Micro WET-CON SERIES

UNDERWATER ELECTRICAL WET-MATE CONNECTORS
# Micro WET-CON SERIES

## Micro WET-CON

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PRODUCT NEWS

Micro WET-CON and Micro WET-CON SPLIT SERIES
CONNECTOR ENHANCEMENTS

INTRODUCTION
As part of our continuous improvement process the SEACON Group consistently reviews its product ranges through both customer feedback and internal improvements. It is via these processes that SEACON identified a design enhancement to the Micro WET-CON connector ranges. This new design improvement has now been implemented not only across this connector range, but also the new Micro WET-CON Split Series.

DESIGN FEATURES
The design change is associated with the Male Pin connectors only and has been introduced to improve and extend the life of the connectors by decreasing the stresses that are applied to the sealing interface between the male contact pin and the sealing rubber around the pin during the connectors mate and de-mate cycles.

The newly designed male contact has a “Lead in” as part of the contact pin itself which replaces the current rubber lead in. The introduction of the new pin removes any potential wear to the sealing interface between the male contact pin and the sealing rubber around the pin which may occur with many repeated make and breaks of the connector pairs. The new pin will maintain the full connector sealing properties and will provide a greater life expectancy of the connectors.

The incorporation of this design change to the Male Pin connectors will not affect the existing Female Socket connectors currently being used by SEACON’s customers and therefore full intermateability will be maintained. In addition, SEACON would also like to confirm that pricing will also not be affected.

TESTING
This new pin design concept has been fully tested and has been utilized in both the U-MATE and SEA-MATE connector ranges for a number of years.

MCAT ATTACHABLE Micro WETCON
Due to global demand to terminate standard rubber molded connectors onto specialized or customer furnished cable, SEA CON Global Production has introduced an MCAT version of the successful Micro WET-CON connector series.

This new connector can be terminated virtually anywhere eliminating the need for shipping bulky long lengths of cable. In addition the end user is able to produce a reduced length termination without the need for additional cable splices and have one continuous cable diameter for the total length of the cable.

The MCAT connector is fully inter-mateable with like configured Micro WET-CON inline and bulkhead connectors. For further information and for cable jacket materials that can be accommodated please contact SEACON.
**APPLICATIONS**

Possible applications include: underwater television and lights, diver communications, ROV systems, submersibles, towed-array cable systems, current meters, animal migration research and food processing equipment.

**TESTING**

The Micro WET-CON range has undergone complete Qualification testing including low pressure soak tests, full mate/de-mate and high pressure cycling to 10,000 psi.

**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.

SEACON also prides itself with the ability to perform stringent quality conformance testing procedures which are in accordance with the MIL-SPEC programs.

**PART NUMBER SYSTEM - EXAMPLE**

<table>
<thead>
<tr>
<th>M C</th>
<th>I L</th>
<th>4</th>
<th>M</th>
<th>S / S</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Stainless Steel - Bulkheads Only (Standard is Brass)
- M - Male Plug
- F - Female Socket
- Number of Contacts
- IL - In-Line
- BH - Bulkhead
- DC - Dummy Connector
- Micro WET-CON Series

