Bulkhead Connectors (A-Series)

Our A-Series bulkheads are used in a wide range of industries to include the Petroleum Industry, Military, and Entertainment. These bulkheads are rugged, dependable and can be easily configured to fit most applications.

Our standard A-Series bulkhead connector uses a removable contact insert manufactured with gold plated contacts and molded in a glass/epoxy thermoset material. The contact insert is then o-ring sealed to a metal shell and retained with a snap ring. This configuration provides field repair by the customer or replacement of the insert if the customer decides to change contact configuration. Connectors are keyed with a single large contact and are available in a variety of interfaces from 1 to 10 contacts. Many standard shell configurations available with the mounting interface in single o-ring, double o-ring, and male or female pipe thread. Pressure ratings available up to 20,000psi.
### "A" Series

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**Description**

A1BPH connectors are manufactured with a 316 S.S. body, brass pin contact and glass reinforced epoxy dielectric. All connectors are electrically tested at 2200vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms. All bulkhead connectors are pressure tested open face to 1500 psi. Hydrostatic testing to 20,000 psi available at customer request.

**Available Contact Interfaces**

1 #16 awg

**Technical Data**

- **Part Number:** 1269-
- **Shell Material:** 316 Stainless Steel
- **Contact Material:** 360 Brass, Half Hard
- **Contact Plating:** (Standard) Silver: Mil-S-365A, Type III, Grade A, .0005 Thick
  - (Optional) Gold: Mil-G-45204, Type II, Grade C, Class 1 over .0001 Nickel Base
- **Dielectric Material:** 1044, Glass Reinforced Epoxy
- **Operating Pressure:** 10,000 psig open face. Pressure testing above 1500 psi performed as required by order.
- **Operating Temperature:** 400°F, 192°C
- **Voltage Rating:** 600vdc
- **Mounting Torque:** 50 in/lbs
- **Mating Connector:** A1FS-1
A1BPHR connectors are manufactured with a 316 S.S. body, beryllium copper pin contact and glass reinforced epoxy dielectric. All connectors are electrically tested at 2500vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms. All bulkhead connectors are pressure tested open face to 1500 psi. Hydrostatic testing to 20,000 psi combined with temperature to 400°F available at customer request.

Available Contact Interfaces

1 #16 awg

Technical Data

Part Number: 1521-
Shell Material: 316 Stainless Steel
Contact Material: Beryllium Copper
Contact Plating: (Standard) Gold: Mil-G-45204, Type II, Grade C, Class I over .0001 Nickel Base
Dielectric Material: 1044, Glass Reinforced Epoxy
Operating Pressure: 20,000 psig open face. Pressure testing above 1500 psi performed as required by order.
Operating Temperature: 400°F, 192°C
Voltage Rating: 2500vdc
Mounting Torque: 50 in/lbs
Mating Connector: A1FS-1, A1FS-FA
A1BPH connectors are manufactured with a 316 S.S. body, brass pin contact and glass reinforced epoxy dielectric. All connectors are electrically tested at 2500vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms. All bulkhead connectors are pressure tested open face to 1500 psi. Hydrostatic testing to 20,000 psi available at customer request.

Available Contact Interfaces

1 #16 awg

Technical Data

<table>
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<tr>
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<td>Mounting Torque: 50 in/lbs</td>
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<tr>
<td>Mating Connector: A1FS-1, A1FS-FA</td>
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</table>
**Description**

A1BPH-HV connectors are manufactured with a 316 S.S. body, 360 Brass pin contact and glass reinforced epoxy dielectric. All connectors are electrically tested at 12,000vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms.

All bulkhead connectors are pressure tested open face to 1500 psi. Hydrostatic testing to 20,000 psi available at customer request.

## Available Contact Interfaces

1 #16 awg -1

## Technical Data

- **Part Number:** 1280-
- **Shell Material:** 316 Stainless Steel
- **Contact Material:** 360 Brass
- **Contact Plating:** (Standard) Silver: Mil-S-365A, Type III, Grade A, .0005 Thick
  
  (Optional) Gold: Mil-G-45204, Type II, Grade C, Class 1 over .0001 Nickel Base
- **Dielectric Material:** 1044, Glass Reinforced Epoxy
- **Operating Pressure:** 20,000 psig open face. Pressure testing above 1500 psi performed as required by order.
- **Operating Temperature:** 400°F, 192°C
- **Voltage Rating:** 12,000vdc
- **Mounting Torque:** 50 in/lbs
- **Mating Connector:** A1FS-1, A1FS-FA
Description

A1BPH-HV connectors are manufactured with a 316 S.S. body, 360 Brass pin contact and glass reinforced epoxy dielectric. All connectors are electrically tested at 12,000vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms.
All bulkhead connectors are pressure tested open face to 1500 psi. Hydrostatic testing to 20,000 psi available at customer request.

