



MILITARY & DEFENSE EDITION

**BM Series**  
**MIL-DTL-26482 Series 2**  
**MILITARY STYLE CONNECTORS**

- IP67 Rated Waterproof Connectors
- EMI-RFI Environmental Backshells
- Covers, Gaskets, Contacts, Tooling

# Milnec Interconnect Systems

## High-Performance Cylindrical Connectors

### About Us

**M**ILNEC INTERCONNECT SYSTEMS is a leader in the design, manufacture, and supply of high-performance cylindrical interconnect systems. From research stations in the Antarctic to spacecraft on the plains of Mars, our high-reliability connector systems conquer the most demanding environments. Milnec is a supplier to leading companies in 24 countries in the following industries:

- Military & Defense
- Aerospace & Space
- Railway & Mass Transit
- Industrial & Heavy Equipment
- Alternative Energy, Nuclear, Oil & Gas



### Logistics Solutions for Global Applications

Global logistics and support means we deliver products on time every time to any destination. To support your immediate requirements, we have extensive inventories, making most systems readily available for today's compressed design and production schedules. On average, custom connector solutions made to your exact configuration ship within seven days from the time of order placement.

- Worldwide shipping (restricted to NATO countries only)
- Web access to inventory, prices, & delivery information
- A large stock of popular parts for greater availability
- Competitive pricing and short lead times
- Impeccable customer service & technical support

#### Milnec Interconnect Systems

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(1-855-464-5632)

technical-support@milnec.com

U.S. Military Cage Code: 6STX5

NAICS Code: 423690

### High Reliability—Simplified

Just because your interconnect problem is complicated does not mean acquiring the solution has to be. Milnec connector systems and our "all-in-one" kits provide engineers the most complete and professional connector solutions with ease and technical clarity.

- Complete, high-reliability solutions
- Simple to understand technical data & configurations
- Online part builder tools, drawings, & documentation
- Field installable & serviceable



### Performance With Environmental Responsibility

RoHS compliant products are available to support environmental responsibility and legislative conformity. Through simple modification codes, Milnec provides a wide variety of material options to easily provide customers with fully compliant and eco-friendly connector components.

- RoHS compliant materials & finishes
- Simple material modification codes
- Lead-free solder contacts



### Highest Manufacturing Quality

We invest in the finest equipment and modern production processes to ensure that our connectors will exceed your quality and performance expectations. Our production processes include advanced computer numerical control machining, cosmetic and metal finishing, heat treatment, and stainless steel passivation.

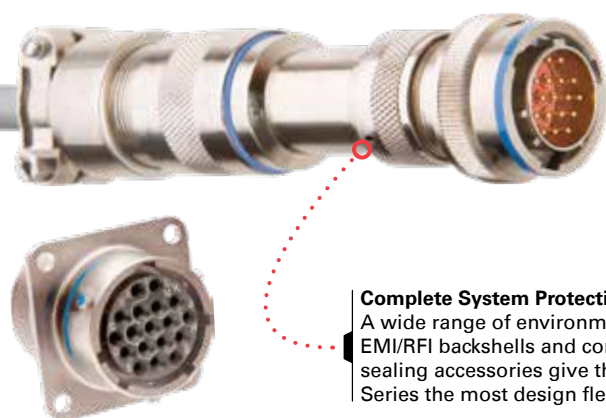
- Traceability on 100% of the parts
- Quick production lead times
- Quantity support from R&D to production
- "Just-in-time" delivery, kitting, & special packaging
- Rapid tooling & prototyping for custom designs



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### MIL-DTL-26482 Series 2 Compliant Connectors

The BM Series of connectors is built to MIL-DTL-26482 Series 2 standards and will meet or exceed all of the specifications for performance and durability. The connectors feature advanced bayonet coupling, crimp contacts, and 32 high-density insert arrangements for design flexibility. The BM series provides many connector shell styles unavailable in the mil-spec, including specialized thru-bulkhead and hermetic receptacles. For demanding applications requiring IP67 protection in a high-density, high-reliability, ruggedized crimp connector with the ease of quick-disconnect coupling, the BM Series provides a complete solution.



**Complete System Protection**  
A wide range of environmental EMI/RFI backshells and complete sealing accessories give the BM Series the most design flexibility.

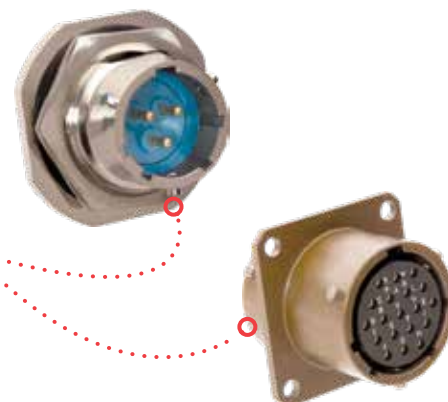
### Complete IP67 Rated Waterproof Connector Kits

BM Series connectors can be easily configured as complete kits that include everything you need for a reliable, IP67 rated environmental interconnect solution. Simply select the desired kit option on the part builder and your connector will come with all the matching sealing accessories you need for complete protection, right out of the box!

- Complete EMI/RFI environmental backshell kits
- More shell options, including thru-bulkheads
- Alternate material & RoHS compliant platings
- Complete set of matched sealing accessories



**Going Beyond the Mil-Spec**  
The BM Series provides many specialized shells like hermetic and thru-bulkheads receptacles not available under the mil-spec.



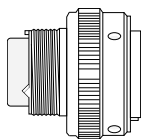
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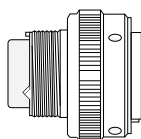
# Component Overview

BM Series • MIL-DTL-26482 Series 2 Type Connectors

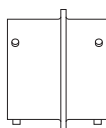
## Plugs



**Straight Plug**  
p. J-15

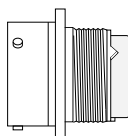


**Straight Plug  
with RFI Grounding Fingers**  
p. J-15

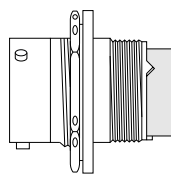


**Thru-Bulkhead**  
p. 21

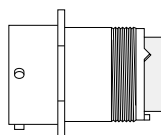
## Receptacles



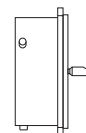
**Wall Mount**  
p. J-16



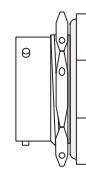
**Jam Nut**  
p. J-17



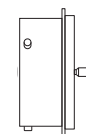
**Cable Mount**  
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**Box Mount (Hermetic)**  
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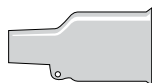


**Jam Nut (Hermetic)**  
p. J-21



**Solder Mount (Hermetic)**  
p. J-22

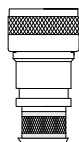
## Backshells



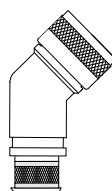
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**Shrink Boot**  
p. J-43



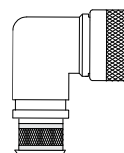
**90° Shrink Boot**  
p. J-44



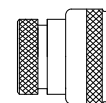
**EMI/RFI Banding Boot Adapters**  
**Straight**  
p. J-46



**45°**  
p. J-46



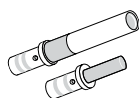
**90°**  
p. J-46



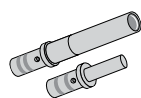
**Shrink Boot Adapter**  
p. J-45

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## Contacts

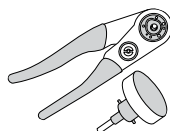


**Standard**  
p. J-8

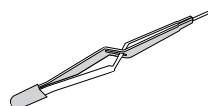


**Thermocouple**  
p. J-8

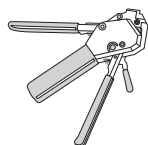
## Tools



**Crimper & Positioner**  
p. J-8



**Insertion/Extraction**  
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**Banding Tool**  
p. J-54

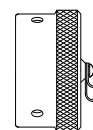


**Band**  
p. J-54

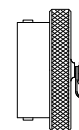


**Heat Gun**  
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## Covers



**Plug Cover**  
p. J-47

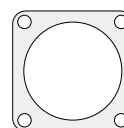


**Receptacle Cover**  
p. J-47

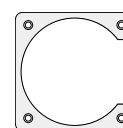


**Stowage Receptacle**  
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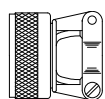
## Mounting



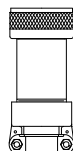
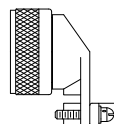
**Gasket**  
p. J-49



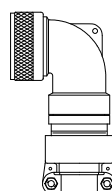
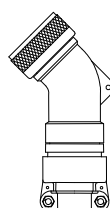
**Mounting Bracket**  
p. J-50



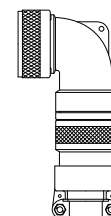
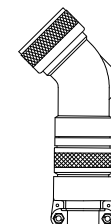
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**Environmental**  
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**45°** p. J-29  
**90°** p. J-31



**EMI/RFI Environmental**  
**Straight** p. J-34  
**45°** p. J-37  
**90°** p. J-39



# Series Specifications

BM Series • MIL-DTL-26482 Series 2 Type Connectors

## Performance Specifications

Built to meet or exceed MIL-DTL-26482 specifications  
Guaranteed fully compatible and interchangeable with respect to physical and performance characteristics with all existing MIL-DTL-26482 Series 2 military and commercial derivatives

## Environmental Characteristics

### Temperature Range

-67° to +392°F (-55° to +200°C)

Service life varies with the maximum internal hot spot temperature resulting from any combination of electrical load or ambient temperature:

77°F (25°C): Continuous

221°F (105°C): 45,000 hours

392°F (200°C): 1,000 hours

### Water Pressure

IP67 rating (environmental sealing) when used in conjunction with proper sealing accessories  
Fully submersible to 3.3 ft (1m) for minimum of 30 min

### Air Leakage Rate

#### Environmental

Air leakage not to exceed 1 inch<sup>3</sup>/hr (4.55 x10<sup>-3</sup> cm<sup>3</sup>/sec) at 30 psi (2.11 kg/cm<sup>2</sup>) pressure differential with all contact cavities filled

#### Hermetic

Helium leakage not to exceed 0.1 micron per ft<sup>3</sup>/hr (1.0 x10<sup>-6</sup> cc<sup>3</sup>/sec) at 15 psi (1.1 kg/cm<sup>2</sup>)

### Salt Spray Rating

See Materials & Finishes, p. J-9

### Humidity

Mated connectors shall maintain an insulation resistance of 100 megohms or greater at 77°F (25°C) with 95% humidity for duration of 20 days

### Chemical Resistance to Fluids

20 hour full immersion (unmated) in hydraulic fluid and lubricating oil without damage or material degradation

## Physical Characteristics

### Coupling

3-point bayonet, stainless steel bayonet pins spaced at 120° on receptacle shells, corresponding ramps on plug coupling ring with locking detent  
1/3 turn to couple and uncouple

### Coupling Torque

Engagement & Disengagement Force (max / min)

Shell Size 8: .67 ft-lb<sub>f</sub> (.904 N-m) / .08 ft-lb<sub>f</sub> (.113 N-m)

Shell Size 10: .83 ft-lb<sub>f</sub> (1.13 N-m) / .08 ft-lb<sub>f</sub> (.113 N-m)

Shell Size 12: 1.17 ft-lb<sub>f</sub> (1.58 N-m) / .17 ft-lb<sub>f</sub> (.226 N-m)

Shell Size 14: 1.42 ft-lb<sub>f</sub> (1.92 N-m) / .33 ft-lb<sub>f</sub> (.452 N-m)

Shell Size 16: 1.92 ft-lb<sub>f</sub> (2.60 N-m) / .33 ft-lb<sub>f</sub> (.452 N-m)

Shell Size 18: 2.17 ft-lb<sub>f</sub> (2.94 N-m) / .33 ft-lb<sub>f</sub> (.452 N-m)

Shell Size 20: 2.58 ft-lb<sub>f</sub> (3.50 N-m) / .50 ft-lb<sub>f</sub> (.678 N-m)

Shell Size 22: 3.16 ft-lb<sub>f</sub> (4.29 N-m) / .58 ft-lb<sub>f</sub> (.791 N-m)

Shell Size 24: 3.16 ft-lb<sub>f</sub> (4.29 N-m) / .58 ft-lb<sub>f</sub> (.791 N-m)

### Polarization

Single master key and keyway on top position of shell  
Four minor keys and keyways on shell

### Insert Arrangements

32 standard, custom inserts available

### Insert Rotations

Normal polarization (N), plus 4 alternate insert rotational polarizations (W, X, Y, Z)

## Endurance Characteristics

### Coupling Cycles

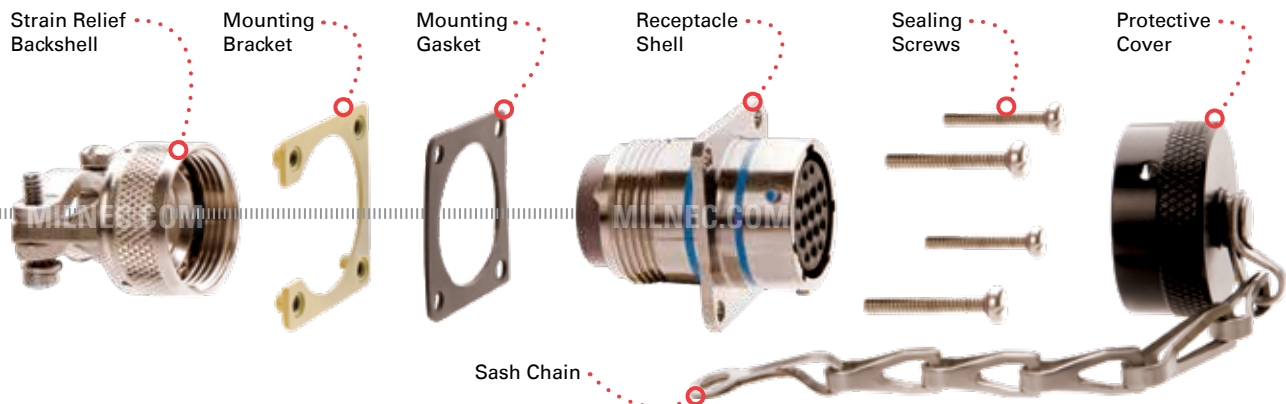
500 coupling cycles (minimum)

### Shock

50g's, 11ms duration, three major axes,  
10 microseconds maximum discontinuity

### Vibration

Random vibration at 10 to 2,000Hz (15g's),  
10 microseconds maximum discontinuity



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## Material Characteristics

### Shell

#### Environmental

Aluminum, solid, one piece, seamless construction

#### Hermetic

Carbon steel or stainless steel (special order)

### Shell Plating (Standard Finishes)

#### W Finish

Electrically conductive cadmium plate finish with an olive drab chromate after-treat for additional corrosion resistance (500 hr salt spray rating)

#### N Finish

Electrically conductive electroless nickel plating (48 hr salt spray rating)

#### H Finish (Hermetic)

Tin plate over nickel, suitable for soldering

### RFI Grounding Fingers

Corrosion resistant copper alloy

### Shell Conductivity

Maximum shell-to-shell conductivity potential drop shall not exceed the following:

#### With RFI Grounding Fingers

5 millivolts across assembly (N or W finish)

#### Without RFI Grounding Fingers

200 millivolts across assembly (N or W finish)

### Bayonet Pins

Passivated stainless steel

### Insert

Neoprene elastomer

Non-removable and mechanically bonded to shell

### Hermetic Insert

Vitreous (glass compression)

Non-removable and mechanically bonded to shell

### Protective Cover Chain

Passivated stainless steel, sash chain able to withstand a 25 lb (11.3 kg) tensile force without damage

### O-Ring Seal & Mounting Gasket

Neoprene or silicone

## Contact Characteristics

### Contact Design

#### Environmental

Removable, rear-release crimp contacts

#### Hermetic

Solder style, permanently bonded to insert

### Contact Sizes

#12, #16, #20

### Contacts

Copper alloy

### Contact Plating

#### Environmental

Gold plate, 50 μinches (1.27 μm) minimum

#### Hermetic

Tin plate, 50 μinches (1.27 μm) minimum

Gold plated contacts (special order)

### Max Number of Contacts

3 to 61 standard, custom inserts available

### Max Contact Resistance

9 milliohm maximum resistance

### Max Voltage Drop

<55 millivolt maximum drop (initial)

### Contact Retention

Pin and socket contacts are designed to resist severe vibration and repeated connection and disconnection

## Electrical Characteristics

### Current Rating

23 amps (test current) at 68°F (20°C)

### Max Operating Voltage

1,000 VAC (RMS) at sea level

### Insulation Resistance

>5,000 megohms at 77°F (25°C)

### Wire Size

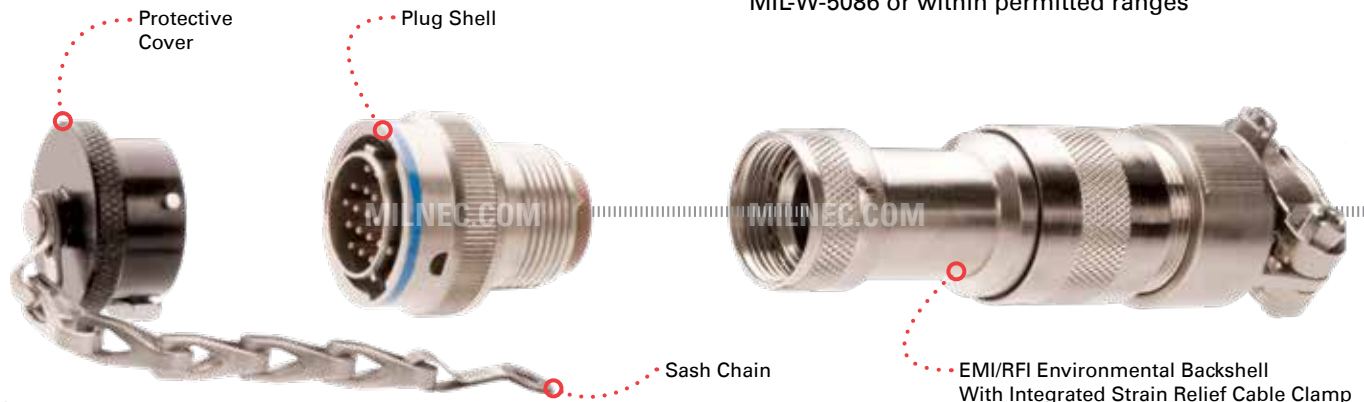
12 to 24 (AWG)

### Wire Sealing Range

Designed for individual wire sealing

Sealing is only guaranteed if wires meet

MIL-W-5086 or within permitted ranges



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# Contact Specifications

BM Series • MIL-DTL-26482 Series 2 Type Connectors

## Wire & Crimp Dimensions

| Contact Size | Wire Range |                       | Potential Drop (Millivolts) | Crimp Well Diameter | Min Crimp Well Depth | Finished Wire Diameter Sealing Range |             | Contact Retention Min Axial Load Pounds (Newtons) |
|--------------|------------|-----------------------|-----------------------------|---------------------|----------------------|--------------------------------------|-------------|---------------------------------------------------|
|              | AWG        | Dia                   |                             |                     |                      | Min                                  | Max         |                                                   |
| #20          | 20, 22, 24 | .020–.032 (.51–.81)   | <55                         | .049 (1.24)         | .155 (3.94)          | .040 (1.02)                          | .083 (2.11) | 15 (66.7)                                         |
| #16          | 16, 18, 20 | .032–.050 (.81–1.29)  | <50                         | .067 (1.70)         | .250 (6.35)          | .053 (1.35)                          | .103 (2.62) | 25 (111.2)                                        |
| #12          | 12, 14     | .064–.080 (1.62–2.05) | <42                         | .100 (2.50)         | .250 (6.35)          | .097 (2.46)                          | .158 (4.01) | 30 (133.4)                                        |

Dimensions are in inches (mm) unless otherwise noted.

## Current Rating By Contact Size & Wire Size

| Wire Size (AWG) | Contact Size |      |     |
|-----------------|--------------|------|-----|
|                 | #20          | #16  | #12 |
| 24              | 3A           |      |     |
| 20              | 7.5A         | 7.5A |     |
| 16              |              | 13A  |     |
| 14              |              |      | 17A |
| 12              |              |      | 23A |

Test ratings only. A connector cannot withstand maximum current through all contacts continuously. Please note that the establishment of electrical safety factors is left entirely in the designer's hands, since he or she is in the best position to know what peak voltage, switching surges, transients, etc. can be expected in a particular circuit.

## Contact Derating Specifications

| Service Rating | Max Operating Voltage Sea Level |       | Test Voltage       |                    |                    |                     |
|----------------|---------------------------------|-------|--------------------|--------------------|--------------------|---------------------|
|                | AC (RMS)                        | DC    | Sea Level AC (RMS) | 50,000 ft AC (RMS) | 70,000 ft AC (RMS) | 110,000 ft AC (RMS) |
|                |                                 |       |                    |                    |                    |                     |
| I              | 600                             | 850   | 1,500              | 500                | 375                | 200                 |
| II             | 1,000                           | 1,275 | 2,300              | 750                | 500                | 200                 |

Test ratings only. A connector cannot withstand maximum current through all contacts continuously. Please note that the establishment of electrical safety factors is left entirely in the designer's hands, since he or she is in the best position to know what peak voltage, switching surges, transients, etc. can be expected in a particular circuit.

## Torque Values For Cable Clamp Screws

| Screw Size | Recommended Torque |          |
|------------|--------------------|----------|
|            | Min                | Max      |
| #2-56      | 1.5 (.2)           | 2.5 (.3) |
| #4-40      | 3.5 (.4)           | 4.5 (.5) |
| #6-32      | 5 (.6)             | 7 (.8)   |
| #8-32      | 7 (.8)             | 9 (1.0)  |
| #10-32     | 9 (1.0)            | 11 (1.2) |
| #250-20    | 11 (1.2)           | 13 (1.5) |

Units are in inch pounds (Newton meters).

## Coupling Torque

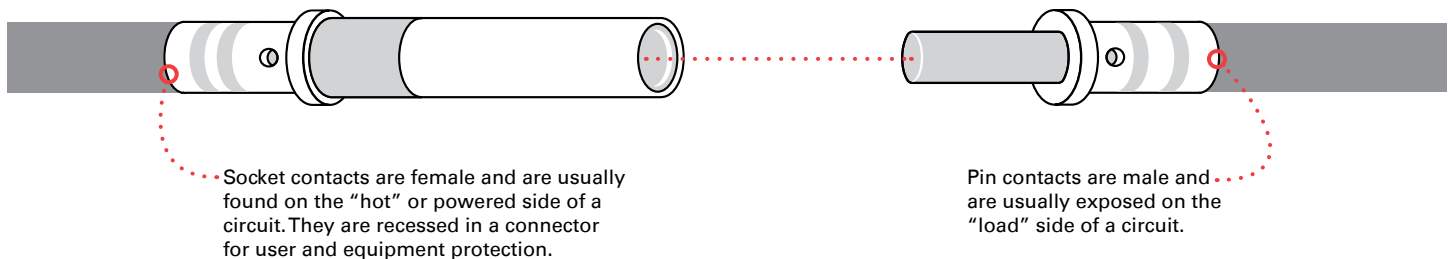
| Shell Size | Maximum Engagement & Disengagement | Minimum Disengagement |
|------------|------------------------------------|-----------------------|
| 8          | 8 (.904)                           |                       |
| 10         | 10 (1.13)                          | 1 (.113)              |
| 12         | 14 (1.58)                          | 2 (.266)              |
| 14         | 17 (1.92)                          |                       |
| 16         | 23 (2.60)                          | 4 (.452)              |
| 18         | 26 (2.94)                          |                       |
| 20         | 31 (3.50)                          | 6 (.678)              |
| 22         |                                    |                       |
| 24         | 38 (4.29)                          | 7 (.791)              |

Units are in inch pounds (Newton meters).

## Torque Values For Accessory Threads

| Shell Size | Recommended Torque |            |
|------------|--------------------|------------|
|            | Min                | Max        |
| 8          | 51 (5.8)           | 61 (6.9)   |
| 10         | 71 (8.0)           | 81 (9.2)   |
| 12         | 103 (11.6)         | 113 (12.8) |
| 14         | 111 (12.5)         | 121 (13.7) |
| 16         | 111 (12.5)         | 121 (13.7) |
| 18         | 111 (12.5)         | 121 (13.7) |
| 20         | 131 (14.8)         | 141 (15.9) |
| 22         | 131 (14.8)         | 141 (15.9) |
| 24         | 131 (14.8)         | 141 (15.9) |

Units are in inch pounds (Newton meters).



Rev. 2223

# Contact Specifications

BM Series • MIL-DTL-26482 Series 2 Type Connectors

## Standard Contacts, Sealing Plugs, & Tooling

| Contact Size | Contact Style | Part Number | Wire Size (AWG) | Wire Range (Dia)         | Jacket Strip Length | Crimping Tool            | Positioner (Turret) | Insertion Tool | Extraction Tool |
|--------------|---------------|-------------|-----------------|--------------------------|---------------------|--------------------------|---------------------|----------------|-----------------|
| #20          | Pin           | BMPP20      | 20, 22, & 24    | .020–.032<br>(.51–.81)   | .157 (4.00)         | TK101A<br>(Hand Crimper) | TP102               | TN205          | TX206           |
|              | Socket        | BMSS20      |                 |                          |                     |                          |                     |                |                 |
|              | Sealing Plugs | BMSP20      |                 |                          |                     |                          |                     |                |                 |
| #16          | Pin           | BMPP16      | 16, 18, & 20    | .032–.050<br>(.81–1.29)  | .236 (6.00)         |                          |                     | TN207          | TX208           |
|              | Socket        | BMSS16      |                 |                          |                     |                          |                     |                |                 |
|              | Sealing Plugs | BMSP16      |                 |                          |                     |                          |                     |                |                 |
| #12          | Pin           | BMPP12      | 12 & 14         | .064–.080<br>(1.62–2.05) | .236 (6.00)         |                          |                     | TN209          | TX210           |
|              | Socket        | BMSS12      |                 |                          |                     |                          |                     |                |                 |
|              | Sealing Plugs | BMSP12      |                 |                          |                     |                          |                     |                |                 |

Dimensions are in inches (mm) unless otherwise noted.

## Thermocouple Contacts & Tooling

| Contact Size   | Contact Style | Part Number | Wire Size (AWG) | Wire Range (Dia)        | Jacket Strip Length | Crimping Tool            | Positioner (Turret) | Insertion Tool | Extraction Tool |
|----------------|---------------|-------------|-----------------|-------------------------|---------------------|--------------------------|---------------------|----------------|-----------------|
| #20 Alumel     | Pin           | BMPA20      | 20, 22, & 24    | .020—.032<br>(.51—.81)  | .157 (4.00)         | TK101A<br>(Hand Crimper) | TP102               | TN205          | TX206           |
|                | Socket        | BMSA20      |                 |                         |                     |                          |                     |                |                 |
| #20 Chromel    | Pin           | BMPR20      |                 |                         |                     |                          |                     |                |                 |
|                | Socket        | BMSR20      |                 |                         |                     |                          |                     |                |                 |
| #20 Constantan | Pin           | BMPK20      |                 |                         |                     |                          |                     |                |                 |
|                | Socket        | BMSK20      |                 |                         |                     |                          |                     |                |                 |
| #20 Copper     | Pin           | BMPU20      |                 |                         |                     |                          |                     |                |                 |
|                | Socket        | BMSU20      |                 |                         |                     |                          |                     |                |                 |
| #20 Iron       | Pin           | BMPE20      |                 |                         |                     |                          |                     |                |                 |
|                | Socket        | BMSE20      |                 |                         |                     |                          |                     |                |                 |
| #16 Alumel     | Pin           | BMPA16      | 16, 18, & 20    | .032—.050<br>(.81—1.29) | .236 (6.00)         | TK101A<br>(Hand Crimper) | TP102               | TN207          | TX208           |
|                | Socket        | BMSA16      |                 |                         |                     |                          |                     |                |                 |
| #16 Chromel    | Pin           | BMPR16      |                 |                         |                     |                          |                     |                |                 |
|                | Socket        | BMSR16      |                 |                         |                     |                          |                     |                |                 |
| #16 Constantan | Pin           | BMPK16      |                 |                         |                     |                          |                     |                |                 |
|                | Socket        | BMSK16      |                 |                         |                     |                          |                     |                |                 |
| #16 Copper     | Pin           | BMPU16      |                 |                         |                     |                          |                     |                |                 |
|                | Socket        | BMSU16      |                 |                         |                     |                          |                     |                |                 |
| #16 Iron       | Pin           | BMPE16      |                 |                         |                     |                          |                     |                |                 |
|                | Socket        | BMSE16      |                 |                         |                     |                          |                     |                |                 |

Dimensions are in inches (mm) unless otherwise noted.

## BM Series Crimp Contacts

#20 

#16 

#12 



Milnec's versatile crimp tool with turret positioner allows the termination of all three contact sizes in the series (#12, #16, #20).