**NOTES:**

- For Locking Sleeves see page MWC 14.
**GENERAL INFORMATION**

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>MATERIAL</th>
</tr>
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<tbody>
<tr>
<td>MOLDED BODY</td>
<td>Neoprene</td>
</tr>
<tr>
<td>BULKHEAD BODY</td>
<td>Brass (CA #360)</td>
</tr>
<tr>
<td>CONTACTS</td>
<td>Brass-gold plated (CA #360)</td>
</tr>
<tr>
<td>GUIDE PINS</td>
<td>Stainless Steel (303 SS or 304 SS)</td>
</tr>
<tr>
<td>BULKHEAD N &amp; W</td>
<td>Brass (CA #360)</td>
</tr>
<tr>
<td>O-RING</td>
<td>Nitrile (formerly known as Buna N)</td>
</tr>
<tr>
<td>LOCKING SLEEVE</td>
<td>Polyacetal</td>
</tr>
<tr>
<td>IN-LINE CABLE</td>
<td>Neoprene</td>
</tr>
<tr>
<td>Standard Length:</td>
<td>#18 AWG (SO Cable)</td>
</tr>
<tr>
<td>(2, 3 &amp; 4 pin)</td>
<td>#20 AWG</td>
</tr>
<tr>
<td>(5, 6, 8, 10, 12 &amp; 16 pin):</td>
<td>24 inches (60cm)</td>
</tr>
<tr>
<td>HOOK-UP WIRE (BH)</td>
<td>TFE insulated wire</td>
</tr>
<tr>
<td>Standard Length:</td>
<td>#20 AWG</td>
</tr>
<tr>
<td>(2, 3 &amp; 4 pin):</td>
<td>#22 AWG</td>
</tr>
<tr>
<td>(5, 6 &amp; 8 pin):</td>
<td>12 inches (30cm)</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:**
- Contact SEACON for special order materials.
- Incorporation of special order cables will be determined on a case by case basis.
- Connectors are designed for installation on one atmosphere vessels. Contact SEACON for recommendations if using compensated vessels.
- * For metal shells only, for other materials contact SEACON for recommendations.

**AMPACITY CHART FOR STANDARD PARTS (18 & 20 AWG SO CABLE)**

<table>
<thead>
<tr>
<th>PART DESCRIPTION NUMBER OF CONTACTS</th>
<th>AMPACITY</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCBHIL-2</td>
<td>10 amps</td>
</tr>
<tr>
<td>MCBHIL-3</td>
<td>6 amps</td>
</tr>
<tr>
<td>MCBHIL-4</td>
<td>3 amps</td>
</tr>
<tr>
<td>MCBHIL-5</td>
<td>3 amps</td>
</tr>
<tr>
<td>MCBHIL-6</td>
<td>3 amps</td>
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<tr>
<td>MCBHIL-8</td>
<td>3 amps</td>
</tr>
<tr>
<td>MCBHIL-10</td>
<td>2.5 amps</td>
</tr>
<tr>
<td>MCBHIL-12</td>
<td>2.5 amps</td>
</tr>
<tr>
<td>MCBHIL-16</td>
<td>12 amps</td>
</tr>
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</table>

**STANDARD IN-LINE WIRING COLOR CODE (SO CABLE)**

<table>
<thead>
<tr>
<th>CONTACT #</th>
<th>COLOR</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>BLACK</td>
</tr>
<tr>
<td>2</td>
<td>WHITE</td>
</tr>
<tr>
<td>3</td>
<td>RED **</td>
</tr>
<tr>
<td>4</td>
<td>GREEN</td>
</tr>
<tr>
<td>5</td>
<td>ORANGE</td>
</tr>
<tr>
<td>6</td>
<td>BLUE</td>
</tr>
<tr>
<td>7</td>
<td>WHITE/BLACK</td>
</tr>
<tr>
<td>8</td>
<td>RED/BLACK</td>
</tr>
<tr>
<td>9</td>
<td>GREEN/BLACK</td>
</tr>
<tr>
<td>10</td>
<td>ORANGE/BLACK</td>
</tr>
<tr>
<td>11</td>
<td>BLUE/BLACK</td>
</tr>
<tr>
<td>12</td>
<td>BLACK/WHITE</td>
</tr>
<tr>
<td>13</td>
<td>RED/WHITE</td>
</tr>
<tr>
<td>14</td>
<td>GREEN/WHITE</td>
</tr>
<tr>
<td>15</td>
<td>BLUE/WHITE</td>
</tr>
<tr>
<td>16</td>
<td>BLACK/RED</td>
</tr>
</tbody>
</table>

**NOTE:**
- ** For 3 contact configurations wiring color code is GREEN.
**Micro WET-CON SERIES**

**MC-BH-M**  
(2 - 8 contacts)

Micro WET-CON Bulkhead Connector Male Plug
Mates with MC-IL-F
Dummy Connector: MC-DC-F