Available Contact Interfaces

1 #16 awg
-1

Technical Data

Part Number: 2536-
Shell Material: 316 Stainless Steel
Contact Material: 360 Brass
Contact Plating: (Standard) Silver: Mil-S-365A, Type III, Grade A, .0005 Thick
(Optional) Gold: Mil-G-45204, Type II, Grade C, Class 1 over .0001 Nickel Base
Dielectric Material: 1044, Glass Reinforced Epoxy
Operating Pressure: 20,000 psig open face. Pressure testing above 1500 psi performed as required by order.
Operating Temperature: 400°F, 192°C
Voltage Rating: 12,000vdc
Mounting Torque: 50 in/lbs
Mating Connector: A1FS-1, A1FS-FA
### Description

A1BPH-HV connectors are manufactured with a 316 S.S. body, 360 Brass pin contact and glass reinforced epoxy dielectric. All connectors are electrically tested at 12,000vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms.

All bulkhead connectors are pressure tested open face to 1500 psi. Hydrostatic testing to 20,000 psi available at customer request.

### Available Contact Interfaces

- 1 #16 awg -1

### Technical Data

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<tr>
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<td>Voltage Rating</td>
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<td>Mating Connector</td>
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**Description**

A1BPH-HV connectors are manufactured with a 316 S.S. body, 360 Brass pin contact and glass reinforced epoxy dielectric. All connectors are electrically tested at 12,000vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms.

All bulkhead connectors are pressure tested open face to 1500 psi. Hydrostatic testing to 20,000 psi available at customer request.

**Available Contact Interfaces**

1 #16 awg

-1

**Technical Data**

- **Part Number:** 2838-
- **Shell Material:** 316 Stainless Steel
- **Contact Material:** 360 Brass
- **Contact Plating:** (Standard) Silver: Mil-S-365A, Type III, Grade A, .0005 Thick
  (Optional) Gold: Mil-G-45204, Type II, Grade C, Class 1 over .0001 Nickel Base
- **Dielectric Material:** 1044, Glass Reinforced Epoxy
- **Operating Pressure:** 20,000 psig open face. Pressure testing above 1500 psi performed as required by order.
- **Operating Temperature:** 400°F, 192°C
- **Voltage Rating:** 12,000vdc
- **Mounting Torque:** 50 in/lbs
- **Mating Connector:** A1FS-1, A1FS-FA
**Description**

A1BPH connectors are manufactured with a 316 S.S. body, brass pin contact and glass reinforced epoxy dielectric. All connectors are electrically tested at 12,000vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms.

All bulkhead connectors are pressure tested open face to 1500 psi. Hydrostatic testing to 20,000 psi available at customer request.

**Available Contact Interfaces**

1 #16 awg

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**Technical Data**

- **Part Number:** 1301-
- **Shell Material:** 316 Stainless Steel
- **Contact Material:** 360 Brass, Half Hard
- **Contact Plating:** (Standard) Silver: Mil-S-365A, Type III, Grade A, .0005 Thick
  (Optional) Gold: Mil-G-45204, Type II, Grade C, Class 1 over .0001 Nickel Base
- **Dielectric Material:** 1044, Glass Reinforced Epoxy
- **Operating Pressure:** 20,000 psig open face. Pressure testing above 1500 psi performed as required by order.
- **Operating Temperature:** 250°F, 121°C
- **Voltage Rating:** 12,000vdc
- **Mounting Torque:** 50 in/lbs
- **Mating Connector:** A1FS-1
- **Cable Type:** 1N2
- **Mounting Dimensions:** See A1BPH (pg. 1)
**Description**

A1BPH-HV connectors are manufactured with a 316 S.S. body, 360 Brass pin contact and glass reinforced epoxy dielectric. All connectors are electrically tested at 12,000vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms.

All bulkhead connectors are pressure tested open face to 1500 psi. Hydrostatic testing to 20,000 psi available at customer request.