Rev. 2223

# Materials & Finishes

BM Series • MIL-DTL-26482 Series 2 Type Connectors

## BM Series Finishes

A connector's finish does more than simply provide good looks. The finish is a connector's first line of defense. It provides enhanced corrosion resistance and can be made conductive to provide electrical continuity across connector shells for EMI/RFI shielding applications. Olive drab cadmium and electroless nickel are the standard

finishes for the BM Series. Both finishes offer durability and corrosion resistance and will match the aesthetic design of most applications. In addition to the standard finishes, a number of specialty finishes are available for the BM Series, including RoHS compliant finishes for environmentally friendly designs. ■

## Standard BM Series Materials & Finishes

| Finish Code | Finish             | Hermetic Only | Electrically Conductive | RoHS Compliant | Appearance       | Shell Material | Salt Spray Rating | Recommended Operating Temperature Range |
|-------------|--------------------|---------------|-------------------------|----------------|------------------|----------------|-------------------|-----------------------------------------|
| W           | Olive Drab Cadmium |               | ✓                       |                | Drab Olive Green | Aluminum       | 500 hr            | -67° to +257°F (-55° to +125°C)         |
| N           | Electroless Nickel |               | ✓                       | ✓              | Bright Metal     | Aluminum       | 48 hrs            | -67° to +392°F (-55° to +200°C)         |
| H           | Tin Over Nickel    | ✓             |                         |                |                  | Carbon Steel   | 48 hrs            | -67° to +392°F (-55° to +200°C)         |

## Special BM Series Materials & Finishes\*

| Finish Code | Finish                                        | Hermetic Only | Electrically Conductive | RoHS Compliant | Appearance    | Shell Material | Salt Spray Rating | Recommended Operating Temperature Range |
|-------------|-----------------------------------------------|---------------|-------------------------|----------------|---------------|----------------|-------------------|-----------------------------------------|
| G           | Electroless Nickel (Space-Grade) <sup>‡</sup> |               | ✓+                      | ✓              | Bright Metal  | Aluminum       | 48 hrs            | -85° to +392°F (-65° to +200°C)         |
| B           | Hardcoat Anodize                              |               |                         | ✓              | Grey to Black | Aluminum       | 336 hrs           | -67° to +257°F (-55° to +125°C)         |
| C           | Zinc Cobalt                                   |               |                         | ✓              | Black         | Aluminum       | 125 hrs           | -67° to +257°F (-55° to +125°C)         |
| CC          |                                               |               | ✓                       | ✓              |               |                |                   |                                         |
| T           | Hard Anodic                                   |               |                         | ✓              | Grey          | Aluminum       | 500 hrs           | -67° to +257°F (-55° to +125°C)         |
| S           | Passivated                                    |               | ✓                       | ✓              | Matte Metal   | SST Steel      | 1,000 hrs         | -67° to +392°F (-55° to +200°C)         |
| HA          | Passivated                                    | ✓             | ✓                       | ✓              |               |                |                   |                                         |

\* Please consult an authorized distributor for lead time information and minimum quantity requirements for special order finishes. ‡ Outgassed per NASA specifications ASTM E-595 and EEE-INST-002.



### Electroless Nickel (Aluminum)

A general use standard finish in the BM Series. This smooth mirror-like finish is durable and impact resistant, with moderate corrosion resistance. Due to its excellent conductivity, electroless nickel is the preferred finish for EMI/RFI shielding applications. It has a recommended operating range of -67° to +257°F (-55° to +125°C).

### Olive Drab Cadmium (Aluminum)

A standard finish in the BM Series of connectors. It is electrically conductive for applications that require EMI/RFI shielding. Olive drab cadmium has excellent resistance to corrosion with a 500 hour salt spray rating. However, the finish is more susceptible to scratches from impact.

## RoHS Compliant Parts

Milnec provides a full offering of RoHS compliant finishes in conductive and non-conductive versions to best suit your application requirements.



Please consult the latest European Union general and regional regulations to ensure materials are appropriate for your application and compliance requirements.

# NOBODY LIKES AN A.O.G. GET THAT BIRD FLYING AGAIN.



## Connector Solutions for Military Aviation

Milnec connectors and backshells come standard in aerospace-grade aluminum, offering strength, durability, and light weight. With a full range of EMI/RFI environmental backshells, protective covers, and accessories we can solve any aviation interconnect problem. We'll get you back in the air quickly with our short production lead times.



# Part Builder

BM Series • MIL-DTL-26482 Series 2 Type Connectors

## How to Build Your BM Connector Part Number

A part number is comprised of a string of characters that represent the different elements of a connector. High-performance connectors are built to order from component form using a unique part number as a blueprint to specify particular characteristics. Each modifier of the part number represents a particular configuration.

Below is an example part number for a BM Series connector that designates, 1) BM Series wall mount receptacle, 2) electroless nickel finish over aluminum, 3) 25-35 insert arrangement, 4) pin contacts, 5) normal rotation, 6) EMI/RFI environmental backshell (dash number indicates backshell size), and 7) integrated accessory kit. ■

**BM00 N 25-35 P N - R2(150) - 03**

1 2 3 4 5 6 7

### 1 Series Shell Style

#### Standard Environmental Shells

- BM06** Plug, p. J-15
- BM05** Plug with RFI grounding fingers, p. J-15
- .....
- BM00** Wall mount receptacle, p. J-16
- BM01** Cable mount receptacle, p. J-18
- BM07** Jam nut receptacle, p. J-17

For non-standard shell styles including hermetic and thru-bulkhead receptacles, please see specific datasheet for part numbering and kitting options.

### 2 Material & Finish

- N** Electroless nickel (aluminum)  
48 hr. dynamic salt spray rating
- W** Olive drab cadmium (aluminum)  
500 hr. dynamic salt spray rating

For complete material and finish options, including hermetic and RoHS, see p. J-9.

### 3 Shell Size & Insert Arrangement

See Insert Arrangement Selection table, p. J-12

### 4 Contact Style

#### Standard Crimp Contacts

- P** Pin
- S** Socket
- A** Pin insert, supplied without contacts
- B** Socket insert, supplied without contacts

### 5 Insert Rotation

#### Normal Rotation

- N** Normal

#### Alternate Rotations

- W, X, Y, Z** Alternate rotations

See Insert Arrangement Selection table on p. J-12  
(not all rotations are available for every arrangement)

### 6 Optional Backshell Kit (Omit for None)

#### Strain Relief Backshell (Self-Locking)

- B2** Straight, p. J-23
- B4** 90°, p. J-24

#### Environmental Backshell

- E2 ( )** Straight, p. J-25
- E3 ( )** 45°, p. J-29
- E4 ( )** 90°, p. J-31

Supply specific Dash No. on referenced datasheet page for appropriate connector shell size.

#### EMI/RFI Environmental Backshell

- R2 ( )** Straight, p. J-34
- R3 ( )** 45°, p. J-37
- R4 ( )** 90°, p. J-39

Supply specific Dash No. on referenced datasheet page for appropriate connector shell size.

#### Shrink Boot & Boot Adapter

- K2** Straight boot, p. J-43, & adapter, p. J-45
- K4** 90° boot, p. J-44, & adapter, p. J-45

K2 supplied with recommended boot in 100 material, p. K-43.  
K4 supplied with recommended boot in 100 material, p. K-44.

#### Shrink Boot, EMI/RFI Banding Boot Adapter, & Band

- D2** Straight adapter, p. J-46, w/ boot & band
- D4** 90° adapter, p. J-46, w/ boot & band

Supplied with recommended straight boot in 100 material, p. J-43, and TB250 band, p. J-54.

### 7 Optional Accessory Kit (Omit for None)

#### 01 For Plugs:

Protective cover, p. J-47

#### 02 For Receptacles:

Protective cover, p. J-47 +  
Mounting gasket, p. J-49

#### 03 For Receptacles:

Protective cover, p. J-47 +  
Mounting gasket, p. J-49 +  
Mounting bracket, p. J-50  
with (4x) sealing screws

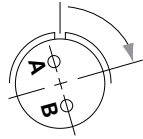
Kits with EMI/RFI Backshells will be supplied with BCGS RFI shielding gaskets.

BM

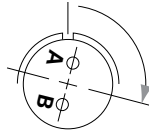
## Selecting Your Insert Arrangement & Rotation

**B**elow is a chart that represents every available shell and insert arrangement within the series. To choose the proper insert arrangement, you must first distinguish your application requirements for contact size and amount.

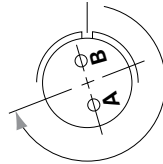
Rotations are designated at the time of ordering using rotation labels N (normal), W, X, Y, and Z. Some insert arrangements have limited or no alternate rotation options. Refer to the chart below for possible rotations for specific arrangements. ■



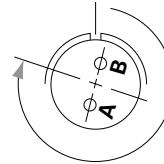
Position W



Position X



Position Y



Position Z

Looking into front face of pin insert or rear of socket insert.

## Insert Arrangement Selection

| Insert Arrangement | Total Contacts | Contact Size |     |     | Service Rating | Alternate Insert Rotation |      |      |      |
|--------------------|----------------|--------------|-----|-----|----------------|---------------------------|------|------|------|
|                    |                | #20          | #16 | #12 |                | W                         | X    | Y    | Z    |
| 8-33               | 3              | 3            |     |     | I              | 90°                       |      |      |      |
| 8-98               | 3              | 3            |     |     | I              |                           |      |      |      |
| 10-6               | 6              | 6            |     |     | I              | 90°                       |      |      |      |
| 12-3               | 3              |              | 3   |     | II             |                           |      | 180° |      |
| 12-8               | 8              | 8            |     |     | I              | 90°                       | 112° | 203° | 292° |
| 12-10              | 10             | 10           |     |     | I              | 60°                       | 155° | 270° | 295° |
| 14-4               | 4              |              |     | 4   | I              | 45°                       |      |      |      |
| 14-5               | 5              |              | 5   |     | I              | 40°                       | 92°  | 184° | 273° |
| 14-9               | 9              | 5            |     | 4   | I              | 15°                       | 90°  | 180° | 270° |
| 14-12              | 12             | 8            | 4   |     | I              | 43°                       | 90°  |      |      |
| 14-15              | 15             | 14           | 1   |     | I              | 17°                       | 110° | 155° | 234° |
| 14-18              | 18             | 18           |     |     | I              | 15°                       | 90°  | 180° | 270° |
| 14-19              | 19             | 19           |     |     | I              | 30°                       | 165° | 315° |      |
| 16-8               | 8              |              | 8   |     | II             | 54°                       | 152° | 180° | 331° |
| 16-23              | 23             | 22           | 1   |     | I              | 158°                      | 270° |      |      |
| 16-26              | 26             | 26           |     |     | I              | 60°                       |      | 275° | 338° |
| 18-8               | 8              |              |     | 8   | I              | 180°                      |      |      |      |
| 18-11              | 11             |              | 11  |     | II             | 62°                       | 119° | 241° | 340° |
| 18-30              | 30             | 29           | 1   |     | I              | 180°                      | 193° | 285° | 350° |
| 18-32              | 32             | 32           |     |     | I              | 85°                       | 138° | 222° | 265° |
| 20-16              | 16             |              | 16  |     | II             | 238°                      | 318° | 333° | 347° |
| 20-39              | 39             | 37           | 2   |     | I              | 63°                       | 144° | 252° | 333° |
| 20-41              | 41             | 41           |     |     | I              | 45°                       | 126° | 225° |      |
| 22-12              | 12             |              |     | 12  | I              |                           |      |      |      |
| 22-21              | 21             |              | 21  |     | II             | 16°                       | 135° | 175° | 349° |
| 22-32              | 32             | 32           |     |     | I              | 72°                       | 145° | 215° | 288° |
| 22-41              | 41             | 27           | 14  |     | I              | 39°                       | 135° | 264° |      |
| 22-55              | 55             | 55           |     |     | I              | 30°                       | 142° | 226° | 314° |
| 22-95              | 32             | 26           |     | 6   | I              | 26°                       | 180° | 266° |      |
| 24-19              | 19             |              |     | 19  | II             | 30°                       | 165° | 315° |      |
| 24-31              | 31             |              | 31  |     | I              | 90°                       | 225° | 255° |      |
| 24-61              | 61             | 61           |     |     | I              | 90°                       | 180° | 270° | 324° |

\* Option is unavailable if left blank.

# Insert Arrangement Drawings

BM Series • MIL-DTL-26482 Series 2 Type Connectors

Arrangement  
Service Rating  
Number of Contacts



**8-33**

I

3 x #20



**8-98**

I

3 x #20



**10-6**

I

6 x #20



**12-3**

II

3 x #16



**12-8**

I

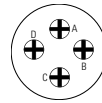
8 x #20



**12-10**

I

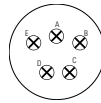
10 x #20



**14-4**

I

4 x #12

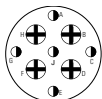


**14-5**

II

5 x #16

Arrangement  
Service Rating  
Number of Contacts

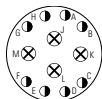


**14-9**

I

5 x #20

4 x #12

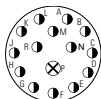


**14-12**

I

8 x #20

4 x #16

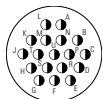


**14-15**

I

14 x #20

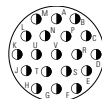
1 x #16



**14-18**

I

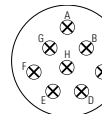
18 x #20



**14-19**

I

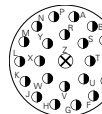
19 x #20



**16-8**

II

8 x #16

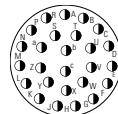


**16-23**

I

22 x #20

1 x #16

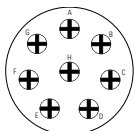


**16-26**

I

26 x #20

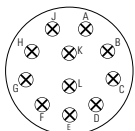
Arrangement  
Service Rating  
Number of Contacts



**18-8**

I

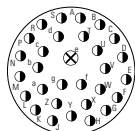
8 x #12



**18-11**

II

11 x #16

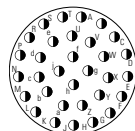


**18-30**

I

29 x #20

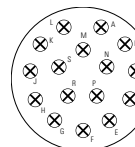
1 x #16



**18-32**

I

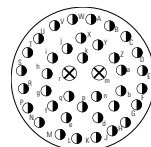
32 x #20



**20-16**

II

16 x #16



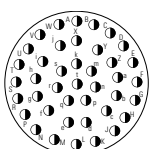
**20-39**

I

37 x #20

2 x #16

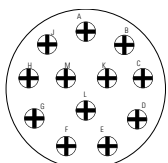
Arrangement  
Service Rating  
Number of Contacts



**20-41**

I

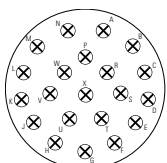
41 x #20



**22-12**

I

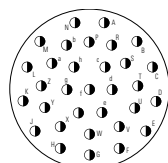
12 x #12



**22-21**

II

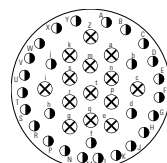
21 x #16



**22-32**

I

32 x #20



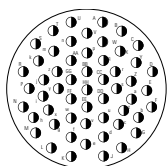
**22-41**

I

27 x #20

14 x #16

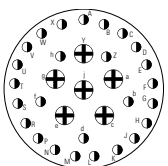
Arrangement  
Service Rating  
Number of Contacts



**22-55**

I

55 x #20

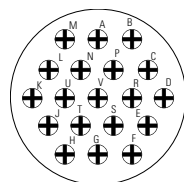


**22-95**

I

26 x #20

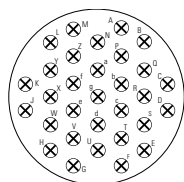
6 x #12



**24-19**

II

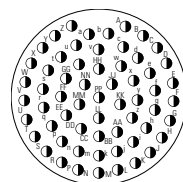
19 x #12



**24-31**

I

31 x #16



**24-61**

I

61 x #20

Contact Legend #12 ⊕ #16 ⊗ #20 ○

Rev. 2223

# CONNECTOR SOLUTIONS FOR THE MODERN BATTLEFIELD



## Mil-Spec Reliability with COTS Flexibility

BM Series connectors are built to the MIL-DTL-26482 standard and are compatible with all 26482 mil-spec components. They feature bayonet coupling for quick-disconnect convenience and crimp contacts for reliability, in addition to a wide array of protective accessories and mounting hardware that is unavailable in the mil-spec.

**MILNEC**  
INTERCONNECT SYSTEMS

# MS3475/MS3476 Connector Type Datasheet

BM Series • MIL-DTL-26482 Series 2 Type Connectors



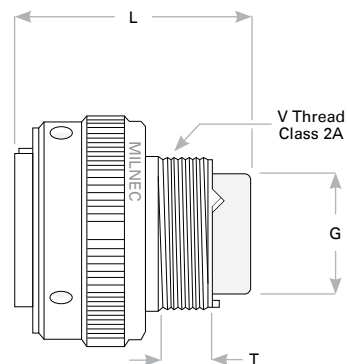
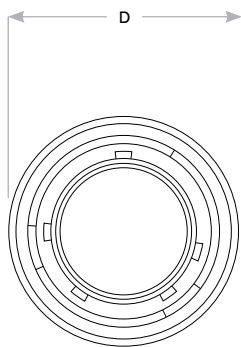
## BM06 Cross Reference & Compatibility

| Compatible Brands             | Equivalents    | Mates                          |
|-------------------------------|----------------|--------------------------------|
| <b>MIL-DTL-26482 Series 2</b> | MS3475, MS3476 | MS3470, MS3471, MS3472, MS3474 |
| <b>Aero / Conesys</b>         | AE775, AE776   | AE770, AE771, AE772, AE774     |
| <b>Amphenol / Matrix</b>      | MB16, MB18     | MB10, MB11, MB13, MB14         |
| <b>Deutsch</b>                | AFD56, AFD57   | AFD50, AFD51, AFD54, AFD58     |
| <b>Souriau</b>                | 8526-5, 8526-6 | 8526-0, 8526-7                 |

## Plug Dimensions

| Shell Size | D            | T          | L Max        | G            | V Thread Class 2A |
|------------|--------------|------------|--------------|--------------|-------------------|
| 8          | .782 (19.9)  | .290 (7.4) | 1.405 (35.7) | .305 (7.7)   | .500-20 UNF       |
| 10         | .926 (23.5)  | .290 (7.4) | 1.405 (35.7) | .405 (10.3)  | .625-24 UNEF      |
| 12         | 1.043 (26.5) | .290 (7.4) | 1.405 (35.7) | .531 (13.5)  | .750-20 UNEF      |
| 14         | 1.183 (30.0) | .290 (7.4) | 1.405 (35.7) | .665 (16.9)  | .875-20 UNEF      |
| 16         | 1.305 (33.1) | .290 (7.4) | 1.405 (35.7) | .790 (20.1)  | 1.000-20 UNEF     |
| 18         | 1.391 (35.3) | .290 (7.4) | 1.405 (35.7) | .869 (22.1)  | 1.062-18 UNEF     |
| 20         | 1.531 (38.9) | .290 (7.4) | 1.465 (37.2) | .994 (25.2)  | 1.188-18 UNEF     |
| 22         | 1.656 (42.1) | .290 (7.4) | 1.465 (37.2) | 1.119 (28.4) | 1.313-18 UNEF     |
| 24         | 1.777 (45.1) | .290 (7.4) | 1.465 (37.2) | 1.244 (31.6) | 1.438-18 UNEF     |

Dimensions are in inches (mm).



## BM06 N 14-18 P N - R2(017) - 01

- BASIC PART NUMBER**  
**BM06** Plug  
**BM05** Plug with RFI grounding fingers
- MATERIAL & FINISH**  
**N** Aluminum, electroless nickel  
**W** Aluminum, olive drab cadmium
- SHELL SIZE & INSERT ARRANGEMENT**  
 See Insert Arrangement Selection table, p. J-12
- CONTACT STYLE**  
**P** Pin  
**S** Socket
- INSERT ROTATION**  
**N** Normal or W, X, Y, Z, see p. J-12 for availability
- OPTIONAL BACKSHELL KIT (OMIT FOR NONE)**  
**B2** Straight strain relief (self-locking), p. J-23  
**R2( )** Straight EMI/RFI environmental, p. J-34  
 (Add dash number for appropriate shell size, see p. J-34)
- OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**  
**01** Protective Cover

**Note:** See part builder (p. J-11) for additional kit options.

# MS3470 Connector Type Datasheet

BM Series • MIL-DTL-26482 Series 2 Type Connectors

## BM00 N 14-18 S N - R2(017) - 03

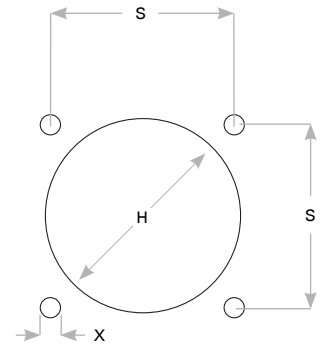
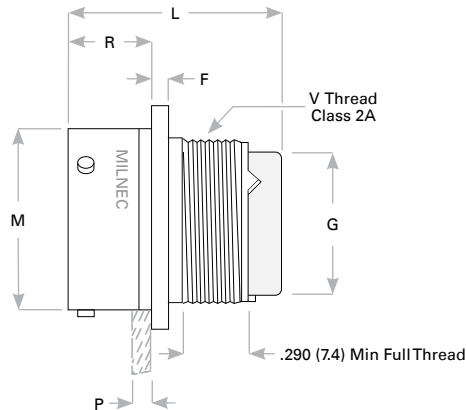
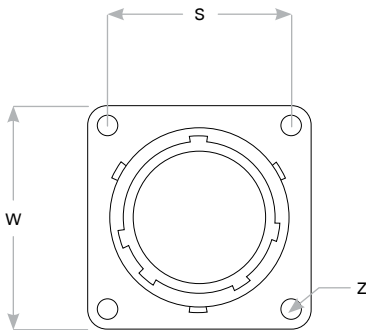
- 1 **BASIC PART NUMBER**  
BM00 Wall mount receptacle
- 2 **MATERIAL & FINISH**  
N Aluminum, electroless nickel  
W Aluminum, olive drab cadmium
- 3 **SHELL SIZE & INSERT ARRANGEMENT**  
See Insert Arrangement Selection table, p. J-12
- 4 **CONTACT STYLE**  
P Pin  
S Socket
- 5 **INSERT ROTATION**  
N Normal or W, X, Y, Z, see p. J-12 for availability
- 6 **OPTIONAL BACKSHELL KIT (OMIT FOR NONE)**  
B2 Straight strain relief (self-locking), p. J-23  
R2( ) Straight EMI/RFI environmental, p. J-34  
(Add dash number for appropriate shell size, see p. J-34)
- 7 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**  
02 Protective cover + mounting gasket  
03 02 kit + mounting bracket + sealing screws

**Note:** See part builder (p. J-11) for additional kit options.

## Receptacle Dimensions

| Shell Size | W            | Z          | R           | F          | M            | L Max        | G            | V Thread Class 2A | P Max Rear Panel† | S            | X          | H            |
|------------|--------------|------------|-------------|------------|--------------|--------------|--------------|-------------------|-------------------|--------------|------------|--------------|
| 8          | .828 (21.0)  | .120 (3.0) | .462 (11.7) | .062 (1.6) | .471 (12.0)  | 1.405 (35.7) | .305 (7.7)   | .500-20 UNF       | .087 (2.2)        | .594 (15.1)  | .125 (3.1) | .568 (14.4)  |
| 10         | .954 (24.2)  | .120 (3.0) | .462 (11.7) | .062 (1.6) | .588 (14.9)  | 1.405 (35.7) | .405 (10.3)  | .625-24 UNEF      | .087 (2.2)        | .719 (18.3)  | .125 (3.1) | .685 (17.4)  |
| 12         | 1.047 (26.6) | .120 (3.0) | .462 (11.7) | .062 (1.6) | .748 (19.0)  | 1.405 (35.7) | .531 (13.5)  | .750-20 UNEF      | .087 (2.2)        | .812 (20.6)  | .125 (3.1) | .864 (22.0)  |
| 14         | 1.141 (29.0) | .120 (3.0) | .462 (11.7) | .062 (1.6) | .873 (22.2)  | 1.405 (35.7) | .665 (16.9)  | .875-20 UNEF      | .087 (2.2)        | .906 (23.0)  | .125 (3.1) | .990 (25.2)  |
| 16         | 1.234 (31.3) | .120 (3.0) | .462 (11.7) | .062 (1.6) | .998 (25.3)  | 1.405 (35.7) | .790 (20.1)  | 1.000-20 UNEF     | .087 (2.2)        | .969 (24.6)  | .125 (3.1) | 1.113 (28.3) |
| 18         | 1.328 (33.7) | .120 (3.0) | .462 (11.7) | .062 (1.6) | 1.123 (28.5) | 1.405 (35.7) | .869 (22.1)  | 1.062-18 UNEF     | .087 (2.2)        | 1.062 (27.0) | .125 (3.1) | 1.240 (31.5) |
| 20         | 1.453 (36.9) | .120 (3.0) | .587 (14.9) | .094 (2.4) | 1.248 (31.7) | 1.465 (37.2) | .994 (25.2)  | 1.188-18 UNEF     | .212 (5.4)        | 1.156 (29.4) | .125 (3.1) | 1.363 (34.6) |
| 22         | 1.578 (40.1) | .120 (3.0) | .587 (14.9) | .094 (2.4) | 1.373 (34.9) | 1.465 (37.2) | 1.119 (28.4) | 1.313-18 UNEF     | .212 (5.4)        | 1.250 (31.8) | .125 (3.1) | 1.490 (37.9) |
| 24         | 1.703 (43.3) | .147 (3.7) | .620 (15.7) | .094 (2.4) | 1.498 (38.0) | 1.465 (37.2) | 1.244 (31.6) | 1.438-18 UNEF     | .212 (5.4)        | 1.375 (34.9) | .155 (4.0) | 1.616 (41.1) |

Dimensions are in inches (mm). † Max panel thickness applies only to rear mount applications to ensure proper coupling clearance.



Panel Cutout

# MS3474 Connector Type Datasheet

BM Series • MIL-DTL-26482 Series 2 Type Connectors



## BM07 Cross Reference & Compatibility

| Compatible Brands      | Equivalent | Mates          |
|------------------------|------------|----------------|
| MIL-DTL-26482 Series 2 | MS3474     | MS3475, MS3476 |
| Aero / Conesys         | AE774      | AE775, AE776   |
| Amphenol / Matrix      | MB14       | MB16, MB18     |
| Deutsch                | AFD54      | AFD56, AFD57   |
| Souriau                | 8526-7     | 8526-5, 8526-6 |

## BM07 N 14-18 S N - R2(017) - 02

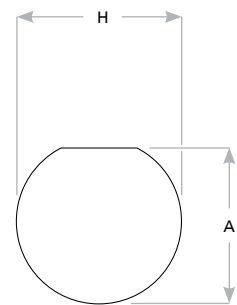
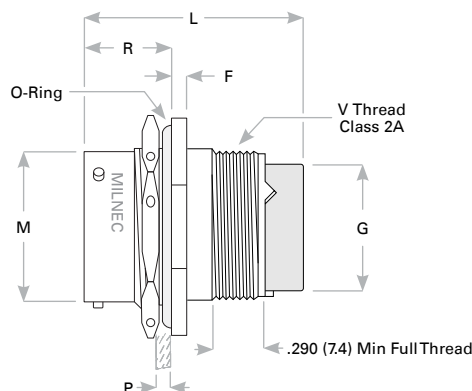
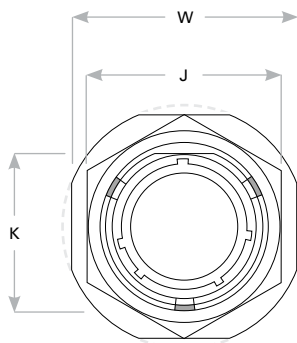
- 1 **BASIC PART NUMBER**  
BM07 Jam nut receptacle
- 2 **MATERIAL & FINISH**  
N Aluminum, electroless nickel  
W Aluminum, olive drab cadmium
- 3 **SHELL SIZE & INSERT ARRANGEMENT**  
See Insert Arrangement Selection table, p. J-12
- 4 **CONTACT STYLE**  
P Pin  
S Socket
- 5 **INSERT ROTATION**  
N Normal or W, X, Y, Z, see p. J-12 for availability
- 6 **OPTIONAL BACKSHELL KIT (OMIT FOR NONE)**  
B2 Straight strain relief (self-locking), p. J-23  
R2( ) Straight EMI/RFI environmental, p. J-34  
(Add dash number for appropriate shell size, see p. J-34)
- 7 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**  
02 Protective cover

**Note:** See part builder (p. J-11) for additional kit options.

## Receptacle Dimensions

| Shell Size | W            | K            | J            | L Max        | R           | F          | M            | G            | V Thread Class 2A | P Max Rear Panel† | H            | A            |
|------------|--------------|--------------|--------------|--------------|-------------|------------|--------------|--------------|-------------------|-------------------|--------------|--------------|
| 8          | .954 (24.2)  | .525 (13.3)  | .767 (19.5)  | 1.405 (35.7) | .707 (18.0) | .113 (2.9) | .471 (12.0)  | .305 (7.8)   | .500-20 UNF       | .187 (4.7)        | .572 (14.5)  | .536 (13.6)  |
| 10         | 1.078 (27.4) | .650 (16.5)  | .892 (22.7)  | 1.405 (35.7) | .707 (18.0) | .113 (2.9) | .588 (14.9)  | .405 (10.3)  | .625-24 UNEF      | .187 (4.7)        | .697 (17.7)  | .661 (16.8)  |
| 12         | 1.266 (32.2) | .813 (20.7)  | 1.079 (27.4) | 1.405 (35.7) | .707 (18.0) | .113 (2.9) | .748 (19.0)  | .531 (13.5)  | .750-20 UNEF      | .187 (4.7)        | .895 (22.7)  | .824 (20.9)  |
| 14         | 1.391 (35.3) | .937 (23.8)  | 1.205 (30.6) | 1.405 (35.7) | .707 (18.0) | .113 (2.9) | .873 (22.2)  | .665 (16.9)  | .875-20 UNEF      | .187 (4.7)        | 1.010 (25.7) | .948 (24.1)  |
| 16         | 1.516 (38.5) | 1.061 (26.9) | 1.329 (33.8) | 1.405 (35.7) | .707 (18.0) | .113 (2.9) | .998 (25.3)  | .790 (20.1)  | 1.000-20 UNEF     | .187 (4.7)        | 1.135 (28.8) | 1.072 (27.2) |
| 18         | 1.641 (41.7) | 1.186 (30.1) | 1.455 (37.0) | 1.405 (35.7) | .707 (18.0) | .113 (2.9) | 1.123 (28.5) | .869 (22.1)  | 1.062-18 UNEF     | .187 (4.7)        | 1.260 (32.0) | 1.197 (30.4) |
| 20         | 1.828 (46.4) | 1.311 (33.3) | 1.579 (40.1) | 1.465 (37.2) | .772 (19.6) | .148 (3.8) | 1.248 (31.7) | .994 (25.2)  | 1.188-18 UNEF     | .250 (6.4)        | 1.385 (35.2) | 1.322 (33.6) |
| 22         | 1.954 (49.6) | 1.436 (36.5) | 1.705 (43.3) | 1.465 (37.2) | .772 (19.6) | .148 (3.8) | 1.373 (34.9) | 1.119 (28.4) | 1.313-18 UNEF     | .250 (6.4)        | 1.510 (38.4) | 1.447 (36.8) |
| 24         | 2.078 (52.8) | 1.561 (39.6) | 1.829 (46.5) | 1.465 (37.2) | .772 (19.6) | .148 (3.8) | 1.498 (38.0) | 1.244 (31.6) | 1.438-18 UNEF     | .250 (6.4)        | 1.635 (41.5) | 1.572 (39.9) |

Dimensions are in inches (mm). † Max panel thickness applies only to rear mount applications to ensure proper coupling clearance.