**MC-BH-F**  
(2 - 8 contacts)

Micro WET-CON Bulkhead Connector Female Socket
Mates with MC-IL-M
Dummy Connector: MC-DC-M

**HEX NUT AND WASHER**  
(2 - 8 contacts)

Micro WET-CON Bulkhead Connector

NOTES:
- Hex Nut and Washer: Optional.
- O-Ring: 2-014.
- Dummy Connector: Optional.
- Dummy Shorting Plug Connector: Optional.
- Connectors must be lubricated prior to mating.
- Torque values referenced in this literature assume installation into dry metal threads. For other applications, please contact SEACON for recommendations.
- Connectors are designed for installation on one atmosphere vessels. Contact SEACON for recommendations if using compensated vessels.

STD - BRASS  
(Stainless Steel and others upon request)
Micro WET-CON SERIES
MC-BH-M
(10 - 16 contacts)
Micro WET-CON Bulkhead Connector Male Plug
Mates with MC-IL-F
Dummy Connector: MC-DC-F

Micro WET-CON SERIES
MC-BH-F
(10 - 16 contacts)
Micro WET-CON Bulkhead Connector Female Socket
Mates with MC-IL-M
Dummy Connector: MC-DC-M

Micro WET-CON SERIES
HEX NUT AND WASHER
(10 - 16 contacts)
Micro WET-CON Bulkhead Connector

NOTES:
· Hex Nut and Washer: Optional.
· O-Ring: 2-015.
· Dummy Connector: Optional.
· Dummy Shorting Plug Connector: Optional.
· Connectors must be lubricated prior to mating.
· Torque values referenced in this literature assume installation into dry metal threads. For other applications, please contact SEACON for recommendations.
· Connectors are designed for installation on one atmosphere vessels. Contact SEACON for recommendations if using compensated vessels.

(STD - BRASS
(Stainless Steel and others upon request)
Micro WET-CON SERIES

MC-BH-M-DO (DOUBLE O-RING)
(2 - 8 contacts)

Micro WET-CON Bulkhead Connector Male Plug with Double O-Ring
Mates with MC-IL-F
Dummy Connector: MC-DC-F

NOTES:
· Hex Nut and Washer: Optional.
· Dummy Connector: Optional.
· Dummy Shorting Plug Connector: Optional. (Shorting plugs are available should you require the ability of looping together 'like' circuits for testing purposes within the dummy. Pin to pin shorting details need to be supplied at time of order placement).
· Connectors must be lubricated prior to mating.
· Torque values referenced in this literature assume installation into dry metal threads. For other applications, please contact SEACON for recommendations.
· Connectors are designed for installation on one atmosphere vessels. Contact SEACON for recommendations if using compensated vessels.

Micro WET-CON SERIES

MC-BH-F-DO (DOUBLE O-RING)
(2 - 8 contacts)

Micro WET-CON Bulkhead Connector Female Socket with Double O-Ring
Mates with MC-IL-M
Dummy Connector: MC-DC-M

NOTES:
· Hex Nut and Washer: Optional.
· Dummy Connector: Optional.
· Dummy Shorting Plug Connector: Optional. (Shorting plugs are available should you require the ability of looping together 'like' circuits for testing purposes within the dummy. Pin to pin shorting details need to be supplied at time of order placement).
· Connectors must be lubricated prior to mating.
· Torque values referenced in this literature assume installation into dry metal threads. For other applications, please contact SEACON for recommendations.
· Connectors are designed for installation on one atmosphere vessels. Contact SEACON for recommendations if using compensated vessels.