**Available Contact Interfaces**

- 1 #16 awg

**Technical Data**

- **Part Number:** 1287-
- **Shell Material:** 316 Stainless Steel
- **Contact Material:** 360 Brass
- **Contact Plating:** (Standard) Silver: Mil-S-365A, Type III, Grade A, .0005 Thick
  (Optional) Gold: Mil-G-45204, Type II, Grade C, Class 1 over .0001 Nickel Base
- **Dielectric Material:** 1044, Glass Reinforced Epoxy
- **Operating Pressure:** 20,000 psig open face. Pressure testing above 1500 psi performed as required by order.
- **Operating Temperature:** 250°F, 121°C
- **Voltage Rating:** 12,000vdc
- **Mounting Torque:** 50 in/lbs
- **Mating Connector:** A1FS-1, A1FS-FA
- **Cable Type:** 1N2
- **Mounting Dimensions:** See A1BPH-HV (pg. 4)
"A1BPHS-1/8NPT"

Description

A1BPHS-1/8NPT connectors are manufactured with a 316 S.S. body, 360 Brass pin contact and glass reinforced epoxy dielectric. All connectors are electrically tested at 2,200vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms. All bulkhead connectors are pressure tested open face to 1500 psi. Hydrostatic testing to 20,000 psi combined with temperature to 200°C available at customer request.

Available Contact Interfaces

1 #16 awg

Technical Data

Part Number: 2394-
Shell Material: 316 Stainless Steel
Contact Material: 360 Brass
Contact Plating: (Standard) Gold: Mil-G-45204, Type II, Grade C, Class 1 over .0001 Nickel Base
Dielectric Material: 1044, Glass Reinforced Epoxy
Operating Pressure: 20,000 psig open face. Pressure testing above 1500 psi performed as required by order.
Operating Temperature: 400°F, 192°C
Voltage Rating: 600vdc
Mounting Torque: 50 in/lbs
Mating Connector: A1FS-1, A1FS-FA
**Description**

A1BPH-1/8NPT connectors are manufactured with a 316 S.S. shell, beryllium copper pin contact and glass reinforced epoxy dielectric. All connectors are electrically tested at 2,200vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms. All bulkhead connectors are pressure tested open face to 1500 psi. Hydrostatic testing to 20,000 psi combined with temperature to 200°C available at customer request.

**Available Contact Interfaces**

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Description

A2BPH connectors are manufactured with brass pin contacts and high strength glass reinforced epoxy dielectric. All connectors are electrically tested at 2200vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms. All bulkhead connectors are pressure tested open face to 1500 psi. Hydrostatic testing to 5,000 psi available at customer request.

Available Contact Interfaces

1 #14 awg
2 #16 awg

Technical Data

Part Number: 1520-
Contact Material: 360 Brass, Half Hard
Contact Plating: Gold: Mil-G-45204, Type II, Grade C, Class 1 over .0001 Nickel Base
Dielectric Material: 1044, Glass Reinforced Epoxy
Operating Pressure: 5,000 psig. Pressure testing above 1500 psi performed as required by order.
Operating Temperature: 250°F, 121°C
Voltage Rating: 600vdc
Mounting Torque: 50 in/lbs
Mating Connector: A2FS-(X)
**Description**

A2BPH-XSB connectors are manufactured with Ampco 45 connector shell and removable high strength glass reinforced epoxy dielectric insert. Contact insert is o-ring sealed to the shell and retained with a Spirolox retaining ring. All connectors are electrically tested at 2200vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms. All bulkhead connectors are pressure tested open face to 1500 psi.

**Available Contact Interfaces**

- 1 #14 awg
- 2 #16 awg

**Technical Data**

- **Part Number:** 1206-
- **Shell Material:** Ampco 45, Nickel Aluminum Bronze
- **Contact Material:** 360 Brass, Half Hard
- **O-ring Material:** Nitrile (Buna-N)
- **Contact Plating:** Gold: Mil-G-45204, Type II, Grade C, Class 1 over .0001 Nickel Base
- **Dielectric Material:** 1044, Glass Reinforced Epoxy
- **Operating Pressure:** 5,000 psig mated. Pressure testing above 1500 psi performed as required by order.
- **Operating Temperature:** 250°F, 121°C
- **Voltage Rating:** 600vdc
- **Mounting Torque:** 50 in/lbs
- **Mating Connector:** A2FS-(X)
A2BPH-X-NPT connectors are manufactured with an Ampco 45 connector shell and removable high strength glass reinforced epoxy dielectric contact insert. Contact insert is o-ring sealed to the shell and retained with a Spirolox retaining ring. All connectors are electrically tested at 2200vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms. All bulkhead connectors are pressure tested open face to 1500 psi.

