



# Micro Bayonet Connectors

Designed for  
Aerospace Applications  
at a Fraction of the Cost





Amphenol's Bantam Product Series was inspired by the need to replace D-Sub and traditional high cost connectors with a low cost alternative while maintaining the high performance demanded by today's flight critical applications

## FEATURES:

- Low Cost
- Simplified Termination with tape and reel contacts
- Small Form Factor
- Secure Latching
- Tool-less & Fast Mate
- Lightweight



## OVERVIEW

Bantam is a high performance circular connector product range developed for aerospace applications where electrical performance must be met with affordability. High mating cycles along with excellent shell to shell electrical bonding for EMI are the benchmark of rugged connectors. Bantam provides the solution that meets your budget and performance goals. Amphenol has filled the gap between the most ruggedized military grade connectors and the consumer grade connectors with Bantam!

Bantam utilizes a robust triple bayonet coupling mechanism along with an internal EMI ground spring to provide excellent shell to shell conductivity. Various mounting options are available including in-line and 2 hole flange mount configurations.

Bantam meets the RoHS and EWIS requirements for the aerospace cabin environment.



## KEY FEATURES AND BENEFITS:

- High Density
- Shell to Shell Shielding
- EWIS and RoHS Compliant
- Bayonet Coupling provides quick and positive locking
- Compact and Lightweight
- Quick Termination Process
- High Reliability interconnect for demanding applications

## PERFORMANCE:

### General Specifications

|                              |                                  |
|------------------------------|----------------------------------|
| Available Inserts:           | 7 Pins & 15 Pins;<br>Size 22D    |
| Current:                     | 3 amp @ 26 AWG<br>5 amp @ 22 AWG |
| Class:                       | F (Al shell, nickel plated)      |
| Operating Voltage:           | 500VAC                           |
| Crimp Contact Term:          | #22 to #26 AWG                   |
| Shell-to-shell Conductivity: | 2.5 mΩ                           |
| Operating Temperature:       | -55° to 125° C                   |
| Mating/unmating cycles:      | >500                             |
| Keying Options:              | 5 or more                        |

## APPLICATIONS:

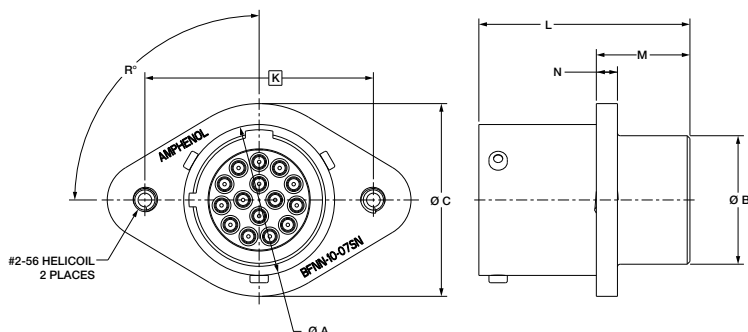
- Cabin & Proximity Lighting
- Sensors
- IFE&C
- In-Seat Wiring
- In-line Connections
- Panel/Equipment Connections

## MATERIALS (RoHS COMPLIANT):

- Shell and Coupling Nut: Aluminum Alloy, Nickel Plated as standard
- Inserts High Performance thermoplastic
- Contacts: Stainless Steel & Copper Alloy, Gold Plated

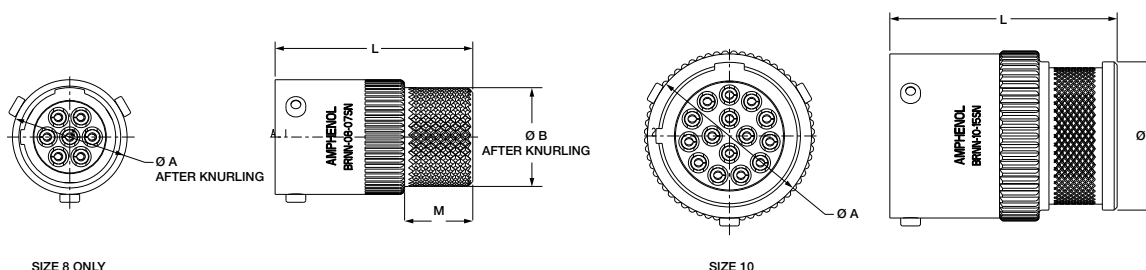


## 2 HOLE FLANGE MOUNTING RECEPTACLE



| Part Number  | Size | Arrangement | Ø A ±.006 | Ø B ±.006 | Ø C ±.004 | K    | L ± .008 | M ±.004 | N ±.004 |
|--------------|------|-------------|-----------|-----------|-----------|------|----------|---------|---------|
| BFNN-08-07() | 08   | 07          | .457      | .394      | .551      | .760 | .709     | .205    | .091    |
| BFNN-10-15() | 10   | 15          | .647      | .551      | .827      | .980 | .906     | .402    | .091    |

