
<thead>
<tr>
<th>Mates to LMG-FS, LMG-FS R/A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dummy Connector: LMG-FSD</td>
</tr>
<tr>
<td>Material: Glass Reinforced Epoxy</td>
</tr>
<tr>
<td>Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488</td>
</tr>
<tr>
<td>Pressure Rating, Mated: up to 5,000 psi</td>
</tr>
</tbody>
</table>

**LSG-BC-SC**: These non-metallic connectors utilize a radial o-ring seal to the bulkhead.

**NOTE**: Torque values referenced in this literature assume installation into dry metal threads. Please contact the factory for recommendations.
LMG-FS AND ASSOCIATED PARTS
MATEABLE BULKHEAD CONNECTORS

BULKHEAD CONNECTORS
(MATES TO LMG FS & LMG-FS-R/A)
Dummy Connector: LMG-FSD

Part Name: LSG-BC-HP
Material: Glass Reinforced Epoxy
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488
Pressure Rating, Mated: up to 10,000 psi

LSG-BC-HP: These non-metallic connectors feature a facial o-ring seal to the bulkhead.

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

Note: Also mates to RMG-FS and RMG-FS R/A

NOTE: Torque values referenced in this literature assume installation into dry metal threads. Please contact the factory for recommendations.
RMG-FS AND ASSOCIATED PARTS
STANDARD RUBBER MOLDED

IN-LINE SERIES

Note: Available with grippers, must specify.

Material: Special Neoprene, Molded
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488
Voltage Rating: 600 VDC-contact factory for higher voltage requirements
Pressure Rating, Mated: up to 20,000 psi

WOC CONNECTORS

Note: 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.

Part Name: RMG-FS WOC, RMG-MP WOC
Material: Special Neoprene, Molded
Contacts: Brass, Hard Gold Plated per ASTM-B-488
Voltage Rating: 600 VDC-contact factory for higher voltage requirements Pressure Rating, Mated: up to 20,000 psi

LOCKING SLEEVES

Note: Must specify cable OD when using G-FLS-X

DUMMY CONNECTORS

Note: specify number of conductors when ordering

G-MLS-D (AVAILABLE FOR RMG-MP, RMG-MP WOC)
G-FLS-D (AVAILABLE FOR RMG-FS, RMG-FS-R/A, RMG-FS WOC)
G-MLS-S (AVAILABLE FOR RMG-MP, RMG-MP WOC)
G-FLS-S (AVAILABLE FOR RMG-FS, RMG-FS-R/A, RMG-FS WOC)
G-FLS-X (AVAILABLE FOR RMG-FS) Must specify cable O.D. when ordering G-FLS-X

RMG-FSD MATES TO RMG-MP, BCL & XSG-BCL, XSG-PBC, XSG-PBCL & XSG-PBCLM
RMG-MPD MATES TO RMG-FS & RMG FS-R/A

MATERIAL: SPECIAL NEOPRENE, MOLDED
PRESSURE RATING, MATED:
RMG-FSD (20,000 PSI)
RMG-MPD-LP (LOW PRESSURE ≤ 4,000 PSI)
RMG-MPD-HP (4,000 PSI-20,000 PSI) Contact Required

50-19 (REV 0704)
BULKHEAD CONNECTORS
(MATES TO RMG FS & RMG-FS-R/A & RMG FS WOC)
Dummy Connector RMG FS D

Part Name: **RMG-BCL**
Material: 316 Stainless St., Internal Insulation-Special Neoprene
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-448
Pressure Rating, Mated: up to 20,000 psi

**RMG-BCL:** Special Insulating neoprene is permanently molded to the metal shell. These types of connectors are used where physical abuse would 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.

Part Name: **XSG-BCL**
Material: Glass Reinforced Epoxy
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-448
Pressure Rating, Mated: up to 20,000 psi

**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.

Part Name: **XSG-BCL-P-R/A**
Material: Glass Reinforced Epoxy
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-448
Pigtails; #18 AWG insulated #18 AWG
Pressure Rating, Mated: up to 20,000 psi

**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.

NOTE: Torque values referenced in this literature assume installation into dry metal threads. Please contact the factory for recommendations.
RMG-FS AND ASSOCIATED PARTS
MATEABLE BULKHEAD CONNECTORS

BULKHEAD CONNECTORS & MOUNTING REQUIREMENT
(MATES TO RMG FS & RMG-FS-R/A & RMG-FS WOC)
Dummy Connector: RMG-FSD

Part Name: XSG-PBC, XSG-PBCL
Material: Glass Reinforced Epoxy
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488
Pigtails: UF2 insulated #18 AWG
Pressure Rating, Mated: up to 5,000 psi

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

Part Name: XSG-PBCLM
Material: Glass Reinforced Epoxy
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488
Pigtails: UF2 insulated #18 AWG
Pressure Rating, Mated: up to 5,000 psi

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

NOTE: Torque values referenced in this literature assume installation into dry metal threads. Please contact the factory for recommendations.
BULKHEAD CONNECTORS
(MATES TO RMG FS & RMG-FS-R/A & RMG-FS WOC)
Dummy Connector: RMG-FSD

Part Names: RMGS-BC, RMGS-BCL
Material: 316 Stainless Steel
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488
Pressure Rating, Mated: up to 5,000 psi

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.