Available Contact Interfaces

- 1 #14 awg
- 2 #16 awg

Technical Data

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<td>O-ring Material</td>
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<tr>
<td>Dielectric Material</td>
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<tr>
<td>Operating Pressure</td>
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<tr>
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<td>Mounting Thread</td>
<td>3/8-18MNPT</td>
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<tr>
<td>Mating Connector</td>
<td>A2FS-(X)</td>
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A4BPH-NPT connectors are manufactured with brass connector shell and removable high strength glass reinforced epoxy dielectric contact insert. Contact insert is o-ring sealed to the shell and retained with a spirolox ring. All connectors are electrically tested at 2200vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms. All bulkhead connectors are pressure tested open face to 1500 psi.

**Available Contact Interfaces**

1 #10 awg 1 #14 awg 1 #14 awg
1 #14 awg 3 #16 awg 5 #16 awg

-2 -4 -6

**Technical Data**

- **Part Number**: 1122-
- **Contact Material**: 360 Brass, Half Hard
- **Shell Material**: (Standard) 360 Brass, Half Hard
  (Optional) 316 S.S., 303 S.S., Ampco 45
- **Contact Plating**: Gold: Mil-G-45204, Type II,
  Grade C, Class 1 over .0001 Nickel Base
- **Dielectric Material**: 1044, Glass Reinforced Epoxy
- **Operating Pressure**: 5000 psig. Pressure testing above 1500 psi performed as required by order.
- **Operating Temperature**: 250°F, 121°C
- **Voltage Rating**: 600vdc
- **Mounting Thread**: (Standard) 1/2-14MNPT (-A)
  (Optional) 3/4-14MNPT (-B)
- **Contact Numbering**: Large Pin = #1 then CCW
- **Mating Connector**: A4FS, A4FS-FA, A4FS-FA-RA
A4BPH-XSB connectors are manufactured with a 316 Stainless Steel connector shell and removable high strength glass reinforced epoxy dielectric contact insert. Contact insert is o-ring sealed to the shell and retained with a Spirolox retaining ring. All connectors are electrically tested at 2200vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms. All bulkhead connectors are pressure tested open face to 1500 psi.

### Available Contact Interfaces

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<tr>
<td>1 #10 awg</td>
<td>1 #14 awg</td>
</tr>
<tr>
<td>1 #14 awg</td>
<td>3 #16 awg</td>
</tr>
<tr>
<td>-2</td>
<td>-4</td>
</tr>
<tr>
<td>-6</td>
<td></td>
</tr>
</tbody>
</table>

### Technical Data

- **Part Number:** 1150
- **Shell Material:** (Standard) 316 S.S., (Optional) 360 Brass
- **Contact Material:** 360 Brass, Half Hard
- **O-ring Material:** Nitrile (Buna-N)
- **Contact Plating:** Gold: Mil-G-45204, Type II, Grade C, Class 1 over .0001 Nickel Base
- **Dielectric Material:** 1044, Glass Reinforced Epoxy
- **Operating Pressure:** 5000 psig. Pressure testing above 1500 psi performed as required by order.
- **Operating Temperature:** 250°F, 121°C
- **Voltage Rating:** 600vdc
- **Mounting Thread:** (Standard) 3/4-16UNF-2A
- **Contact Numbering:** Large Pin = #1 then CCW
- **Mating Connector:** A4FS-X, A4FS-FA, A4FS-FA-RA, A4FS-RA
A4BPH-XSB connectors are manufactured with a 316 S.S. connector shell and removable high strength glass reinforced epoxy dielectric contact insert. Contact insert is double o-ring sealed to the shell and retained with a spirolox ring. All connectors are electrically tested at 2200vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms. All bulkhead connectors are pressure tested open face to 1500 psi.

### Available Contact Interfaces

<table>
<thead>
<tr>
<th>Contact Numbering</th>
<th>AWG</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 #10 awg</td>
<td>1</td>
</tr>
<tr>
<td>1 #14 awg</td>
<td>1</td>
</tr>
<tr>
<td>1 #14 awg</td>
<td>3</td>
</tr>
<tr>
<td>3 #16 awg</td>
<td>5</td>
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<tr>
<td>5 #16 awg</td>
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<td>1.38</td>
<td>-4</td>
</tr>
<tr>
<td>1.00-14UNS-2A</td>
<td>-6</td>
</tr>
</tbody>
</table>

