

- Low insertion force contacts.
- Both environmental and non- environmental versions.
- Polarizing posts that are removable from the mating face.
- Field replaceable inserts for size 22 and power contacts.
- Up to 800 size 22 contacts in one connector.
- Crimp, coax, power, printed circuit and wire wrappable post style contacts.
- Uses standard DPX crimp, insertion/extraction tooling.
- Waveguide connections available.



**BKAD/E**

Rear Release/Rear Removable  
Size 12, 16, 20, 22 Crimp Contacts

BKAD/E connectors represent a major milestones in presenting a new rack and panel connector for support of the air transportation market. Several important design concerns have been addressed and solved in this new series. High mating forces of pluggable modules in a rack have been reduced by approximately two-thirds.

The low insertion force contacts are also interchangeable with the contacts used in the DPX series and permit retrofit of existing equipment.

**BKAF**

Front Release/Front Removable  
Size 22 Solder Tail and Wrap Post Contacts

This new connector is totally intermateable and intermountable with ARINC 600 connectors now in the field. The BKAF permits the user to easily replace a contact in case of problems, rather than disassemble the entire connector--it is available with size 22 contacts in wrap post or solder-tail versions. The system maintains the advantages of low insertion force technology incorporated in all ARINC 600 connectors.

**Pos-Aline Connector Construction Feature**

In the ARINC 600 connector series, Size 22 contacts are the only size that utilize this design feature. The hooded socket extends from its insulator while the pin contacts are shrouded by its front insulator. All other contacts used in this series employ standard contact design.

The result is that the complement of contacts for the plug connectors will consist of pin contacts for size 22 and socket contacts for all others. The receptacle contacts will be just the reverse, socket contact for size 22 and pin contacts for the balance.

**Material Specifications**

|                   |             | BKAD             | BKAE                     | BKAF             | Specifications |
|-------------------|-------------|------------------|--------------------------|------------------|----------------|
| Shell & Waveguide | Material    | Aluminum alloy   | Aluminum alloy           | Aluminum alloy   | QQ A-591/A380  |
|                   | Finish      | Alodine 1200     | Alodine 1200             | Alodine 1200     | MIL-C-5541     |
| Insulator         | Material    | Thermoset        | Thermoset                | Thermoset        | N/A            |
|                   | Material    | Copper alloy     | Copper alloy             | Copper alloy     | QQ-C-533       |
| Contacts          | Finish      | Gold over Nickel | Gold over Nickel         | Gold over Nickel | MIL-G-45204    |
|                   | Termination | Crimp            | Crimp                    | P.C./Wrap Post   | N/A            |
| Grommets/Seals    | Material    | N/A              | Silicone-based Elastomer | N/A              | N/A            |
| O-Ring            | Material    | N/A              | Silicone-based Elastomer | N/A              | N/A            |



## How to Order (Continued)

**CONNECTOR LAYOUT DESCRIPTION** Note: All layouts with "OPEN" insert cavity are not supplied with an insulator. If a Blank insert is required please consult factory.  
Three Digit Number Contained within the Shell Layout Indicates Total Number of Contacts Available (including Waveguide)