Panel Cutout

# MS3471 Connector Type Datasheet

BM Series • MIL-DTL-26482 Series 2 Type Connectors

## BM01 N 14-18 S N - R2(017) - 02

- 1 **BASIC PART NUMBER**  
BM01 Cable mount receptacle
- 2 **MATERIAL & FINISH**  
N Aluminum, electroless nickel  
W Aluminum, olive drab cadmium
- 3 **SHELL SIZE & INSERT ARRANGEMENT**  
See Insert Arrangement Selection table, p. J-12
- 4 **CONTACT STYLE**  
P Pin  
S Socket
- 5 **INSERT ROTATION**  
N Normal or W, X, Y, Z, see p. J-12 for availability
- 6 **OPTIONAL BACKSHELL KIT (OMIT FOR NONE)**  
B2 Straight strain relief (self-locking), p. J-23  
R2( ) Straight EMI/RFI environmental, p. J-34  
(Add dash number for appropriate shell size, see p. J-34)
- 7 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**  
02 Protective cover

**Note:** See part builder (p. J-11) for additional kit options.



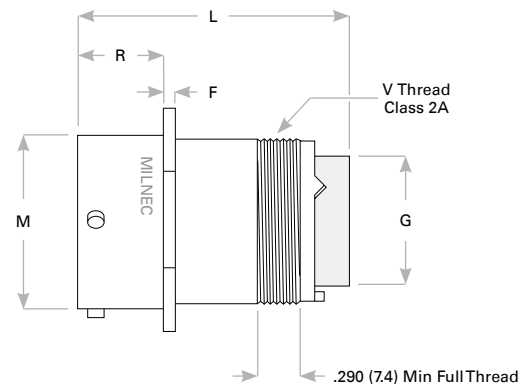
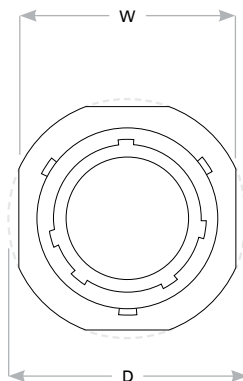
### BM01 Cross Reference & Compatibility

| Compatible Brands      | Equivalent | Mates          |
|------------------------|------------|----------------|
| MIL-DTL-26482 Series 2 | MS3471     | MS3475, MS3476 |
| Aero / Conesys         | AE771      | AE775, AE776   |
| Amphenol / Matrix      | MB13       | MB16, MB18     |
| Deutsch                | AFD51      | AFD56, AFD57   |
| Souriau                | —          | 8526-5, 8526-6 |

### Receptacle Dimensions

| Shell Size | W            | D            | L Max        | R           | F          | M            | G            | V Thread Class 2A |
|------------|--------------|--------------|--------------|-------------|------------|--------------|--------------|-------------------|
| 8          | .828 (21.0)  | .938 (23.8)  | 1.405 (35.7) | .462 (11.7) | .062 (1.6) | .471 (12.0)  | .305 (7.8)   | .500-20 UNF       |
| 10         | .954 (24.2)  | 1.062 (27.0) | 1.405 (35.7) | .462 (11.7) | .062 (1.6) | .588 (14.9)  | .405 (10.3)  | .625-24 UNEF      |
| 12         | 1.047 (26.6) | 1.156 (29.4) | 1.405 (35.7) | .462 (11.7) | .062 (1.6) | .748 (19.0)  | .531 (13.5)  | .750-20 UNEF      |
| 14         | 1.141 (29.0) | 1.250 (31.8) | 1.405 (35.7) | .462 (11.7) | .062 (1.6) | .873 (22.2)  | .665 (16.9)  | .875-20 UNEF      |
| 16         | 1.234 (31.3) | 1.344 (34.1) | 1.405 (35.7) | .462 (11.7) | .062 (1.6) | .998 (25.4)  | .790 (20.1)  | 1.000-20 UNEF     |
| 18         | 1.328 (33.7) | 1.438 (36.5) | 1.405 (35.7) | .462 (11.7) | .062 (1.6) | 1.123 (28.5) | .869 (22.1)  | 1.062-18 UNEF     |
| 20         | 1.453 (36.9) | 1.562 (39.7) | 1.465 (37.2) | .587 (14.9) | .094 (2.3) | 1.248 (31.7) | .994 (25.2)  | 1.188-18 UNEF     |
| 22         | 1.578 (40.1) | 1.688 (42.9) | 1.465 (37.2) | .587 (14.9) | .094 (2.3) | 1.373 (34.9) | 1.119 (28.4) | 1.313-18 UNEF     |
| 24         | 1.703 (43.3) | 1.812 (46.0) | 1.465 (37.2) | .620 (15.7) | .094 (2.3) | 1.498 (38.1) | 1.244 (31.6) | 1.438-18 UNEF     |

Dimensions are in inches (mm).



Rev. 2223

# Thru-Bulkhead Receptacle

BM Series • MIL-DTL-26482 Series 2 Type Connectors



## BM22 Compatibility

| Compatible Brands      | Mates          |
|------------------------|----------------|
| MIL-DTL-26482 Series 2 | MS3475, MS3476 |
| Aero / Conesys         | AE775, AE776   |
| Amphenol / Matrix      | MB16, MB18     |
| Deutsch                | AFD56, AFD57   |
| Souriau                | 8526-5, 8526-6 |

## BM22 W 14-19 PS N - 03

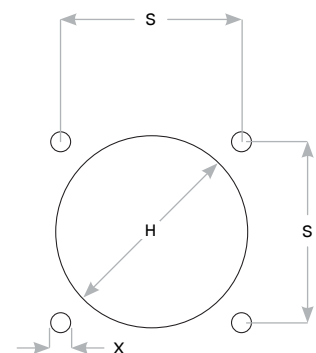
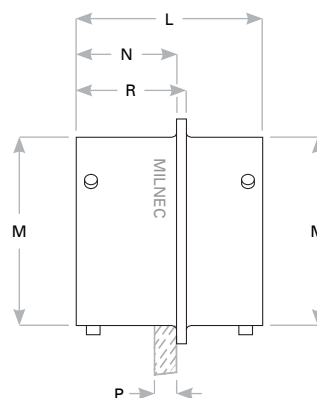
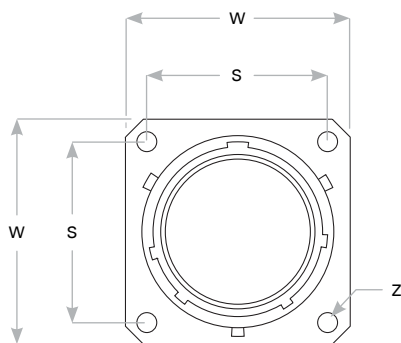
- 1 **BASIC PART NUMBER**  
BM22 Thru-bulkhead receptacle
- 2 **MATERIAL & FINISH**  
N Aluminum, electroless nickel  
W Aluminum, olive drab cadmium
- 3 **SHELL SIZE & INSERT ARRANGEMENT**  
See Insert Arrangement Selection table, p. J-12
- 4 **CONTACT STYLE**  
PS Pin / socket (non-configurable), gold plated
- 5 **INSERT ROTATION**  
N Normal or W, X, Y, Z, see p. J-12 for availability
- 6 **OPTIONAL ACCESSORY KIT** (OMIT FOR NONE)  
02 Protective covers (2x) + mounting gasket  
03 02 kit + mounting bracket + sealing screws

**Note:** See part builder (p. J-11) for additional kit options.

## Receptacle Dimensions

| Shell Size | W            | Z          | L<br>Max     | R           | N           | M            | P<br>Max Rear Panel† | S            | X          | H            |
|------------|--------------|------------|--------------|-------------|-------------|--------------|----------------------|--------------|------------|--------------|
| 8          | .812 (20.6)  | .120 (3.0) | 1.050 (26.7) | .625 (15.9) | .562 (14.3) | .473 (12.0)  | .215 (5.4)           | .594 (15.1)  | .120 (3.1) | .508 (12.9)  |
| 10         | .938 (23.8)  | .120 (3.0) | 1.050 (26.7) | .625 (15.9) | .562 (14.3) | .590 (15.0)  | .215 (5.4)           | .719 (18.3)  | .120 (3.1) | .634 (16.1)  |
| 12         | 1.031 (26.2) | .120 (3.0) | 1.050 (26.7) | .625 (15.9) | .562 (14.3) | .750 (19.1)  | .215 (5.4)           | .812 (20.6)  | .120 (3.1) | .760 (19.3)  |
| 14         | 1.125 (28.6) | .120 (3.0) | 1.050 (26.7) | .625 (15.9) | .562 (14.3) | .875 (22.2)  | .215 (5.4)           | .906 (23.0)  | .120 (3.1) | .882 (22.4)  |
| 16         | 1.219 (31.0) | .120 (3.0) | 1.050 (26.7) | .625 (15.9) | .562 (14.3) | 1.000 (25.4) | .215 (5.4)           | .969 (24.6)  | .120 (3.1) | 1.008 (25.6) |
| 18         | 1.312 (33.3) | .120 (3.0) | 1.050 (26.7) | .625 (15.9) | .562 (14.3) | 1.125 (28.6) | .215 (5.4)           | 1.062 (27.0) | .120 (3.1) | 1.134 (28.8) |
| 20         | 1.438 (36.5) | .120 (3.0) | 1.330 (33.8) | .781 (19.8) | .688 (17.5) | 1.250 (31.8) | .340 (8.6)           | 1.156 (29.4) | .120 (3.1) | 1.260 (32.0) |
| 22         | 1.562 (39.7) | .120 (3.0) | 1.330 (33.8) | .781 (19.8) | .688 (17.5) | 1.375 (34.9) | .340 (8.6)           | 1.250 (31.8) | .120 (3.1) | 1.382 (35.1) |
| 24         | 1.688 (42.9) | .147 (3.7) | 1.330 (33.8) | .781 (19.8) | .688 (17.5) | 1.500 (38.1) | .310 (7.8)           | 1.375 (34.9) | .147 (3.7) | 1.508 (38.3) |

Dimensions are in inches (mm). † Max panel thickness applies only to rear mount applications to ensure proper coupling clearance.



Panel Cutout

Rev. 2223

# Box Mount Receptacle (Hermetic)

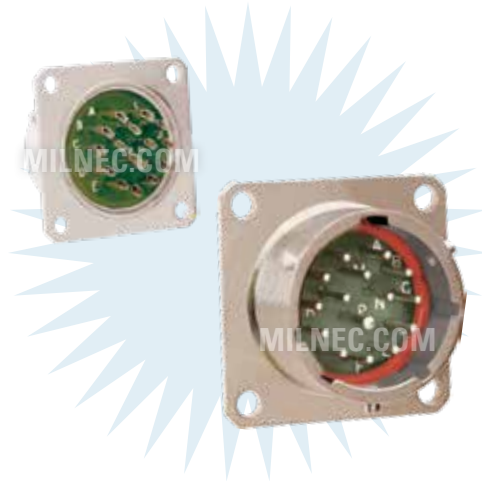
BM Series • MIL-DTL-26482 Series 2 Type Connectors

## BM12 H 14-15 P N - 03

1 2 3 4 5 6

- 1 **BASIC PART NUMBER**  
**BM12** Hermetic box mount receptacle  
Helium leakage < 1.0 x10<sup>-7</sup> cc<sup>3</sup>/sec at 15 psi
- 2 **MATERIAL & FINISH**  
**H** Carbon steel, tin plating over nickel
- 3 **SHELL SIZE & INSERT ARRANGEMENT**  
See Insert Arrangement Selection table, p. J-12
- 4 **CONTACT STYLE**  
**P** Pin, tin plated, solder cup termination  
**G\*** Pin, gold plated, solder cup termination  
**S\*** Socket, tin plated, solder cup termination  
**H\*** Socket, gold plated, solder cup termination
- 5 **INSERT ROTATION**  
**N** Normal or W, X, Y, Z, see p. J-12 for availability
- 6 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**  
**02** Protective cover + mounting gasket  
**03** 02 kit + mounting bracket + sealing screws

\* Please consult an authorized distributor for lead time and minimum quantity requirements.



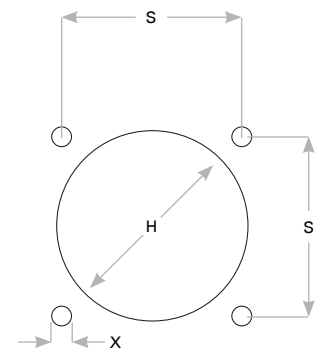
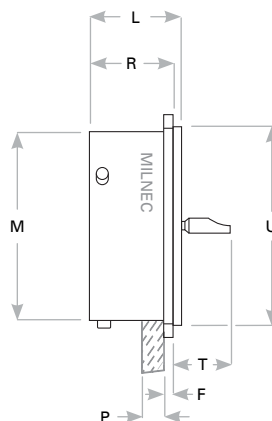
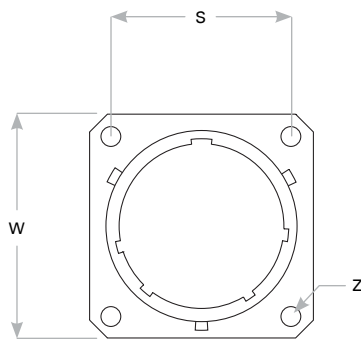
### BM12 Compatibility

| Compatible Brands             | Mates          |
|-------------------------------|----------------|
| <b>MIL-DTL-26482 Series 2</b> | MS3475, MS3476 |
| <b>Aero / Conesys</b>         | AE775, AE776   |
| <b>Amphenol / Matrix</b>      | MB16, MB18     |
| <b>Deutsch</b>                | AFD56, AFD57   |
| <b>Souriau</b>                | 8526-5, 8526-6 |

### Receptacle Dimensions

| Shell Size | W            | Z          | L Max       | R           | M            | F          | T          | U            | P Max Rear Panel† | S            | X          | H            |
|------------|--------------|------------|-------------|-------------|--------------|------------|------------|--------------|-------------------|--------------|------------|--------------|
| 8          | .812 (20.6)  | .120 (3.1) | .541 (13.8) | .494 (12.6) | .473 (12.0)  | .062 (1.6) | .344 (8.7) | .562 (14.3)  | .087 (2.2)        | .594 (15.1)  | .120 (3.1) | .449 (11.4)  |
| 10         | .938 (23.8)  | .120 (3.1) | .541 (13.8) | .494 (12.6) | .590 (15.0)  | .062 (1.6) | .344 (8.7) | .672 (17.1)  | .087 (2.2)        | .719 (18.3)  | .120 (3.1) | .573 (14.6)  |
| 12         | 1.031 (26.2) | .120 (3.1) | .541 (13.8) | .494 (12.6) | .750 (19.1)  | .062 (1.6) | .344 (8.7) | .781 (19.8)  | .087 (2.2)        | .812 (20.6)  | .120 (3.1) | .699 (17.8)  |
| 14         | 1.125 (28.6) | .120 (3.1) | .541 (13.8) | .494 (12.6) | .875 (22.2)  | .062 (1.6) | .344 (8.7) | .906 (23.0)  | .087 (2.2)        | .906 (23.0)  | .120 (3.1) | .823 (20.9)  |
| 16         | 1.219 (31.0) | .120 (3.1) | .541 (13.8) | .494 (12.6) | 1.000 (25.4) | .062 (1.6) | .344 (8.7) | 1.031 (26.2) | .087 (2.2)        | .969 (24.6)  | .120 (3.1) | .949 (24.1)  |
| 18         | 1.312 (33.3) | .120 (3.1) | .541 (13.8) | .494 (12.6) | 1.125 (28.6) | .062 (1.6) | .344 (8.7) | 1.156 (29.4) | .087 (2.2)        | 1.062 (27.0) | .120 (3.1) | 1.073 (27.3) |
| 20         | 1.438 (36.5) | .120 (3.1) | .603 (15.3) | .556 (14.1) | 1.250 (31.8) | .062 (1.6) | .344 (8.7) | 1.250 (31.8) | .212 (5.4)        | 1.156 (29.4) | .120 (3.1) | 1.199 (30.5) |
| 22         | 1.562 (39.7) | .120 (3.1) | .635 (16.1) | .556 (14.1) | 1.375 (34.9) | .062 (1.6) | .377 (9.6) | 1.375 (34.9) | .212 (5.4)        | 1.250 (31.8) | .120 (3.1) | 1.323 (33.6) |
| 24         | 1.688 (42.9) | .147 (3.7) | .667 (16.9) | .588 (14.9) | 1.500 (38.1) | .062 (1.6) | .377 (9.6) | 1.500 (38.1) | .212 (5.4)        | 1.375 (34.9) | .147 (3.7) | 1.449 (36.8) |

Dimensions are in inches (mm). † Max panel thickness applies only to rear mount applications to ensure proper coupling clearance.



Panel Cutout

Rev. 2223

# Jam Nut Receptacle (Hermetic)

BM Series • MIL-DTL-26482 Series 2 Type Connectors



## BM13 Compatibility

| Compatible Brands      | Mates          |
|------------------------|----------------|
| MIL-DTL-26482 Series 2 | MS3475, MS3476 |
| Aero / Conesys         | AE775, AE776   |
| Amphenol / Matrix      | MB16, MB18     |
| Deutsch                | AFD56, AFD57   |
| Souriau                | 8526-5, 8526-6 |

## BM13 H 12-3 P N - 02

- 1 **BASIC PART NUMBER**  
**BM13** Hermetic jam nut receptacle  
Helium leakage < 1.0 x10<sup>-7</sup> cc<sup>3</sup>/sec at 15 psi
- 2 **MATERIAL & FINISH**  
**H** Carbon steel, tin plating over nickel
- 3 **SHELL SIZE & INSERT ARRANGEMENT**  
See Insert Arrangement Selection table, p. J-12
- 4 **CONTACT STYLE**  
**P** Pin, tin plated, solder cup termination  
**G\*** Pin, gold plated, solder cup termination  
**S\*** Socket, tin plated, solder cup termination  
**H\*** Socket, gold plated, solder cup termination
- 5 **INSERT ROTATION**  
**N** Normal or W, X, Y, Z, see p. J-12 for availability
- 6 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**  
**02** Protective cover

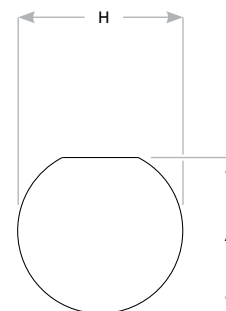
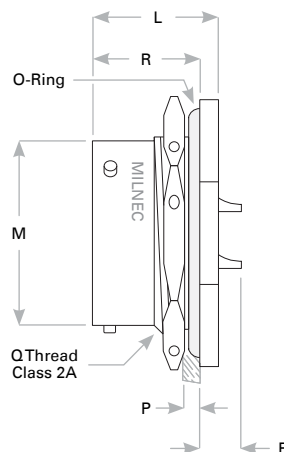
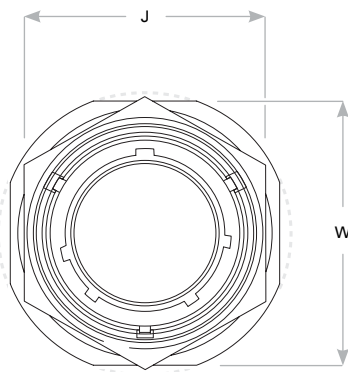
\* Please consult an authorized distributor for lead time and minimum quantity requirements.

**Note:** See part builder (p. J-11) for additional kit options.

## Receptacle Dimensions

| Shell Size | W            | J            | L Max        | R           | M            | E          | Q Thread Class 2A | P Max Rear Panel† | H            | A            |
|------------|--------------|--------------|--------------|-------------|--------------|------------|-------------------|-------------------|--------------|--------------|
| 8          | .938 (23.8)  | .750 (19.1)  | .790 (20.1)  | .696 (17.7) | .473 (12.0)  | .206 (5.2) | .563-24 NEF       | .125 (3.2)        | .572 (14.5)  | .542 (13.8)  |
| 10         | 1.062 (27.0) | .875 (22.2)  | .790 (20.1)  | .696 (17.7) | .590 (15.0)  | .206 (5.2) | .688-24 NEF       | .125 (3.2)        | .697 (17.7)  | .669 (17.0)  |
| 12         | 1.250 (31.8) | 1.062 (27.0) | .790 (20.1)  | .696 (17.7) | .750 (19.1)  | .206 (5.2) | .875-20 UNEF      | .125 (3.2)        | .884 (22.5)  | .830 (21.1)  |
| 14         | 1.375 (34.9) | 1.188 (30.2) | .790 (20.1)  | .696 (17.7) | .875 (22.2)  | .206 (5.2) | 1.000-20 UNEF     | .125 (3.2)        | 1.007 (25.6) | .955 (24.3)  |
| 16         | 1.500 (38.1) | 1.312 (33.3) | .790 (20.1)  | .696 (17.7) | 1.000 (25.4) | .206 (5.2) | 1.125-18 NEF      | .125 (3.2)        | 1.134 (28.8) | 1.084 (27.5) |
| 18         | 1.625 (41.3) | 1.438 (36.5) | .790 (20.1)  | .696 (17.7) | 1.125 (28.6) | .206 (5.2) | 1.250-18 NEF      | .125 (3.2)        | 1.259 (32.0) | 1.208 (30.7) |
| 20         | 1.812 (46.0) | 1.562 (39.7) | 1.009 (25.7) | .884 (22.5) | 1.250 (31.8) | .081 (2.1) | 1.375-18 NEF      | .250 (6.4)        | 1.384 (35.2) | 1.333 (33.9) |
| 22         | 1.938 (49.2) | 1.688 (42.9) | 1.009 (25.7) | .884 (22.5) | 1.375 (34.9) | .081 (2.1) | 1.500-18 NEF      | .250 (6.4)        | 1.507 (38.3) | 1.459 (37.1) |
| 24         | 2.062 (52.4) | 1.812 (46.0) | 1.042 (26.5) | .917 (23.3) | 1.500 (38.1) | .048 (1.2) | 1.625-18 NEF      | .250 (6.4)        | 1.634 (41.5) | 1.575 (40.0) |

Dimensions are in inches (mm). † Max panel thickness applies only to rear mount applications to ensure proper coupling clearance.



Panel Cutout

Rev. 2223

# Solder Mount Receptacle (Hermetic)

BM Series • MIL-DTL-26482 Series 2 Type Connectors

## BM19 H 14-19 P N

- 1 **BASIC PART NUMBER**  
**BM19** Hermetic solder mount receptacle  
Helium leakage < 1.0 x10<sup>-7</sup> cc<sup>3</sup>/sec at 15 psi
- 2 **MATERIAL & FINISH**  
**H** Carbon steel, tin plating over nickel
- 3 **SHELL SIZE & INSERT ARRANGEMENT**  
See Insert Arrangement Selection table, p. J-12
- 4 **CONTACT STYLE**  
**P** Pin, tin plated, solder cup termination  
**G\*** Pin, gold plated, solder cup termination  
**S\*** Socket, tin plated, solder cup termination  
**H\*** Socket, gold plated, solder cup termination
- 5 **INSERT ROTATION**  
**N** Normal or W, X, Y, Z, see p. J-12 for availability
- 6 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**  
**02** Protective cover

\* Please consult an authorized distributor for lead time and minimum quantity requirements.



### BM19 Compatibility

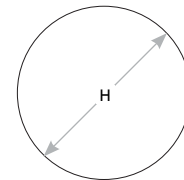
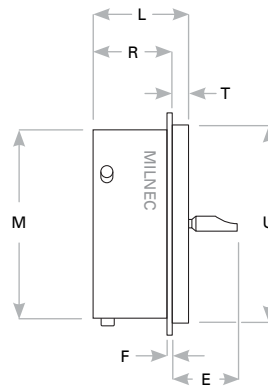
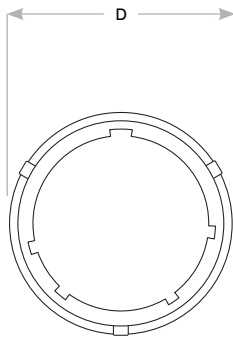
| Compatible Brands             | Mates          |
|-------------------------------|----------------|
| <b>MIL-DTL-26482 Series 2</b> | MS3475, MS3476 |
| <b>Aero / Conesys</b>         | AE775, AE776   |
| <b>Amphenol / Matrix</b>      | MB16, MB18     |
| <b>Deutsch</b>                | AFD56, AFD57   |
| <b>Souriau</b>                | 8526-5, 8526-6 |

**Note:** See part builder (p. J-11) for additional kit options.

## Receptacle Dimensions

| Shell Size | D            | L<br>Max    | R           | M            | F          | T          | E           | U            | H            |
|------------|--------------|-------------|-------------|--------------|------------|------------|-------------|--------------|--------------|
| 8          | .636 (16.2)  | .541 (13.8) | .447 (11.4) | .473 (12.0)  | .031 (0.8) | .094 (2.4) | .386 (9.8)  | .562 (14.3)  | .582 (14.8)  |
| 10         | .761 (19.3)  | .541 (13.8) | .447 (11.4) | .590 (15.0)  | .031 (0.8) | .094 (2.4) | .386 (9.8)  | .672 (17.1)  | .692 (17.6)  |
| 12         | .855 (21.7)  | .541 (13.8) | .447 (11.4) | .750 (19.1)  | .031 (0.8) | .094 (2.4) | .386 (9.8)  | .781 (19.8)  | .801 (20.4)  |
| 14         | .980 (24.9)  | .541 (13.8) | .447 (11.4) | .875 (22.2)  | .031 (0.8) | .094 (2.4) | .386 (9.8)  | .906 (23.0)  | .926 (23.5)  |
| 16         | 1.105 (28.1) | .541 (13.8) | .447 (11.4) | 1.000 (25.4) | .031 (0.8) | .094 (2.4) | .386 (9.8)  | 1.031 (26.2) | 1.051 (26.7) |
| 18         | 1.229 (31.2) | .541 (13.8) | .447 (11.4) | 1.125 (28.6) | .031 (0.8) | .094 (2.4) | .386 (9.8)  | 1.156 (29.4) | 1.176 (29.9) |
| 20         | 1.323 (33.6) | .603 (15.3) | .509 (12.9) | 1.250 (31.8) | .031 (0.8) | .094 (2.4) | .386 (9.8)  | 1.250 (31.8) | 1.395 (35.4) |
| 22         | 1.449 (36.8) | .634 (16.1) | .509 (12.9) | 1.375 (34.9) | .031 (0.8) | .125 (3.2) | .418 (10.6) | 1.375 (34.9) | 1.375 (34.9) |
| 24         | 1.574 (40.0) | .667 (17.0) | .542 (13.8) | 1.500 (38.1) | .031 (0.8) | .125 (3.2) | .418 (10.6) | 1.500 (38.1) | 1.520 (38.6) |

Dimensions are in inches (mm).



Panel Cutout

# Straight Strain Relief Backshell

BM Series • MIL-DTL-26482 Series 2 Type Connectors



## BMB2 - S - 16 N

- 1
- 2
- 3
- 4
- BASIC PART NUMBER**  
**BMB2** Straight strain relief backshell
- COUPLING STYLE**  
**N** Non-self-locking coupling  
**S** Self-locking coupling
- SHELL SIZE**  
See Strain Relief Dimensions table below
- MATERIAL & FINISH**  
**N** Aluminum, electroless nickel  
**W** Aluminum, olive drab cadmium

**Note:** See part builder (p. J-11) for additional kit options.

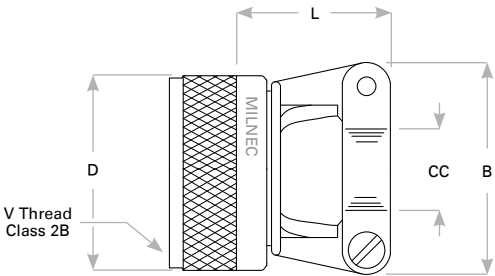
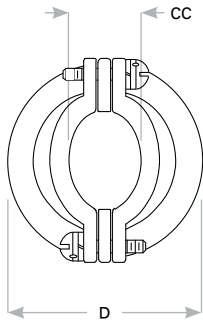
## BMB2 Compatibility

| Compatible Brands      | Connectors                                     |
|------------------------|------------------------------------------------|
| MIL-DTL-26482 Series 2 | MS3470, MS3471, MS3472, MS3474, MS3475, MS3476 |
| Aero / Conesys         | AE770, AE771, AE772, AE774, AE775, AE776       |
| Amphenol / Matrix      | MB10, MB11, MB13, MB14, MB16, MB18             |
| Deutsch                | AFD50, AFD51, AFD54, AFD56, AFD57, AFD58       |
| Souriau                | 8526-0, 8526-5, 8526-6, 8526-7                 |

## Strain Relief Dimensions

| Shell Size | D            | V Thread Class 2B | L            | B            | CC Cable Clearance |              |
|------------|--------------|-------------------|--------------|--------------|--------------------|--------------|
|            |              |                   |              |              | Min                | Max          |
| 8          | .885 (22.5)  | .500-20 UNF       | .730 (18.5)  | .732 (18.6)  | .125 (3.2)         | .204 (5.2)   |
| 10         | 1.010 (25.7) | .625-24 UNEF      | .850 (21.6)  | .812 (20.6)  | .187 (4.7)         | .286 (7.3)   |
| 12         | 1.135 (28.8) | .750-20 UNEF      | .980 (24.9)  | .968 (24.6)  | .291 (7.4)         | .416 (10.6)  |
| 14         | 1.260 (32.0) | .875-20 UNEF      | .980 (24.9)  | 1.026 (26.1) | .351 (8.9)         | .476 (12.1)  |
| 16         | 1.385 (35.2) | 1.000-20 UNEF     | 1.100 (27.9) | 1.299 (33.0) | .501 (12.7)        | .626 (15.9)  |
| 18         | 1.510 (38.4) | 1.062-18 UNEF     | 1.350 (34.3) | 1.431 (36.3) | .518 (13.2)        | .706 (17.9)  |
| 20         | 1.635 (41.5) | 1.188-18 UNEF     | 1.480 (37.6) | 1.537 (39.0) | .581 (14.8)        | .831 (21.1)  |
| 22         | 1.760 (44.7) | 1.313-18 UNEF     | 1.600 (40.6) | 1.633 (41.5) | .644 (16.4)        | .956 (24.3)  |
| 24         | 1.885 (47.9) | 1.438-18 UNEF     | 1.730 (43.9) | 1.755 (44.6) | .706 (17.9)        | 1.081 (27.5) |

Dimensions are in inches (mm).