### Technical Data

- **Part Number:** 1728-
- **Contact Material:** 360 Brass, Half Hard
- **Shell Material:** 316 S.S., 303 S.S., Ampco 45
- **Contact Plating:** Gold: Mil-G-45204, Type II, Grade C, Class 1 over .0001 Nickel Base
- **Dielectric Material:** 1044, Glass Reinforced Epoxy
- **Operating Pressure:** 5000 psig. Pressure testing above 1500 psi performed as required by order.
- **Operating Temperature:** 250°F, 121°C
- **Voltage Rating:** 600vdc
- **Mounting Thread:** (Standard) 1.00-14UNS-2A
- **(Optional) Large Pin = #1 then CCW**
- **Contact Numbering:** A4FS, A4FS-FA, A4FS-FA-RA
- **Mating Connector:**
A4BPH-XSB-C
Bulkhead Socket Connector
With Removable Insert

Description

A4BPH-XSB connectors are manufactured with stainless steel connector shell and removable high strength glass reinforced epoxy dielectric contact insert. Contact insert is o-ring sealed to the shell and retained with a spirolox ring. All connectors are electrically tested at 2200vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms. All bulkhead connectors are pressure tested open face to 1500 psi.

Available Contact Interfaces

1 #14 awg  1 #14 awg
1 #16 awg  3 #16 awg
-2UM     -4UM

Technical Data

Part Number: 3597-
Contact Material: 360 Brass, Half Hard
Shell Material: 316 S.S.
Contact Plating: Gold: Mil-G-45204, Type II, Grade C
Dielectric Material: 1044, Glass Reinforced Epoxy
Operating Pressure: 5000 psig. Pressure testing above 1500 psi performed as required by order.
Operating Temperature: 250°F, 121°C
Voltage Rating: 600vdc
Mounting Thread: (Standard) 1/2-13UNC-2
Contact Numbering: Large Pin = #1 then CCW
Mating Connector: A4FS-(X)
**Description**

A4BPH-XSB connectors are manufactured with stainless steel connector shell and removable high strength glass reinforced epoxy dielectric contact insert. Contact insert is o-ring sealed to the shell and retained with a spirolox ring. All connectors are electrically tested at 2200vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms. All bulkhead connectors are pressure tested open face to 1500 psi.

**Available Contact Interfaces**

1 #10 awg  
1 #14 awg  
1 #14 awg  
1 #16 awg  
3 #16 awg  
-2  
-2UM  
-4UM

**Technical Data**

- **Part Number:** 3598- 
- **Contact Material:** 360 Brass, Half Hard 
- **Shell Material:** 316 S.S. 
- **Contact Plating:** Gold: Mil-G-45204, Type II, Grade C 
- **Dielectric Material:** 1044, Glass Reinforced Epoxy 
- **Operating Pressure:** 5000 psig. Pressure testing above 1500 psi performed as required by order. 
- **Operating Temperature:** 250°F, 121°C 
- **Voltage Rating:** 600vdc 
- **Mounting Thread:** (Standard) 7/16-20UNF-2A 
- **Contact Numbering:** Large Pin = #1 then CCW 
- **Mating Connector:** A4FS-(X)
A4BPH-XSB connectors are manufactured with stainless steel connector shell and removable high strength glass reinforced epoxy dielectric contact insert. Contact insert is o-ring sealed to the shell and retained with a spirolox ring. All connectors are electrically tested at 2200vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms. All bulkhead connectors are pressure tested open face to 1500 psi.

Available Contact Interfaces

1 #10 awg 1 #14 awg 1 #14 awg
1 #14 awg 1 #16 awg 3 #16 awg
-2 -2UM -4UM

Technical Data

Part Number: 3599-
Contact Material: 360 Brass, Half Hard
Shell Material: 316 S.S.
Contact Plating: Gold: Mil-G-45204, Type II, Grade C
Dielectric Material: 1044, Glass Reinforced Epoxy
Operating Pressure: 5000 psig. Pressure testing above 1500 psi performed as required by order.
Operating Temperature: 250°F, 121°C
Voltage Rating: 600vdc
Mounting Thread: (Standard) 7/16-20UNF-2A
Contact Numbering: Large Pin = #1 then CCW
Mating Connector: A4FS-(X)
**Description**

A4BPH-XSB connectors are manufactured with stainless steel connector shell and removable high strength glass reinforced epoxy dielectric contact insert. Contact insert is o-ring sealed to the shell and retained with a spirolox ring. All connectors are electrically tested at 2200vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms. All bulkhead connectors are pressure tested open face to 1500 psi.