NOTE: Torque values referenced in this literature assume installation into dry metal threads. Please contact the factory for recommendations.
VMG-FS AND ASSOCIATED PARTS
REVERSED RUBBER MOLDED

IN-LINE SERIES

Material: Special Neoprene, Molded
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-448
Voltage Rating: 600 VDC-contact factory for higher voltage requirements
Pressure Rating, Mated: up to 20,000 psi

WOC CONNECTORS

Note: 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.

Part Names: VMG-FS WOC, VMG-MP WOC
Material: Special Neoprene, Molded
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-448
Voltage Rating: 600 VDC-contact factory for higher voltage requirements
Pressure Rating, Mated: up to 20,000 psi

LOCKING SLEEVES

G-MLS-D (AVAILABLE FOR VMG-MP (VMG-MP-WOC))
G-FLS-D (AVAILABLE FOR VMG-FS, VMG-FS-R/A, VMG-FS WOC)
G-FLS-X (AVAILABLE FOR VMG-FS) Must specify cable O.D.

Note: specify number of conductors when ordering

WOC CONNECTORS

VMG-FSD MATES TO VMG-MP
VMG-MPD MATES TO VMG-FS & VMG-FS-R/A & VMG-FS WOC

MATERIAL: SPECIAL NEOPRENE, MOLDED
PRESSURE RATING, MATED:
VMG-FSD-LP (LOW PRESSURE ≤ 4,000 PSI, NO CONTACT REQUIRED)
VMG-FSD-HP (4,000-20,000 PSI, CONTACT IS REQUIRED)
VMG-MPD (20,000 PSI)

Note: Must specify cable OD when using G-FLS-X
VMG-FS AND ASSOCIATED PARTS
MATEABLE BULKHEAD CONNECTORS

BULKHEAD CONNECTORS & MOUNTING REQUIREMENT
(MATES TO VMG-FS, VMG-FS-R/A & VMG-FS WOC)

Dummy Connector VMG-FS D

Part Name: VMG-BCL
Material: 316 Stainless St., Internal Insulation-Special Neoprene
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488
Pressure Rating, Mated: up to 20,000 psi

VMG-BCL; Special insulating neoprene is permanently molded to the metal shell. These types of connectors are used where physical abuse would 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.

Part Name: VSG-BCL
Material: Glass Reinforced Epoxy
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488
Pressure Rating, Mated: up to 20,000 psi

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.

Part Name: VSG-PBC
Material: Glass Reinforced Epoxy
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488
Pigtails: #18 AWG insulated
Pressure Rating, Mated: up to 5,000 psi

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

NOTE: Torque values referenced in this literature assume installation into dry metal threads. Please contact the factory for recommendations.
VMG-FS AND ASSOCIATED PARTS
MATEABLE BULKHEAD CONNECTORS

BULKHEAD CONNECTORS & MOUNTING REQUIREMENT
(MATES TO VMG FS & VMG-FS-R/A)

Part Name: **VSG-PBCL**
Material: Glass Reinforced Epoxy
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488
Pigtails: UL certified, 18 AWG insulated
Pressure Rating, Mated: up to 5,000 psi

**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.

![Diagram of VSG-PBCL](image)

Part Name: **VSG-PBCLM**
Material: Glass Reinforced Epoxy
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488
Pigtails: UL certified, 18 AWG insulated
Pressure Rating, Mated: up to 5,000 psi

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

![Diagram of VSG-PBCLM](image)

**NOTE**: Torque values referenced in this literature assume installation into dry metal threads. Please contact the factory for recommendations.
**RMK-FS AND ASSOCIATED PARTS**  
**STANDARD RUBBER MOLDED**

**IN-LINE SERIES**

*Note: Available with grippers, must specify.*

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

**WOC CONNECTORS**

*Note: 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. Inexpensive plastic syringes can be used as molds.*

**Part Names:** **RMK-FS WOC, RMK-MP WOC**  
**Material:** Special Neoprene, Molded  
**Contacts:** Brass, Hard Gold Plated per ASTM-B-488  
**Voltage Rating:** 600 VDC-contact factory for higher voltage requirements  
**Pressure Rating, Mated:** up to 20,000 psi

**LOCKING SLEEVES**

**DUMMY CONNECTORS**

*Note: specify number of conductors when ordering*
RMK-FS AND ASSOCIATED PARTS
MATEABLE BULKHEAD CONNECTORS

Part Name: RMK-BCL
Material: 316 Stainless St.; Internal Insulation: Special Neoprene
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488
Pressure Rating, Mated: up to 20,000 psi

RMK-BCL: Special Insulating neoprene is permanently molded to the metal shell. These types of connectors are used where physical abuse would 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.