Rev. 2223

# 90° Strain Relief Backshell

BM Series • MIL-DTL-26482 Series 2 Type Connectors

## BMB4 - S - 16 N

- 1 **BASIC PART NUMBER**  
BMB4 90° strain relief backshell
- 2 **COUPLING STYLE**  
N Non-self-locking coupling  
S Self-locking coupling
- 3 **SHELL SIZE**  
See Strain Relief Dimensions table below
- 4 **MATERIAL & FINISH**  
N Aluminum, electroless nickel  
W Aluminum, olive drab cadmium



**Note:** See part builder (p. J-11) for additional kit options.

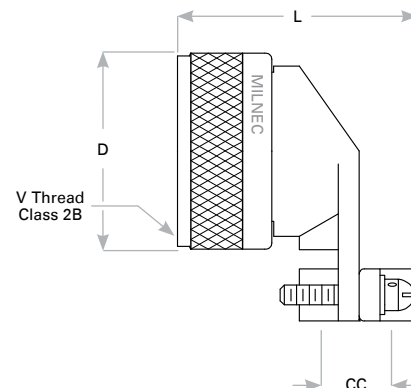
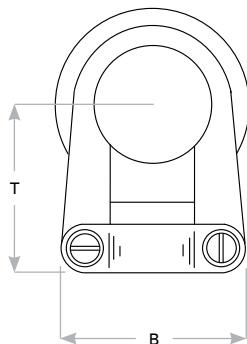
## BMB4 Compatibility

| Compatible Brands      | Connectors                                     |
|------------------------|------------------------------------------------|
| MIL-DTL-26482 Series 2 | MS3470, MS3471, MS3472, MS3474, MS3475, MS3476 |
| Aero / Conesys         | AE770, AE771, AE772, AE774, AE775, AE776       |
| Amphenol / Matrix      | MB10, MB11, MB13, MB14, MB16, MB18             |
| Deutsch                | AFD50, AFD51, AFD54, AFD56, AFD57, AFD58       |
| Souriau                | 8526-0, 8526-5, 8526-6, 8526-7                 |

## Strain Relief Dimensions

| Shell Size | T            | B            | V Thread Class 2B | L            | D            | CC Cable Clearance |              |
|------------|--------------|--------------|-------------------|--------------|--------------|--------------------|--------------|
|            |              |              |                   |              |              | Min                | Max          |
| 8          | .746 (18.9)  | .732 (18.6)  | .500-20 UNF       | 1.257 (31.9) | .885 (22.5)  | .125 (3.2)         | .204 (5.2)   |
| 10         | .805 (20.4)  | .812 (20.6)  | .625-24 UNEF      | 1.339 (34.0) | 1.010 (25.7) | .187 (4.7)         | .286 (7.3)   |
| 12         | .867 (22.0)  | .968 (24.6)  | .750-20 UNEF      | 1.532 (38.9) | 1.135 (28.8) | .291 (7.4)         | .416 (10.6)  |
| 14         | .930 (23.6)  | 1.026 (26.1) | .875-20 UNEF      | 1.592 (40.4) | 1.260 (32.0) | .351 (8.9)         | .476 (12.1)  |
| 16         | .994 (25.2)  | 1.299 (33.0) | 1.000-20 UNEF     | 1.741 (44.2) | 1.385 (35.2) | .501 (12.7)        | .626 (15.9)  |
| 18         | 1.171 (29.7) | 1.431 (36.3) | 1.062-18 UNEF     | 1.853 (47.1) | 1.510 (38.4) | .518 (13.2)        | .706 (17.9)  |
| 20         | 1.234 (31.2) | 1.537 (39.0) | 1.188-18 UNEF     | 1.978 (50.2) | 1.635 (41.5) | .581 (14.8)        | .831 (21.1)  |
| 22         | 1.296 (32.9) | 1.633 (41.5) | 1.313-18 UNEF     | 2.108 (53.5) | 1.760 (44.7) | .644 (16.4)        | .956 (24.3)  |
| 24         | 1.358 (34.5) | 1.755 (44.6) | 1.438-18 UNEF     | 2.228 (56.6) | 1.885 (47.9) | .706 (17.9)        | 1.081 (27.5) |

Dimensions are in inches (mm).



Rev. 2223

# Straight Environmental Backshell

BM Series • MIL-DTL-26482 Series 2 Type Connectors



## BME2 - 009 N

- 1 BASIC PART NUMBER
- 2 DASH NO.
- 3 MATERIAL & FINISH

BME2 Straight environmental backshell

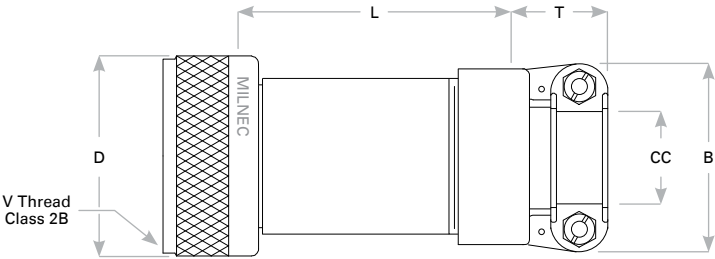
See Backshell Dimensions table below

N Aluminum, electroless nickel  
W Aluminum, olive drab cadmium

Note: See part builder (p. J-11) for additional kit options.

## BME2 Compatibility

| Compatible Brands      | Connectors                                     |
|------------------------|------------------------------------------------|
| MIL-DTL-26482 Series 2 | MS3470, MS3471, MS3472, MS3474, MS3475, MS3476 |
| Aero / Conesys         | AE770, AE771, AE772, AE774, AE775, AE776       |
| Amphenol / Matrix      | MB10, MB11, MB13, MB14, MB16, MB18             |
| Deutsch                | AFD50, AFD51, AFD54, AFD56, AFD57, AFD58       |
| Souriau                | 8526-0, 8526-5, 8526-6, 8526-7                 |



## Backshell Dimensions

| Dash No. | Shell Size | V Thread Class 2B | T            | D           | B            | L            | CC Cable Clearance |             |
|----------|------------|-------------------|--------------|-------------|--------------|--------------|--------------------|-------------|
|          |            |                   |              |             |              |              | Min                | Max         |
| 005      | 8          | .500-20 UNF       | 1.027 (26.1) | .617 (15.7) | .957 (24.3)  | 2.125 (54.0) | .125 (3.2)         | .250 (6.4)  |
| 006      | 8          | .500-20 UNF       | 1.027 (26.1) | .617 (15.7) | .957 (24.3)  | 3.125 (79.4) | .125 (3.2)         | .250 (6.4)  |
| 007      | 8          | .500-20 UNF       | 1.027 (26.1) | .617 (15.7) | 1.145 (29.1) | 2.875 (73.0) | .250 (6.4)         | .437 (11.1) |
| 008      | 8          | .500-20 UNF       | 1.027 (26.1) | .617 (15.7) | 1.145 (29.1) | 3.875 (98.4) | .250 (6.4)         | .437 (11.1) |
| 009      | 10         | .625-24 UNEF      | 1.027 (26.1) | .734 (18.6) | .957 (24.3)  | 2.125 (54.0) | .125 (3.2)         | .312 (7.9)  |
| 010      | 10         | .625-24 UNEF      | 1.027 (26.1) | .734 (18.6) | .957 (24.3)  | 3.125 (79.4) | .125 (3.2)         | .312 (7.9)  |
| 136      | 10         | .625-24 UNEF      | 1.027 (26.1) | .734 (18.6) | 1.145 (29.1) | 2.125 (54.0) | .250 (6.4)         | .375 (9.5)  |
| 137      | 10         | .625-24 UNEF      | 1.027 (26.1) | .734 (18.6) | 1.145 (29.1) | 3.125 (79.4) | .250 (6.4)         | .375 (9.5)  |
| 011      | 10         | .625-24 UNEF      | 1.027 (26.1) | .734 (18.6) | 1.145 (29.1) | 2.875 (73.0) | .250 (6.4)         | .437 (11.1) |
| 012      | 10         | .625-24 UNEF      | 1.027 (26.1) | .734 (18.6) | 1.145 (29.1) | 3.875 (98.4) | .250 (6.4)         | .437 (11.1) |
| 114      | 12         | .750-20 UNEF      | 1.027 (26.1) | .858 (21.8) | .957 (24.3)  | 2.125 (54.0) | .125 (3.2)         | .312 (7.9)  |
| 115      | 12         | .750-20 UNEF      | 1.027 (26.1) | .858 (21.8) | .957 (24.3)  | 3.125 (79.4) | .125 (3.2)         | .312 (7.9)  |
| 013      | 12         | .750-20 UNEF      | 1.027 (26.1) | .858 (21.8) | 1.145 (29.1) | 2.125 (54.0) | .250 (6.4)         | .437 (11.1) |
| 014      | 12         | .750-20 UNEF      | 1.027 (26.1) | .858 (21.8) | 1.145 (29.1) | 3.125 (79.4) | .250 (6.4)         | .437 (11.1) |
| 111      | 12         | .750-20 UNEF      | 1.027 (26.1) | .858 (21.8) | 1.332 (33.8) | 2.125 (54.0) | .350 (8.9)         | .500 (12.7) |

Dimensions are in inches (mm).

(Continued on next page)

Rev. 2223

# Straight Environmental Backshell

BM Series • MIL-DTL-26482 Series 2 Type Connectors

## Backshell Dimensions (Continued from previous page)

| Dash No. | Shell Size | V Thread Class 2B | T            | D            | B            | L             | CC Cable Clearance |              |
|----------|------------|-------------------|--------------|--------------|--------------|---------------|--------------------|--------------|
|          |            |                   |              |              |              |               | Min                | Max          |
| 139      | 12         | .750-20 UNEF      | 1.027 (26.1) | .858 (21.8)  | 1.332 (33.8) | 3.125 (79.4)  | .350 (8.9)         | .500 (12.7)  |
| 015      | 12         | .750-20 UNEF      | 1.027 (26.1) | .858 (21.8)  | 1.332 (33.8) | 2.875 (73.0)  | .350 (8.9)         | .625 (15.9)  |
| 016      | 12         | .750-20 UNEF      | 1.027 (26.1) | .858 (21.8)  | 1.332 (33.8) | 3.875 (98.4)  | .350 (8.9)         | .625 (15.9)  |
| 150      | 14         | .875-20 UNEF      | 1.027 (26.1) | .984 (25.0)  | .957 (24.3)  | 2.125 (54.0)  | .125 (3.2)         | .312 (7.9)   |
| 151      | 14         | .875-20 UNEF      | 1.027 (26.1) | .984 (25.0)  | .957 (24.3)  | 3.125 (79.4)  | .125 (3.2)         | .312 (7.9)   |
| 116      | 14         | .875-20 UNEF      | 1.027 (26.1) | .984 (25.0)  | 1.145 (29.1) | 2.125 (54.0)  | .250 (6.4)         | .437 (11.1)  |
| 117      | 14         | .875-20 UNEF      | 1.027 (26.1) | .984 (25.0)  | 1.145 (29.1) | 3.125 (79.4)  | .250 (6.4)         | .437 (11.1)  |
| 017      | 14         | .875-20 UNEF      | 1.027 (26.1) | .984 (25.0)  | 1.332 (33.8) | 2.125 (54.0)  | .350 (8.9)         | .575 (14.6)  |
| 018      | 14         | .875-20 UNEF      | 1.027 (26.1) | .984 (25.0)  | 1.332 (33.8) | 3.125 (79.4)  | .350 (8.9)         | .575 (14.6)  |
| 019      | 14         | .875-20 UNEF      | 1.059 (26.9) | .984 (25.0)  | 1.551 (39.4) | 2.875 (73.0)  | .500 (12.7)        | .750 (19.1)  |
| 020      | 14         | .875-20 UNEF      | 1.059 (26.9) | .984 (25.0)  | 1.551 (39.4) | 3.875 (98.4)  | .500 (12.7)        | .750 (19.1)  |
| 152      | 16         | 1.000-20 UNEF     | 1.027 (26.1) | 1.112 (28.2) | .957 (24.3)  | 2.125 (54.0)  | .125 (3.2)         | .312 (7.9)   |
| 153      | 16         | 1.000-20 UNEF     | 1.027 (26.1) | 1.112 (28.2) | .957 (24.3)  | 3.125 (79.4)  | .125 (3.2)         | .312 (7.9)   |
| 112      | 16         | 1.000-20 UNEF     | 1.027 (26.1) | 1.112 (28.2) | 1.145 (29.1) | 2.125 (54.0)  | .250 (6.4)         | .437 (11.1)  |
| 113      | 16         | 1.000-20 UNEF     | 1.027 (26.1) | 1.112 (28.2) | 1.145 (29.1) | 3.125 (79.4)  | .250 (6.4)         | .437 (11.1)  |
| 118      | 16         | 1.000-20 UNEF     | 1.027 (26.1) | 1.112 (28.2) | 1.332 (33.8) | 2.125 (54.0)  | .350 (8.9)         | .625 (15.9)  |
| 119      | 16         | 1.000-20 UNEF     | 1.027 (26.1) | 1.112 (28.2) | 1.332 (33.8) | 3.125 (79.4)  | .350 (8.9)         | .625 (15.9)  |
| 021      | 16         | 1.000-20 UNEF     | 1.059 (26.9) | 1.112 (28.2) | 1.551 (39.4) | 2.125 (54.0)  | .500 (12.7)        | .700 (17.8)  |
| 022      | 16         | 1.000-20 UNEF     | 1.059 (26.9) | 1.112 (28.2) | 1.551 (39.4) | 3.125 (79.4)  | .500 (12.7)        | .700 (17.8)  |
| 023      | 16         | 1.000-20 UNEF     | 1.156 (29.4) | 1.112 (28.2) | 1.770 (45.0) | 2.875 (73.0)  | .625 (15.9)        | .937 (23.8)  |
| 024      | 16         | 1.000-20 UNEF     | 1.156 (29.4) | 1.112 (28.2) | 1.770 (45.0) | 3.875 (98.4)  | .625 (15.9)        | .937 (23.8)  |
| 120      | 18         | 1.062-18 UNEF     | 1.027 (26.1) | 1.218 (30.9) | .957 (24.3)  | 2.125 (54.0)  | .125 (3.2)         | .312 (7.9)   |
| 121      | 18         | 1.062-18 UNEF     | 1.027 (26.1) | 1.218 (30.9) | .957 (24.3)  | 3.125 (79.4)  | .125 (3.2)         | .312 (7.9)   |
| 122      | 18         | 1.062-18 UNEF     | 1.027 (26.1) | 1.218 (30.9) | 1.145 (29.1) | 2.125 (54.0)  | .250 (6.4)         | .437 (11.1)  |
| 123      | 18         | 1.062-18 UNEF     | 1.027 (26.1) | 1.218 (30.9) | 1.145 (29.1) | 3.125 (79.4)  | .250 (6.4)         | .437 (11.1)  |
| 025      | 18         | 1.062-18 UNEF     | 1.027 (26.1) | 1.218 (30.9) | 1.332 (33.8) | 2.125 (54.0)  | .350 (8.9)         | .625 (15.9)  |
| 026      | 18         | 1.062-18 UNEF     | 1.027 (26.1) | 1.218 (30.9) | 1.332 (33.8) | 3.125 (79.4)  | .350 (8.9)         | .625 (15.9)  |
| 027      | 18         | 1.062-18 UNEF     | 1.059 (26.9) | 1.218 (30.9) | 1.551 (39.4) | 2.125 (54.0)  | .500 (12.7)        | .750 (19.1)  |
| 028      | 18         | 1.062-18 UNEF     | 1.059 (26.9) | 1.218 (30.9) | 1.551 (39.4) | 3.125 (79.4)  | .500 (12.7)        | .750 (19.1)  |
| 029      | 18         | 1.062-18 UNEF     | 1.156 (29.4) | 1.218 (30.9) | 1.770 (45.0) | 2.875 (73.0)  | .625 (15.9)        | .937 (23.8)  |
| 030      | 18         | 1.062-18 UNEF     | 1.156 (29.4) | 1.218 (30.9) | 1.770 (45.0) | 3.875 (98.4)  | .625 (15.9)        | .937 (23.8)  |
| 124      | 20         | 1.188-18 UNEF     | 1.027 (26.1) | 1.345 (34.2) | 1.145 (29.1) | 3.125 (79.4)  | .250 (6.4)         | .437 (11.1)  |
| 125      | 20         | 1.188-18 UNEF     | 1.027 (26.1) | 1.345 (34.2) | 1.145 (29.1) | 4.125 (104.8) | .250 (6.4)         | .437 (11.1)  |
| 031      | 20         | 1.188-18 UNEF     | 1.027 (26.1) | 1.345 (34.2) | 1.332 (33.8) | 3.125 (79.4)  | .350 (8.9)         | .625 (15.9)  |
| 032      | 20         | 1.188-18 UNEF     | 1.027 (26.1) | 1.345 (34.2) | 1.332 (33.8) | 4.125 (104.8) | .350 (8.9)         | .625 (15.9)  |
| 033      | 20         | 1.188-18 UNEF     | 1.059 (26.9) | 1.345 (34.2) | 1.551 (39.4) | 3.125 (79.4)  | .500 (12.7)        | .750 (19.1)  |
| 034      | 20         | 1.188-18 UNEF     | 1.059 (26.9) | 1.345 (34.2) | 1.551 (39.4) | 4.125 (104.8) | .500 (12.7)        | .750 (19.1)  |
| 140      | 20         | 1.188-18 UNEF     | 1.156 (29.4) | 1.345 (34.2) | 1.770 (45.0) | 3.125 (79.4)  | .625 (15.9)        | .904 (23.0)  |
| 141      | 20         | 1.188-18 UNEF     | 1.156 (29.4) | 1.345 (34.2) | 1.770 (45.0) | 4.125 (104.8) | .625 (15.9)        | .904 (23.0)  |
| 035      | 20         | 1.188-18 UNEF     | 1.156 (29.4) | 1.345 (34.2) | 1.770 (45.0) | 3.875 (98.4)  | .625 (15.9)        | .937 (23.8)  |
| 036      | 20         | 1.188-18 UNEF     | 1.156 (29.4) | 1.345 (34.2) | 1.770 (45.0) | 4.875 (123.8) | .625 (15.9)        | .937 (23.8)  |
| 037      | 20         | 1.188-18 UNEF     | 1.375 (34.9) | 1.345 (34.2) | 2.113 (53.7) | 3.875 (98.4)  | .875 (22.2)        | 1.250 (31.8) |
| 038      | 20         | 1.188-18 UNEF     | 1.375 (34.9) | 1.345 (34.2) | 2.113 (53.7) | 4.875 (123.8) | .875 (22.2)        | 1.250 (31.8) |
| 126      | 22         | 1.313-18 UNEF     | 1.027 (26.1) | 1.468 (37.3) | .957 (24.3)  | 3.125 (79.4)  | .125 (3.2)         | .312 (7.9)   |
| 127      | 22         | 1.313-18 UNEF     | 1.027 (26.1) | 1.468 (37.3) | .957 (24.3)  | 4.125 (104.8) | .125 (3.2)         | .312 (7.9)   |
| 128      | 22         | 1.313-18 UNEF     | 1.027 (26.1) | 1.468 (37.3) | 1.145 (29.1) | 3.125 (79.4)  | .250 (6.4)         | .437 (11.1)  |
| 129      | 22         | 1.313-18 UNEF     | 1.027 (26.1) | 1.468 (37.3) | 1.145 (29.1) | 4.125 (104.8) | .250 (6.4)         | .437 (11.1)  |
| 039      | 22         | 1.313-18 UNEF     | 1.027 (26.1) | 1.468 (37.3) | 1.332 (33.8) | 3.125 (79.4)  | .350 (8.9)         | .625 (15.9)  |

Dimensions are in inches (mm).

(Continued on next page)

Rev. 2223

# Straight Environmental Backshell

BM Series • MIL-DTL-26482 Series 2 Type Connectors

## Backshell Dimensions (Continued from previous page)

| Dash No. | Shell Size | V Thread Class 2B | T            | D            | B            | L             | CC Cable Clearance |              |
|----------|------------|-------------------|--------------|--------------|--------------|---------------|--------------------|--------------|
|          |            |                   |              |              |              |               | Min                | Max          |
| 040      | 22         | 1.313-18 UNEF     | 1.027 (26.1) | 1.468 (37.3) | 1.332 (33.8) | 4.125 (104.8) | .350 (8.9)         | .625 (15.9)  |
| 041      | 22         | 1.313-18 UNEF     | 1.059 (26.9) | 1.468 (37.3) | 1.551 (39.4) | 3.125 (79.4)  | .500 (12.7)        | .750 (19.1)  |
| 042      | 22         | 1.313-18 UNEF     | 1.059 (26.9) | 1.468 (37.3) | 1.551 (39.4) | 4.125 (104.8) | .500 (12.7)        | .750 (19.1)  |
| 043      | 22         | 1.313-18 UNEF     | 1.156 (29.4) | 1.468 (37.3) | 1.770 (45.0) | 3.125 (79.4)  | .625 (15.9)        | .937 (23.8)  |
| 044      | 22         | 1.313-18 UNEF     | 1.156 (29.4) | 1.468 (37.3) | 1.770 (45.0) | 4.125 (104.8) | .625 (15.9)        | .937 (23.8)  |
| 142      | 22         | 1.313-18 UNEF     | 1.375 (34.9) | 1.468 (37.3) | 2.113 (53.7) | 3.125 (79.4)  | .875 (22.2)        | 1.029 (26.1) |
| 143      | 22         | 1.313-18 UNEF     | 1.375 (34.9) | 1.468 (37.3) | 2.113 (53.7) | 4.125 (104.8) | .875 (22.2)        | 1.029 (26.1) |
| 045      | 22         | 1.313-18 UNEF     | 1.375 (34.9) | 1.468 (37.3) | 2.113 (53.7) | 3.875 (98.4)  | .875 (22.2)        | 1.250 (31.8) |
| 046      | 22         | 1.313-18 UNEF     | 1.375 (34.9) | 1.468 (37.3) | 2.113 (53.7) | 4.875 (123.8) | .875 (22.2)        | 1.250 (31.8) |
| 130      | 24         | 1.438-18 UNEF     | 1.027 (26.1) | 1.593 (40.5) | 1.332 (33.8) | 3.125 (79.4)  | .350 (8.9)         | .625 (15.9)  |
| 131      | 24         | 1.438-18 UNEF     | 1.027 (26.1) | 1.593 (40.5) | 1.332 (33.8) | 4.125 (104.8) | .350 (8.9)         | .625 (15.9)  |
| 047      | 24         | 1.438-18 UNEF     | 1.059 (26.9) | 1.593 (40.5) | 1.551 (39.4) | 3.125 (79.4)  | .500 (12.7)        | .750 (19.1)  |
| 048      | 24         | 1.438-18 UNEF     | 1.059 (26.9) | 1.593 (40.5) | 1.551 (39.4) | 4.125 (104.8) | .500 (12.7)        | .750 (19.1)  |
| 049      | 24         | 1.438-18 UNEF     | 1.156 (29.4) | 1.593 (40.5) | 1.770 (45.0) | 3.125 (79.4)  | .625 (15.9)        | .812 (20.6)  |
| 050      | 24         | 1.438-18 UNEF     | 1.156 (29.4) | 1.593 (40.5) | 1.770 (45.0) | 4.125 (104.8) | .625 (15.9)        | .812 (20.6)  |
| 051      | 24         | 1.438-18 UNEF     | 1.156 (29.4) | 1.593 (40.5) | 1.770 (45.0) | 3.125 (79.4)  | .625 (15.9)        | .937 (23.8)  |
| 052      | 24         | 1.438-18 UNEF     | 1.156 (29.4) | 1.593 (40.5) | 1.770 (45.0) | 4.125 (104.8) | .625 (15.9)        | .937 (23.8)  |
| 144      | 24         | 1.438-18 UNEF     | 1.375 (34.9) | 1.593 (40.5) | 2.113 (53.7) | 3.125 (79.4)  | .875 (22.2)        | 1.144 (29.1) |
| 145      | 24         | 1.438-18 UNEF     | 1.375 (34.9) | 1.593 (40.5) | 2.113 (53.7) | 4.125 (104.8) | .875 (22.2)        | 1.144 (29.1) |
| 053      | 24         | 1.438-18 UNEF     | 1.375 (34.9) | 1.593 (40.5) | 2.113 (53.7) | 3.875 (98.4)  | .875 (22.2)        | 1.250 (31.8) |
| 054      | 24         | 1.438-18 UNEF     | 1.375 (34.9) | 1.593 (40.5) | 2.113 (53.7) | 4.875 (123.8) | .875 (22.2)        | 1.250 (31.8) |

Dimensions are in inches (mm).



Rev. 2223

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**MILNEC**  
INTERCONNECT SYSTEMS

# 45° Environmental Backshell

BM Series • MIL-DTL-26482 Series 2 Type Connectors



## BME3 - 009 N

- 1

2

3
- 1

2

3
- BASIC PART NUMBER**  
**BME3** 45° environmental backshell

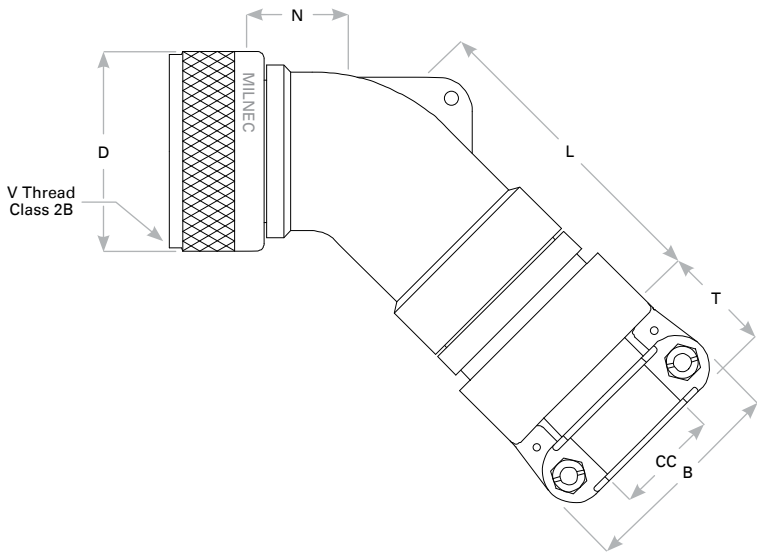
**DASH NO.**  
See Backshell Dimensions table below

**MATERIAL & FINISH**  
**N** Aluminum, electroless nickel  
**W** Aluminum, olive drab cadmium

**Note:** See part builder (p. J-11) for additional kit options.

## BME3 Compatibility

| Compatible Brands      | Connectors                                     |
|------------------------|------------------------------------------------|
| MIL-DTL-26482 Series 2 | MS3470, MS3471, MS3472, MS3474, MS3475, MS3476 |
| Aero / Conesys         | AE770, AE771, AE772, AE774, AE775, AE776       |
| Amphenol / Matrix      | MB10, MB11, MB13, MB14, MB16, MB18             |
| Deutsch                | AFD50, AFD51, AFD54, AFD56, AFD57, AFD58       |
| Souriau                | 8526-0, 8526-5, 8526-6, 8526-7                 |



## Backshell Dimensions

| Dash No. | Shell Size | V Thread Class 2B | N            | T            | D           | B            | L            | CC Cable Clearance |             |
|----------|------------|-------------------|--------------|--------------|-------------|--------------|--------------|--------------------|-------------|
|          |            |                   |              |              |             |              |              | Min                | Max         |
| 003      | 8          | .500-20 UNF       | .625 (15.9)  | 1.027 (26.1) | .617 (15.7) | .957 (24.3)  | 1.244 (31.6) | .125 (3.2)         | .250 (6.4)  |
| 004      | 10         | .625-24 UNEF      | .688 (17.5)  | 1.027 (26.1) | .734 (18.6) | .957 (24.3)  | 1.912 (48.6) | .125 (3.2)         | .312 (7.9)  |
| 005      | 10         | .625-24 UNEF      | .688 (17.5)  | 1.027 (26.1) | .734 (18.6) | 1.145 (29.1) | 1.307 (33.2) | .250 (6.4)         | .375 (9.5)  |
| 049      | 10         | .625-24 UNEF      | 1.500 (38.1) | 1.027 (26.1) | .734 (18.6) | 1.145 (29.1) | 1.972 (50.1) | .250 (6.4)         | .437 (11.1) |

Dimensions are in inches (mm).