**Available Contact Interfaces**

1 #10 awg  
1 #14 awg  
1 #14 awg  
1 #16 awg  
3 #16 awg

**-2**  
**-2UM**  
**-4UM**

**Technical Data**

- **Part Number:** 3600-  
- **Contact Material:** 360 Brass, Half Hard  
- **Shell Material:** 316 S.S.  
- **Contact Plating:** Gold: Mil-G-45204, Type II, Grade C  
- **Dielectric Material:** 1044, Glass Reinforced Epoxy  
- **Operating Pressure:** 5000 psig. Pressure testing above 1500 psi performed as required by order.  
- **Operating Temperature:** 250°F, 121°C  
- **Voltage Rating:** 600vdc  
- **Mounting Thread:** (Standard) 1/2-13UNC-2  
- **Contact Numbering:** Large Pin = #1 then CCW  
- **Mating Connector:** A4FS-(X)
**Description**

A4BPH-XSB connectors are manufactured with a 316 S.S. connector shell and removable high strength glass reinforced epoxy dielectric contact insert. Contact insert is double o-ring sealed to the shell and retained with a spirolox ring. All connectors are electrically tested at 2200vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms. All bulkhead connectors are pressure tested open face to 1500 psi.

**Available Contact Interfaces**

![Contact Interfaces Diagram]

- 1 #10 awg
- 1 #14 awg
- 1 #14 awg
- 1 #14 awg
- 3 #16 awg
- 5 #16 awg

**Technical Data**

- **Part Number:** 1431-
- **Contact Material:** 360 Brass, Half Hard
- **Shell Material:** 316 S.S., 303 S.S., Ampco 45
- **Contact Plating:** Gold: Mil-G-45204, Type II, Grade C, Class 1 over .0001 Nickel Base
- **Dielectric Material:** 1044, Glass Reinforced Epoxy
- **Operating Pressure:** 5000 psig. Pressure testing above 1500 psi performed as required by order.
- **Operating Temperature:** 250°F, 121°C
- **Voltage Rating:** 600vdc
- **Mounting Thread:** (Standard) 1.00-14UNS-2A (Optional) Large Pin = #1 then CCW
- **Contact Numbering:** A4FS, A4FS-FA, A4FS-FA-RA
- **Mating Connector:**
**Description**

A4BSH-XSB connectors are manufactured with stainless steel connector shell and removable high strength glass reinforced epoxy dielectric contact insert. Contact insert is O-ring sealed to the shell and retained with a spirolox ring. All connectors are electrically tested at 2200vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms. All bulkhead connectors are pressure tested open face to 1500 psi.

**Available Contact Interfaces**

1 #14 awg 1 #14 awg  
1 #16 awg 3 #16 awg  
-2UM -4UM

**Technical Data**

- **Part Number:** 2757-  
- **Contact Material:** 360 Brass, Half Hard  
- **Shell Material:** 316 S.S.  
- **Contact Plating:** (Standard) Gold: Mil-G-45204, Type II, Grade C  
- **Dielectric Material:** 1044, Glass Reinforced Epoxy  
- **Operating Pressure:** 5000 psig. Pressure testing above 1500 psi performed as required by order.  
- **Operating Temperature:** 250°F, 121°C  
- **Voltage Rating:** 600vdc  
- **Mounting Thread:** (Standard) 1/2-13UNC-2  
- **Contact Numbering:** Large Pin = #1 then CCW  
- **Mating Connector:** A4FP-(X)
A4BPH-XSB connectors are manufactured with stainless steel connector shell and removable high strength glass reinforced epoxy dielectric contact insert. Contact insert is o-ring sealed to the shell and retained with a spirolox ring. All connectors are electrically tested at 2200vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms. All bulkhead connectors are pressure tested open face to 1500 psi.

### Available Contact Interfaces

- 1 #14 awg
- 1 #16 awg
- 3 #16 awg
- \(-2UM\)
- \(-4UM\)

### Technical Data

- **Part Number:** 3602-
- **Contact Material:** 360 Brass, Half Hard
- **Shell Material:** 316 S.S.
- **Contact Plating:** Gold: Mil-G-45204, Type II, Grade C
- **Dielectric Material:** 1044, Glass Reinforced Epoxy
- **Operating Pressure:** 5000 psig. Pressure testing above 1500 psi performed as required by order.
- **Operating Temperature:** 250°F, 121°C
- **Voltage Rating:** 600vdc
- **Mounting Thread:** (Standard) 7/16-20UNF-2A
- **Contact Numbering:** Large Pin = #1 then CCW
- **Mating Connector:** A4FS-(X)
A4BSH-XSB connectors are manufactured with stainless steel connector shell and removable high strength glass reinforced epoxy dielectric contact insert. Contact insert is o-ring sealed to the shell and retained with a spirolox ring. All connectors are electrically tested at 2200vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms. All bulkhead connectors are pressure tested open face to 1500 psi.

