

# Amphenol BACC 5015 Series Connectors



## BOEING CERTIFIED 5015'S BRING HIGH PERFORMANCE TO UNIQUE AIRCRAFT CHALLENGES

BACC connectors are qualified to Boeing specifications to satisfy general-purpose requirements and unique product challenges for shielding, environmental sealing, fluid resistance, and vibration.

The Amphenol BACC 5015 series connectors use rear-release crimp contacts with a retention clip. These Amphenol connectors fill the gap between older MIL-DTL-5015s and the environmental and higher-performance demands of new technologies. They are sealed to withstand moisture, condensation, vibration and flash-over. Numerous layouts are available in arrangements that allow for just power, just signal, or a mix of both contact types. For more on the BACC 5015 series connectors including how to order, see the specifications details below.

### CREATE PART NUMBER BACC63CD & CE

|                    |                   |                    |               |                |                 |                 |
|--------------------|-------------------|--------------------|---------------|----------------|-----------------|-----------------|
| <b>1</b>           | <b>2A</b>         | <b>3</b>           | <b>2B</b>     | <b>4</b>       | <b>5</b>        | <b>6</b>        |
| <b>BACC63CE</b>    | <b>18</b>         | <b>-</b>           | <b>4</b>      | <b>P</b>       | <b>W</b>        | <b>H</b>        |
| <b>SHELL STYLE</b> | <b>SHELL SIZE</b> | <b>CABLE CLAMP</b> | <b>LAYOUT</b> | <b>CONTACT</b> | <b>ROTATION</b> | <b>MODIFIER</b> |

#### WHEN CHOOSING LAYOUT

First Number = Step 2A – Shell Size, Dash = Step 3 – Cable Clamp, Second Number = 2B – Layout

## STEP 1: SELECT SHELL STYLE, PLUG OR RECEPTACLE

### RECEPTACLES

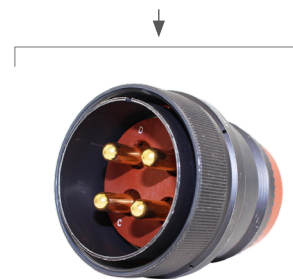


### BACC63CD

Front Mount Square Flange

Mates with

### PLUGS



### BACC63CE

Plug

## STEP 2A & 2B: SELECT SHELL SIZE – LAYOUT

| LAYOUT | TOTAL NUMBER | CONTACTS |    |    |   |   | ROTATIONS |     |     |     | SERVICE RATING |
|--------|--------------|----------|----|----|---|---|-----------|-----|-----|-----|----------------|
|        |              | 16S      | 16 | 12 | 8 | 4 | W         | X   | Y   | Z   |                |
| 12S-3  | 2            | 2        |    |    |   |   | 70        | 145 | 215 | 290 | A              |
| 14S-2  | 4            | 4        |    |    |   |   | -         | 120 | 240 | -   | I              |
| 14S-5  | 5            | 5        |    |    |   |   | -         | 110 | -   | -   | I              |
| 14S-7  | 3            | 3        |    |    |   |   | 90        | 180 | 270 | -   | A              |
| 18-4   | 4            |          | 4  |    |   |   | 35        | 110 | 250 | 325 | D              |
| 20-4   | 4            |          |    | 4  |   |   | 45        | 110 | 250 | -   | D              |
| 22-2   | 3            |          |    |    | 3 |   | 70        | 145 | 215 | 290 | D              |
| 22-22  | 4            |          |    |    | 4 |   | -         | 110 | 250 | -   | A              |
| 24-9   | 2            |          |    |    |   | 2 | 35        | 110 | 250 | 325 | A              |
| 24-10  | 7            |          |    |    | 7 |   | 80        | -   | -   | 280 | A              |
| 24-11  | 9            |          |    | 6  | 3 |   | 35        | 110 | 250 | 325 | A              |
| 24-22  | 4            |          |    |    | 4 |   | 45        | 110 | 250 | -   | D              |
| 28-22  | 6            |          | 3  |    |   | 3 | 70        | 145 | 215 | 290 | D              |
| 32-17  | 4            |          |    |    |   | 4 | 45        | 110 | 250 | -   | D              |