## INLINE RECEPTACLE

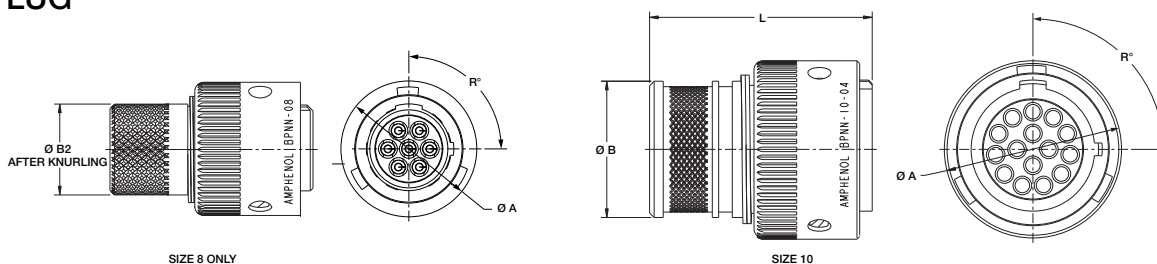


SIZE 8 ONLY

SIZE 10

| Part Number  | Size | Arrangement | Ø A       | Ø B       | L         | M         | Number of Contacts |         |         |
|--------------|------|-------------|-----------|-----------|-----------|-----------|--------------------|---------|---------|
|              |      |             |           |           |           |           | Size 22D           | Size 20 | Size 16 |
| BRNN-08-07() | 08   | 07          | .462-.446 | .400-.393 | .795-.779 | .280-.272 | 7                  | 0       | 0       |
| BRNN-10-15() | 10   | 15          | .671-.683 | .585-.596 | .898-.913 | N/A       | 15                 | 0       | 0       |

## PLUG



SIZE 8 ONLY

SIZE 10

| Part Number  | Size | Arrangement | Ø A       | Ø B       | Ø B2      | L         | Number of Contacts |         |         |
|--------------|------|-------------|-----------|-----------|-----------|-----------|--------------------|---------|---------|
|              |      |             |           |           |           |           | Size 22D           | Size 20 | Size 16 |
| BPNN-08-07() | 08   | 07          | .583-.591 | N/A       | .393-.400 | .875-.885 | 7                  | 0       | 0       |
| BPNN-10-15() | 10   | 15          | .763-.773 | .590-.597 | N/A       | .960-.970 | 15                 | 0       | 0       |

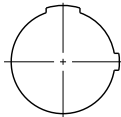
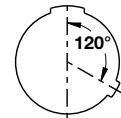
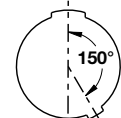
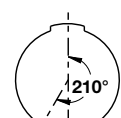
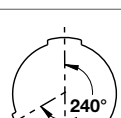


## How to Order - BANTAM 1/4 Turn Bayonet Coupling

| 1.        | 2.            | 3.        | 4.                 | 5.       | 6.       | 7.            |
|-----------|---------------|-----------|--------------------|----------|----------|---------------|
| Series    | Shell Plating | Class     | Insert Arrangement | Contacts | Keying   | Optional Code |
| <b>BP</b> | <b>N</b>      | <b>N-</b> | <b>08-07</b>       | <b>P</b> | <b>N</b> |               |

| 1. SERIES |                                        | 2. SHELL PLATING |                    | 3. CLASS  |                   | 4. INSERT ARRANGEMENTS |             |            |            |
|-----------|----------------------------------------|------------------|--------------------|-----------|-------------------|------------------------|-------------|------------|------------|
| <b>BP</b> | Plug, Integral Backshell               | <b>N</b>         | Electroless Nickel | <b>N-</b> | Non Environmental | <b>Insert Arrg</b>     | <b>#22D</b> | <b>#20</b> | <b>#16</b> |
| <b>BR</b> | In-Line Receptacle, Integral Backshell |                  |                    |           |                   | <b>08-07</b>           | 7           |            |            |
| <b>BF</b> | 2 Hole Flange Receptacle               |                  |                    |           |                   | <b>10-15</b>           | 15          |            |            |
|           |                                        |                  |                    |           |                   | <b>10-12*</b>          | 11          |            | 1          |
|           |                                        |                  |                    |           |                   | <b>10-04*</b>          |             |            | 4          |
|           |                                        |                  |                    |           |                   | <b>10-07*</b>          | 4           |            | 3          |

\*Coming soon

| 5. CONTACTS |                                      | 6. KEYING |                                                                                     | 7. OPTIONAL CODE |                                        |
|-------------|--------------------------------------|-----------|-------------------------------------------------------------------------------------|------------------|----------------------------------------|
| <b>P</b>    | Pin Crimp (S&F)                      | <b>N</b>  |  | <b>B</b>         | Shield Termination Micro Band Included |
| <b>S</b>    | Socket Crimp (S&F)                   | <b>A</b>  |  |                  |                                        |
| <b>A</b>    | Pin, less contacts                   | <b>B</b>  |  |                  |                                        |
| <b>B</b>    | Socket, less contacts                | <b>C</b>  |  |                  |                                        |
| <b>C</b>    | Pin Crimp (machined crimp barrel)    | <b>D</b>  |  |                  |                                        |
| <b>D</b>    | Socket Crimp (machined crimp barrel) |           |                                                                                     |                  |                                        |
| <b>E</b>    | Pin PC Tail-Length .150              |           |                                                                                     |                  |                                        |
| <b>F</b>    | Socket PC Tail-Length .150           |           |                                                                                     |                  |                                        |



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Электрон  
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