| Connector Layout | Shell Size | Shell Cavity Identification |           |      |   |   |   | Ref. ARINC Characteristic | Connector Layout | Shell Size | Shell Cavity Identification |       |      |       |      |       | Ref. ARINC Characteristic |
|------------------|------------|-----------------------------|-----------|------|---|---|---|---------------------------|------------------|------------|-----------------------------|-------|------|-------|------|-------|---------------------------|
|                  |            | A                           | B         | C    | D | E | F |                           |                  |            | A                           | B     | C    | D     | E    | F     |                           |
| -005             | 1          | OPEN                        | OPEN      | 5W2  |   |   |   |                           | -T173            | 2          | 150                         | 10T10 | 13W2 |       |      |       |                           |
| -060             | 1          | OPEN                        | 60        | OPEN |   |   |   |                           | 234              | 2          | 150                         | 71W1  | 13W2 |       |      |       | 709                       |
| A060             | 1          | 60                          | OPEN      | OPEN |   |   |   |                           | A234             | 2          | 71W1                        | 150   | 13W2 |       |      |       | 727                       |
| -065             | 1          | OPEN                        | 60        | 5W2  |   |   |   |                           | -246             | 2          | 120T2                       | 120T2 | 6T6  |       |      |       |                           |
| A065             | 1          | 60                          | Open      | 5W2  |   |   |   |                           | -248             | 2          | 121                         | 121   | 6T6  |       |      |       |                           |
| -120             | 1          | 60                          | 60        | OPEN |   |   |   |                           | 250              | 2          | OPEN                        | 150   | 100  |       |      |       |                           |
| -125             | 1          | 60                          | 60        | 5W2  |   |   |   | ●                         | 250A             | 2          | 150                         | BLANK | 100  |       |      |       |                           |
| -013             | 2          | OPEN                        | OPEN      | 13W2 |   |   |   |                           | -251             | 2          | Waveguide                   | 150   | 100  |       |      |       |                           |
| -017             | 2          | 2W2                         | 2W2       | 13W2 |   |   |   |                           | -300             | 2          | 150                         | 150   | OPEN |       |      |       |                           |
| -071             | 2          | OPEN                        | 71W1      | OPEN |   |   |   |                           | -306             | 2          | 150                         | 150   | 6T6  |       |      |       |                           |
| A071             | 2          | 71W1                        | OPEN      | OPEN |   |   |   |                           | -313             | 2          | 150                         | 150   | 13W2 |       |      | ● ● ● |                           |
| -085             | 2          | Waveguide                   | 71W1      | 13W2 |   |   |   |                           | -370             | 2          | 150                         | 120T2 | 100  |       |      |       |                           |
| A085             | 2          | 71W1                        | Waveguide | 13W2 |   |   |   |                           | -400             | 2          | 150                         | 150   | 100  |       |      |       |                           |
| 86M              | 2          | 2W2                         | 71W1A     | 13W2 |   |   |   |                           | -021             | 3          | 4W4                         | 4W4   | 13W2 | BLANK | OPEN | OPEN  |                           |
| -093             | 2          | 4W4                         | 4W4       | 85   |   |   |   |                           | -026             | 3          | OPEN                        | OPEN  | 13W2 | OPEN  | OPEN | 13W2  |                           |
| -100             | 2          | OPEN                        | OPEN      | 100  |   |   |   |                           | -113             | 3          | OPEN                        | OPEN  | 100  | OPEN  | OPEN | 13W2  |                           |
| -137             | 2          | 121                         | 10T10     | 6T6  |   |   |   |                           | -A113            | 3          | OPEN                        | OPEN  | 13W2 | OPEN  | OPEN | 100   |                           |
| -T141            | 2          | 120T2                       | 10T10     | 13W2 |   |   |   |                           | -114             | 3          | 4W4                         | 4W4   | 4W4  | 4W4   | 13W2 | 85    |                           |
| -142             | 2          | 71W1                        | 71W1      | OPEN |   |   |   |                           | -284             | 3          | 71W1                        | 71W1  | OPEN | 71W1  | 71W1 | OPEN  |                           |
| -155             | 2          | 71W1                        | 71W1      | 13W2 |   |   |   | ● ●                       | -310             | 3          | 71W1                        | 71W1  | 13W2 | 71W1  | 71W1 | 13W2  |                           |
| 155M             | 2          | 71W1A                       | 71W1A     | 13W2 |   |   |   |                           | -330M            | 3          | 2W1                         | 2W2   | 13W2 | 150   | 150  | 13W2  |                           |
| V155M            | 2          | 71W1B                       | 71W1A     | 13W2 |   |   |   |                           | -A330M           | 3          | 150                         | 150   | 13W2 | 2W2   | 2W2  | 13W2  |                           |
| 158M             | 2          | 2W2                         | 71W1A     | 85   |   |   |   |                           | -496             | 3          | 121                         | 121   | 121  | 121   | 6T6  | 6T6   |                           |
| -A158M           | 2          | 2W2                         | 71W1B     | 85   |   |   |   |                           | -600             | 3          | 150                         | 150   | OPEN | 150   | 150  | OPEN  |                           |
| -163             | 2          | OPEN                        | 150       | 13W2 |   |   |   |                           | -626             | 3          | 150                         | 150   | 13W2 | 150   | 150  | 13W2  | ● ● ● ●                   |
| A163             | 2          | 150                         | OPEN      | 13W2 |   |   |   |                           | -713             | 3          | 150                         | 150   | 100  | 150   | 150  | 13W2  |                           |
| -164             | 2          | 150                         | Waveguide | 13W2 |   |   |   |                           | A713             | 3          | 150                         | 150   | 13W2 | 150   | 150  | 100   |                           |
| A164             | 2          | Waveguide                   | 150       | 13W2 |   |   |   | 708                       | -734             | 3          | 150                         | 150   | 100  | 150   | 150  | 3W    |                           |
| 165M             | 2          | 150                         | 2W2       | 13W2 |   |   |   |                           | -764             | 3          | 150                         | 150   | 64   | 150   | 150  | 100   |                           |
| -A165M           | 2          | 2W2                         | 150       | 13W2 |   |   |   |                           | -800             | 3          | 150                         | 150   | 100  | 150   | 150  | 100   |                           |
| -167             | 2          | 4W4                         | 150       | 13W2 |   |   |   |                           | -269M            | 3          | 2W2                         | 2W2   | 13W2 | 2W2   | 150  | 100   | 732                       |
| 173M             | 2          | 2W2                         | 71W1B     | 100  |   |   |   |                           | 271C             | 3          | 4W4                         | 4W4   | 13W2 | BLANK | 150  | 100   |                           |
|                  |            |                             |           |      |   |   |   |                           | 271M             | 3          | 2W2                         | 2W2   | 13W2 | 4W4   | 150  | 100   |                           |
|                  |            |                             |           |      |   |   |   |                           | -326             | 3          | OPEN                        | 150   | 13W2 | OPEN  | 150  | 13W2  |                           |