**STEP 3: SELECT CABLE CLAMP**



- = No Cable Clamp

**A** = BACC10HV  
Straight Cable Clamp

**B** = BACC10HW  
Right Angle Cable Clamp

**STEP 4: SELECT CONTACT**



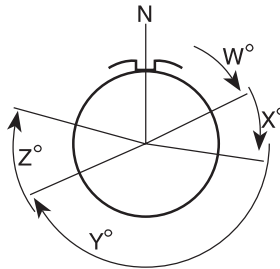
**P** = Pin    **S** = Socket

**STEP 5: SELECT ROTATION**



See chart in steps 2A & 2B (omit for normal)

**W, X, Y, Z**



**STEP 6: SELECT MODIFIER**



**H** = Without contacts and Seal Plugs  
**Note:** H is not marked on part

**BLANK** = With contacts and Seal Plugs

# LAYOUTS BY NUMBER OF CONTACTS

CONTACT LEGEND ⊕ =16 ● =12 ⊙ =8 ○ =4 ⊗ =0  
 Mating face view of pin inserts

LAYOUT  
 # OF CONTACTS  
 SERVICE RATING



12S-3  
 2-#16S  
 A



14S-2  
 4-#16S  
 I



14S-5  
 5-#16S  
 I

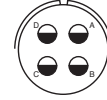
LAYOUT  
 # OF CONTACTS  
 SERVICE RATING



14S-7  
 3-#16S  
 A

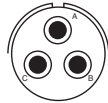


18-4  
 4-#16  
 D

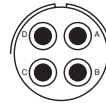


20-4  
 4-#12  
 D

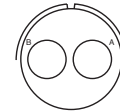
LAYOUT  
 # OF CONTACTS  
 SERVICE RATING



22-2  
 3-#8  
 D



22-22  
 4-#8  
 A

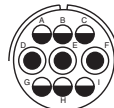


24-9  
 2-#4  
 A

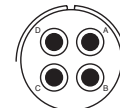
LAYOUT  
 # OF CONTACTS  
 SERVICE RATING



24-10  
 7-#8  
 A

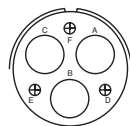


24-11  
 6-#12, 3-#8  
 A

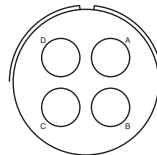


24-22  
 4-#8  
 D

LAYOUT  
 # OF CONTACTS  
 SERVICE RATING



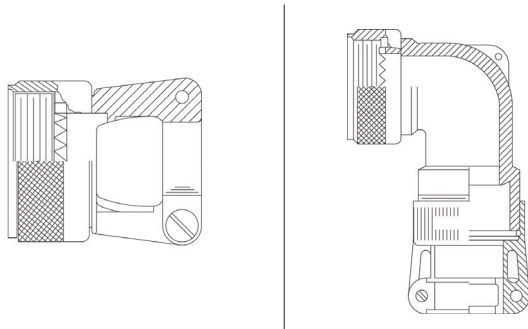
24-11  
 6-#12, 3-#8  
 A



32-17  
 4-#4  
 D

**BACC CABLE CLAMP ALUMINIUM - SELF LOCKING**

**BACC63CD**  
**BACC63CE**



| SHELL SIZE | SELF LOCKING CABLE CLAMP - ALUMINUM |             | CABLE RANGE |       |
|------------|-------------------------------------|-------------|-------------|-------|
|            | STRAIGHT                            | RIGHT ANGLE | MIN.        | MAX.  |
| 8          | BACC10HV08                          | BACC10HW08  | 0.125       | 0.204 |
| 10         | BACC10HV10                          | BACC10HW10  | 0.187       | 0.286 |
| 12         | BACC10HV12                          | BACC10HW12  | 0.291       | 0.416 |
| 14         | BACC10HV14                          | BACC10HW14  | 0.351       | 0.476 |
| 16         | BACC10HV16                          | BACC10HW16  | 0.501       | 0.626 |
| 18         | BACC10HV18                          | BACC10HW18  | 0.518       | 0.706 |
| 20         | BACC10HV20                          | BACC10HW20  | 0.581       | 0.831 |
| 22         | BACC10HV22                          | BACC10HW22  | 0.644       | 0.956 |
| 24         | BACC10HV24                          | BACC10HW24  | 0.706       | 1.081 |
| 28         | BACC10HV28                          | BACC10HW28  | 0.750       | 1.187 |
| 32         | BACC10HV32                          | BACC10HW32  | 0.875       | 1.250 |
| 36         | BACC10HV36                          | BACC10HW36  | 0.938       | 1.375 |