(Continued on next page)

Rev. 2223

### Backshell Dimensions (Continued from previous page)

| Dash No. | Shell Size | V Thread Class 2B | N            | T            | D            | B            | L            | CC Cable Clearance |              |
|----------|------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------------|--------------|
|          |            |                   |              |              |              |              |              | Min                | Max          |
| 006      | 12         | .750-20 UNEF      | .750 (19.1)  | 1.027 (26.1) | .858 (21.8)  | .957 (24.3)  | 1.972 (50.1) | .125 (3.2)         | .312 (7.9)   |
| 007      | 12         | .750-20 UNEF      | .750 (19.1)  | 1.027 (26.1) | .858 (21.8)  | 1.145 (29.1) | 1.972 (50.1) | .250 (6.4)         | .437 (11.1)  |
| 008      | 12         | .750-20 UNEF      | .750 (19.1)  | 1.027 (26.1) | .858 (21.8)  | 1.332 (33.8) | 1.972 (50.1) | .350 (8.9)         | .500 (12.7)  |
| 071      | 12         | .750-20 UNEF      | 1.654 (42.0) | 1.027 (26.1) | .858 (21.8)  | 1.332 (33.8) | 2.173 (55.2) | .350 (8.9)         | .625 (15.9)  |
| 074      | 14         | .875-20 UNEF      | .812 (20.6)  | 1.027 (26.1) | .984 (25.0)  | .957 (24.3)  | 2.062 (52.4) | .125 (3.2)         | .312 (7.9)   |
| 009      | 14         | .875-20 UNEF      | .812 (20.6)  | 1.027 (26.1) | .984 (25.0)  | 1.145 (29.1) | 2.062 (52.4) | .250 (6.4)         | .437 (11.1)  |
| 010      | 14         | .875-20 UNEF      | .812 (20.6)  | 1.027 (26.1) | .984 (25.0)  | 1.332 (33.8) | 1.717 (43.6) | .350 (8.9)         | .575 (14.6)  |
| 050      | 14         | .875-20 UNEF      | 1.842 (46.8) | 1.059 (26.9) | .984 (25.0)  | 1.551 (39.4) | 2.362 (60.0) | .500 (12.7)        | .750 (19.1)  |
| 075      | 16         | 1.000-20 UNEF     | .906 (23.0)  | 1.027 (26.1) | 1.112 (28.2) | .957 (24.3)  | 2.172 (55.2) | .125 (3.2)         | .312 (7.9)   |
| 011      | 16         | 1.000-20 UNEF     | .906 (23.0)  | 1.027 (26.1) | 1.112 (28.2) | 1.145 (29.1) | 2.172 (55.2) | .250 (6.4)         | .437 (11.1)  |
| 040      | 16         | 1.000-20 UNEF     | .906 (23.0)  | 1.027 (26.1) | 1.112 (28.2) | 1.332 (33.8) | 2.172 (55.2) | .350 (8.9)         | .625 (15.9)  |
| 012      | 16         | 1.000-20 UNEF     | .906 (23.0)  | 1.059 (26.9) | 1.112 (28.2) | 1.551 (39.4) | 1.812 (46.0) | .500 (12.7)        | .700 (17.8)  |
| 051      | 16         | 1.000-20 UNEF     | 1.938 (49.2) | 1.156 (29.4) | 1.112 (28.2) | 1.770 (45.0) | 2.512 (63.8) | .625 (15.9)        | .937 (23.8)  |
| 041      | 18         | 1.062-18 UNEF     | 1.093 (27.8) | 1.027 (26.1) | 1.218 (30.9) | .957 (24.3)  | 2.362 (60.0) | .125 (3.2)         | .312 (7.9)   |
| 042      | 18         | 1.062-18 UNEF     | 1.093 (27.8) | 1.027 (26.1) | 1.218 (30.9) | 1.145 (29.1) | 2.362 (60.0) | .250 (6.4)         | .437 (11.1)  |
| 013      | 18         | 1.062-18 UNEF     | 1.093 (27.8) | 1.027 (26.1) | 1.218 (30.9) | 1.332 (33.8) | 2.362 (60.0) | .350 (8.9)         | .625 (15.9)  |
| 052      | 18         | 1.062-18 UNEF     | 1.093 (27.8) | 1.059 (26.9) | 1.218 (30.9) | 1.551 (39.4) | 2.362 (60.0) | .500 (12.7)        | .750 (19.1)  |
| 014      | 18         | 1.062-18 UNEF     | 1.093 (27.8) | 1.156 (29.4) | 1.218 (30.9) | 1.770 (45.0) | 2.000 (50.8) | .625 (15.9)        | .779 (19.8)  |
| 072      | 18         | 1.062-18 UNEF     | 1.938 (49.2) | 1.156 (29.4) | 1.218 (30.9) | 1.770 (45.0) | 2.512 (63.8) | .625 (15.9)        | .937 (23.8)  |
| 043      | 20         | 1.188-18 UNEF     | 1.093 (27.8) | 1.027 (26.1) | 1.345 (34.2) | 1.145 (29.1) | 2.362 (60.0) | .250 (6.4)         | .437 (11.1)  |
| 015      | 20         | 1.188-18 UNEF     | 1.093 (27.8) | 1.027 (26.1) | 1.345 (34.2) | 1.332 (33.8) | 2.362 (60.0) | .350 (8.9)         | .625 (15.9)  |
| 054      | 20         | 1.188-18 UNEF     | 1.093 (27.8) | 1.059 (26.9) | 1.345 (34.2) | 1.551 (39.4) | 2.362 (60.0) | .500 (12.7)        | .750 (19.1)  |
| 016      | 20         | 1.188-18 UNEF     | 1.093 (27.8) | 1.156 (29.4) | 1.345 (34.2) | 1.770 (45.0) | 2.000 (50.8) | .625 (15.9)        | .904 (23.0)  |
| 055      | 20         | 1.188-18 UNEF     | 2.061 (52.3) | 1.375 (34.9) | 1.345 (34.2) | 2.113 (53.7) | 2.562 (65.1) | .875 (22.2)        | 1.250 (31.8) |
| 044      | 22         | 1.313-18 UNEF     | 1.188 (30.2) | 1.027 (26.1) | 1.468 (37.3) | .957 (24.3)  | 2.512 (63.8) | .125 (3.2)         | .312 (7.9)   |
| 045      | 22         | 1.313-18 UNEF     | 1.188 (30.2) | 1.027 (26.1) | 1.468 (37.3) | 1.145 (29.1) | 2.512 (63.8) | .250 (6.4)         | .437 (11.1)  |
| 056      | 22         | 1.313-18 UNEF     | 1.188 (30.2) | 1.027 (26.1) | 1.468 (37.3) | 1.332 (33.8) | 2.512 (63.8) | .350 (8.9)         | .625 (15.9)  |
| 017      | 22         | 1.313-18 UNEF     | 1.188 (30.2) | 1.059 (26.9) | 1.468 (37.3) | 1.551 (39.4) | 2.512 (63.8) | .500 (12.7)        | .750 (19.1)  |
| 057      | 22         | 1.313-18 UNEF     | 1.188 (30.2) | 1.156 (29.4) | 1.468 (37.3) | 1.770 (45.0) | 2.512 (63.8) | .625 (15.9)        | .937 (23.8)  |
| 018      | 22         | 1.313-18 UNEF     | 1.188 (30.2) | 1.375 (34.9) | 1.468 (37.3) | 2.113 (53.7) | 2.155 (54.7) | .875 (22.2)        | 1.029 (26.1) |
| 058      | 22         | 1.313-18 UNEF     | 2.061 (52.3) | 1.375 (34.9) | 1.468 (37.3) | 2.113 (53.7) | 2.562 (65.1) | .875 (22.2)        | 1.250 (31.8) |
| 046      | 24         | 1.438-18 UNEF     | 1.188 (30.2) | 1.027 (26.1) | 1.593 (40.5) | 1.332 (33.8) | 2.512 (63.8) | .350 (8.9)         | .625 (15.9)  |
| 019      | 24         | 1.438-18 UNEF     | 1.188 (30.2) | 1.059 (26.9) | 1.593 (40.5) | 1.551 (39.4) | 2.512 (63.8) | .500 (12.7)        | .750 (19.1)  |
| 059      | 24         | 1.438-18 UNEF     | 1.188 (30.2) | 1.156 (29.4) | 1.593 (40.5) | 1.770 (45.0) | 2.512 (63.8) | .625 (15.9)        | .937 (23.8)  |
| 020      | 24         | 1.438-18 UNEF     | 1.188 (30.2) | 1.375 (34.9) | 1.593 (40.5) | 2.113 (53.7) | 2.155 (54.7) | .875 (22.2)        | 1.144 (29.1) |
| 073      | 24         | 1.438-18 UNEF     | 2.061 (52.3) | 1.375 (34.9) | 1.593 (40.5) | 2.113 (53.7) | 2.562 (65.1) | .875 (22.2)        | 1.250 (31.8) |

Dimensions are in inches (mm).

# 90° Environmental Backshell

BM Series • MIL-DTL-26482 Series 2 Type Connectors



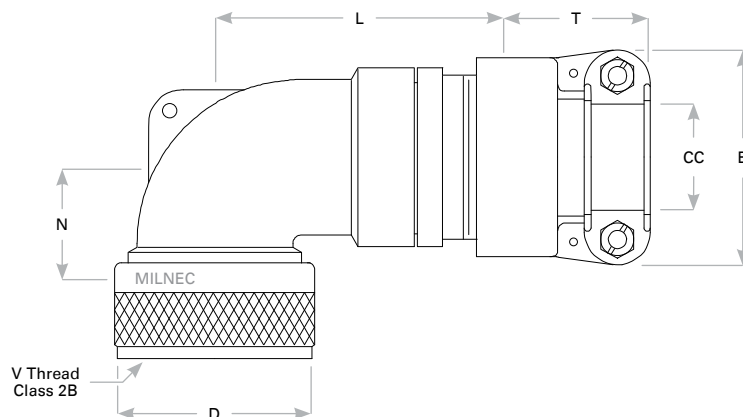
## BME4 - 009 N

- 1 **BASIC PART NUMBER**  
BME4 90° environmental backshell
- 2 **DASH NO.**  
See Backshell Dimensions table below
- 3 **MATERIAL & FINISH**  
N Aluminum, electroless nickel  
W Aluminum, olive drab cadmium

**Note:** See part builder (p. J-11) for additional kit options.

## BME4 Compatibility

| Compatible Brands      | Connectors                                     |
|------------------------|------------------------------------------------|
| MIL-DTL-26482 Series 2 | MS3470, MS3471, MS3472, MS3474, MS3475, MS3476 |
| Aero / Conesys         | AE770, AE771, AE772, AE774, AE775, AE776       |
| Amphenol / Matrix      | MB10, MB11, MB13, MB14, MB16, MB18             |
| Deutsch                | AFD50, AFD51, AFD54, AFD56, AFD57, AFD58       |
| Souriau                | 8526-0, 8526-5, 8526-6, 8526-7                 |



## Backshell Dimensions

| Dash No. | Shell Size | V Thread Class 2B | N            | T            | D           | B            | L            | CC Cable Clearance |             |
|----------|------------|-------------------|--------------|--------------|-------------|--------------|--------------|--------------------|-------------|
|          |            |                   |              |              |             |              |              | Min                | Max         |
| 003      | 8          | .500-20 UNF       | .666 (16.9)  | 1.027 (26.1) | .617 (15.7) | .957 (24.3)  | 1.262 (32.1) | .125 (3.2)         | .250 (6.4)  |
| 004      | 10         | .625-24 UNEF      | .761 (19.3)  | 1.027 (26.1) | .734 (18.6) | .957 (24.3)  | 1.982 (50.3) | .125 (3.2)         | .312 (7.9)  |
| 005      | 10         | .625-24 UNEF      | .761 (19.3)  | 1.027 (26.1) | .734 (18.6) | 1.145 (29.1) | 1.382 (35.1) | .250 (6.4)         | .375 (9.5)  |
| 049      | 10         | .625-24 UNEF      | 1.516 (38.5) | 1.027 (26.1) | .734 (18.6) | 1.145 (29.1) | 2.002 (50.9) | .250 (6.4)         | .437 (11.1) |
| 006      | 12         | .750-20 UNEF      | .766 (19.5)  | 1.027 (26.1) | .858 (21.8) | .957 (24.3)  | 2.002 (50.9) | .125 (3.2)         | .312 (7.9)  |
| 007      | 12         | .750-20 UNEF      | .766 (19.5)  | 1.027 (26.1) | .858 (21.8) | 1.145 (29.1) | 2.002 (50.9) | .250 (6.4)         | .437 (11.1) |
| 008      | 12         | .750-20 UNEF      | .766 (19.5)  | 1.027 (26.1) | .858 (21.8) | 1.332 (33.8) | 1.397 (35.5) | .350 (8.9)         | .500 (12.7) |
| 071      | 12         | .750-20 UNEF      | 1.811 (46.0) | 1.027 (26.1) | .858 (21.8) | 1.332 (33.8) | 2.162 (54.9) | .350 (8.9)         | .625 (15.9) |
| 074      | 14         | .875-20 UNEF      | .866 (22.0)  | 1.027 (26.1) | .984 (25.0) | .957 (24.3)  | 2.072 (52.6) | .125 (3.2)         | .312 (7.9)  |
| 009      | 14         | .875-20 UNEF      | .866 (22.0)  | 1.027 (26.1) | .984 (25.0) | 1.145 (29.1) | 2.072 (52.6) | .250 (6.4)         | .437 (11.1) |
| 010      | 14         | .875-20 UNEF      | .866 (22.0)  | 1.027 (26.1) | .984 (25.0) | 1.332 (33.8) | 1.717 (43.6) | .350 (8.9)         | .575 (14.6) |
| 050      | 14         | .875-20 UNEF      | 1.891 (48.0) | 1.059 (26.9) | .984 (25.0) | 1.551 (39.4) | 2.332 (59.2) | .500 (12.7)        | .750 (19.1) |

Dimensions are in inches (mm).

(Continued on next page)

Rev. 2223

# 90° Environmental Backshell

BM Series • MIL-DTL-26482 Series 2 Type Connectors

## Backshell Dimensions (Continued from previous page)

| Dash No. | Shell Size | V Thread Class 2B | N            | T            | D            | B            | L            | CC Cable Clearance |              |
|----------|------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------------|--------------|
|          |            |                   |              |              |              |              |              | Min                | Max          |
| 075      | 16         | 1.000-20 UNEF     | 1.051 (26.7) | 1.027 (26.1) | 1.112 (28.2) | .957 (24.3)  | 2.162 (54.9) | .125 (3.2)         | .312 (7.9)   |
| 011      | 16         | 1.000-20 UNEF     | 1.051 (26.7) | 1.027 (26.1) | 1.112 (28.2) | 1.145 (29.1) | 2.162 (54.9) | .250 (6.4)         | .437 (11.1)  |
| 040      | 16         | 1.000-20 UNEF     | 1.051 (26.7) | 1.027 (26.1) | 1.112 (28.2) | 1.332 (33.8) | 2.162 (54.9) | .350 (8.9)         | .625 (15.9)  |
| 012      | 16         | 1.000-20 UNEF     | 1.051 (26.7) | 1.059 (26.9) | 1.112 (28.2) | 1.551 (39.4) | 1.807 (45.9) | .500 (12.7)        | .700 (17.8)  |
| 051      | 16         | 1.000-20 UNEF     | 2.041 (51.8) | 1.156 (29.4) | 1.112 (28.2) | 1.770 (45.0) | 2.442 (62.0) | .625 (15.9)        | .937 (23.8)  |
| 041      | 18         | 1.062-18 UNEF     | 1.141 (29.0) | 1.027 (26.1) | 1.218 (30.9) | .957 (24.3)  | 2.332 (59.2) | .125 (3.2)         | .312 (7.9)   |
| 042      | 18         | 1.062-18 UNEF     | 1.141 (29.0) | 1.027 (26.1) | 1.218 (30.9) | 1.145 (29.1) | 2.332 (59.2) | .250 (6.4)         | .437 (11.1)  |
| 013      | 18         | 1.062-18 UNEF     | 1.141 (29.0) | 1.027 (26.1) | 1.218 (30.9) | 1.332 (33.8) | 2.332 (59.2) | .350 (8.9)         | .625 (15.9)  |
| 052      | 18         | 1.062-18 UNEF     | 1.141 (29.0) | 1.059 (26.9) | 1.218 (30.9) | 1.551 (39.4) | 2.332 (59.2) | .500 (12.7)        | .750 (19.1)  |
| 014      | 18         | 1.062-18 UNEF     | 1.141 (29.0) | 1.156 (29.4) | 1.218 (30.9) | 1.770 (45.0) | 1.982 (50.3) | .625 (15.9)        | .779 (19.8)  |
| 072      | 18         | 1.062-18 UNEF     | 2.051 (52.1) | 1.156 (29.4) | 1.218 (30.9) | 1.770 (45.0) | 2.442 (62.0) | .625 (15.9)        | .937 (23.8)  |
| 043      | 20         | 1.188-18 UNEF     | 1.141 (29.0) | 1.027 (26.1) | 1.345 (34.2) | 1.145 (29.1) | 2.332 (59.2) | .250 (6.4)         | .437 (11.1)  |
| 015      | 20         | 1.188-18 UNEF     | 1.141 (29.0) | 1.027 (26.1) | 1.345 (34.2) | 1.332 (33.8) | 2.332 (59.2) | .350 (8.9)         | .625 (15.9)  |
| 054      | 20         | 1.188-18 UNEF     | 1.141 (29.0) | 1.059 (26.9) | 1.345 (34.2) | 1.551 (39.4) | 2.332 (59.2) | .500 (12.7)        | .750 (19.1)  |
| 016      | 20         | 1.188-18 UNEF     | 1.141 (29.0) | 1.156 (29.4) | 1.345 (34.2) | 1.770 (45.0) | 1.982 (50.3) | .625 (15.9)        | .904 (23.0)  |
| 055      | 20         | 1.188-18 UNEF     | 2.141 (54.4) | 1.375 (34.9) | 1.345 (34.2) | 2.113 (53.7) | 2.612 (66.3) | .875 (22.2)        | 1.250 (31.8) |
| 044      | 22         | 1.313-18 UNEF     | 1.291 (32.8) | 1.027 (26.1) | 1.468 (37.3) | .957 (24.3)  | 2.442 (62.0) | .125 (3.2)         | .312 (7.9)   |
| 045      | 22         | 1.313-18 UNEF     | 1.291 (32.8) | 1.027 (26.1) | 1.468 (37.3) | 1.145 (29.1) | 2.442 (62.0) | .250 (6.4)         | .437 (11.1)  |
| 056      | 22         | 1.313-18 UNEF     | 1.291 (32.8) | 1.027 (26.1) | 1.468 (37.3) | 1.332 (33.8) | 2.442 (62.0) | .350 (8.9)         | .625 (15.9)  |
| 017      | 22         | 1.313-18 UNEF     | 1.291 (32.8) | 1.059 (26.9) | 1.468 (37.3) | 1.551 (39.4) | 2.442 (62.0) | .500 (12.7)        | .750 (19.1)  |
| 057      | 22         | 1.313-18 UNEF     | 1.291 (32.8) | 1.156 (29.4) | 1.468 (37.3) | 1.770 (45.0) | 2.442 (62.0) | .625 (15.9)        | .937 (23.8)  |
| 018      | 22         | 1.313-18 UNEF     | 1.291 (32.8) | 1.375 (34.9) | 1.468 (37.3) | 2.113 (53.7) | 2.087 (53.0) | .875 (22.2)        | 1.029 (26.1) |
| 058      | 22         | 1.313-18 UNEF     | 2.141 (54.4) | 1.375 (34.9) | 1.468 (37.3) | 2.113 (53.7) | 2.612 (66.3) | .875 (22.2)        | 1.250 (31.8) |
| 046      | 24         | 1.438-18 UNEF     | 1.291 (32.8) | 1.027 (26.1) | 1.593 (40.5) | 1.332 (33.8) | 2.442 (62.0) | .350 (8.9)         | .625 (15.9)  |
| 019      | 24         | 1.438-18 UNEF     | 1.291 (32.8) | 1.059 (26.9) | 1.593 (40.5) | 1.551 (39.4) | 2.442 (62.0) | .500 (12.7)        | .750 (19.1)  |
| 059      | 24         | 1.438-18 UNEF     | 1.291 (32.8) | 1.156 (29.4) | 1.593 (40.5) | 1.770 (45.0) | 2.442 (62.0) | .625 (15.9)        | .937 (23.8)  |
| 020      | 24         | 1.438-18 UNEF     | 1.291 (32.8) | 1.375 (34.9) | 1.593 (40.5) | 2.113 (53.7) | 2.087 (53.0) | .875 (22.2)        | 1.114 (28.3) |
| 073      | 24         | 1.438-18 UNEF     | 2.151 (54.6) | 1.375 (34.9) | 1.593 (40.5) | 2.116 (53.7) | 2.612 (66.3) | .875 (22.2)        | 1.250 (31.8) |

Dimensions are in inches (mm).



# DON'T GET SHOCKED BY UNEXPECTED SYSTEM FAILURE



## Get Complete IP67 & EMI/RFI Protection

Our EMI/RFI environmental backshells offer the ultimate protection for shielded applications. In addition to providing complete IP67 environmental protection, they protect your system against electromagnetic and radio frequency interference, which may cause system malfunction or catastrophic failure. Full protection—complete peace of mind.

**MILNEC**  
INTERCONNECT SYSTEMS

# Straight EMI/RFI Env. Backshell

BM Series • MIL-DTL-26482 Series 2 Type Connectors

## BMR2 - 009 N

1 2 3

### 1 BASIC PART NUMBER

**BMR2** Straight EMI/RFI env. backshell

### 2 DASH NO.

See Backshell Dimensions table below

### 3 MATERIAL & FINISH

**N** Aluminum, electroless nickel

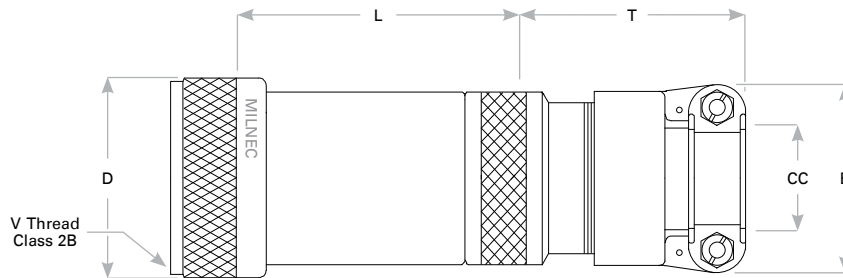
**W** Aluminum, olive drab cadmium



**Note:** See part builder (p. J-11) for additional kit options.

## BMR2 Compatibility

| Compatible Brands             | Connectors                                     |
|-------------------------------|------------------------------------------------|
| <b>MIL-DTL-26482 Series 2</b> | MS3470, MS3471, MS3472, MS3474, MS3475, MS3476 |
| <b>Aero / Conesys</b>         | AE770, AE771, AE772, AE774, AE775, AE776       |
| <b>Amphenol / Matrix</b>      | MB10, MB11, MB13, MB14, MB16, MB18             |
| <b>Deutsch</b>                | AFD50, AFD51, AFD54, AFD56, AFD57, AFD58       |
| <b>Souriau</b>                | 8526-0, 8526-5, 8526-6, 8526-7                 |



## Backshell Dimensions

| Dash No. | Shell Size | V Thread Class 2B | T            | D           | B            | L            | CC Cable Clearance |             |
|----------|------------|-------------------|--------------|-------------|--------------|--------------|--------------------|-------------|
|          |            |                   |              |             |              |              | Min                | Max         |
| 005      | 8          | .500-20 UNF       | 1.544 (39.2) | .617 (15.7) | .957 (24.3)  | 2.125 (54.0) | .125 (3.2)         | .250 (6.4)  |
| 006      | 8          | .500-20 UNF       | 1.544 (39.2) | .617 (15.7) | .957 (24.3)  | 3.125 (79.4) | .125 (3.2)         | .250 (6.4)  |
| 007      | 8          | .500-20 UNF       | 1.544 (39.2) | .617 (15.7) | 1.145 (29.1) | 2.875 (73.0) | .250 (6.4)         | .437 (11.1) |
| 008      | 8          | .500-20 UNF       | 1.544 (39.2) | .617 (15.7) | 1.145 (29.1) | 3.875 (98.4) | .250 (6.4)         | .437 (11.1) |
| 009      | 10         | .625-24 UNEF      | 1.544 (39.2) | .730 (18.5) | .957 (24.3)  | 2.125 (54.0) | .125 (3.2)         | .312 (7.9)  |
| 010      | 10         | .625-24 UNEF      | 1.544 (39.2) | .730 (18.5) | .957 (24.3)  | 3.125 (79.4) | .125 (3.2)         | .312 (7.9)  |
| 136      | 10         | .625-24 UNEF      | 1.544 (39.2) | .730 (18.5) | 1.145 (29.1) | 2.125 (54.0) | .250 (6.4)         | .375 (9.5)  |
| 137      | 10         | .625-24 UNEF      | 1.544 (39.2) | .730 (18.5) | 1.145 (29.1) | 3.125 (79.4) | .250 (6.4)         | .375 (9.5)  |
| 011      | 10         | .625-24 UNEF      | 1.544 (39.2) | .730 (18.5) | 1.145 (29.1) | 2.875 (73.0) | .250 (6.4)         | .437 (11.1) |
| 012      | 10         | .625-24 UNEF      | 1.544 (39.2) | .730 (18.5) | 1.145 (29.1) | 3.875 (98.4) | .250 (6.4)         | .437 (11.1) |
| 114      | 12         | .750-20 UNEF      | 1.544 (39.2) | .860 (21.8) | .957 (24.3)  | 2.125 (54.0) | .125 (3.2)         | .312 (7.9)  |

Dimensions are in inches (mm).

(Continued on next page)

