

# AEROFLITE

ENTERPRISES, INC.

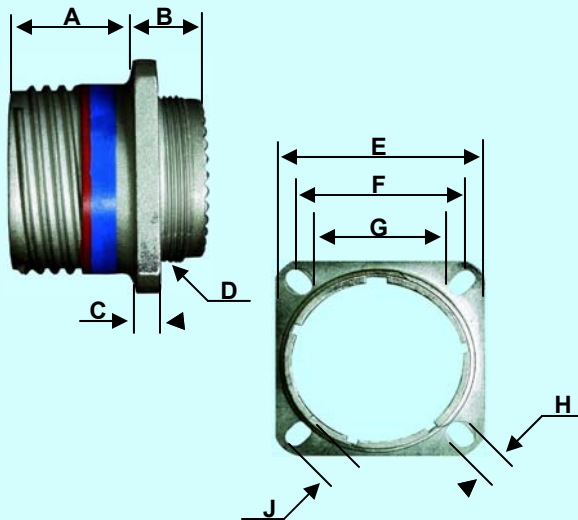
261 Gemini Avenue, Brea, CA 92821

## Boeing BACC63\*\* Connectors

- HIGH DENSITY FROM 1 TO 128 CONTACTS
- 100% SCOOP PROOF
- EMI SHIELDING UP TO 65dB AT 10 Ghz
- QUICK CONNECT/DISCONNECT COUPLING

High density, high reliability BACC63\*\* connectors from Souriau are available in composite and Stainless steel materials. The BACC63\*\* connectors are designed for the harshest environments and feature an anti-decoupling mechanism for improved performance under severe vibration conditions. The BACC63\*\* connectors are available for Being specific applications involving signal, fiber optics, PC Tails, coax, Twinax & Ouadrax contacts.

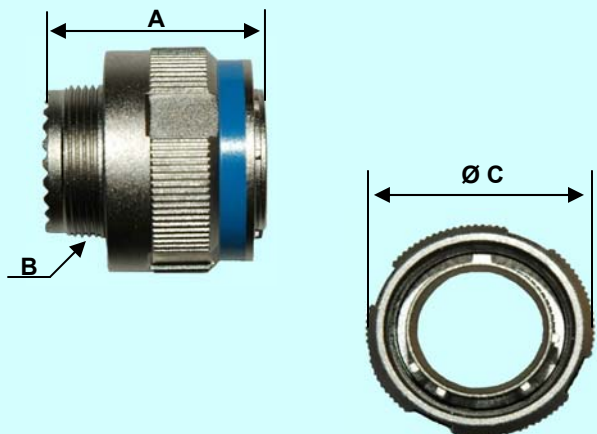
**BACC63CU or BACC63DC**  
Sq Flange Receptacle



Shell Size	MS Shell Size	A Max	B Max	C Max	D Thread	E	F	G	H	J
9	A	20.90 .823	10.60 .417	2.50 .098	M 12x 1-6g	23.80 .937	18.26 .719	15.09 .594	3.25 .128	5.49 .216
11	B	20.90 .823	10.60 .417	2.50 .098	M 15x 1-6g	26.20 1.031	20.62 .812	18.26 .719	3.25 .128	4.93 .194
13	C	20.90 .823	10.60 .417	2.50 .098	M 18x 1-6g	28.60 1.126	23.01 .906	20.62 .812	3.25 .128	4.93 .194
15	D	20.90 .823	10.60 .417	2.50 .098	M 22x 1-6g	31.00 1.220	24.61 .969	23.01 .906	3.25 .128	4.39 .173
17	E	20.90 .823	10.60 .417	2.50 .098	M 25x 1-6g	33.30 1.311	26.97 1.062	24.62 .969	3.25 .128	4.93 .194
19	F	20.90 .823	10.60 .417	2.50 .098	M 28x 1-6g	36.50 1.437	29.36 1.156	26.97 1.062	3.25 .128	4.93 .194
21	G	20.10 .791	10.40 .449	3.20 .126	M 31x 1-6g	39.70 1.563	31.75 1.250	29.36 1.156	3.25 .128	4.93 .194
23	H	20.10 .791	10.40 .449	3.20 .126	M 34x 1-6g	42.90 1.689	34.93 1.375	31.75 1.250	3.91 .154	6.15 .242
25	J	20.10 .791	10.40 .449	3.20 .126	M 37x 1-6g	46.00 1.811	38.10 1.500	34.93 1.375	3.91 .154	6.15 .242

Shell Size	MS Shell Size	A Max	B Thread	C Max
9	A	31.00 1.220	M 12x 1-6g	21.80 .858
11	B	31.00 1.220	M 15x 1-6g	25.00 .984
13	C	31.00 1.220	M 18x 1-6g	29.40 1.157
15	D	31.00 1.220	M 22x 1-6g	32.50 1.280
17	E	31.00 1.220	M 25x 1-6g	35.70 1.406
19	F	31.00 1.220	M 28x 1-6g	38.50 1.516
21	G	31.00 1.220	M 31x 1-6g	41.70 1.642
23	H	31.00 1.220	M 34x 1-6g	44.90 1.768
26	J	31.00 1.220	M 37x 1-6g	48.00 1.890

**BACC63CT or BACC63DB**  
Straight Plug



**For More Information Contact AeroFlite Enterprises, Inc.**

(714)773-4251 ♦ sales@aeroflite.com ♦ Fax: (714)773-4973

# Boeing BACC63\*\* Connectors

## CHARACTERISTICS

### MECHANICAL:

**Shell:** Composite or Stainless Steel  
**Plating:** Composite - 12µm Electroless NI over 3 - 12µm CU  
 Stainless—Passivated per AMS-QQ-P-35  
**Insulator:** Thermoplastic or Thermoset  
**Elastomers:** Silicone