**NOTE. ANY OTHER COMBINATION OF INSERTS WITHIN A SPECIFIC SHELL IS AVAILABLE UPON REQUEST**

- Layout included in the following ARINC configurations 702, 710, 711, 712, 714, 715, 716, 723.
- ● Layout included in the following ARINC configurations 707, 718 & 730.
- ● ● Layout included in the following ARINC configurations 701, 702, 703, 704, 705, 706, 724, 725.
- ● ● ● Layout included in the following ARINC configurations 701, 717, 726, 729.

**POLARIZING POSITION**

01 thru 99 (per ARINC 600)

Blank-Polarizing posts or keys not installed but supplied with connector

**MODIFIER (Contact, Finish, Material)**

Blank - Rear release, crimp, signal and power contacts supplied with connector (when applicable)  
FO - Contacts not supplied with connector (FO not stamped on connector)  
FOO - Less contacts and waveguide (FOO not stamped on connector)  
SA - Front release .025(0.63) D. x .150 (3.81) solder post and crimp, rear release power contacts (when applicable) supplied with connector  
SB - Front release .025(0.63) D. x .250 (6.35) solder post and crimp, rear release power contacts (when applicable) supplied with connector

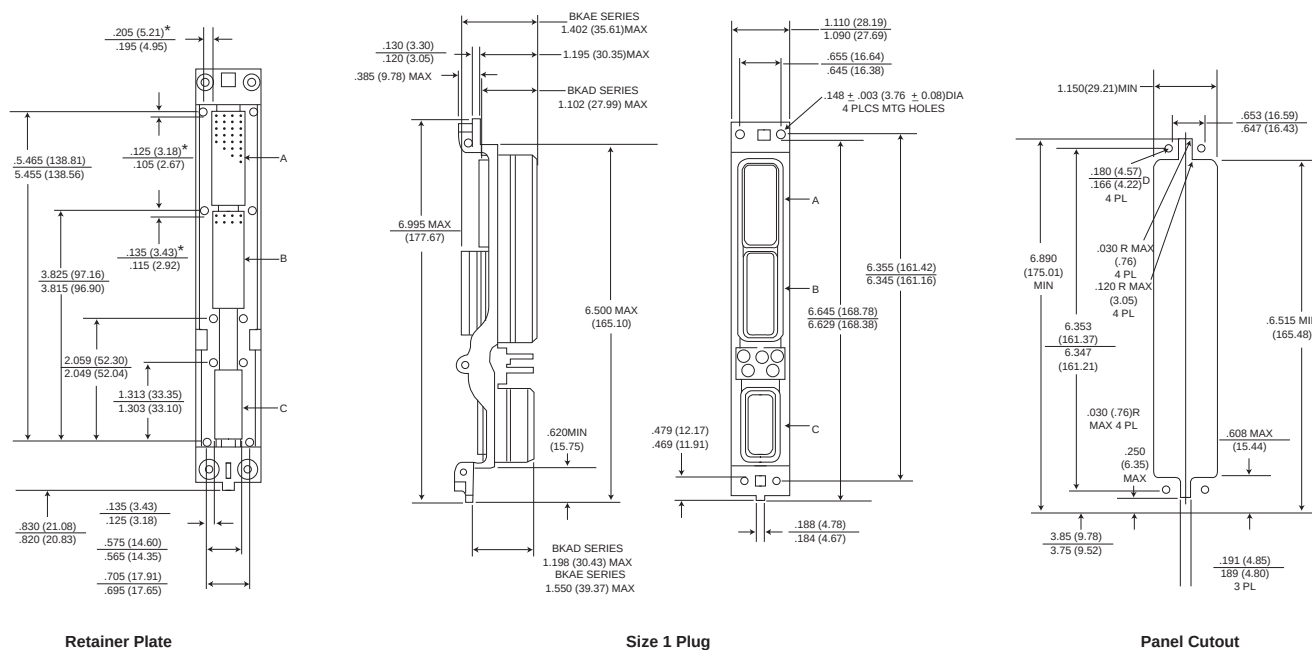
SC - Front release .025(0.63) D. x .375 (9.53) solder post and crimp, rear release power contacts (when applicable) supplied with connector  
SD - Front release .025(0.63) D. x .500 (12.7) solder post and crimp, rear release power contacts (when applicable) supplied with connector  
WA - Front release .025(0.63) Sq. x .250 (6.35) (1 wrap) wrap post and crimp, rear release power contacts (when applicable) supplied with connector  
WB - Front release .025(0.63) Sq. x .375 (9.53) (2 wraps) wrap post and crimp, rear release power contacts (when applicable) supplied with connector