Rev. 2223

# Straight EMI/RFI Env. Backshell

BM Series • MIL-DTL-26482 Series 2 Type Connectors

## Backshell Dimensions (Continued from previous page)

| Dash No. | Shell Size | V Thread Class 2B | T            | D            | B            | L             | CC Cable Clearance |              |
|----------|------------|-------------------|--------------|--------------|--------------|---------------|--------------------|--------------|
|          |            |                   |              |              |              |               | Min                | Max          |
| 115      | 12         | .750-20 UNEF      | 1.544 (39.2) | .860 (21.8)  | .957 (24.3)  | 3.125 (79.4)  | .125 (3.2)         | .312 (7.9)   |
| 013      | 12         | .750-20 UNEF      | 1.544 (39.2) | .860 (21.8)  | 1.145 (29.1) | 2.125 (54.0)  | .250 (6.4)         | .437 (11.1)  |
| 014      | 12         | .750-20 UNEF      | 1.544 (39.2) | .860 (21.8)  | 1.145 (29.1) | 3.125 (79.4)  | .250 (6.4)         | .437 (11.1)  |
| 138      | 12         | .750-20 UNEF      | 1.844 (46.8) | .860 (21.8)  | 1.332 (33.8) | 2.125 (54.0)  | .350 (8.9)         | .500 (12.7)  |
| 139      | 12         | .750-20 UNEF      | 1.844 (46.8) | .860 (21.8)  | 1.332 (33.8) | 3.125 (79.4)  | .350 (8.9)         | .500 (12.7)  |
| 111      | 12         | .750-20 UNEF      | 1.844 (46.8) | .860 (21.8)  | 1.332 (33.8) | 2.125 (54.0)  | .350 (8.9)         | .500 (12.7)  |
| 015      | 12         | .750-20 UNEF      | 1.844 (46.8) | .860 (21.8)  | 1.332 (33.8) | 2.875 (73.0)  | .350 (8.9)         | .625 (15.9)  |
| 016      | 12         | .750-20 UNEF      | 1.844 (46.8) | .860 (21.8)  | 1.332 (33.8) | 3.875 (98.4)  | .350 (8.9)         | .625 (15.9)  |
| 150      | 14         | .875-20 UNEF      | 1.544 (39.2) | .980 (24.9)  | .957 (24.3)  | 2.125 (54.0)  | .125 (3.2)         | .312 (7.9)   |
| 151      | 14         | .875-20 UNEF      | 1.544 (39.2) | .980 (24.9)  | .957 (24.3)  | 3.125 (79.4)  | .125 (3.2)         | .312 (7.9)   |
| 116      | 14         | .875-20 UNEF      | 1.544 (39.2) | .980 (24.9)  | 1.145 (29.1) | 2.125 (54.0)  | .250 (6.4)         | .437 (11.1)  |
| 117      | 14         | .875-20 UNEF      | 1.544 (39.2) | .980 (24.9)  | 1.145 (29.1) | 3.125 (79.4)  | .250 (6.4)         | .437 (11.1)  |
| 017      | 14         | .875-20 UNEF      | 1.844 (46.8) | .980 (24.9)  | 1.332 (33.8) | 2.125 (54.0)  | .350 (8.9)         | .575 (14.6)  |
| 018      | 14         | .875-20 UNEF      | 1.844 (46.8) | .980 (24.9)  | 1.332 (33.8) | 3.125 (79.4)  | .350 (8.9)         | .575 (14.6)  |
| 019      | 14         | .875-20 UNEF      | 1.916 (48.7) | .980 (24.9)  | 1.551 (39.4) | 2.875 (73.0)  | .500 (12.7)        | .750 (19.1)  |
| 020      | 14         | .875-20 UNEF      | 1.916 (48.7) | .980 (24.9)  | 1.551 (39.4) | 3.875 (98.4)  | .500 (12.7)        | .750 (19.1)  |
| 152      | 16         | 1.000-20 UNEF     | 1.544 (39.2) | 1.110 (28.2) | .957 (24.3)  | 2.125 (54.0)  | .125 (3.2)         | .312 (7.9)   |
| 153      | 16         | 1.000-20 UNEF     | 1.544 (39.2) | 1.110 (28.2) | .957 (24.3)  | 3.125 (79.4)  | .125 (3.2)         | .312 (7.9)   |
| 112      | 16         | 1.000-20 UNEF     | 1.544 (39.2) | 1.110 (28.2) | 1.145 (29.1) | 2.125 (54.0)  | .250 (6.4)         | .437 (11.1)  |
| 113      | 16         | 1.000-20 UNEF     | 1.544 (39.2) | 1.110 (28.2) | 1.145 (29.1) | 3.125 (79.4)  | .250 (6.4)         | .437 (11.1)  |
| 118      | 16         | 1.000-20 UNEF     | 1.844 (46.8) | 1.110 (28.2) | 1.332 (33.8) | 2.125 (54.0)  | .350 (8.9)         | .625 (15.9)  |
| 119      | 16         | 1.000-20 UNEF     | 1.844 (46.8) | 1.110 (28.2) | 1.332 (33.8) | 3.125 (79.4)  | .350 (8.9)         | .625 (15.9)  |
| 021      | 16         | 1.000-20 UNEF     | 1.916 (48.7) | 1.110 (28.2) | 1.551 (39.4) | 2.125 (54.0)  | .500 (12.7)        | .700 (17.8)  |
| 022      | 16         | 1.000-20 UNEF     | 1.916 (48.7) | 1.110 (28.2) | 1.551 (39.4) | 3.125 (79.4)  | .500 (12.7)        | .700 (17.8)  |
| 023      | 16         | 1.000-20 UNEF     | 2.000 (50.8) | 1.110 (28.2) | 1.770 (45.0) | 2.875 (73.0)  | .625 (15.9)        | .937 (23.8)  |
| 024      | 16         | 1.000-20 UNEF     | 2.000 (50.8) | 1.110 (28.2) | 1.770 (45.0) | 3.875 (98.4)  | .625 (15.9)        | .937 (23.8)  |
| 120      | 18         | 1.062-18 UNEF     | 1.544 (39.2) | 1.220 (31.0) | .957 (24.3)  | 2.125 (54.0)  | .125 (3.2)         | .312 (7.9)   |
| 121      | 18         | 1.062-18 UNEF     | 1.544 (39.2) | 1.220 (31.0) | .957 (24.3)  | 3.125 (79.4)  | .125 (3.2)         | .312 (7.9)   |
| 122      | 18         | 1.062-18 UNEF     | 1.544 (39.2) | 1.220 (31.0) | 1.145 (29.1) | 2.125 (54.0)  | .250 (6.4)         | .437 (11.1)  |
| 123      | 18         | 1.062-18 UNEF     | 1.544 (39.2) | 1.220 (31.0) | 1.145 (29.1) | 3.125 (79.4)  | .250 (6.4)         | .437 (11.1)  |
| 025      | 18         | 1.062-18 UNEF     | 1.844 (46.8) | 1.220 (31.0) | 1.332 (33.8) | 2.125 (54.0)  | .350 (8.9)         | .625 (15.9)  |
| 026      | 18         | 1.062-18 UNEF     | 1.844 (46.8) | 1.220 (31.0) | 1.332 (33.8) | 3.125 (79.4)  | .350 (8.9)         | .625 (15.9)  |
| 027      | 18         | 1.062-18 UNEF     | 1.916 (48.7) | 1.220 (31.0) | 1.551 (39.4) | 2.125 (54.0)  | .500 (12.7)        | .750 (19.1)  |
| 028      | 18         | 1.062-18 UNEF     | 1.916 (48.7) | 1.220 (31.0) | 1.551 (39.4) | 3.125 (79.4)  | .500 (12.7)        | .750 (19.1)  |
| 029      | 18         | 1.062-18 UNEF     | 2.000 (50.8) | 1.220 (31.0) | 1.770 (45.0) | 2.875 (73.0)  | .625 (15.9)        | .937 (23.8)  |
| 030      | 18         | 1.062-18 UNEF     | 2.000 (50.8) | 1.220 (31.0) | 1.770 (45.0) | 3.875 (98.4)  | .625 (15.9)        | .937 (23.8)  |
| 124      | 20         | 1.188-18 UNEF     | 1.544 (39.2) | 1.340 (34.0) | 1.145 (29.1) | 3.125 (79.4)  | .250 (6.4)         | .437 (11.1)  |
| 125      | 20         | 1.188-18 UNEF     | 1.544 (39.2) | 1.340 (34.0) | 1.145 (29.1) | 4.125 (104.8) | .250 (6.4)         | .437 (11.1)  |
| 031      | 20         | 1.188-18 UNEF     | 1.844 (46.8) | 1.340 (34.0) | 1.332 (33.8) | 3.125 (79.4)  | .350 (8.9)         | .625 (15.9)  |
| 032      | 20         | 1.188-18 UNEF     | 1.844 (46.8) | 1.340 (34.0) | 1.332 (33.8) | 4.125 (104.8) | .350 (8.9)         | .625 (15.9)  |
| 033      | 20         | 1.188-18 UNEF     | 1.916 (48.7) | 1.340 (34.0) | 1.551 (39.4) | 3.125 (79.4)  | .500 (12.7)        | .750 (19.1)  |
| 034      | 20         | 1.188-18 UNEF     | 1.916 (48.7) | 1.340 (34.0) | 1.551 (39.4) | 4.125 (104.8) | .500 (12.7)        | .750 (19.1)  |
| 140      | 20         | 1.188-18 UNEF     | 2.000 (50.8) | 1.340 (34.0) | 1.770 (45.0) | 3.125 (79.4)  | .625 (15.9)        | .904 (23.0)  |
| 141      | 20         | 1.188-18 UNEF     | 2.000 (50.8) | 1.340 (34.0) | 1.770 (45.0) | 4.125 (104.8) | .625 (15.9)        | .904 (23.0)  |
| 035      | 20         | 1.188-18 UNEF     | 2.000 (50.8) | 1.340 (34.0) | 1.770 (45.0) | 3.875 (98.4)  | .625 (15.9)        | .937 (23.8)  |
| 036      | 20         | 1.188-18 UNEF     | 2.000 (50.8) | 1.340 (34.0) | 1.770 (45.0) | 4.875 (123.8) | .625 (15.9)        | .937 (23.8)  |
| 037      | 20         | 1.188-18 UNEF     | 2.230 (56.6) | 1.340 (34.0) | 2.113 (53.7) | 3.875 (98.4)  | .875 (22.2)        | 1.250 (31.8) |
| 038      | 20         | 1.188-18 UNEF     | 2.230 (56.6) | 1.340 (34.0) | 2.113 (53.7) | 4.875 (123.8) | .875 (22.2)        | 1.250 (31.8) |

Dimensions are in inches (mm).

(Continued on next page)

Rev. 2223

## Backshell Dimensions (Continued from previous page)

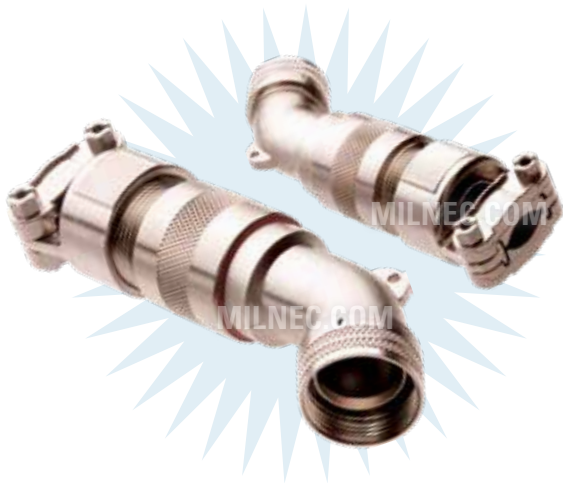
| Dash No. | Shell Size | V Thread Class 2B | T            | D            | B            | L             | CC Cable Clearance |              |
|----------|------------|-------------------|--------------|--------------|--------------|---------------|--------------------|--------------|
|          |            |                   |              |              |              |               | Min                | Max          |
| 126      | 22         | 1.313-18 UNEF     | 1.544 (39.2) | 1.470 (37.3) | .957 (24.3)  | 3.125 (79.4)  | .125 (3.2)         | .312 (7.9)   |
| 127      | 22         | 1.313-18 UNEF     | 1.544 (39.2) | 1.470 (37.3) | .957 (24.3)  | 4.125 (104.8) | .125 (3.2)         | .312 (7.9)   |
| 128      | 22         | 1.313-18 UNEF     | 1.544 (39.2) | 1.470 (37.3) | 1.145 (29.1) | 3.125 (79.4)  | .250 (6.4)         | .437 (11.1)  |
| 129      | 22         | 1.313-18 UNEF     | 1.544 (39.2) | 1.470 (37.3) | 1.145 (29.1) | 4.125 (104.8) | .250 (6.4)         | .437 (11.1)  |
| 039      | 22         | 1.313-18 UNEF     | 1.844 (46.8) | 1.470 (37.3) | 1.332 (33.8) | 3.125 (79.4)  | .350 (8.9)         | .625 (15.9)  |
| 040      | 22         | 1.313-18 UNEF     | 1.844 (46.8) | 1.470 (37.3) | 1.332 (33.8) | 4.125 (104.8) | .350 (8.9)         | .625 (15.9)  |
| 041      | 22         | 1.313-18 UNEF     | 1.916 (48.7) | 1.470 (37.3) | 1.551 (39.4) | 3.125 (79.4)  | .500 (12.7)        | .750 (19.1)  |
| 042      | 22         | 1.313-18 UNEF     | 1.916 (48.7) | 1.470 (37.3) | 1.551 (39.4) | 4.125 (104.8) | .500 (12.7)        | .750 (19.1)  |
| 043      | 22         | 1.313-18 UNEF     | 2.000 (50.8) | 1.470 (37.3) | 1.770 (45.0) | 3.125 (79.4)  | .625 (15.9)        | .937 (23.8)  |
| 044      | 22         | 1.313-18 UNEF     | 2.000 (50.8) | 1.470 (37.3) | 1.770 (45.0) | 4.125 (104.8) | .625 (15.9)        | .937 (23.8)  |
| 142      | 22         | 1.313-18 UNEF     | 2.230 (56.6) | 1.470 (37.3) | 2.113 (53.7) | 3.125 (79.4)  | .875 (22.2)        | 1.029 (26.1) |
| 143      | 22         | 1.313-18 UNEF     | 2.230 (56.6) | 1.470 (37.3) | 2.113 (53.7) | 4.125 (104.8) | .875 (22.2)        | 1.029 (26.1) |
| 045      | 22         | 1.313-18 UNEF     | 2.230 (56.6) | 1.470 (37.3) | 2.113 (53.7) | 3.875 (98.4)  | .875 (22.2)        | 1.250 (31.8) |
| 046      | 22         | 1.313-18 UNEF     | 2.230 (56.6) | 1.470 (37.3) | 2.113 (53.7) | 4.875 (123.8) | .875 (22.2)        | 1.250 (31.8) |
| 130      | 24         | 1.438-18 UNEF     | 1.844 (46.8) | 1.590 (40.4) | 1.332 (33.8) | 3.125 (79.4)  | .350 (8.9)         | .625 (15.9)  |
| 131      | 24         | 1.438-18 UNEF     | 1.844 (46.8) | 1.590 (40.4) | 1.332 (33.8) | 4.125 (104.8) | .350 (8.9)         | .625 (15.9)  |
| 047      | 24         | 1.438-18 UNEF     | 1.916 (48.7) | 1.590 (40.4) | 1.551 (39.4) | 3.125 (79.4)  | .500 (12.7)        | .750 (19.1)  |
| 048      | 24         | 1.438-18 UNEF     | 1.916 (48.7) | 1.590 (40.4) | 1.551 (39.4) | 4.125 (104.8) | .500 (12.7)        | .750 (19.1)  |
| 049      | 24         | 1.438-18 UNEF     | 2.000 (50.8) | 1.590 (40.4) | 1.770 (45.0) | 3.125 (79.4)  | .625 (15.9)        | .812 (20.6)  |
| 050      | 24         | 1.438-18 UNEF     | 2.000 (50.8) | 1.590 (40.4) | 1.770 (45.0) | 4.125 (104.8) | .625 (15.9)        | .812 (20.6)  |
| 051      | 24         | 1.438-18 UNEF     | 2.000 (50.8) | 1.590 (40.4) | 1.770 (45.0) | 3.125 (79.4)  | .625 (15.9)        | .937 (23.8)  |
| 052      | 24         | 1.438-18 UNEF     | 2.000 (50.8) | 1.590 (40.4) | 1.770 (45.0) | 4.125 (104.8) | .625 (15.9)        | .937 (23.8)  |
| 144      | 24         | 1.438-18 UNEF     | 2.230 (56.6) | 1.590 (40.4) | 2.113 (53.7) | 3.125 (79.4)  | .875 (22.2)        | 1.144 (29.1) |
| 145      | 24         | 1.438-18 UNEF     | 2.230 (56.6) | 1.590 (40.4) | 2.113 (53.7) | 4.125 (104.8) | .875 (22.2)        | 1.144 (29.1) |
| 053      | 24         | 1.438-18 UNEF     | 2.230 (56.6) | 1.590 (40.4) | 2.113 (53.7) | 3.875 (98.4)  | .875 (22.2)        | 1.250 (31.8) |
| 054      | 24         | 1.438-18 UNEF     | 2.230 (56.6) | 1.590 (40.4) | 2.113 (53.7) | 4.875 (123.8) | .875 (22.2)        | 1.250 (31.8) |

Dimensions are in inches (mm).



45° EMI/RFI Env. Backshell

BM Series • MIL-DTL-26482 Series 2 Type Connectors



BMR3 - 009 N

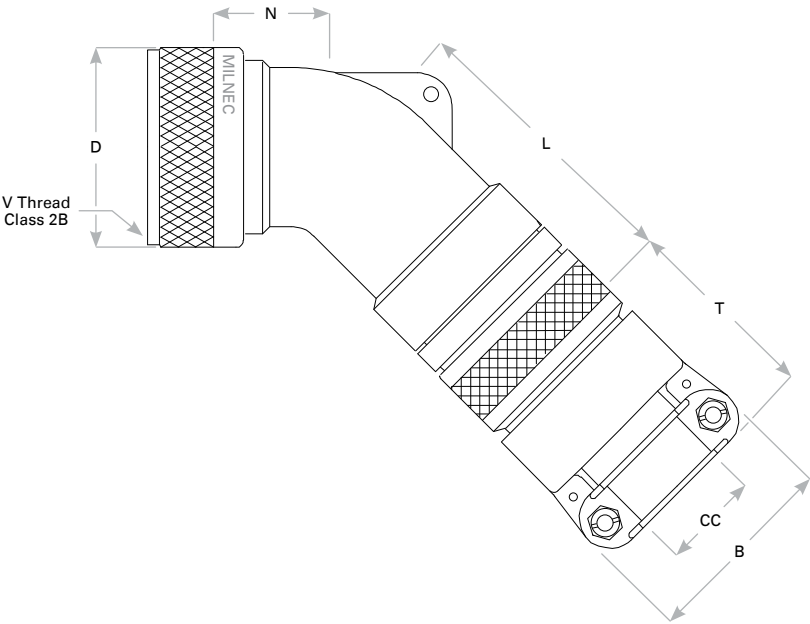
- 1
- 2
- 3
- 1
- 2
- 3
- BASIC PART NUMBER
- BMR3 45° EMI/RFI env. backshell
- DASH NO.
- See Backshell Dimensions table below
- MATERIAL & FINISH

- N
- Aluminum, electroless nickel
- W
- Aluminum, olive drab cadmium

Note: See part builder (p. J-11) for additional kit options.

BMR3 Compatibility

| Compatible Brands      | Connectors                                     |
|------------------------|------------------------------------------------|
| MIL-DTL-26482 Series 2 | MS3470, MS3471, MS3472, MS3474, MS3475, MS3476 |
| Aero / Conesys         | AE770, AE771, AE772, AE774, AE775, AE776       |
| Amphenol / Matrix      | MB10, MB11, MB13, MB14, MB16, MB18             |
| Deutsch                | AFD50, AFD51, AFD54, AFD56, AFD57, AFD58       |
| Souriau                | 8526-0, 8526-5, 8526-6, 8526-7                 |



Backshell Dimensions

| Dash No. | Shell Size | V Thread Class 2B | N            | T            | D           | B            | L            | CC Cable Clearance |             |
|----------|------------|-------------------|--------------|--------------|-------------|--------------|--------------|--------------------|-------------|
|          |            |                   |              |              |             |              |              | Min                | Max         |
| 003      | 8          | .500-20 UNF       | .625 (15.9)  | 1.544 (39.2) | .617 (15.7) | .957 (24.3)  | 1.244 (31.6) | .125 (3.2)         | .250 (6.4)  |
| 004      | 10         | .625-24 UNEF      | .686 (17.4)  | 1.544 (39.2) | .734 (18.6) | .957 (24.3)  | 1.912 (48.6) | .125 (3.2)         | .312 (7.9)  |
| 005      | 10         | .625-24 UNEF      | .686 (17.4)  | 1.544 (39.2) | .734 (18.6) | 1.145 (29.1) | 1.307 (33.2) | .250 (6.4)         | .375 (9.5)  |
| 049      | 10         | .625-24 UNEF      | 1.500 (38.1) | 1.544 (39.2) | .734 (18.6) | 1.145 (29.1) | 1.972 (50.1) | .250 (6.4)         | .437 (11.1) |
| 006      | 12         | .750-20 UNEF      | .750 (19.1)  | 1.544 (39.2) | .858 (21.8) | .957 (24.3)  | 1.972 (50.1) | .125 (3.2)         | .312 (7.9)  |

Dimensions are in inches (mm).

(Continued on next page)

Rev. 2223

**Backshell Dimensions** (Continued from previous page)

| Dash No. | Shell Size | V Thread Class 2B | N            | T            | D            | B            | L            | CC Cable Clearance |              |
|----------|------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------------|--------------|
|          |            |                   |              |              |              |              |              | Min                | Max          |
| 007      | 12         | .750-20 UNEF      | .750 (19.1)  | 1.544 (39.2) | .858 (21.8)  | 1.145 (29.1) | 1.972 (50.1) | .250 (6.4)         | .437 (11.1)  |
| 008      | 12         | .750-20 UNEF      | .750 (19.1)  | 1.844 (46.8) | .858 (21.8)  | 1.332 (33.8) | 1.972 (50.1) | .350 (8.9)         | .500 (12.7)  |
| 071      | 12         | .750-20 UNEF      | 1.654 (42.0) | 1.844 (46.8) | .858 (21.8)  | 1.332 (33.8) | 2.172 (55.2) | .350 (8.9)         | .625 (15.9)  |
| 074      | 14         | .875-20 UNEF      | .813 (20.7)  | 1.544 (39.2) | .984 (25.0)  | .957 (24.3)  | 2.062 (52.4) | .125 (3.2)         | .312 (7.9)   |
| 009      | 14         | .875-20 UNEF      | .813 (20.7)  | 1.544 (39.2) | .984 (25.0)  | 1.145 (29.1) | 2.062 (52.4) | .250 (6.4)         | .437 (11.1)  |
| 010      | 14         | .875-20 UNEF      | .813 (20.7)  | 1.844 (46.8) | .984 (25.0)  | 1.332 (33.8) | 1.717 (43.6) | .350 (8.9)         | .575 (14.6)  |
| 050      | 14         | .875-20 UNEF      | 1.842 (46.8) | 1.916 (48.7) | .984 (25.0)  | 1.551 (39.4) | 2.362 (60.0) | .500 (12.7)        | .750 (19.1)  |
| 075      | 16         | 1.000-20 UNEF     | .906 (23.0)  | 1.544 (39.2) | 1.112 (28.2) | .957 (24.3)  | 2.172 (55.2) | .125 (3.2)         | .312 (7.9)   |
| 011      | 16         | 1.000-20 UNEF     | .906 (23.0)  | 1.544 (39.2) | 1.112 (28.2) | 1.145 (29.1) | 2.172 (55.2) | .250 (6.4)         | .437 (11.1)  |
| 040      | 16         | 1.000-20 UNEF     | .906 (23.0)  | 1.844 (46.8) | 1.112 (28.2) | 1.332 (33.8) | 2.172 (55.2) | .350 (8.9)         | .625 (15.9)  |
| 012      | 16         | 1.000-20 UNEF     | .906 (23.0)  | 1.916 (48.7) | 1.112 (28.2) | 1.551 (39.4) | 1.812 (46.0) | .500 (12.7)        | .700 (17.8)  |
| 051      | 16         | 1.000-20 UNEF     | 1.937 (49.2) | 2.000 (50.8) | 1.112 (28.2) | 1.770 (45.0) | 2.512 (63.8) | .625 (15.9)        | .937 (23.8)  |
| 041      | 18         | 1.062-18 UNEF     | 1.093 (27.8) | 1.544 (39.2) | 1.218 (30.9) | .957 (24.3)  | 2.362 (60.0) | .125 (3.2)         | .312 (7.9)   |
| 042      | 18         | 1.062-18 UNEF     | 1.093 (27.8) | 1.544 (39.2) | 1.218 (30.9) | 1.145 (29.1) | 2.362 (60.0) | .250 (6.4)         | .437 (11.1)  |
| 013      | 18         | 1.062-18 UNEF     | 1.093 (27.8) | 1.844 (46.8) | 1.218 (30.9) | 1.332 (33.8) | 2.362 (60.0) | .350 (8.9)         | .625 (15.9)  |
| 052      | 18         | 1.062-18 UNEF     | 1.093 (27.8) | 1.916 (48.7) | 1.218 (30.9) | 1.551 (39.4) | 2.362 (60.0) | .500 (12.7)        | .750 (19.1)  |
| 014      | 18         | 1.062-18 UNEF     | 1.093 (27.8) | 2.000 (50.8) | 1.218 (30.9) | 1.770 (45.0) | 2.000 (50.8) | .625 (15.9)        | .779 (19.8)  |
| 072      | 18         | 1.062-18 UNEF     | 1.937 (49.2) | 2.000 (50.8) | 1.218 (30.9) | 1.770 (45.0) | 2.512 (63.8) | .625 (15.9)        | .937 (23.8)  |
| 043      | 20         | 1.188-18 UNEF     | 1.093 (27.8) | 1.544 (39.2) | 1.345 (34.2) | 1.145 (29.1) | 2.362 (60.0) | .250 (6.4)         | .437 (11.1)  |
| 015      | 20         | 1.188-18 UNEF     | 1.093 (27.8) | 1.844 (46.8) | 1.345 (34.2) | 1.332 (33.8) | 2.362 (60.0) | .350 (8.9)         | .625 (15.9)  |
| 054      | 20         | 1.188-18 UNEF     | 1.093 (27.8) | 1.916 (48.7) | 1.345 (34.2) | 1.551 (39.4) | 2.362 (60.0) | .500 (12.7)        | .750 (19.1)  |
| 016      | 20         | 1.188-18 UNEF     | 1.093 (27.8) | 2.000 (50.8) | 1.345 (34.2) | 1.770 (45.0) | 2.000 (50.8) | .625 (15.9)        | .904 (23.0)  |
| 055      | 20         | 1.188-18 UNEF     | 2.061 (52.3) | 2.230 (56.6) | 1.345 (34.2) | 2.113 (53.7) | 2.562 (65.1) | .875 (22.2)        | 1.250 (31.8) |
| 044      | 22         | 1.313-18 UNEF     | 1.188 (30.2) | 1.544 (39.2) | 1.468 (37.3) | .957 (24.3)  | 2.512 (63.8) | .125 (3.2)         | .312 (7.9)   |
| 045      | 22         | 1.313-18 UNEF     | 1.188 (30.2) | 1.544 (39.2) | 1.468 (37.3) | 1.145 (29.1) | 2.512 (63.8) | .250 (6.4)         | .437 (11.1)  |
| 056      | 22         | 1.313-18 UNEF     | 1.188 (30.2) | 1.844 (46.8) | 1.468 (37.3) | 1.332 (33.8) | 2.512 (63.8) | .350 (8.9)         | .625 (15.9)  |
| 017      | 22         | 1.313-18 UNEF     | 1.188 (30.2) | 1.916 (48.7) | 1.468 (37.3) | 1.551 (39.4) | 2.512 (63.8) | .500 (12.7)        | .750 (19.1)  |
| 057      | 22         | 1.313-18 UNEF     | 1.188 (30.2) | 2.000 (50.8) | 1.468 (37.3) | 1.770 (45.0) | 2.512 (63.8) | .625 (15.9)        | .937 (23.8)  |
| 018      | 22         | 1.313-18 UNEF     | 1.188 (30.2) | 2.230 (56.6) | 1.468 (37.3) | 2.113 (53.7) | 2.155 (54.7) | .875 (22.2)        | 1.029 (26.1) |
| 058      | 22         | 1.313-18 UNEF     | 2.061 (52.3) | 2.230 (56.6) | 1.468 (37.3) | 2.113 (53.7) | 2.562 (65.1) | .875 (22.2)        | 1.250 (31.8) |
| 046      | 24         | 1.438-18 UNEF     | 1.188 (30.2) | 1.844 (46.8) | 1.593 (40.5) | 1.332 (33.8) | 2.512 (63.8) | .350 (8.9)         | .625 (15.9)  |
| 019      | 24         | 1.438-18 UNEF     | 1.188 (30.2) | 1.916 (48.7) | 1.593 (40.5) | 1.551 (39.4) | 2.512 (63.8) | .500 (12.7)        | .750 (19.1)  |
| 059      | 24         | 1.438-18 UNEF     | 1.188 (30.2) | 2.000 (50.8) | 1.593 (40.5) | 1.770 (45.0) | 2.512 (63.8) | .625 (15.9)        | .937 (23.8)  |
| 020      | 24         | 1.438-18 UNEF     | 1.188 (30.2) | 2.230 (56.6) | 1.593 (40.5) | 2.113 (53.7) | 2.155 (54.7) | .875 (22.2)        | 1.144 (29.1) |
| 073      | 24         | 1.438-18 UNEF     | 2.061 (52.3) | 2.230 (56.6) | 1.593 (40.5) | 2.116 (53.7) | 2.562 (65.1) | .875 (22.2)        | 1.250 (31.8) |

Dimensions are in inches (mm).

90° EMI/RFI Env. Backshell

BM Series • MIL-DTL-26482 Series 2 Type Connectors



BMR4 - 009 N

- 1

2

3
- 1

2

3
- BASIC PART NUMBER**

**BMR4** 90° EMI/RFI env. backshell

**DASH NO.**

See Backshell Dimensions table below

**MATERIAL & FINISH**

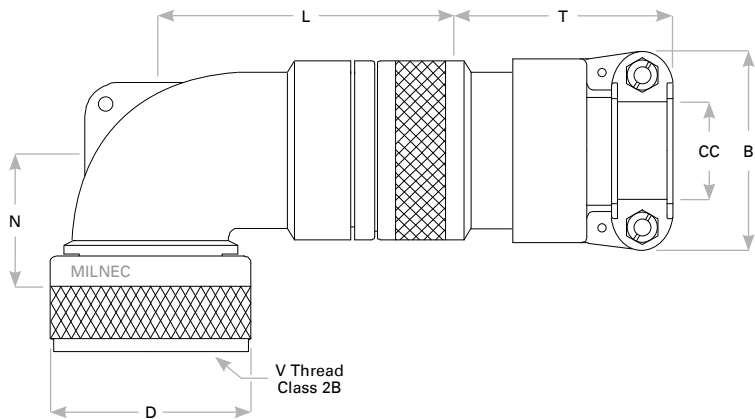
**N** Aluminum, electroless nickel

**W** Aluminum, olive drab cadmium

**Note:** See part builder (p. J-11) for additional kit options.

BMR4 Compatibility

| Compatible Brands      | Connectors                                     |
|------------------------|------------------------------------------------|
| MIL-DTL-26482 Series 2 | MS3470, MS3471, MS3472, MS3474, MS3475, MS3476 |
| Aero / Conesys         | AE770, AE771, AE772, AE774, AE775, AE776       |
| Amphenol / Matrix      | MB10, MB11, MB13, MB14, MB16, MB18             |
| Deutsch                | AFD50, AFD51, AFD54, AFD56, AFD57, AFD58       |
| Souriau                | 8526-0, 8526-5, 8526-6, 8526-7                 |



Backshell Dimensions

| Dash No. | Shell Size | V Thread Class 2B | N            | T            | D           | B            | L            | CC Cable Clearance |             |
|----------|------------|-------------------|--------------|--------------|-------------|--------------|--------------|--------------------|-------------|
|          |            |                   |              |              |             |              |              | Min                | Max         |
| 003      | 8          | .500-20 UNF       | .666 (16.9)  | 1.544 (39.2) | .617 (15.7) | .957 (24.3)  | 1.262 (32.1) | .125 (3.2)         | .250 (6.4)  |
| 004      | 10         | .625-24 UNEF      | .761 (19.3)  | 1.544 (39.2) | .730 (18.5) | .957 (24.3)  | 1.982 (50.3) | .125 (3.2)         | .312 (7.9)  |
| 005      | 10         | .625-24 UNEF      | .761 (19.3)  | 1.544 (39.2) | .730 (18.5) | 1.145 (29.1) | 1.382 (35.1) | .250 (6.4)         | .375 (9.5)  |
| 049      | 10         | .625-24 UNEF      | 1.516 (38.5) | 1.544 (39.2) | .730 (18.5) | 1.145 (29.1) | 2.002 (50.9) | .250 (6.4)         | .437 (11.1) |
| 006      | 12         | .750-20 UNEF      | .766 (19.5)  | 1.544 (39.2) | .860 (21.8) | .957 (24.3)  | 2.002 (50.9) | .125 (3.2)         | .312 (7.9)  |
| 007      | 12         | .750-20 UNEF      | .766 (19.5)  | 1.544 (39.2) | .860 (21.8) | 1.145 (29.1) | 2.002 (50.9) | .250 (6.4)         | .437 (11.1) |
| 008      | 12         | .750-20 UNEF      | .766 (19.5)  | 1.844 (46.8) | .860 (21.8) | 1.332 (33.8) | 1.397 (35.5) | .350 (8.9)         | .500 (12.7) |
| 071      | 12         | .750-20 UNEF      | 1.811 (46.0) | 1.844 (46.8) | .860 (21.8) | 1.332 (33.8) | 2.162 (54.9) | .350 (8.9)         | .625 (15.9) |
| 074      | 14         | .875-20 UNEF      | .866 (22.0)  | 1.544 (39.2) | .980 (24.9) | .957 (24.3)  | 2.072 (52.6) | .125 (3.2)         | .312 (7.9)  |
| 009      | 14         | .875-20 UNEF      | .866 (22.0)  | 1.544 (39.2) | .980 (24.9) | 1.145 (29.1) | 2.072 (52.6) | .250 (6.4)         | .437 (11.1) |
| 010      | 14         | .875-20 UNEF      | .866 (22.0)  | 1.844 (46.8) | .980 (24.9) | 1.332 (33.8) | 1.717 (43.6) | .350 (8.9)         | .575 (14.6) |
| 050      | 14         | .875-20 UNEF      | 1.891 (48.0) | 1.916 (48.7) | .980 (24.9) | 1.551 (39.4) | 2.332 (59.2) | .500 (12.7)        | .750 (19.1) |

Dimensions are in inches (mm).