**Contact Plating:** Gold over Nickel  
**Endurance:** Stainless - 500 Cycles, Composite - 1,500 Cycles  
**Shock:** Stainless - per MIL-S-901, Composite per EN2591 D2  
**Vibration:** Sine: 60 g's with Temperature Cycling, Random: 44.1 gmh High Temp  
**Retention:** Size 22 - 45N; Size 20 - 67N; Size 16, 12 & 8 - 111N

### ELECTRICAL:

Test Voltage (Vrms)		
Service	Sea Level	21,000 m
M	1300	800
N	1000	600
I	1800	1000
II	2300	1000

Contact Resistance / Rating			
Size	Resistance	IR	Rating
22D	14.6 mΩ	≥5000 MΩ - 500Vdc	5A
20	7.3 mΩ		7.5A
16	3.8 mΩ		13A
12	1.7 mΩ		23A
8	3 mΩ		48A

Finish	Shell Continuity	Shielding
NI Plated	3 mΩ	90 db at 100 GHz
Stainless	1 mΩ	-50db to 10000 MHz

### ENVIRONMENTAL:

#### Climatic

#### Temperature Range

-65° C + 200° C

#### Sealing

- Altitude & Immersion per MIL-DTL-38999

#### Salt Spray

- Stainless - MIL-STD-1344 / 1001, Composite - 2,000 hrs

#### Damp Heat

- MIL-DTL-38999 - 10 Cycles, 24hrs

#### Fluid Resistance to MIL-DTL-38999

- Gasoline: JP5 (OTAN F44)
- Mineral Hydraulic Fluid: MIL-H-5606 (OTAN H515)
- Synthetic Hydraulic Fluid: Skydrol 500 B4, LD4 (SAE AS 1241)
- Mineral Lubricating: MIL-L-7870A (OTAN 0142)
- Synthetic Lubricating: MIL-L-23699 (OTAN 0156) MIL-L-7808
- Cleaning Fluid: MIL-C-25769 (Diluted)
- De-Icing Fluid: MIL-A-8243
- Extinguishing Fluid: Chlorobromethane
- Cooling Fluid: Coolanol

**FOR ADDITIONAL DATA, CONTACT AEROFLITE ENTERPRISES, INC.**

## HOW TO ORDER

**BACC63CT**      15 - 19 P N H

**Series** \_\_\_\_\_

BACC63CT - Straight Plug, NI Plated Composite  
 BACC63CU - Receptacle, NI Plated Composite  
 BACC63DB - Plug, Stainless Steel  
 BACC63DC - Receptacle, Stainless Steel

**Shell Size** \_\_\_\_\_

09, 11, 13, 15, 17, 19, 21, 23 & 25

**Separator** \_\_\_\_\_

Per BACC63\*\*

**Insert Arrangement** \_\_\_\_\_

Consult AeroFlite Enterprises, Inc.

**Contact Type** \_\_\_\_\_

P - Pin  
 S - Socket

**Key Position** \_\_\_\_\_

Consult AeroFlite Enterprises, Inc.

**Ordering Option** \_\_\_\_\_

H - Less Contacts & Sealing Plug  
 (Note: Not marked on connector)  
 Blank - With Contacts & Sealing Plug

**NOTE: PLUGS & RECEPTACLES ARE SUPPLIED WITH DUST COVERS INSTALLED**

### MISCELLANEOUS DATA

#### Contact Information:

Pin contacts per BACC47GC  
 Socket contacts per BACC47GD  
 Quadrax pins per BACC47GM  
 Quadrax sockets per BACC47GN  
 Sealing plugs per MS27488

COAX, TWINAX & QUADRAX CONTACT ARE PURCHASED SEPARATELY

**Note: BACC63\*\* connectors with Coax, Twinax or Quadrax contacts should not be used in high temperature applications.**

BACC63\*\* connectors will accommodate most contacts and accessory hardware commonly used with MIL-DTL-38999 Series III connectors. For specific acceptable hardware & material combinations, contact:

**AEROFLITE ENTERPRISES, INC.**

CONSULT AEROFLITE FOR DUST CAPS & ACCESSORIES

**Backshells**      8D      102      F      02

Series \_\_\_\_\_ Backshell Type

Size - 09 11 13 15 17 19 21 23 25      01 - Backnut  
 Index - 101 102 103 104 105 107 108 109      02 - Straight Cable Clamp  
 Plating \_\_\_\_\_      03 - 90° Cable Clamp  
 F = Electroless Nickel      13 - B/S for Shrink Sleeve

**Corporate Office**  
Brea, CA

**Asia-Pacific**  
Singapore

**Northwest & W. Canada**  
Seattle, WA

**Mexico / Latin & South America**  
Miami, FL

**Southeast**  
Atlanta, GA

**Northeast & E. Canada**  
Toronto, ON

AeroFlite Enterprises, Inc. provides the highest quality products available to the marketplace. These products are intended to be used in accordance with the specifications pertaining to each individual customer application. Any deviation from the intended use and customer source control drawings is not recommended and may be unsafe. No information or data contained in this Product Information document shall be construed to create any liability on the part of AeroFlite Enterprises, Inc. Any new issue of this publication shall automatically invalidate and supersede any and all previous issues. AeroFlite Enterprises, Inc. does not assume responsibility or any liability for any patent infringements or other rights of third parties which may result from its use. AeroFlite Enterprises, Inc. shall not be liable for any loss, damage, cost of repairs, incidental or consequential damages of any kind whether or not based on any express or implied warranty, contract, negligence or strict liability arising in connection with the design, manufacture, sale, use, or repair of the products.

(714)773-4251   ♦   sales@aeroflite.com   ♦   Fax: (714)773-4973