Available Contact Interfaces

-2UM
-4UM

Technical Data

Part Number: 3601-
Contact Material: 360 Brass, Half Hard
Shell Material: 316 S.S.
Contact Plating: Gold: Mil-G-45204, Type II, Grade C
Dielectric Material: 1044, Glass Reinforced Epoxy
Operating Pressure: 5000 psig. Pressure testing above 1500 psi performed as required by order.
Operating Temperature: 250°F, 121°C
Voltage Rating: 600vdc
Mounting Thread: (Standard) 1-14UNS-2A
Contact Numbering: Large Pin = #1 then CCW
Mating Connector: A4FS-(X)
**A4BSH-XSB-F**

**Bulkhead Socket Connector**

**With Removable Insert**

---

**Description**

A4BSH-XSB connectors are manufactured with stainless steel connector shell and removable high strength glass reinforced epoxy dielectric contact insert. Contact insert is o-ring sealed to the shell and retained with a spirolox ring. All connectors are electrically tested at 2200vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms. All bulkhead connectors are pressure tested open face to 1500 psi.

---

**Available Contact Interfaces**

- 1 #14 awg
- 1 #16 awg

-2UM    -4UM

---

**Technical Data**

- **Part Number:** 3606-
- **Contact Material:** 360 Brass, Half Hard
- **Shell Material:** 316 S.S.
- **Contact Plating:** Gold: Mil-G-45204, Type II, Grade C
- **Dielectric Material:** 1044, Glass Reinforced Epoxy
- **Operating Pressure:** 5000 psig. Pressure testing above 1500 psi performed as required by order.
- **Operating Temperature:** 250°F, 121°C
- **Voltage Rating:** 600vdc
- **Mounting Thread:** (Standard) 1/2-13UNC-2
- **Contact Numbering:** Large Pin = #1 then CCW
- **Mating Connector:** A4FS-(X)
**Description**

A4WBP-XSB connectors are manufactured with 316L stainless steel connector shell and removable high strength glass reinforced epoxy contact insert. Contact insert is o-ring sealed to the shell and retained with a spirolox ring. All connectors are electrically tested at 2200vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms. All bulkhead connectors are pressure tested open face to 1500 psi.

**Available Contact Interfaces**

- 1 #14 awg
- 1 #16 awg
- 3 #16 awg
- -2UM
- -4UM

**Technical Data**

- **Part Number:** 3603-
- **Contact Material:** 360 Brass, Half Hard
- **Shell Material:** 316L S.S.
- **Contact Plating:** Gold: Mil-G-45204, Type II, Grade C
- **Dielectric Material:** 1044, Glass Reinforced Epoxy
- **Operating Pressure:** 5000 psig. Pressure testing above 1500 psi performed as required by order.
- **Operating Temperature:** 250°F, 121°C
- **Voltage Rating:** 600vdc
- **Mount:** Weld Flange
- **Contact Numbering:** Large Pin = #1 then CCW
- **Mating Connector:** A4FS-(X)
**Description**

A4WBS-XSB connectors are manufactured with 316L stainless steel connector shell and removable high strength glass reinforced epoxy contact insert. Contact insert is o-ring sealed to the shell and retained with a spirolox ring. All connectors are electrically tested at 2200vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms. All bulkhead connectors are pressure tested open face to 1500 psi.

**Available Contact Interfaces**

<table>
<thead>
<tr>
<th># of Contacts</th>
<th>AWG Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>#14 awg</td>
</tr>
<tr>
<td>1</td>
<td>#16 awg</td>
</tr>
<tr>
<td>3</td>
<td>#16 awg</td>
</tr>
</tbody>
</table>