(Continued on next page)

Rev. 2223

### Backshell Dimensions (Continued from previous page)

| Dash No. | Shell Size | V Thread Class 2B | N            | T            | D            | B            | L            | CC Cable Clearance |              |
|----------|------------|-------------------|--------------|--------------|--------------|--------------|--------------|--------------------|--------------|
|          |            |                   |              |              |              |              |              | Min                | Max          |
| 075      | 16         | 1.000-20 UNEF     | 1.051 (26.7) | 1.544 (39.2) | 1.110 (28.2) | .957 (24.3)  | 2.162 (54.9) | .125 (3.2)         | .312 (7.9)   |
| 011      | 16         | 1.000-20 UNEF     | 1.051 (26.7) | 1.544 (39.2) | 1.110 (28.2) | 1.145 (29.1) | 2.162 (54.9) | .250 (6.4)         | .437 (11.1)  |
| 012      | 16         | 1.000-20 UNEF     | 1.051 (26.7) | 1.916 (48.7) | 1.110 (28.2) | 1.551 (39.4) | 1.807 (45.9) | .500 (12.7)        | .700 (17.8)  |
| 051      | 16         | 1.000-20 UNEF     | 2.041 (51.8) | 2.000 (50.8) | 1.110 (28.2) | 1.770 (45.0) | 2.442 (62.0) | .625 (15.9)        | .937 (23.8)  |
| 041      | 18         | 1.062-18 UNEF     | 1.141 (29.0) | 1.544 (39.2) | 1.220 (31.0) | .957 (24.3)  | 2.332 (59.2) | .125 (3.2)         | .312 (7.9)   |
| 042      | 18         | 1.062-18 UNEF     | 1.141 (29.0) | 1.544 (39.2) | 1.220 (31.0) | 1.145 (29.1) | 2.332 (59.2) | .250 (6.4)         | .437 (11.1)  |
| 013      | 18         | 1.062-18 UNEF     | 1.141 (29.0) | 1.844 (46.8) | 1.220 (31.0) | 1.332 (33.8) | 2.332 (59.2) | .350 (8.9)         | .625 (15.9)  |
| 052      | 18         | 1.062-18 UNEF     | 1.141 (29.0) | 1.916 (48.7) | 1.220 (31.0) | 1.551 (39.4) | 2.332 (59.2) | .500 (12.7)        | .750 (19.1)  |
| 014      | 18         | 1.062-18 UNEF     | 1.141 (29.0) | 2.000 (50.8) | 1.220 (31.0) | 1.770 (45.0) | 1.982 (50.3) | .625 (15.9)        | .779 (19.8)  |
| 072      | 18         | 1.062-18 UNEF     | 2.051 (52.1) | 2.000 (50.8) | 1.220 (31.0) | 1.770 (45.0) | 2.442 (62.0) | .625 (15.9)        | .937 (23.8)  |
| 043      | 20         | 1.188-18 UNEF     | 1.141 (29.0) | 1.544 (39.2) | 1.340 (34.0) | 1.145 (29.1) | 2.332 (59.2) | .250 (6.4)         | .437 (11.1)  |
| 015      | 20         | 1.188-18 UNEF     | 1.141 (29.0) | 1.844 (46.8) | 1.340 (34.0) | 1.332 (33.8) | 2.332 (59.2) | .350 (8.9)         | .625 (15.9)  |
| 054      | 20         | 1.188-18 UNEF     | 1.141 (29.0) | 1.916 (48.7) | 1.340 (34.0) | 1.551 (39.4) | 2.332 (59.2) | .500 (12.7)        | .750 (19.1)  |
| 016      | 20         | 1.188-18 UNEF     | 1.141 (29.0) | 2.000 (50.8) | 1.340 (34.0) | 1.770 (45.0) | 1.982 (50.3) | .625 (15.9)        | .904 (23.0)  |
| 055      | 20         | 1.188-18 UNEF     | 2.141 (54.4) | 2.230 (56.6) | 1.340 (34.0) | 2.113 (53.7) | 2.612 (66.3) | .875 (22.2)        | 1.250 (31.8) |
| 044      | 22         | 1.313-18 UNEF     | 1.291 (32.8) | 1.544 (39.2) | 1.470 (37.3) | .957 (24.3)  | 2.442 (62.0) | .125 (3.2)         | .312 (7.9)   |
| 045      | 22         | 1.313-18 UNEF     | 1.291 (32.8) | 1.544 (39.2) | 1.470 (37.3) | 1.145 (29.1) | 2.442 (62.0) | .250 (6.4)         | .437 (11.1)  |
| 056      | 22         | 1.313-18 UNEF     | 1.291 (32.8) | 1.844 (46.8) | 1.470 (37.3) | 1.332 (33.8) | 2.442 (62.0) | .350 (8.9)         | .625 (15.9)  |
| 017      | 22         | 1.313-18 UNEF     | 1.291 (32.8) | 1.916 (48.7) | 1.470 (37.3) | 1.551 (39.4) | 2.442 (62.0) | .500 (12.7)        | .750 (19.1)  |
| 057      | 22         | 1.313-18 UNEF     | 1.291 (32.8) | 2.000 (50.8) | 1.470 (37.3) | 1.770 (45.0) | 2.442 (62.0) | .625 (15.9)        | .937 (23.8)  |
| 018      | 22         | 1.313-18 UNEF     | 1.291 (32.8) | 2.230 (56.6) | 1.470 (37.3) | 2.113 (53.7) | 2.087 (53.0) | .875 (22.2)        | 1.029 (26.1) |
| 058      | 22         | 1.313-18 UNEF     | 2.141 (54.4) | 2.230 (56.6) | 1.470 (37.3) | 2.113 (53.7) | 2.612 (66.3) | .875 (22.2)        | 1.250 (31.8) |
| 046      | 24         | 1.438-18 UNEF     | 1.291 (32.8) | 1.844 (46.8) | 1.590 (40.4) | 1.332 (33.8) | 2.442 (62.0) | .350 (8.9)         | .625 (15.9)  |
| 019      | 24         | 1.438-18 UNEF     | 1.291 (32.8) | 1.916 (48.7) | 1.590 (40.4) | 1.551 (39.4) | 2.442 (62.0) | .500 (12.7)        | .750 (19.1)  |
| 059      | 24         | 1.438-18 UNEF     | 1.291 (32.8) | 2.000 (50.8) | 1.590 (40.4) | 1.770 (45.0) | 2.442 (62.0) | .625 (15.9)        | .937 (23.8)  |
| 020      | 24         | 1.438-18 UNEF     | 1.291 (32.8) | 2.230 (56.6) | 1.590 (40.4) | 2.113 (53.7) | 2.087 (53.0) | .875 (22.2)        | 1.144 (29.1) |
| 073      | 24         | 1.438-18 UNEF     | 2.151 (54.6) | 2.230 (56.6) | 1.590 (40.4) | 2.116 (53.7) | 2.612 (66.3) | .875 (22.2)        | 1.250 (31.8) |

Dimensions are in inches (mm).



# Shorting Cap Backshell

BM Series • MIL-DTL-26482 Series 2 Type Connectors



Optional Body Strap  
with Bolt Attachment

## BMSC - 14 - 3 N 1

- 1 **BASIC PART NUMBER**  
BMSC Shorting cap backshell
- 2 **SHELL SIZE**  
See Backshell Dimensions table below
- 3 **BACKSHELL LENGTH**  
Length in whole inches (1 inch = 25.4 mm)
- 4 **MATERIAL & FINISH**
  - N Aluminum, electroless nickel
  - W Aluminum, olive drab cadmium
  - G Aluminum, electroless nickel (space-grade)
- 5 **ATTACHMENT STYLE**
  - 1 No strap attachment
  - 2 Body strap with bolt attachment

## BMSC Compatibility

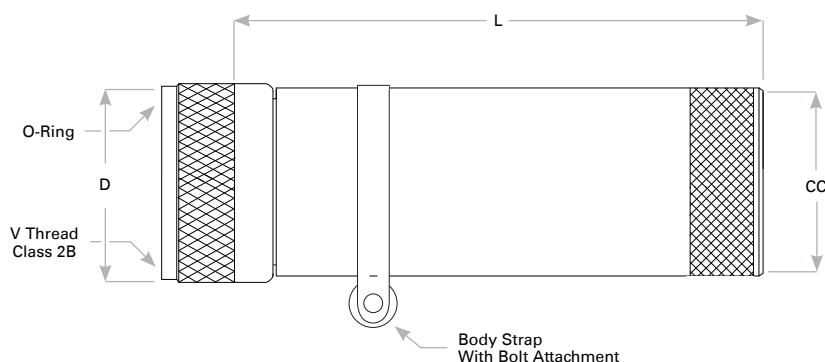
| Compatible Brands      | Connectors                                     |
|------------------------|------------------------------------------------|
| MIL-DTL-26482 Series 2 | MS3470, MS3471, MS3472, MS3474, MS3475, MS3476 |
| Aero / Conesys         | AE770, AE771, AE772, AE774, AE775, AE776       |
| Amphenol / Matrix      | MB10, MB11, MB13, MB14, MB16, MB18             |
| Deutsch                | AFD50, AFD51, AFD54, AFD56, AFD57, AFD58       |
| Souriau                | 8526-0, 8526-5, 8526-6, 8526-7                 |

## Backshell Dimensions

| Shell Size | D            | V Thread Class 2B | CC Internal Dia | L |
|------------|--------------|-------------------|-----------------|---|
| 8          | .617 (15.7)  | .500-20 UNF       | .250 (6.4)      |   |
| 10         | .770 (19.6)  | .625-24 UNEF      | .355 (9.0)      |   |
| 12         | .860 (21.8)  | .750-20 UNEF      | .491 (12.5)     |   |
| 14         | 1.020 (25.9) | .875-20 UNEF      | .565 (14.4)     |   |
| 16         | 1.210 (30.7) | 1.000-20 UNEF     | .690 (17.5)     |   |
| 18         | 1.230 (31.2) | 1.062-18 UNEF     | .769 (19.5)     |   |
| 20         | 1.360 (34.5) | 1.188-18 UNEF     | .894 (22.7)     |   |
| 22         | 1.480 (37.6) | 1.313-18 UNEF     | 1.019 (25.9)    |   |
| 24         | 1.730 (43.9) | 1.438-18 UNEF     | 1.134 (28.8)    |   |

Ordered in whole inch increments  
Min = 1 inch (25.4 mm)  
Max = 12 inches (304.8 mm)

Dimensions are in inches (mm).



Rev. 2223

# CUSTOM TAILORED CONNECTORS



- Complete Mil-Spec Compatibility
- Wide Variety of Materials & Finishes
- More Backshells
- Specialized Contacts
- Additional Inserts
- More Shell Options

## Military Strength—COTS Flexibility

Milnec builds connectors that meet and exceed established military specifications, while also providing additional options and features unavailable under the mil-spec. These commercial off the shelf (COTS) upgrades provide the strength and reliability of military specifications with the flexibility demanded by modern designs.



# Straight Shrink Boot

BM Series • MIL-DTL-26482 Series 2 Type Connectors

## BMK2 - 4 - 100

- 1 BASIC PART NUMBER  
BMK2 Straight shrink boot
- 2 BOOT SIZE  
See Boot Dimensions table below
- 3 MATERIAL

- 100** Halogen-free, semi-flexible elastomer pre-coated with hot-melt adhesive. Material has excellent fire-safety characteristics and is especially suited where people are confined in enclosed spaces (mass transit, aviation, vehicles, offshore, etc).
- Temp: -22° to +302°F (-30° to +150°C)
  - Low-smoke index as defined by NES 711
  - Low-toxicity index as defined by NES 713
  - High-temp index as defined by NES 715

\* Please consult an authorized distributor for other high-temperature materials and adhesive options.

## Environmental protection, low-profile design

A shrink boot provides complete IP67 environmental protection and strain relief. Must be used with a boot adapter.

## Boot Size Recommendations

| Boot Size | Cable Range |              | Shell Size |     |     |     |     |    |    |    |    |  |
|-----------|-------------|--------------|------------|-----|-----|-----|-----|----|----|----|----|--|
|           | Min         | Max          | 8          | 10  | 12  | 14  | 16  | 18 | 20 | 22 | 24 |  |
| 2         | .220 (5.6)  | .550 (14.0)  | ✓ *        | ✓ * | ✓ * |     |     |    |    |    |    |  |
| 3         | .230 (5.9)  | .590 (15.0)  |            |     |     | ✓ * | ✓ * |    |    |    |    |  |
| 4         | .280 (7.1)  | .710 (18.0)  |            |     |     |     |     | *  | *  |    |    |  |
| 5         | .330 (8.4)  | .830 (21.0)  |            |     |     |     |     | ✓  | ✓  | *  | *  |  |
| 6         | .390 (9.9)  | .980 (25.0)  |            |     |     |     |     |    |    | ✓  | ✓  |  |
| 7         | .620 (15.7) | 1.540 (39.0) |            |     |     |     |     |    |    |    |    |  |
| 8         | .660 (16.8) | 1.650 (42.0) |            |     |     |     |     |    |    |    |    |  |

Dimensions are in inches (mm). ✓ Recommended boot size for (BMAB) Shrink Boot Adapter, p. J-45.

\* Recommended boot size for (BMD2, BMD3, BMD4) EMI/RFI Shrink Boot Adapter, p. J-46.

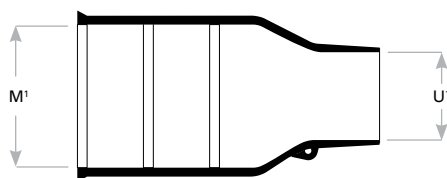
## Boot Dimensions

| Boot Size | M <sup>1</sup> | U <sup>1</sup> | M <sup>2</sup> | U <sup>2</sup> | L <sup>1</sup> | R <sup>1</sup> | T <sup>*</sup> | W <sup>†</sup> | FF <sup>*</sup> |
|-----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|
| 2         | .940 (24.0)    | .550 (14.0)    | .410 (10.4)    | .220 (5.6)     | 1.500 (38.0)   | .830 (21.0)    | .330 (8.5)     | .470 (12.0)    | .060 (1.6)      |
| 3         | 1.180 (30.0)   | .590 (15.0)    | .560 (14.2)    | .230 (5.9)     | 2.170 (55.0)   | 1.260 (32.0)   | .450 (11.5)    | .470 (12.0)    | .070 (1.8)      |
| 4         | 1.220 (31.0)   | .710 (18.0)    | .710 (18.0)    | .280 (7.1)     | 2.640 (67.0)   | 1.380 (35.0)   | .670 (17.0)    | .790 (20.0)    | .070 (1.8)      |
| 5         | 1.420 (36.0)   | .830 (21.0)    | .880 (22.4)    | .330 (8.4)     | 3.150 (80.0)   | 1.650 (42.0)   | .760 (19.5)    | .790 (20.0)    | .080 (2.0)      |
| 6         | 1.690 (43.0)   | .980 (25.0)    | 1.110 (28.2)   | .390 (9.9)     | 3.900 (99.0)   | 2.400 (61.0)   | .820 (21.0)    | .790 (20.0)    | .090 (2.2)      |
| 7         | 2.050 (52.0)   | 1.540 (39.0)   | 1.380 (35.1)   | .620 (15.7)    | 5.120 (130.0)  | 2.830 (72.0)   | 1.530 (39.0)   | .790 (20.0)    | .130 (3.2)      |
| 8         | 2.600 (66.0)   | 1.650 (42.0)   | 1.750 (44.5)   | .660 (16.8)    | 6.690 (170.0)  | 3.540 (90.0)   | 2.020 (51.5)   | .790 (20.0)    | .150 (3.8)      |

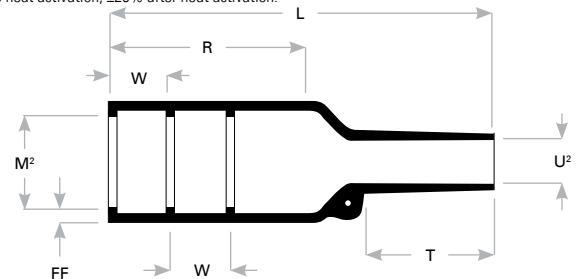
Dimensions are in inches (mm).

† Dimensions ±10% before and after heat activation.

\* Dimensions ±10% before heat activation, ±20% after heat activation.



Before Heat Activation



After Heat Activation

Rev. 2223

## BMK4 - 4 - 100

1 2 3

## 1 BASIC PART NUMBER

BMK4 90° shrink boot

## 2 BOOT SIZE

See Boot Dimensions table below

## 3 MATERIAL

**100** Halogen-free, semi-flexible elastomer pre-coated with hot-melt adhesive. Material has excellent fire-safety characteristics and is especially suited where people are confined in enclosed spaces (mass transit, aviation, vehicles, offshore, etc).

- Temp: -22° to +302°F (-30° to +150°C)
- Low-smoke index as defined by NES 711
- Low-toxicity index as defined by NES 713
- High-temp index as defined by NES 715

\* Please consult an authorized distributor for other high-temperature materials and adhesive options.

**Angled boot for simple cable management**

A 90° shrink boot offers simple cable management, strain relief, and environmental protection. For proper installation, it must be used with a boot adapter.

## Boot Size Recommendations

| Boot Size | Cable Range |              | Shell Size |     |     |     |     |    |    |    |    |  |
|-----------|-------------|--------------|------------|-----|-----|-----|-----|----|----|----|----|--|
|           | Min         | Max          | 8          | 10  | 12  | 14  | 16  | 18 | 20 | 22 | 24 |  |
| 2         | .220 (5.6)  | .550 (14.0)  | ✓ *        | ✓ * | ✓ * |     |     |    |    |    |    |  |
| 3         | .230 (5.9)  | .590 (15.0)  |            |     |     | ✓ * | ✓ * |    |    |    |    |  |
| 4         | .280 (7.1)  | .710 (18.0)  |            |     |     |     |     | *  | *  |    |    |  |
| 5         | .330 (8.4)  | .830 (21.0)  |            |     |     |     |     | ✓  | ✓  | *  | *  |  |
| 6         | .390 (9.9)  | .980 (25.0)  |            |     |     |     |     |    |    | ✓  | ✓  |  |
| 7         | .620 (15.7) | 1.540 (39.0) |            |     |     |     |     |    |    |    |    |  |
| 8         | .660 (16.8) | 1.650 (42.0) |            |     |     |     |     |    |    |    |    |  |

Dimensions are in inches (mm). ✓ Recommended boot size for (BMAB) Shrink Boot Adapter, p. J-45.

\* Recommended boot size for (BMD2, BMD3, BMD4) EMI/RFI Shrink Boot Adapter, p. J-46.

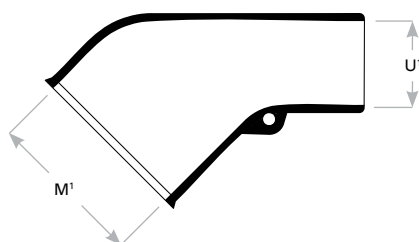
## Boot Dimensions

| Boot Size | M <sup>1</sup> | U <sup>1</sup> | M <sup>2</sup> | U <sup>2</sup> | L <sup>2</sup> | R <sup>2</sup> | T <sup>2</sup> | W <sup>2</sup> | FF <sup>2</sup> |
|-----------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-----------------|
| 2         | .940 (24.0)    | .550 (14.0)    | .410 (10.4)    | .220 (5.6)     | .980 (25.0)    | .980 (25.0)    | .630 (16.0)    | .750 (19.0)    | .050 (1.3)      |
| 3         | 1.180 (30.0)   | .590 (15.0)    | .560 (14.2)    | .230 (5.9)     | 1.260 (32.0)   | 1.060 (27.0)   | .790 (20.0)    | .790 (20.0)    | .060 (1.5)      |
| 4         | 1.220 (31.0)   | .710 (18.0)    | .710 (18.0)    | .280 (7.1)     | 1.540 (39.0)   | 1.220 (31.0)   | .790 (20.0)    | .830 (21.0)    | .070 (1.8)      |
| 5         | 1.420 (36.0)   | .830 (21.0)    | .880 (22.4)    | .330 (8.4)     | 1.810 (46.0)   | 1.500 (38.0)   | .980 (25.0)    | 1.020 (26.0)   | .070 (1.8)      |
| 6         | 1.690 (43.0)   | .980 (25.0)    | 1.110 (28.2)   | .390 (9.9)     | 2.171 (55.0)   | 1.770 (45.0)   | 1.180 (30.0)   | 1.180 (30.0)   | .080 (2.0)      |
| 7         | 2.050 (52.0)   | 1.540 (39.0)   | 1.380 (35.1)   | .620 (15.7)    | 3.150 (80.0)   | 2.130 (54.0)   | 1.770 (45.0)   | 1.380 (35.0)   | .130 (3.3)      |
| 8         | 2.600 (66.0)   | 1.650 (42.0)   | 1.750 (44.5)   | .660 (16.8)    | 4.250 (108.0)  | 2.680 (68.0)   | 2.760 (70.0)   | 1.650 (42.0)   | .150 (3.8)      |

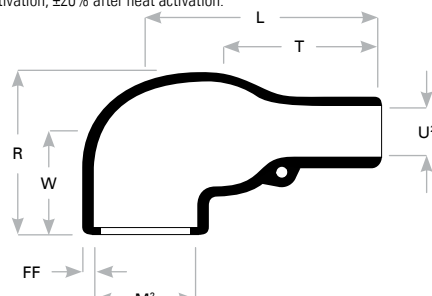
Dimensions are in inches (mm).

† Dimensions ±10% before and after heat activation.

\* Dimensions ±10% before heat activation, ±20% after heat activation.



Before Heat Activation



After Heat Activation

Rev. 2223

# Boot Adapter

BM Series • MIL-DTL-26482 Series 2 Type Connectors



## BMAB - 16 N - K2

- 1 **BASIC PART NUMBER**  
BMAB Boot adapter
- 2 **SHELL SIZE**  
See Adapter Dimensions table below
- 3 **MATERIAL & FINISH**  
N Aluminum, electroless nickel  
W Aluminum, olive drab cadmium
- 4 **OPTIONAL BOOT KIT (OMIT FOR NONE)**  
K2 Includes recommended straight shrink boot in standard material 100, p. J-43  
K4 Includes recommended 90° shrink boot in standard material 100, p. J-44

## BMAB Compatibility

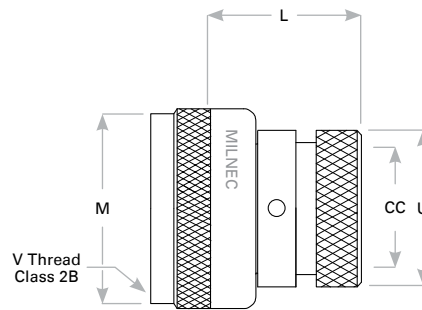
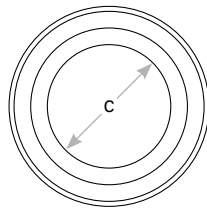
| Compatible Brands      | Connectors                                     |
|------------------------|------------------------------------------------|
| MIL-DTL-26482 Series 2 | MS3470, MS3471, MS3472, MS3474, MS3475, MS3476 |
| Aero / Conesys         | AE770, AE771, AE772, AE774, AE775, AE776       |
| Amphenol / Matrix      | MB10, MB11, MB13, MB14, MB16, MB18             |
| Deutsch                | AFD50, AFD51, AFD54, AFD56, AFD57, AFD58       |
| Souriau                | 8526-0, 8526-5, 8526-6, 8526-7                 |

**Note:** See part builder (p. J-11) for additional kit options.

## Adapter Dimensions

| Shell Size | CC Cable Clearance | L           | M            | U            | V Thread Class 2B |
|------------|--------------------|-------------|--------------|--------------|-------------------|
| 8          | .250 (6.4)         | .832 (21.1) | .617 (15.7)  | .533 (13.5)  | .500-20 UNF       |
| 10         | .355 (9.0)         | .832 (21.1) | .770 (19.6)  | .605 (15.4)  | .625-24 UNEF      |
| 12         | .491 (12.5)        | .832 (21.1) | .860 (21.8)  | .774 (19.7)  | .750-20 UNEF      |
| 14         | .565 (14.4)        | .832 (21.1) | 1.020 (25.9) | .838 (21.3)  | .875-20 UNEF      |
| 16         | .690 (17.5)        | .832 (21.1) | 1.210 (30.7) | .963 (24.5)  | 1.000-20 UNEF     |
| 18         | .769 (19.5)        | .832 (21.1) | 1.230 (31.2) | 1.042 (26.5) | 1.062-18 UNEF     |
| 20         | .894 (22.7)        | .832 (21.1) | 1.360 (34.5) | 1.217 (30.9) | 1.188-18 UNEF     |
| 22         | 1.019 (25.9)       | .832 (21.1) | 1.480 (37.6) | 1.355 (34.4) | 1.313-18 UNEF     |
| 24         | 1.134 (28.8)       | .832 (21.1) | 1.730 (43.9) | 1.443 (36.7) | 1.438-18 UNEF     |

Dimensions are in inches (mm).



Rev. 2223

# EMI/RFI Banding Boot Adapter

BM Series • MIL-DTL-26482 Series 2 Type Connectors

## BMD2 - 16 N - K2



- 1 **BASIC PART NUMBER**
  - BMD2** Straight EMI/RFI boot adapter
  - BMD3** 45° EMI/RFI boot adapter
  - BMD4** 90° EMI/RFI boot adapter

(Includes shield termination band TB250, p. J-52)
- 2 **SHELL SIZE**

See Backshell Dimensions table below
- 3 **MATERIAL & FINISH**
  - N** Aluminum, electroless nickel
  - W** Aluminum, olive drab cadmium
- 4 **OPTIONAL BOOT KIT (OMIT FOR NONE)**
  - K2** Includes recommended straight shrink boot in standard material 100, p. J-43

**Note:** Designed for use with straight shrink boot (BMK2, p. J-43).  
See part builder (p. J-11) for additional kit options.

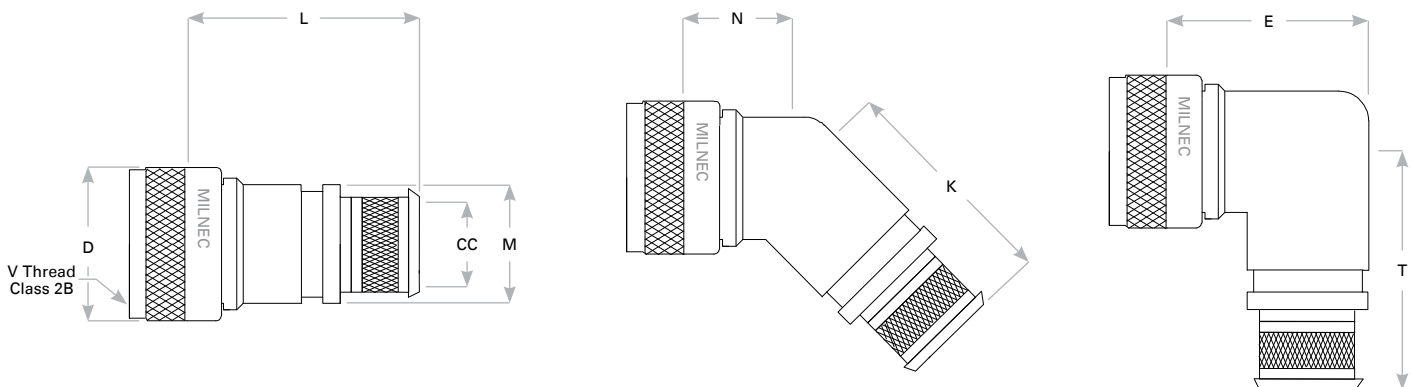
### BMD2 Compatibility

| Compatible Brands             | Connectors                                     |
|-------------------------------|------------------------------------------------|
| <b>MIL-DTL-26482 Series 2</b> | MS3470, MS3471, MS3472, MS3474, MS3475, MS3476 |
| <b>Aero / Conesys</b>         | AE770, AE771, AE772, AE774, AE775, AE776       |
| <b>Amphenol / Matrix</b>      | MB10, MB11, MB13, MB14, MB16, MB18             |
| <b>Deutsch</b>                | AFD50, AFD51, AFD54, AFD56, AFD57, AFD58       |
| <b>Souriau</b>                | 8526-0, 8526-5, 8526-6, 8526-7                 |

### Backshell Dimensions

| Shell Size | CC Cable Clearance | M            | D            | L            | N            | K            | E            | T            | V Thread Class 2B |
|------------|--------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-------------------|
| 8          | .250 (6.4)         | .420 (10.7)  | .617 (15.7)  | 1.350 (34.3) | .870 (22.1)  | 1.160 (29.5) | 1.188 (30.2) | 1.417 (36.0) | .500-20 UNF       |
| 10         | .312 (7.9)         | .500 (12.7)  | 1.010 (25.7) | 1.350 (34.3) | .890 (22.6)  | 1.180 (30.0) | 1.281 (32.5) | 1.480 (37.6) | .625-24 UNEF      |
| 12         | .438 (11.1)        | .624 (15.8)  | 1.130 (28.7) | 1.350 (34.3) | .920 (23.4)  | 1.200 (30.5) | 1.406 (35.7) | 1.542 (39.2) | .750-20 UNEF      |
| 14         | .562 (14.3)        | .750 (19.1)  | 1.260 (32.0) | 1.350 (34.3) | .940 (23.9)  | 1.220 (31.0) | 1.531 (38.9) | 1.605 (40.8) | .875-20 UNEF      |
| 16         | .625 (15.9)        | .812 (20.6)  | 1.380 (35.1) | 1.350 (34.3) | .960 (24.4)  | 1.250 (31.8) | 1.656 (42.1) | 1.667 (42.3) | 1.000-20 UNEF     |
| 18         | .750 (19.1)        | .937 (23.8)  | 1.510 (38.4) | 1.350 (34.3) | .980 (24.9)  | 1.260 (32.0) | 1.718 (43.6) | 1.730 (43.9) | 1.062-18 UNEF     |
| 20         | .812 (20.6)        | 1.000 (25.4) | 1.630 (41.4) | 1.350 (34.3) | 1.000 (25.4) | 1.290 (32.8) | 1.844 (46.8) | 1.792 (45.5) | 1.188-18 UNEF     |
| 22         | .938 (23.8)        | 1.124 (28.5) | 1.760 (44.7) | 1.350 (34.3) | 1.030 (26.2) | 1.310 (33.3) | 1.938 (49.2) | 1.850 (47.0) | 1.313-18 UNEF     |
| 24         | 1.000 (25.4)       | 1.187 (30.1) | 1.880 (47.8) | 1.350 (34.3) | 1.050 (26.7) | 1.340 (34.0) | 2.093 (53.2) | 1.917 (48.7) | 1.438-18 UNEF     |

Dimensions are in inches (mm).