<table>
<thead>
<tr>
<th>PART NUMBER</th>
<th>PART DESCRIPTION</th>
</tr>
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<tbody>
<tr>
<td>A</td>
<td>MC-BH DOUBLE O-RING SHELL</td>
</tr>
<tr>
<td>B</td>
<td>NEOPRENE MOLDING</td>
</tr>
<tr>
<td>C</td>
<td>O-RING 2-012</td>
</tr>
<tr>
<td>D</td>
<td>O-RING 06-10325-1</td>
</tr>
<tr>
<td>E</td>
<td>WASHER</td>
</tr>
<tr>
<td>F</td>
<td>BULKHEAD LEADS</td>
</tr>
<tr>
<td>G</td>
<td>HEX NUT 7/16 - 20</td>
</tr>
</tbody>
</table>
**Micro WET-CON SERIES**

**MC-BH-M-DO (DOUBLE O-RING)**

(10 - 16 contacts)

**Micro WET-CON** Bulkhead Connector Male Plug with Double O-Ring
Mates with MC-IL-F
Dummy Connector: MC-DC-F

**Micro WET-CON SERIES**

**MC-BH-F-DO (DOUBLE O-RING)**

(10 - 16 contacts)

**Micro WET-CON** Bulkhead Connector Female Socket with Double O-Ring
Mates with MC-IL-M
Dummy Connector: MC-DC-M

---

**NOTES:**

- Bulkhead Locking Sleeve: Optional.
- Hex Nut and Washer: Optional.
- Dummy Connector: Optional.
- Dummy Shorting Plug Connector: Optional. (Shorting plugs are available should you require the ability of looping together 'like' circuits for testing purposes within the dummy. Pin to pin shorting details need to be supplied at time of order placement).
- Connectors must be lubricated prior to mating.
- Torque values referenced in this literature assume installation into dry metal threads. For other applications, please contact SEACON for recommendations.
- Connectors are designed for installation on one atmosphere vessels. Contact SEACON for recommendations if using compensated vessels.

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**PART NUMBER** | **PART DESCRIPTION**
---|---
A | MC-BH DOUBLE O-RING SHELL
B | NEOPRENE MOLDING
C | O-RING 06-10583-1
D | O-RING 06-10437-1
E | WASHER
F | HEX NUT 1/2-20
G | BULKHEAD LEADS
Micro WET-CON SERIES
MC-IL-M
(2 - 8 contacts)
Micro WET-CON In-Line Connector Male Plug
Mates with MC-IL-F & MC-BH-F
Dummy Connector: MC-DC-F

NOTES:
- Locking Sleeve: Optional (see page MWC 14).
- Dummy Connector: Optional.
- Dummy Shorting Plug Connector: Optional. (Shorting plugs are available should you require the ability of looping together ‘like’ circuits for testing purposes within the dummy. Pin to pin shorting details need to be supplied at time of order placement).
- Connectors must be lubricated prior to mating.
- * Incorporation of special order cables will be determined on a case-by-case basis.
**Micro WBT-CON SERIES**

**MC-IL-M**

*(10 - 16 contacts)*

Micro WBT-CON In-Line Connector Male Plug

Mates with MC-IL-F & MC-BH-F

Dummy Connector: MC-DC-F

---

**Micro WBT-CON SERIES**

**MC-IL-F**

*(10 - 16 contacts)*

Micro WBT-CON In-Line Connector Female Socket

Mates with MC-IL-M & MC-BH-M

Dummy Connector: MC-DC-M

---

**NOTES:**

- Locking Sleeve: Optional (see page MWC 14).
- Dummy Connector: Optional.
- Dummy Shorting Plug Connector: Optional. (Shorting plugs are available should you require the ability of looping together 'like' circuits for testing purposes within the dummy. Pin to pin shorting details need to be supplied at time of order placement).
- Connectors must be lubricated prior to mating.
- * Incorporation of special order cables will be determined on a case-by-case basis.
Micro WBT-CON SERIES
MC-DC-M
(2 - 8 contacts)
Micro WBT-CON Dummy Connector Male Plug
Mates with MC-IL-F & MC-BH-F

Micro WBT-CON SERIES
MC-DC-F
(2 - 8 contacts)
Micro WBT-CON Dummy Connector Female Socket
Mates with MC-IL-M & MC-BH-M