Part Name: XSK-BCL
Material: Glass Reinforced Epoxy
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488
Pressure Rating, Mated: up to 20,000 psi

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.

Part Name: XSK-DEBCL
Material: Glass Reinforced Epoxy
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488
Pressure Rating, Mated: up to 20,000 psi from front side.

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.
VMK-FS AND 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 factory for higher voltage requirements
Pressure Rating, Mated: up to 20,000 psi

WOC CONNECTORS

Part Names: VMK-FS WOC, VMK-MP WOC
Material: Special Neoprene, Molded
Contacts: Brass, Hard Gold Plated per ASTM-B-488
Voltage Rating: 600 VDC-contact factory for higher voltage requirements
Pressure Rating, Mated: up to 20,000 psi

LOCKING SLEEVES

K-MLS-D (AVAILABLE FOR VMK-MP, VMK-MP WOC)
K-FLS-D (AVAILABLE FOR VMK-FS, VMK-FS-R/A, VMK-FS WOC)

DUMMY CONNECTORS

Notes: Specify number of conductors when ordering

VMK-FSD MATES TO VMK-MP
VMK-MPD MATES TO VMK-FS & VMK-FS R/A

Material: Special Neoprene, Molded
Pressure Rating, Mated:
VMK-FSD-LP (LOW PRESSURE ≤ 4,000 PSI, NO CONTACT REQUIRED)
VMK-FSD-HP (4,000-20,000 PSI CONTACT IS REQUIRED)
VMK-MPD (20,000 PSI, NO CONTACT REQUIRED)
VMK-FS AND ASSOCIATED PARTS
MATEABLE BULKHEAD CONNECTORS

BULKHEAD CONNECTORS
(MATES TO VMK-FS & VMK-FS-R/A & VMK FS WOC)
Dummy Connector VMK-FSD

Part Name: **VMK-BCL**
Material: 316 Stainless St.; Internal Insulation: Special Neoprene
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488
Pressure Rating, Mated: up to 20,000 psi

**VMK-BCL:** Special Insulating neoprene is permanently molded to the metal shell. These types of connectors are used where physical abuse would 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.

Part Name: **VSK-BCL**
Material: Glass Reinforced Epoxy
Contacts: Copper Alloy, Hard Gold Plated per ASTM-B-488
Pressure Rating, Mated: up to 20,000 psi

**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.

NOTE: Torque values referenced in this literature assume installation into dry metal threads. Please contact the factory for recommendations.
SPECIAL ASSEMBLIES
CABLE MOLDS AND CABLE SPLICES

SPECIAL ASSEMBLIES

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.

WYE MOLDS

<table>
<thead>
<tr>
<th>AVAILABLE MOLDS</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y-40</td>
<td>4 7/8 Inches</td>
<td>3 1/2 Inches</td>
<td>1 Inches</td>
</tr>
<tr>
<td>Y-50</td>
<td>6 3/4 Inches</td>
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<td>Y-70</td>
<td>9 1/2 Inches</td>
<td>5 1/2 Inches</td>
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</table>

BARREL MOLDS

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<tr>
<td>%-70</td>
<td>8 1/2 Inches</td>
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SPECIAL ASSEMBLIES
CABLE MOLDS AND CABLE SPLICES

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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</tbody>
</table>
SEA CON’s range of locking sleeves are available in Black (D), standard, previously standard: plastic or stainless steel (S), as shown on next page. Other materials may be available by special order.

USES: 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.

Notes: Cable diameter must be specified when ordering (long -X) Locking Sleeves.
X Size only uses 1/2 inch cable or smaller.
Notes: * VSF-FLS-D, G-FLS-X, K-FLS-X length will vary, depending on cable diameter.
# RUBBER MOLDED
## QUICK REFERENCE MATING TABLE

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<thead>
<tr>
<th>FEMALE SOCKET IN-LINE</th>
<th>MATEABLE MALE PLUG INLINE</th>
<th>MATEABLE METAL SHELL BULKHEAD</th>
<th>MATEABLE GLASS REINFORCED EPOXY BULKHEAD</th>
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<tbody>
<tr>
<td>RMA-FS</td>
<td>RMA-MP</td>
<td>RMA-BCL</td>
<td>XSA-BC, XSA-BCL</td>
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<td>XSB-BCL</td>
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<td>XSFDE-BCL (Formerly XSDE-BCL)</td>
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<td>RMG-BCL</td>
<td>XSG-BCL, XSG-BCL-P R/A</td>
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<td>RMGS-BC</td>
<td>XSG-PBC, XSG-PBCL, XSG-PBCLM</td>
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SPECIAL ASSEMBLIES
SEACON maintains all facilities necessary to furnish complete underwater and environmental electrical connector/cable systems, including Research and Development, Engineering, Manufacturing, Quality Control and Pressure Testing. As well as supplying our standard ‘off-the-shelf’ items, we have the capability to design and manufacture SPECIAL CUSTOMIZED CONNECTORS AND CABLE ASSEMBLIES to suit your individual needs.

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