WC - Front release .025(0.63) Sq. x 500 (12.7) (3 wraps) wrap post and crimp, rear release power contacts (when applicable) supplied with connector  
WD - Front release .025 (0.64) Sq. x 641 (16.28) (3 wraps) wrap post and crimp, rear release power contacts (when applicable) supplied with connector

NOTE: COAXIAL CONTACTS TO BE ORDERED SEPARATELY

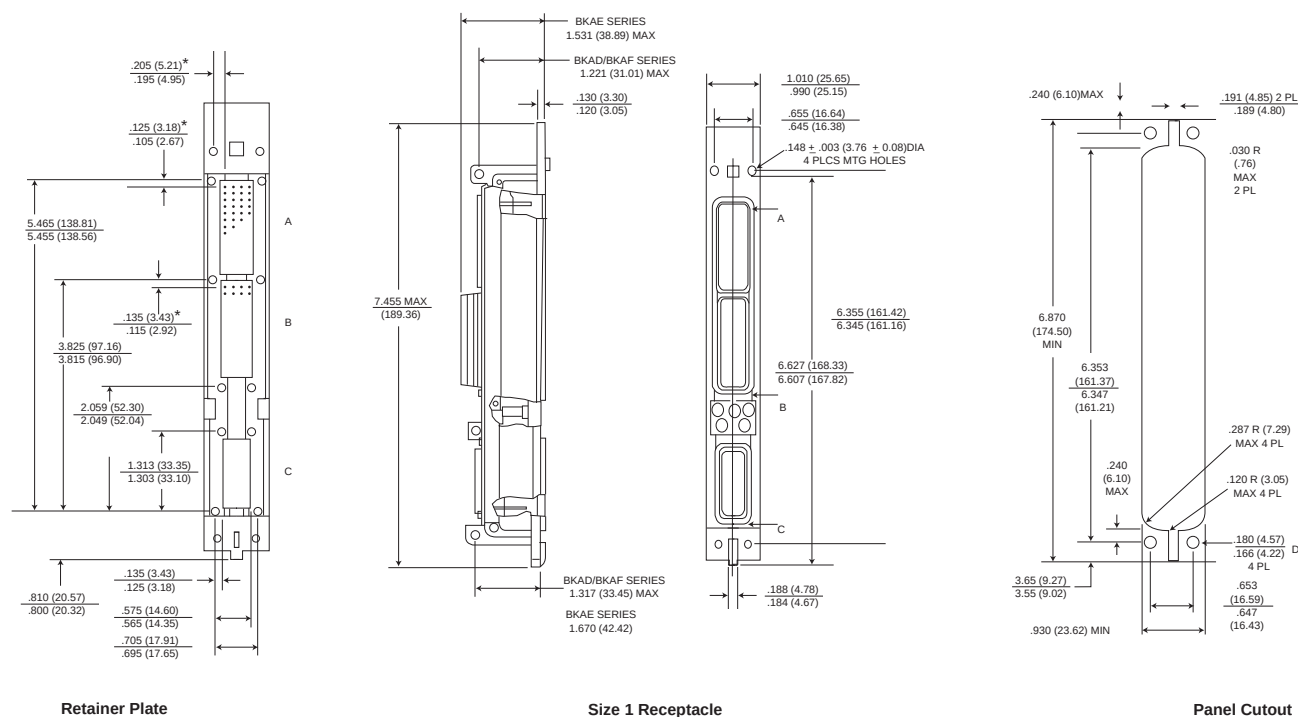
## Shell Dimensions - Size 1

## Plug



For further information, refer to ARINC 600 specification or consult factory.