NOTES:
- Locking Sleeve: Optional (see page MWC 14).
- Dummy Shorting Plug Connector: Optional. (Shorting plugs are available should you require the ability of looping together 'like' circuits for testing purposes within the dummy. Pin to pin shorting details need to be supplied at time of order placement).
- Connectors must be lubricated prior to mating.
**Micro WBT-CON SERIES**

**MC-DC-M**

(10 - 16 contacts)

Micro WBT-CON Dummy Connector Male Plug
Mates with MC-IL-F & MC-BH-F

**NOTES:**

- Locking Sleeve: Optional (see page MWC 14).
- Dummy Shorting Plug Connector: Optional. (Shorting plugs are available should you require the ability of looping together 'like' circuits for testing purposes within the dummy. Pin to pin shorting details need to be supplied at time of order placement).
- Connectors must be lubricated prior to mating.

---

**Micro WBT-CON SERIES**

**MC-DC-F**

(10 - 16 contacts)

Micro WBT-CON Dummy Connector Female Socket
Mates with MC-IL-M & MC-BH-M
**Micro WBT-CON SERIES**

**MC-DLS-F**  
(2 - 8 contacts)  
Micro WBT-CON Dummy Locking Sleeve Female Socket

**MC-DLS-M**  
(2 - 8 contacts)  
Micro WBT-CON Dummy Locking Sleeve Male Plug

**DLSA-F**  
(10 - 16 contacts)  
Micro WBT-CON Dummy Locking Sleeve Female Socket

**DLSA-M**  
(10 - 16 contacts)  
Micro WBT-CON Dummy Locking Sleeve Male Plug

**NOTES:**
- * Not required for 2 to 8 way Bulkhead connectors. For In-Lines only.
- Locking Sleeves: Polyacetal.
Micro WBT-CON SERIES
MC-BH-M/F
THROUGH BORE OPTION
Micro WBT-CON Bulkhead Connector Male/Female

**SERIES**
**INTERFACE DETAILS**

<table>
<thead>
<tr>
<th>CONNECTOR</th>
<th>BORE Ø (INCHES)</th>
<th>THREAD</th>
<th>SPOT FACE Ø (INCHES)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC-BH (2-8)</td>
<td>0.437 -0.015 - 0.000</td>
<td>7/16-20 UNF-2B</td>
<td>0.88</td>
</tr>
<tr>
<td>MC-BH (10-16)</td>
<td>0.500 -0.015 - 0.000</td>
<td>1/2-20 UNF-2B</td>
<td>0.94</td>
</tr>
</tbody>
</table>

Micro WBT-CON SERIES
MC-BH-M/F
THREADED MOUNTING OPTION
Micro WBT-CON Bulkhead Connector Male/Female

**SERIES**
**INTERFACE DETAILS**

<table>
<thead>
<tr>
<th>CONNECTOR</th>
<th>A - LENGTH (INCHES)</th>
<th>B - Ø (INCHES)</th>
<th>C - Ø (INCHES)</th>
<th>D - THREAD</th>
<th>E - Ø (INCHES)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC-BH-DO (2-8)</td>
<td>0.425</td>
<td>0.475 0.473</td>
<td>0.88</td>
<td>7/16-20 UNF-2B</td>
<td>0.750 MIN</td>
</tr>
<tr>
<td>MC-BH-DO (10-16)</td>
<td>0.500</td>
<td>0.553 0.552</td>
<td>0.94</td>
<td>1/2-20 UNF-2B</td>
<td>1.000 MIN</td>
</tr>
<tr>
<td>SIZE</td>
<td>CONTACT CONFIGURATIONS</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>------</td>
<td>------------------------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2-8</td>
<td>MC-BH / MC-IL-2, MC-BH / MC-IL-3, MC-BH / MC-IL-4, MC-BH / MC-IL-5, MC-BH / MC-IL-6, MC-BH / MC-IL-8 **</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>10-16</td>
<td>MC-BH / MC-IL-10, MC-BH / MC-IL-12, MC-BH / MC-IL-16</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTES:**
- * For female face view contact configurations available please contact SEACON.
- ** Ethernet version available.