**Technical Data**

<table>
<thead>
<tr>
<th>Part Number:</th>
<th>3604-</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact Material:</td>
<td>Leaded Nickel Copper, S.S. Hood</td>
</tr>
<tr>
<td>Shell Material:</td>
<td>316L S.S.</td>
</tr>
<tr>
<td>Contact Plating:</td>
<td>Gold: Mil-G-45204, Type II, Grade C</td>
</tr>
<tr>
<td>Dielectric Material:</td>
<td>1044, Glass Reinforced Epoxy</td>
</tr>
<tr>
<td>Operating Pressure:</td>
<td>5000 psig. Pressure testing above 1500 psi performed as required by order.</td>
</tr>
<tr>
<td>Operating Temperature:</td>
<td>250°F, 121°C</td>
</tr>
<tr>
<td>Voltage Rating:</td>
<td>600vdc</td>
</tr>
<tr>
<td>Mount:</td>
<td>Weld Flange</td>
</tr>
<tr>
<td>Contact Numbering:</td>
<td>Large Pin = #1 then CCW</td>
</tr>
<tr>
<td>Mating Connector:</td>
<td>A4FS-(X)</td>
</tr>
</tbody>
</table>
Description

A6BPH-XSB connectors are manufactured with 316 stainless steel connector shell and removable high strength glass reinforced epoxy contact insert. Contact insert is o-ring sealed to the shell and retained with a spirolox ring. All connectors are electrically tested at 2200vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms. All bulkhead connectors are pressure tested open face to 1500 psi.

Available Contact Interfaces

<table>
<thead>
<tr>
<th>#10 awg</th>
<th>#10awg</th>
<th>#14 awg</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>#14</td>
<td>#14</td>
<td>#14</td>
</tr>
<tr>
<td></td>
<td>3</td>
<td>7</td>
</tr>
<tr>
<td></td>
<td>#16</td>
<td></td>
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-2UM -4UM -8UM

Technical Data

<table>
<thead>
<tr>
<th>Part Number:</th>
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<tbody>
<tr>
<td>Contact Material:</td>
<td>360 Brass, Half Hard</td>
</tr>
<tr>
<td>Shell Material:</td>
<td>316 S.S.</td>
</tr>
<tr>
<td>Contact Plating:</td>
<td>Gold: Mil-G-45204, Type II, Grade C</td>
</tr>
<tr>
<td>Dielectric Material:</td>
<td>1044, Glass Reinforced Epoxy</td>
</tr>
<tr>
<td>Operating Pressure:</td>
<td>5000 psig. Pressure testing above 1500 psi performed as required by order.</td>
</tr>
<tr>
<td>Operating Temperature:</td>
<td>250°F, 121°C</td>
</tr>
<tr>
<td>Voltage Rating:</td>
<td>600vdc</td>
</tr>
<tr>
<td>Mounting Thread:</td>
<td>1-14UNS-2A</td>
</tr>
<tr>
<td>Contact Numbering:</td>
<td>Large Pin = #1 then CCW</td>
</tr>
<tr>
<td>Mating Connector:</td>
<td>A6FS-(X)</td>
</tr>
</tbody>
</table>
A6BSH-XSBDE connectors are manufactured with 316 stainless steel connector shell and removable high strength glass reinforced epoxy contact insert. Contact insert is o-ring sealed to the shell and retained with a spirolox ring. All connectors are electrically tested at 2200vdc (DWV) and 500vdc (IR) with a minimum passing value > 100 megohms. All bulkhead connectors are pressure tested open face to 1500 psi.

Available Contact Interfaces

<table>
<thead>
<tr>
<th>Contact Interface</th>
<th>Contact</th>
<th>O-ring</th>
<th>Shell</th>
<th>Spirolox</th>
</tr>
</thead>
<tbody>
<tr>
<td>-2UM</td>
<td>1 #10 awg</td>
<td>1 #10 awg</td>
<td>1 #14 awg</td>
<td>-2UM</td>
</tr>
<tr>
<td>-4UM</td>
<td>1 #14 awg</td>
<td>3 #14 awg</td>
<td>7 #16 awg</td>
<td>-4UM</td>
</tr>
<tr>
<td>-8UM</td>
<td>-8UM</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Technical Data

- Part Number: 1806-
- Contact Material: Leaded Nickel Copper, S.S. Hood
- Shell Material: 316 S.S.
- Contact Plating: Gold: Mil-G-45204, Type II, Grade C
- Dielectric Material: 1044, Glass Reinforced Epoxy
- Operating Pressure: 5000 psig. Pressure testing above 1500 psi performed as required by order.
- Operating Temperature: 250°F, 121°C
- Voltage Rating: 600vdc
- Mounting Thread: 1.250-12UNF-2A
- Contact Numbering: Large Pin = #1 then CCW
- Mating Connector: A6FS-(X)