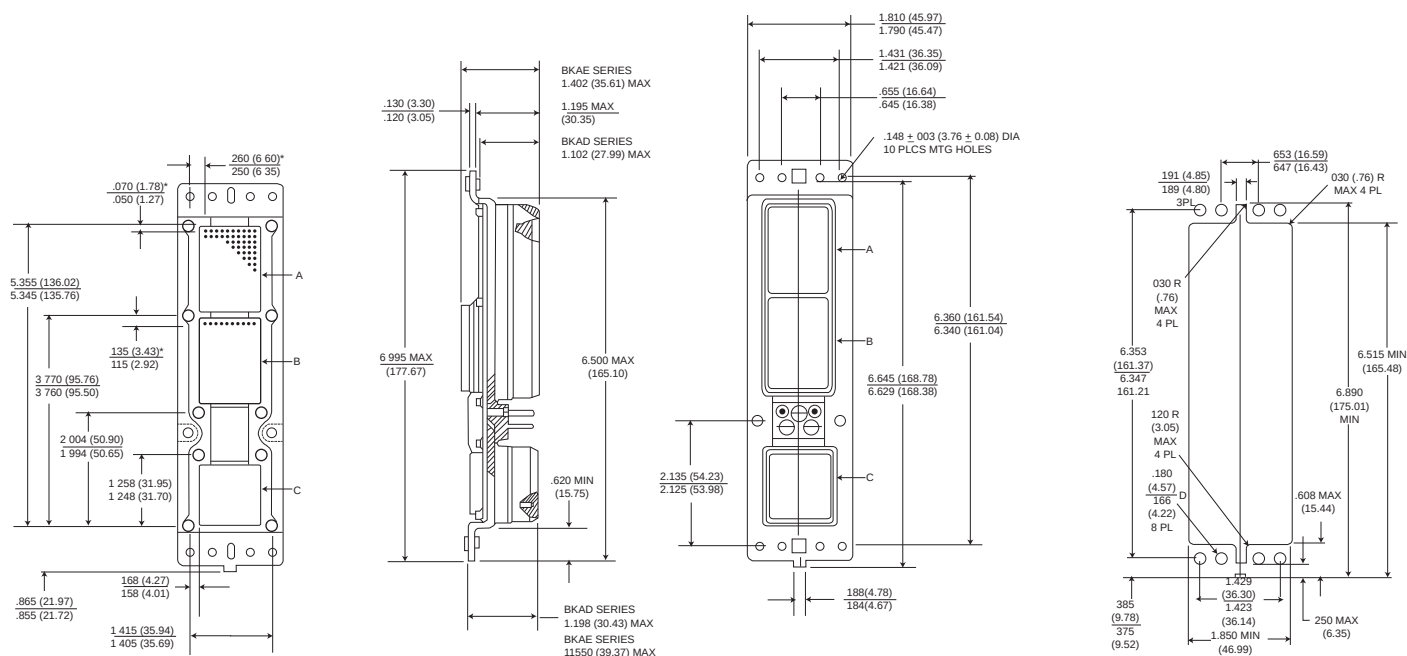
## Receptacle



For further information, refer to ARINC 600 specification or consult factory.

## Shell Dimensions - Size 2

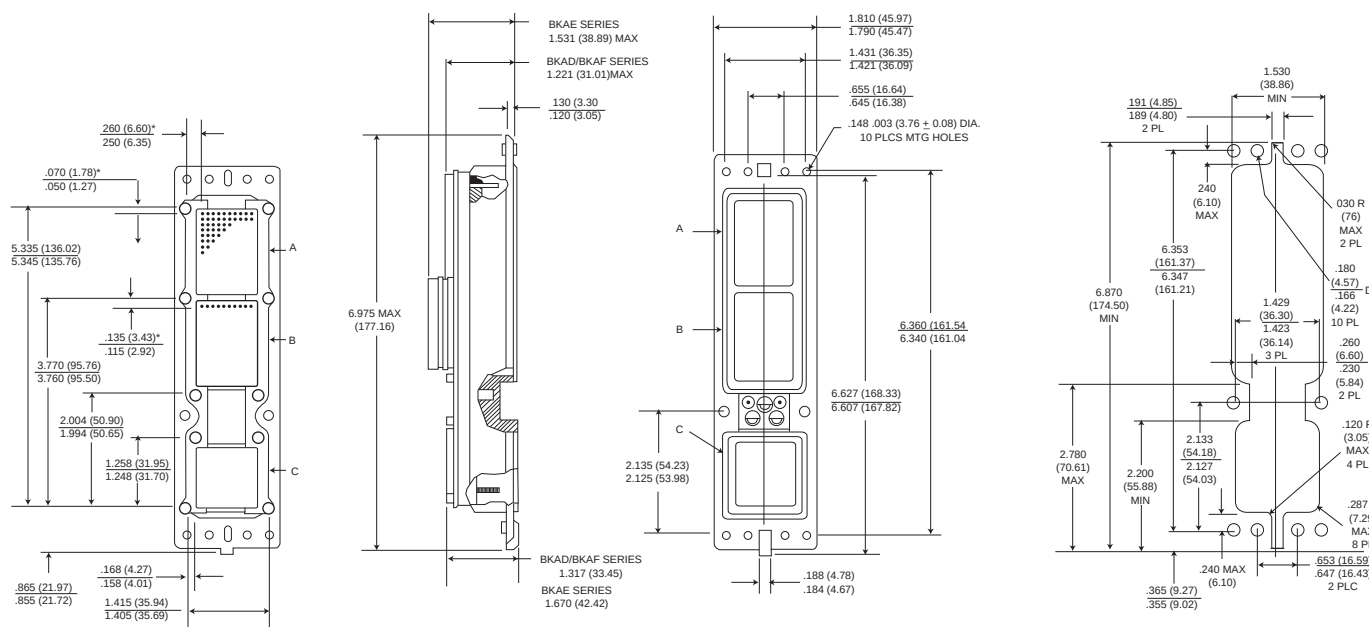
## Plug



\* This dimension indicates distance from centerline of retaining screw to the centerline of first contact cavity.