**KEY**
- GUIDE PIN
Micro WET-CON SPLIT SERIES
UNDERWATER ELECTRICAL WET-MATE CONNECTORS
## Micro WET-CON SPLIT SERIES

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<td><strong>In-Line Cable</strong></td>
<td>MWC 19</td>
</tr>
</tbody>
</table>

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- MC-BH-F (6 Contacts) .......... MWC 20
- MC-IL-M (6 Contacts) .......... MWC 20
- MC-DLS-F (6 Contacts) .......... MWC 20
- MC-BH-F (12 to 16 Contacts)   .......... MWC 21
- MC-IL-M (12 to 16 Contacts)   .......... MWC 21
- MC-DLSA-F/M (12 to 16 Contacts) .......... MWC 21

### Interface Details
- ................. MWC 22

### Contact Configurations
- ................. MWC 23
**Micro WET-CON Split SERIES**

UNDERWATER ELECTRICAL WET-MATE CONNECTORS

**INTRODUCTION**

SEACON has added a range of split connectors to its popular Micro WET-CON wet-mate series. This series of connectors was originally developed to provide all the features of the ALL-WET connector range, but in a miniature industry standard configuration. The split connector range prevents costly 'Y' assemblies and allows ease of replacement of break-outs by the customer. This smaller connector series offers the same flexibility and reliability as SEACON's standard rubber molded connectors, in a lightweight and user-friendly model.

**AVAILABILITY**

The Micro WET-CON Split series is currently available in six different configurations ranging from 6 to 16 contacts rated up to 600 VDC (dependent on cable) with a mated pressure rating of 10,000 psi.

**APPLICATIONS**

Applications include underwater television and lights, diver communications, ROV systems, submersibles, towed-array cable systems, current meters, animal migration research and food processing equipment.

**PART NUMBER SYSTEM - EXAMPLE**

<table>
<thead>
<tr>
<th>MC</th>
<th>IL</th>
<th>3/6</th>
<th>M</th>
</tr>
</thead>
<tbody>
<tr>
<td>M - Male Plug</td>
<td>F - Female Socket</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Total Number of Contacts</td>
<td>Number of Contacts Per Sector</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IL - In-Line</td>
<td>BH - Bulkhead</td>
<td></td>
<td></td>
</tr>
<tr>
<td>DC - Dummy Connector</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Micro WET-CON Split Series</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**TESTING**

The Micro WET-CON Split range has undergone complete Qualification testing including low pressure soak tests, full mate/de-mate and high pressure cycling to 10,000 psi.

**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.

SEACON also prides itself with the ability to perform stringent quality conformance testing procedures which are in accordance with the MIL-SPEC programs.

**GENERAL INFORMATION**

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>MATERIAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>MOLDED BODY</td>
<td>Neoprene</td>
</tr>
<tr>
<td>BULKHEAD BODY</td>
<td>Brass (CA #360)</td>
</tr>
<tr>
<td>CONTACTS</td>
<td>Brass-gold plated</td>
</tr>
<tr>
<td>BULKHEAD N &amp; W</td>
<td>Brass (CA #360)</td>
</tr>
<tr>
<td>O-RING</td>
<td>Nitrile (formerly known as Buna N)</td>
</tr>
<tr>
<td>LOCKING SLEEVE</td>
<td>Polyacetal</td>
</tr>
<tr>
<td>HOOK-UP WIRE</td>
<td>TFE insulated wire, #20 AWG</td>
</tr>
</tbody>
</table>