Rev. 2223

# Protective Covers

BM Series • MIL-DTL-26482 Series 2 Type Connectors



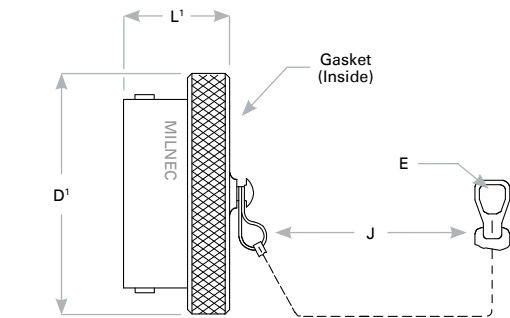
## BMCP & BMCR Compatibility

| Compatible Brands      | Plugs          | Receptacles                    |
|------------------------|----------------|--------------------------------|
| MIL-DTL-26482 Series 2 | MS3475, MS3476 | MS3470, MS3471, MS3472, MS3474 |
| Aero / Conesys         | AE775, AE776   | AE770, AE771, AE772, AE774     |
| Amphenol / Matrix      | MB16, MB18     | MB10, MB11, MB13, MB14         |
| Deutsch                | AFD56, AFD57   | AFD50, AFD51, AFD54, AFD58     |
| Souriau                | 8526-5, 8526-6 | 8526-0, 8526-7                 |

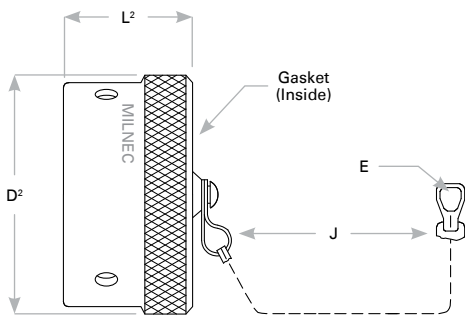
## Protective Cover Dimensions

| Shell Size | L <sup>1</sup> | D <sup>1</sup> | E          | J Chain Length | L <sup>2</sup> | D <sup>2</sup> | H            |
|------------|----------------|----------------|------------|----------------|----------------|----------------|--------------|
| 8          | .562 (14.3)    | .719 (18.3)    | .167 (4.2) | 3.00 (76.2)    | .562 (14.3)    | .734 (18.6)    | .578 (14.7)  |
| 10         | .562 (14.3)    | .844 (21.4)    | .167 (4.2) | 3.00 (76.2)    | .562 (14.3)    | .859 (21.8)    | .703 (17.9)  |
| 12         | .562 (14.3)    | 1.000 (25.4)   | .167 (4.2) | 3.50 (88.9)    | .562 (14.3)    | 1.000 (25.4)   | .891 (22.6)  |
| 14         | .562 (14.3)    | 1.125 (28.6)   | .167 (4.2) | 3.50 (88.9)    | .562 (14.3)    | 1.125 (28.6)   | 1.016 (25.8) |
| 16         | .562 (14.3)    | 1.250 (31.8)   | .167 (4.2) | 3.50 (88.9)    | .562 (14.3)    | 1.250 (31.8)   | 1.141 (29.0) |
| 18         | .562 (14.3)    | 1.375 (34.9)   | .167 (4.2) | 3.50 (88.9)    | .562 (14.3)    | 1.375 (34.9)   | 1.266 (32.2) |
| 20         | .625 (15.9)    | 1.500 (38.1)   | .167 (4.2) | 4.00 (101.6)   | .562 (14.3)    | 1.500 (38.1)   | 1.391 (35.3) |
| 22         | .625 (15.9)    | 1.625 (41.3)   | .167 (4.2) | 4.00 (101.6)   | .562 (14.3)    | 1.625 (41.3)   | 1.516 (38.5) |
| 24         | .658 (16.7)    | 1.750 (44.5)   | .167 (4.2) | 4.00 (101.6)   | .602 (15.3)    | 1.750 (44.5)   | 1.641 (41.7) |

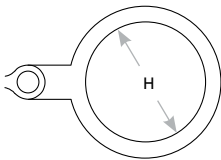
Dimensions are in inches (mm).



Plug Cover



Receptacle Cover



Jam Nut Ring Attachment

## BMCP - 14 B E

- BASIC PART NUMBER**  
**BMCP** Plug cover w/ sash chain  
**BMCR** Receptacle cover w/ sash chain
- SHELL SIZE**  
See Protective Cover Dimensions table below
- MATERIAL & FINISH**  
**B** Aluminum, anodize hardcoat
- ATTACHMENT TYPE**  
**E** Eyelet attachment on sash chain  
**J** Jam nut ring attachment on sash chain  
(for use with BM07 & BM13 jam nut receptacles)

Note: See part builder (p. J-11) for additional kit options.

## BMCD - 14 W - 03

- 1 **BASIC PART NUMBER**  
BMCD Stowage receptacle
- 2 **SHELL SIZE**  
See Stowage Receptacle Dimensions table below
- 3 **MATERIAL & FINISH**  
N Aluminum, electroless nickel  
W Aluminum, olive drab cadmium
- 4 **OPTIONAL ACCESSORY KIT (OMIT FOR NONE)**  
02 Protective cover + mounting gasket  
03 02 kit + mounting bracket + sealing screws



**Note:** See part builder (p. J-11) for additional kit options.

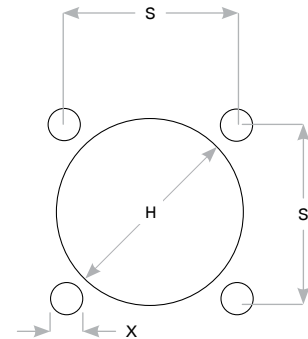
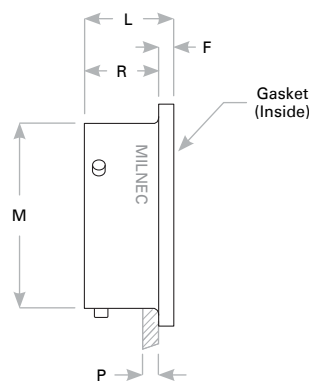
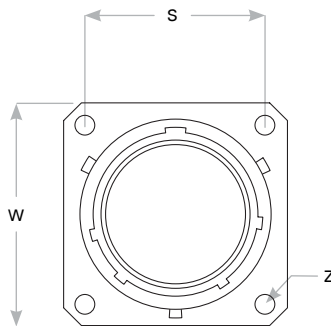
### BMCD Compatibility

| Compatible Brands      | Plugs          |
|------------------------|----------------|
| MIL-DTL-26482 Series 2 | MS3475, MS3476 |
| Aero / Conesys         | AE775, AE776   |
| Amphenol / Matrix      | MB16, MB18     |
| Deutsch                | AFD56, AFD57   |
| Souriau                | 8526-5, 8526-6 |

### Stowage Receptacle Dimensions

| Shell Size | W            | Z          | L           | R           | M            | F          | P<br>Max Rear Panel† | S            | X          | H            |
|------------|--------------|------------|-------------|-------------|--------------|------------|----------------------|--------------|------------|--------------|
| 8          | .828 (21.0)  | .120 (3.0) | .540 (13.8) | .478 (12.2) | .471 (12.0)  | .062 (1.6) | .125 (3.2)           | .594 (15.1)  | .120 (3.1) | .449 (11.4)  |
| 10         | .954 (24.2)  | .120 (3.0) | .540 (13.8) | .478 (12.2) | .588 (14.9)  | .062 (1.6) | .125 (3.2)           | .719 (18.3)  | .120 (3.1) | .573 (14.6)  |
| 12         | 1.047 (26.6) | .120 (3.0) | .540 (13.8) | .478 (12.2) | .748 (19.0)  | .062 (1.6) | .125 (3.2)           | .812 (20.6)  | .120 (3.1) | .699 (17.8)  |
| 14         | 1.141 (29.0) | .120 (3.0) | .540 (13.8) | .478 (12.2) | .873 (22.2)  | .062 (1.6) | .125 (3.2)           | .906 (23.0)  | .120 (3.1) | .823 (20.9)  |
| 16         | 1.234 (31.3) | .120 (3.0) | .540 (13.8) | .478 (12.2) | .998 (25.3)  | .062 (1.6) | .125 (3.2)           | .969 (24.6)  | .120 (3.1) | .949 (24.1)  |
| 18         | 1.328 (33.7) | .120 (3.0) | .540 (13.8) | .478 (12.2) | 1.123 (28.5) | .062 (1.6) | .125 (3.2)           | 1.062 (27.0) | .120 (3.1) | 1.073 (27.3) |
| 20         | 1.453 (36.9) | .120 (3.0) | .666 (16.9) | .572 (14.5) | 1.248 (31.7) | .094 (2.4) | .250 (6.4)           | 1.156 (29.4) | .120 (3.1) | 1.199 (30.5) |
| 22         | 1.578 (40.1) | .120 (3.0) | .666 (16.9) | .572 (14.5) | 1.373 (34.9) | .094 (2.4) | .250 (6.4)           | 1.250 (31.8) | .120 (3.1) | 1.323 (33.6) |
| 24         | 1.703 (43.3) | .147 (3.7) | .699 (17.8) | .605 (15.4) | 1.498 (38.0) | .094 (2.4) | .250 (6.4)           | 1.375 (34.9) | .147 (3.7) | 1.449 (36.8) |

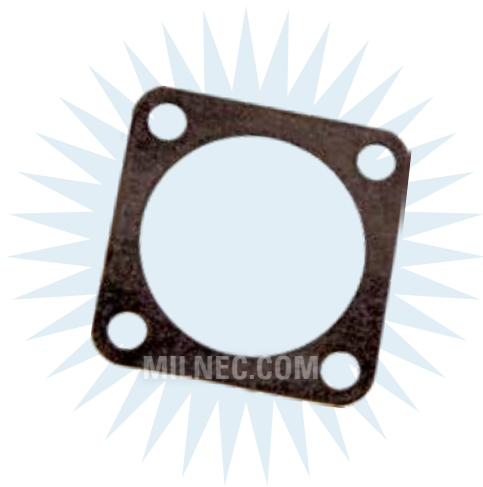
Dimensions are in inches (mm). † Max panel thickness applies only to rear mount applications to ensure proper coupling clearance.



Panel Cutout

# Mounting Gasket

BM Series • MIL-DTL-26482 Series 2 Type Connectors



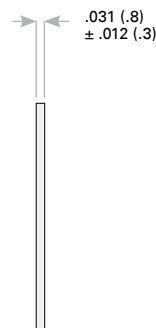
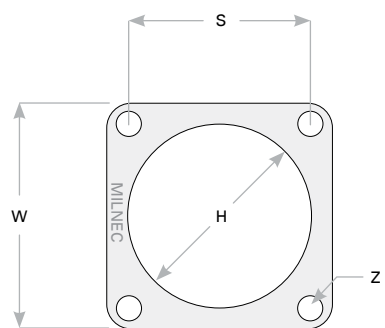
## BMGE Compatibility

| Compatible Brands      | Receptacles |
|------------------------|-------------|
| MIL-DTL-26482 Series 2 | MS3470      |
| Aero / Conesys         | AE770       |
| Amphenol / Matrix      | MB10        |
| Deutsch                | AFD50       |
| Souriau                | 8526-0      |

## Gasket Dimensions

| Shell Size | W            | S            | Z          | H            |
|------------|--------------|--------------|------------|--------------|
| 8          | .812 (20.6)  | .594 (15.1)  | .130 (3.3) | .500 (12.7)  |
| 10         | .938 (23.8)  | .719 (18.3)  | .130 (3.3) | .625 (15.9)  |
| 12         | 1.031 (26.2) | .813 (20.7)  | .130 (3.3) | .750 (19.1)  |
| 14         | 1.125 (28.6) | .906 (23.0)  | .130 (3.3) | .875 (22.2)  |
| 16         | 1.219 (31.0) | .969 (24.6)  | .130 (3.3) | 1.000 (25.4) |
| 18         | 1.312 (33.3) | 1.063 (27.0) | .130 (3.3) | 1.125 (28.6) |
| 20         | 1.438 (36.5) | 1.156 (29.4) | .130 (3.3) | 1.250 (31.8) |
| 22         | 1.563 (39.7) | 1.250 (31.8) | .130 (3.3) | 1.375 (34.9) |
| 24         | 1.688 (42.9) | 1.375 (34.9) | .130 (3.3) | 1.500 (38.1) |

Dimensions are in inches (mm).



## BMGE - 14

- 1
- 2
- 1
- 2
- BASIC PART NUMBER**  
**BMGE** Neoprene environmental (weather resistant)  
Temp. range -40°F to +230°F (-40°C to +110°C)  
**BMGL** Fluorosilicone (jet fuel & oil resistant)  
Temp. range -70°F to +392°F (-56°C to +200°C)  
Per MIL-DTL-25988, Class 1, Grade 6  
**BMGD** Conductive EMI-RFI fluorosilicone, Al-Ag filled  
Temp. range -70°F to +392°F (-56°C to +200°C)  
Shielding effectiveness at 90 dB @ 10 GHz  
Per MIL-DTL-83528, Type D
- SHELL SIZE**  
See Gasket Dimensions table below

**Note:** See part builder (p. J-11) for additional kit options.

## BMMB - 14 - A

1 2 3

### 1 BASIC PART NUMBER

**BMMB** Mounting bracket, aluminum alloy  
with SST locking nuts

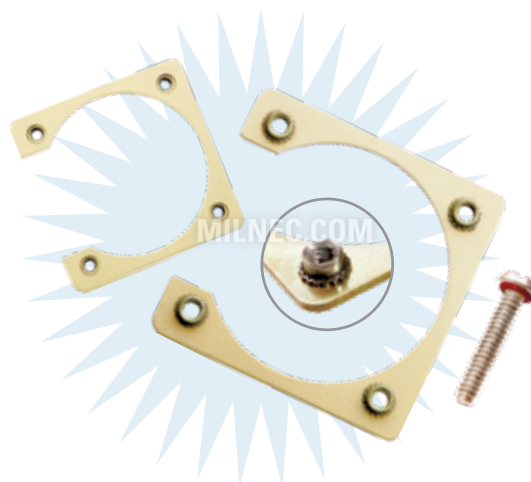
### 2 SHELL SIZE

See Bracket Dimensions table below

### 3 OPTIONAL FASTENER KIT (OMIT FOR NONE)

- A** Self-sealing SST fillister head screws (4x)
- B** A kit + environmental gasket
- D** A kit + fluorosilicone EMI/RFI gasket

**Note:** See part builder (p. J-11) for additional kit options.



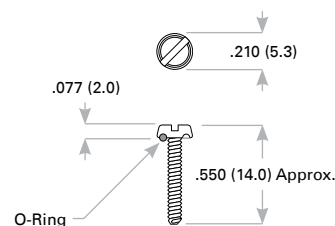
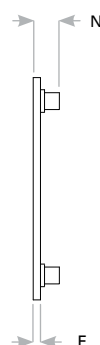
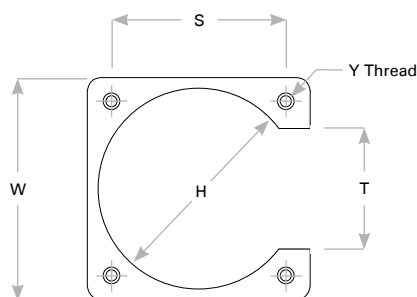
## BMMB Compatibility

| Compatible Brands             | Receptacles |
|-------------------------------|-------------|
| <b>MIL-DTL-26482 Series 2</b> | MS3470      |
| <b>Aero / Conesys</b>         | AE770       |
| <b>Amphenol / Matrix</b>      | MB10        |
| <b>Deutsch</b>                | AFD50       |
| <b>Souriau</b>                | 8526-0      |

## Bracket Dimensions

| Shell Size | W            | S            | T           | H            | N          | F          | Screw Size | Y Thread     |
|------------|--------------|--------------|-------------|--------------|------------|------------|------------|--------------|
| <b>8</b>   | .880 (22.4)  | .594 (15.1)  | .308 (7.8)  | .570 (14.5)  | .136 (3.5) | .040 (1.0) | 4          | 4-40 UNJC-3B |
| <b>10</b>  | 1.019 (25.9) | .719 (18.3)  | .433 (11.0) | .720 (18.3)  | .136 (3.5) | .040 (1.0) | 4          | 4-40 UNJC-3B |
| <b>12</b>  | 1.104 (28.0) | .812 (20.6)  | .530 (13.5) | .855 (21.7)  | .136 (3.5) | .040 (1.0) | 4          | 4-40 UNJC-3B |
| <b>14</b>  | 1.198 (30.4) | .906 (23.0)  | .624 (15.8) | .984 (25.0)  | .136 (3.5) | .040 (1.0) | 4          | 4-40 UNJC-3B |
| <b>16</b>  | 1.280 (32.5) | .969 (24.6)  | .687 (17.4) | 1.094 (27.8) | .136 (3.5) | .040 (1.0) | 4          | 4-40 UNJC-3B |
| <b>18</b>  | 1.406 (35.7) | 1.062 (27.0) | .780 (19.8) | 1.220 (31.0) | .136 (3.5) | .040 (1.0) | 4          | 4-40 UNJC-3B |
| <b>20</b>  | 1.535 (39.0) | 1.156 (29.4) | .874 (22.2) | 1.345 (34.2) | .136 (3.5) | .040 (1.0) | 4          | 4-40 UNJC-3B |
| <b>22</b>  | 1.665 (42.3) | 1.250 (31.8) | .968 (24.6) | 1.478 (37.5) | .136 (3.5) | .040 (1.0) | 4          | 4-40 UNJC-3B |
| <b>24</b>  | 1.738 (44.1) | 1.375 (34.9) | .907 (23.0) | 1.483 (37.7) | .153 (3.9) | .040 (1.0) | 6          | 6-32 UNJC-3B |

Dimensions are in inches (mm).



# Hand Crimpers & Positioners

BM Series • MIL-DTL-26482 Series 2 Type Connectors



## Precision Hand Crimpers

A crimp tool provides reliable crimp termination of contacts for mission-critical applications. A hand crimper is suitable for contacts from size #12 to #22D. For production environments, pneumatic crimpers are also available.

Our tools feature an 8-impression crimp, which ensures maximum tensile strength between wire and contact. Their cycle controlled ratchets are consistent and accurate and do not permit half crimps, ensuring complete and precise crimping every time.

The tool frames have a built-in 8-step selector knob for easy adjustment of crimp depth to accommodate the size of wire being used. Data plates on positioners provide setting information specific to the size of wires and contacts being used.

There are a variety of crimp tools and positioners available to fit the various sized contacts within each connector series. We have paired our most popular models with their required positioner(s) to ensure complete compatibility.

## Hand Crimper & Positioner Kits

| Part Number | Kit Includes the Following Items                                                          | Contacts Sizes  | Milnec Series Compatibility                | Mil-Spec Series Compatibility                                                 |
|-------------|-------------------------------------------------------------------------------------------|-----------------|--------------------------------------------|-------------------------------------------------------------------------------|
| TK101-KIT   | TK101A crimp tool with TP104 turret positioner                                            | #20, #16, #12   | DL Series, DS, Series, TX Series           | MIL-DTL-38999 Series I, II, III                                               |
| TK101B-KIT  | TK101A crimp tool with TP102 turret positioner                                            | #20, #16, #12   | BM Series, EV Series, TM Series, HR Series | MIL-DTL-26482 Series I, II<br>MIL-DTL-83723 Series III<br>MIL-DTL-5015 Crimp* |
| TK201-KIT   | TK201 crimp tool with the following positioners:<br>TP209 (for pins), TP207 (for sockets) | #22, #22M, #22D | DL Series, TX Series                       | MIL-DTL-38999 Series I<br>MIL-DTL-38999 Series III                            |
| TK201B-KIT  | TK201 crimp tool with the following positioners:<br>TP209 (for pins), TP206 (for sockets) | #22, #22M, #22D | DS Series                                  | MIL-DTL-38999 Series II                                                       |

\* Contacts size #8 and larger require pneumatic crimper. When this is not an option, wires may be soldered directly into contact wire well. For mission critical applications, crimping is preferred termination method.



H900 Soldering Station Kit

Our soldering station kit provides a complete solution for professionally terminating solder contacts to stranded or solid core wire.

Features & Benefits

- Temperature range 392° to 896°F (200° to 480°C)
- Adjustable temperature control dial with lock/set screw
- Idle temperature stability of ±1.8°F (1.0°C)
- Ceramic heating element and sensor ensure rapid heat-up temperature (30 seconds) and fast thermal recovery
- Celsius or Fahrenheit temperature setting
- Slender iron handles are insulated and ergonomically designed for ease and comfort
- ESD-safe design suitable for controlled environments
- 5 interchangeable tips suitable for connector solder contacts ranging from #0 to #22D

**Note:** The above lists standard options readily available in stock. Please consult an authorized distributor for full range of solder stations, re-work stations, specialty tips, and accessories.

Soldering Station Kit

| Part Number | Kit Includes The Following Items                                                                                         |
|-------------|--------------------------------------------------------------------------------------------------------------------------|
| H900        | 120V / 60W soldering station, iron holder, cleaning sponge, 5 interchangeable tips, rosin-core lead solder, instructions |

Replacement Tips

| Part Number | For Contact Size | Description           | Image |
|-------------|------------------|-----------------------|-------|
| H900-6D     | #16, #20, #22D   | Chisel (1.6mm Tip)    |       |
| H900-B      | #16, #20         | Conical (0.5mm Tip)   |       |
| H900-2C     | #16              | 45° Beveled (2mm Tip) |       |
| H900-4C     | #8, #12          | 45° Beveled (4mm Tip) |       |
| H900-S3     | #0, #4           | Chisel (5.2mm Tip)    |       |

# Heat Gun

BM Series • MIL-DTL-26482 Series 2 Type Connectors



## TH1910E Professional Heat Gun

Our professional heat gun kit provides a complete solution for installing shrink boots. Interchangeable nozzles help to concentrate heat flow or to direct hot air evenly around a target while protecting sensitive equipment nearby.

### Features & Benefits

- Temperature range 120° to 1,100°F (49° to 593°C)
- 3 interchangeable nozzle attachments
- Adjustable temperature control dial
- 3 stage switch to control airflow from 3.6 to 17.6 ft<sup>3</sup>/min
- Ergonomic design for ease and comfort

**Note:** The above lists standard options readily available in stock. Please consult an authorized distributor for full range of heat guns and specialized nozzle accessories.

## Heat Gun Kit

| Part Number | Kit Includes The Following Items                                                        |
|-------------|-----------------------------------------------------------------------------------------|
| TH1910E     | 120V / 1,500W variable temperature heat gun, ring holder, and 3 interchangeable nozzles |

Consult with authorized distributor for 220V, 230V, & 240V models suitable for your region.

## Nozzle Attachments

| Part Number | Description           |
|-------------|-----------------------|
| TH101       | 10mm reduction nozzle |
| TH102       | 39mm reflector nozzle |
| TH103       | 13mm reflector nozzle |



Rev. 2223

## TB058 Banding Tool

The TB058 banding tool is the only tool needed to professionally install shielding termination bands to all Milnec EMI/RFI banding adapters. This simple hand tool positions, tightens, and trims the shield termination band with just a few easy steps for a foolproof, high-precision installation.

### Features & Benefits

- One tool for all adapter sizes
- Ergonomic & lightweight: 1.18 lbs (0.5 kg)
- Tension range: 100 to 180 lbs (45.3 to 81.6 kg)

## Banding Tool

| Part Number | Kit Includes The Following Items                |
|-------------|-------------------------------------------------|
| TB058       | Banding tool for TB250 shield termination bands |

**Note:** Please consult an authorized distributor for full range of pneumatic banding tools for high-volume production environments.



## TB250 Shield Termination Band

The TB250 band will professionally attach shielding to Milnec EMI/RFI banding boot adapters of all sizes. The TB250 band can be quickly and reliably installed with the specially designed TB058 banding tool. Bands come pre-coiled for faster installation.

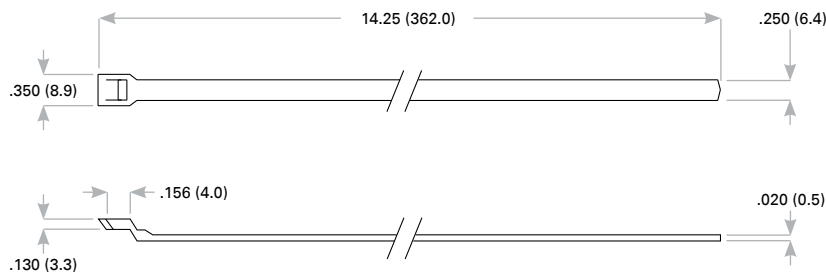
### Features & Benefits

- Double-wrapped bands will accommodate diameters up to approximately 0.88 inches (22.4 mm)
- 300 series stainless steel single-piece construction



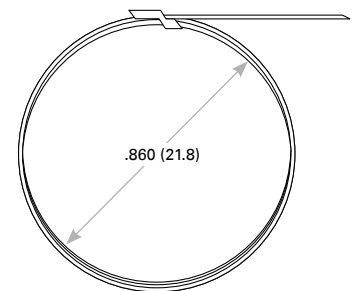
## Shield Termination Band

| Part Number | Kit Includes The Following Items               |
|-------------|------------------------------------------------|
| TB250       | Single stainless steel shield termination band |



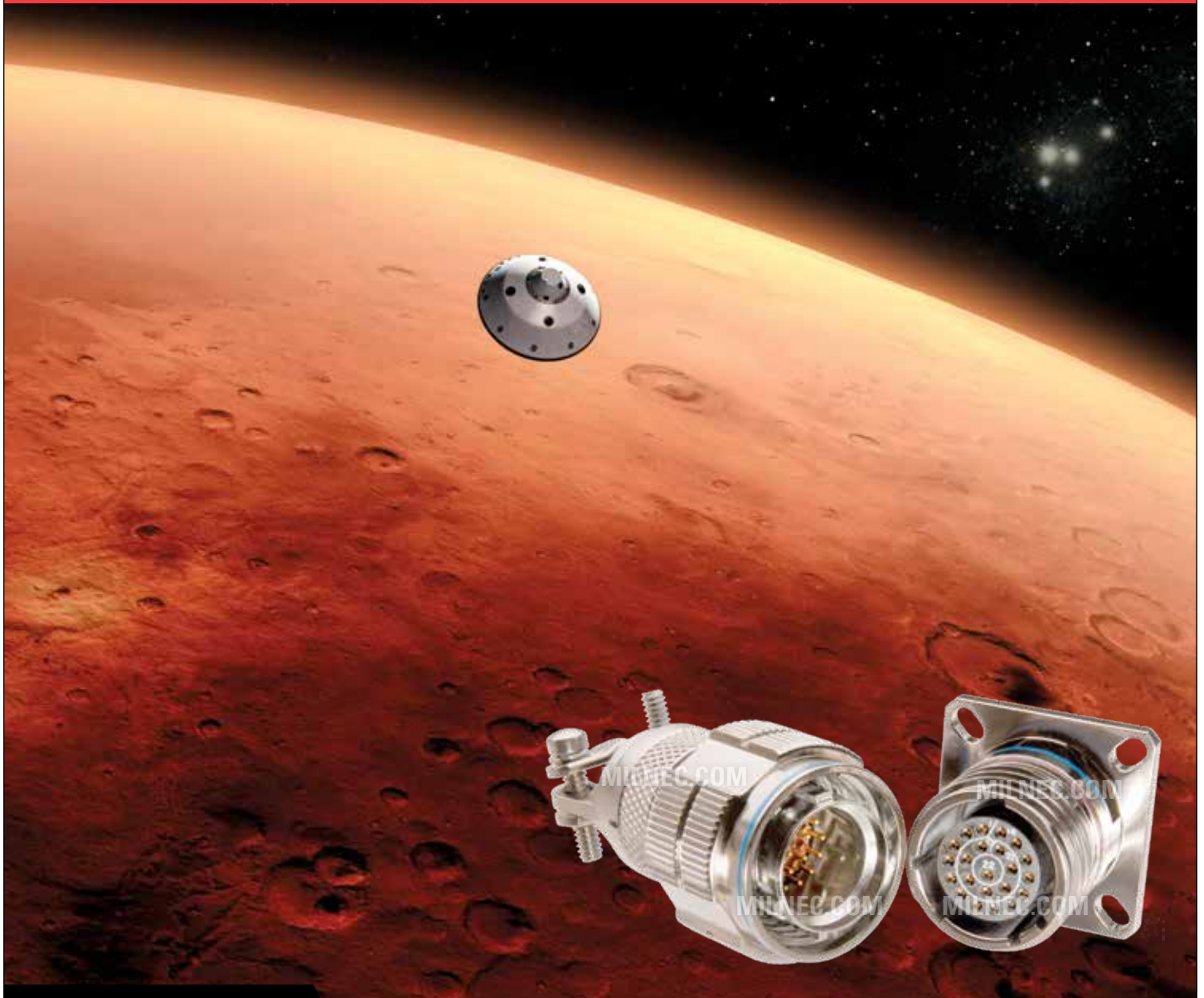
Dimensions are in inches (mm).

Rev. 2223



Pre-coiled Band

# SPACE-GRADE CONNECTORS FOR THE FINAL FRONTIER



## Don't Lose Touch With Mission Control

Rely on Milnec space-grade connectors for all your high-altitude and space applications. Our space-grade connectors meet all NASA specifications for outgassing and feature triple-start and impact resistant stub threads with self-locking ratchet coupling to ensure secure mating, even in high-vibration environments.



Date: \_\_\_\_\_

**Engineer:** \_\_\_\_\_

[illegible]

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Revision: 01/13

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