For further information, refer to ARINC 600 specification or consult factory.

## Receptacle

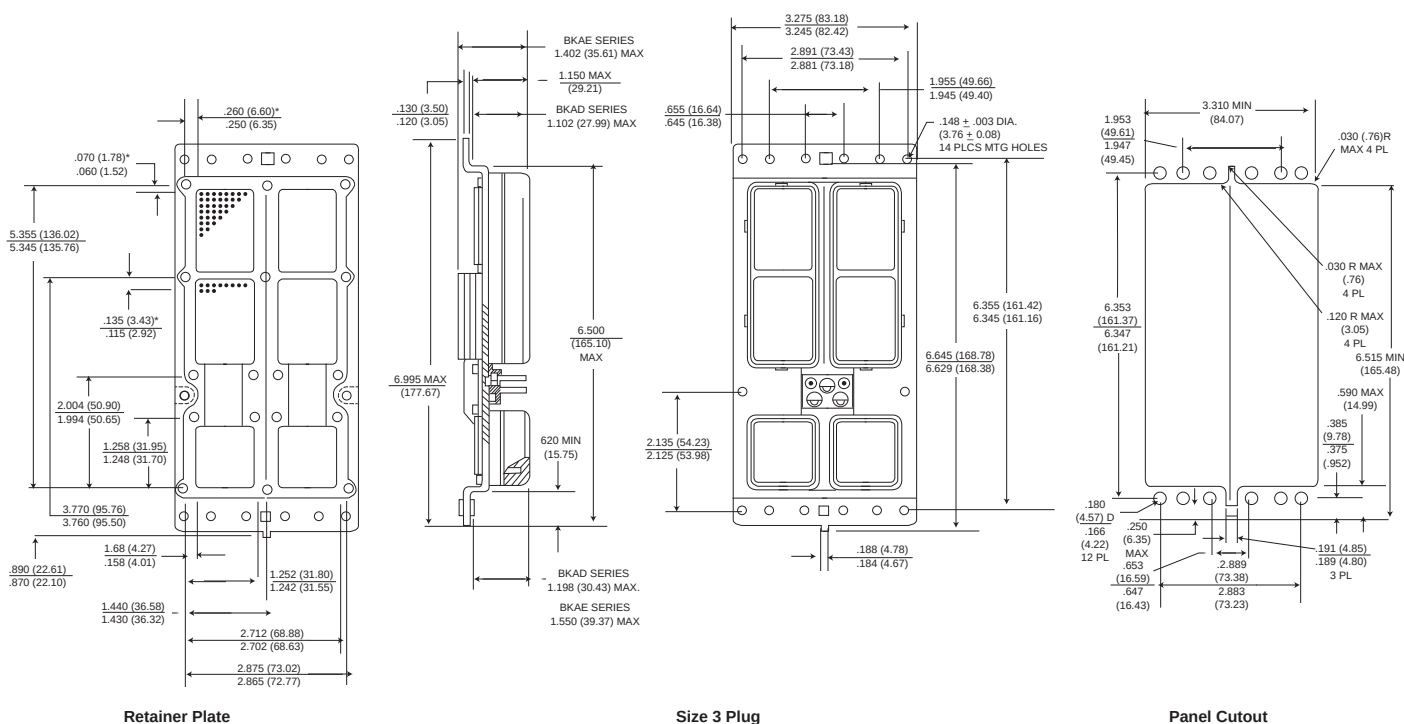


\*This dimension indicates distance from centerline of retaining screw to the centerline of first contact cavity.

For further information, refer to ARINC 600 specification or consult factory.