**VALUE**

<table>
<thead>
<tr>
<th>CATEGORY</th>
<th>VALUE</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPEN FACE PRESSURE</td>
<td>Up to 10,000 psi (700 bar) optional and needs to be specified</td>
</tr>
<tr>
<td>MATED PRESSURE</td>
<td>Up to 10,000 psi (700 bar)</td>
</tr>
<tr>
<td>VOLTAGE RATING</td>
<td>Up to 600 VDC (dependent on cable)</td>
</tr>
<tr>
<td>CURRENT RATING</td>
<td>Up to 19 amps per contact*</td>
</tr>
<tr>
<td>INSULATION RESISTANCE</td>
<td>&gt;200 megohms @ 300 VDC</td>
</tr>
<tr>
<td>CONTACT RESISTANCE</td>
<td>&lt;0.01 ohms</td>
</tr>
<tr>
<td>AIR MATE</td>
<td>&gt;1,000 cycles</td>
</tr>
<tr>
<td>UNDERWATER MATE</td>
<td>&gt;500</td>
</tr>
<tr>
<td>OPERATING TEMPERATURE</td>
<td>25° to 140°F (-4° to 60°C)</td>
</tr>
<tr>
<td>MOUNTING TORQUE</td>
<td>85 in-lb**</td>
</tr>
<tr>
<td></td>
<td>In dry stainless 1/2’ long Female threads</td>
</tr>
</tbody>
</table>

**IN-LINE CABLE**

<table>
<thead>
<tr>
<th>MODEL</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>MC-5/15</td>
<td>20/5 Neoprene jacket, rubber insulated 2.8 amp (300V). Color code: Contact 1 Black, Contact 2 White, Contact 3 Red, Contact 4 Green, Contact 5 Orange.</td>
</tr>
<tr>
<td>MC-2/6 &amp; MC-2/12</td>
<td>22/2 Neoprene jacket, TFE insulated wire 1.5 amp (600V). All contacts white and individually identified by color or flagged ends.</td>
</tr>
<tr>
<td>MC-8/16</td>
<td>22/8 Neoprene jacket, TFE insulated wire 1.0 amp (600V). All contacts white and individually identified by color or flagged ends.</td>
</tr>
<tr>
<td>MC-3/6 &amp; MC-3/15</td>
<td>22/TSP Neoprene jacket, TSP (Twisted Shielded Pair), TFE insulated wire 1.5 amp (600V). Color code: Contact 1 Black, Contact 2 White, Contact 3 Shield.</td>
</tr>
</tbody>
</table>

**NOTES:**

- * Maximum carrying capacity for contacts may be affected by cable selection.
- ** For metal shells only, for other materials contact SEACON for recommendations.
- * Connectors are designed for installation on one atmosphere vessels. Contact SEACON for recommendations if using compensated vessels.
**Micro WET-CON SPLIT SERIES**

**MC-BH-F**
(6 contacts)

Micro WET-CON Split Bulkhead Connector Female Socket

**MC-IL-M**
(6 contacts)

Micro WET-CON Split In-Line Connector Male Plug

**OPTIONAL PARTS**

**MC-DLS-F**
(6 contacts)

Micro WET-CON Split Dummy Locking Sleeve Female Socket

**HEX NUT AND WASHER**
(6 contacts)

Micro WET-CON Split Bulkhead Connector

**NOTES:**
- O-RING SIZE: 2-014
- For interface details please contact SEACON.

STD - BRASS
(Stainless Steel and others available upon request)
**Micro WET-CON SPLIT SERIES**

**MC-BH-F**
*(12 - 16 contacts)*

Micro WET-CON Split Bulkhead Connector Female Socket

**MC-IL-M**
*(12 - 16 contacts)*

Micro WET-CON Split In-Line Connector Male Plug

**MC-DLSA-F/M**
*(12 - 16 contacts)*

Micro WET-CON Split Dummy Locking Sleeve Female Socket/Male Plug

**MC-DC-M**

**OPTIONAL PARTS**

**Micro WET-CON SPLIT SERIES**

**MC-DLSA-F/M**
*(12 - 16 contacts)*

Micro WET-CON Split Dummy Locking Sleeve Female Socket/Male Plug

**Micro WET-CON SPLIT SERIES**

**HEX NUT AND WASHER**
*(12 - 16 contacts)*

Micro WET-CON Split Bulkhead Connector

**NOTES:**
- For interface details please contact SEACON.

**(Stainless Steel and others available upon request)**
**Micro WET-CON SPLIT SERIES**

**MC-BH * (6 contacts)**

**THROUGH BORE OPTION**

Micro WET-CON Bulkhead Connector

![Diagram of THROUGH BORE OPTION](image)

**MC-BH **

**(12 - 16 contacts)**

**THROUGH BORE OPTION**

Micro WET-CON Bulkhead Connector

![Diagram of THROUGH BORE OPTION](image)

**NOTES:**

· * This option requires the 7/16 Hex Nut, Washer and MIN Ø0.88 clearance on low pressure side of wall.

· * * This option requires the 7/16 Hex Nut, Washer and MIN Ø0.94 clearance on low pressure side of wall.
<table>
<thead>
<tr>
<th>SIZE</th>
<th>CONTACT CONFIGURATIONS (FEMALE FACE VIEW ONLY - NOT TO SCALE)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>6</td>
<td><img src="image1" alt="MC-BH-2/6-FS SPLIT" /> <img src="image2" alt="MC-BH-3/6-FS SPLIT" /></td>
</tr>
<tr>
<td>12-16</td>
<td><img src="image3" alt="MC-BH-2/12-FS SPLIT" /> <img src="image4" alt="MC-BH-3/15-FS SPLIT" /> <img src="image5" alt="MC-BH-5/15-FS SPLIT" /> <img src="image6" alt="MC-BH-8/16-FS SPLIT" /></td>
</tr>
</tbody>
</table>

NOTES:

· * For male face view contact configurations available please contact SEACON.
HANDLING PROCEDURES AND SPECIAL CAPABILITIES

Even though these procedures appear simple, only qualified technicians should perform the installation and maintenance. Connectors are designed for installation on one atmosphere vessels. Contact SEACON for recommendations if using compensated vessels.

INSTALLATION PROCEDURES

Torque values referenced in this literature assume installation into dry metal threads. For other applications, please contact SEACON for recommendations.

BULKHEAD CONNECTOR (BC): The BC may be installed using one of two methods. The preferred method is to spotface the bulkhead surface and thread the hole, then screw the connector by means of a nut and washer. The bored hole (or threaded hole) should be free of any “burr” and all o-ring sealing surfaces polished to a number 32 finish. Lubricate the BC o-ring with an appropriate silicon spray or grease before installing. This lubrication should be applied to form an adequate film. Excessive lubrication is detrimental to the operation of the connector. Bulkhead nut, if used, should not be over-torqued.

IN-LINE CONNECTOR: Lubricate the sealing areas around the male pins, using an appropriate silicon spray, or grease lightly.

CARE AND MAINTENANCE

The WET-CON and Micro WET-CON connectors require very little maintenance. They are designed to be used in harsh environments and thus limited amounts of dirt and grit do not affect their performance.

It is recommended that, upon disconnecting or retrieving the system, the connectors be cleaned, to storage (if possible, remate with dummy plugs). Prior to deployment the following maintenance procedure is recommended:

1. Demate the connector set.
2. Flush connector interface with fresh water (deionized water if available), remove all dirt, grit and grease.
3. Inspect for damage in sealing areas, excessive corrosion, debonding of the cable and connector interface and cuts in the cable jacket.
4. Apply thin film of dielectric compound (DC) grease, silicon based, to sealing areas of male connector and across the face of the female connector*. If the BC is removed from it’s housing then replace sealing areas, male connector and across the face of the female connector*. If the BC is removed from it’s housing then replace facial o-ring and make sure that o-rings are lubricated and in good condition.
5. Make the connector halves, wipe away any excess grease off the interface line of the mated set.

* CAUTION: The use of some oil-based propellants in spray cans can cause conductivity problems in neoprene.

CABLE AND CONTINUITY PRESERVATION

Avoid sharp bends in cables. Cables subjected to vibration or exposed to seawater drag should be adequately clamped to prevent conductor fatigue and ultimate failure.

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