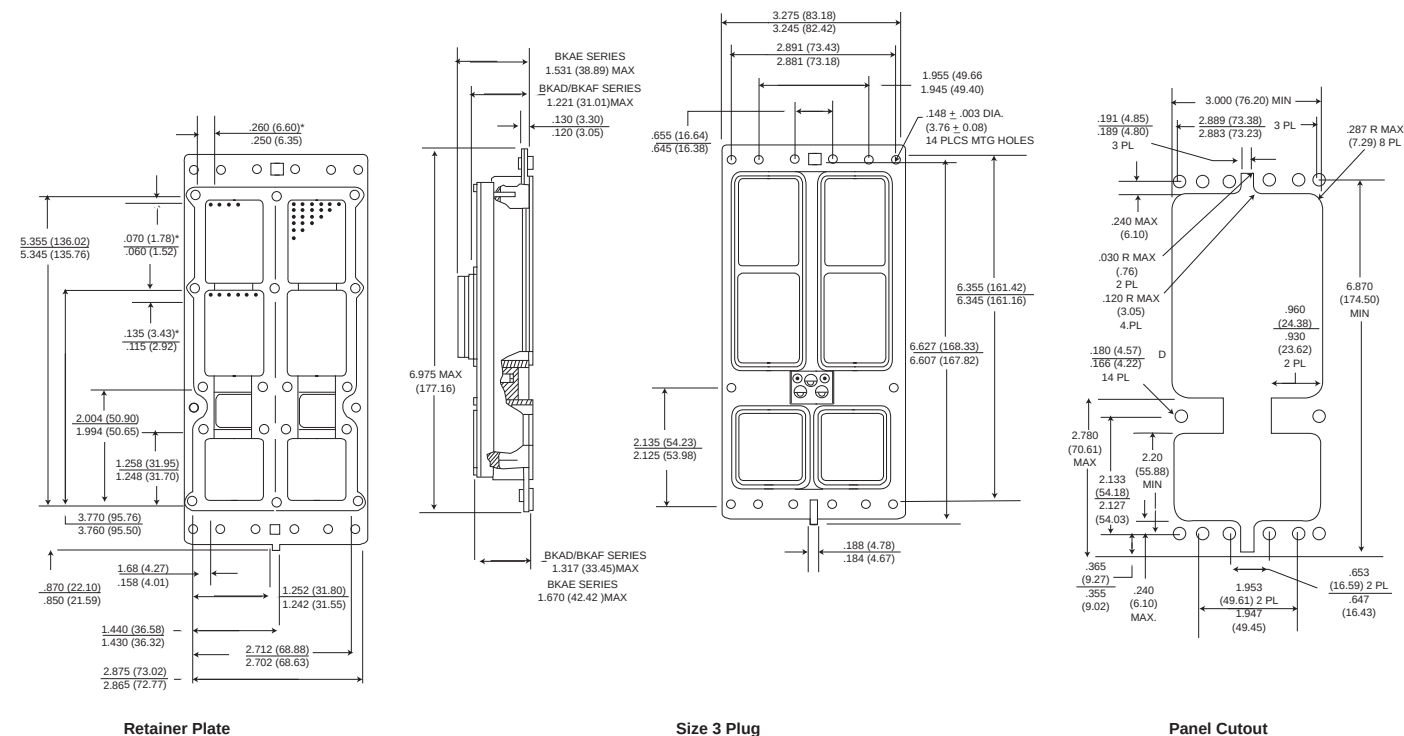
## Shell Dimensions - Size 3

## Plug



For further information, refer to ARINC 600 specification or consult factory.

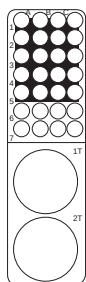
## Receptacle



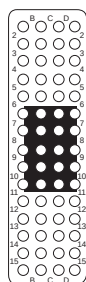
For further information, refer to ARINC 600 specification or consult factory.

## Contact Arrangements - Shell Size 1

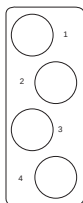
## BKAD/BKAE (Plug Rear face shown)

Shell Cavity  
A or B

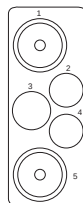
30T2  
28 #22  
2 #8 TWINAX/COAX  
(#8 Grounded to Shell)



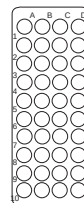
60  
60 #22

Shell Cavity  
C

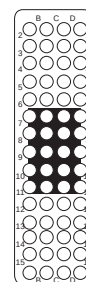
4  
4 #12



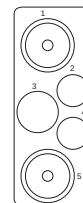
5W2  
1 #12  
2 #16  
2 #5 COAX



40  
40 #22

BKAF - Available Receptacle Shell Only  
(Front Release)Shell Cavity  
A or B

60  
60 #22

Shell Cavity  
C

5W2  
1 #12  
2 #16  
2 #5 COAX

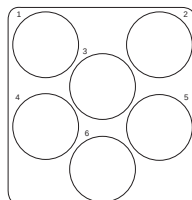
REAR SURFACE WHITE ON BLUE TO INDICATE REAR RELEASE REAR REMOVAL CONTACTS

ENGAGING END SURFACE WHITE ON RED TO INDICATE FRONT RELEASE FRONT REMOVAL CONTACTS

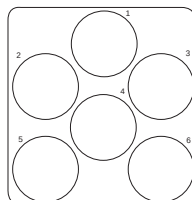
(For Contact Cavity Location and Contact Cavity Identification refer to ARINC 600 or consult factory)

## Contact Arrangements - Shell Sizes 2 and 3

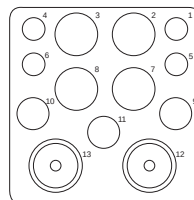
## BKAD/BKAE (Plug Rear face shown)

Shell Cavity  
C or F

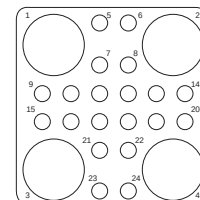
6\*\*  
6 #8



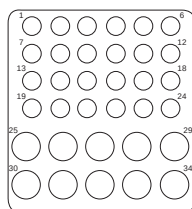
6T6\*\*  
6 #8  
(Metallic Insert)



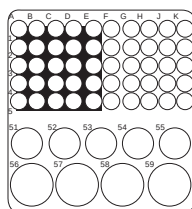
13W2  
4 #20, 4 #12, 3 #16  
2 #5 COAX



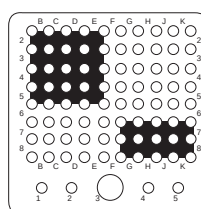
24T4\*\*  
20 #20, 4 #8



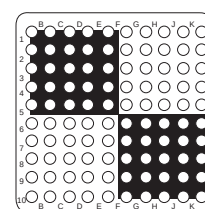
34\*\*  
24 #20, 10 #18



59\*\*  
50 #22, 5 #16, 4 #12



85  
80 #22, 4 #20, 1 #16



100  
100 #22

\*\*Pending ARINC release.

NOTE: In layouts using #22 contacts mixed with any other contact size (20HD, 16, 12), the size #22 contact type (pin or socket) determines the insulator as a pin insert or a socket insert.

REAR SURFACE WHITE ON BLUE TO INDICATE REAR RELEASE, REAR REMOVAL CONTACTS FOR INSERTS CONTAINING STANDARD SIGNAL &amp; POWER CONTACTS

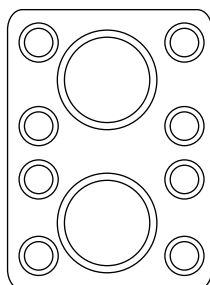
(For Contact Cavity Location and Contact Cavity Identification refer to ARINC 600 or consult factory)

## Contact Arrangements - Shell Sizes 2 and 3

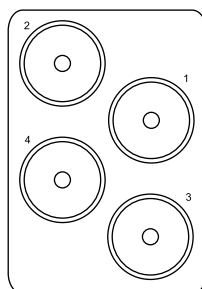
BKAD/BKAE (Plug Rear face shown)

Shell Cavity

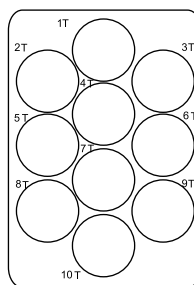
A,B,D,E



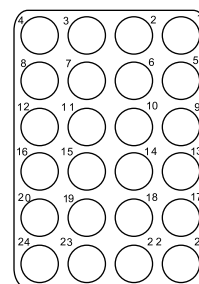
**2W2**  
2 #1 COAX



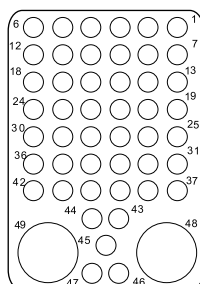
**4W4**  
4 Modified  
#1 COAX  
(Metallic Insert)



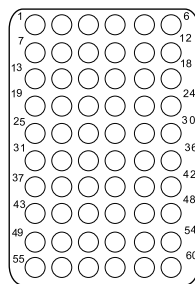
**10T10\*\***  
10 #8 TRIAX/COAX  
(#8 Grounded to Shell)  
(Metallic Insert)



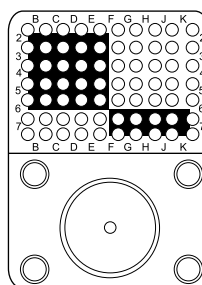
**24\*\***  
24 #12



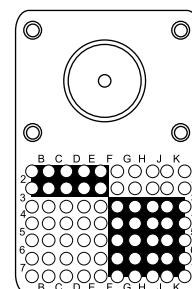
**49T2\*\***  
47 #20  
2 #8



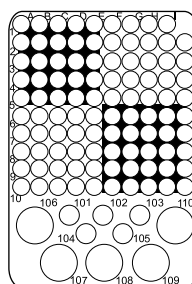
**60\*\***  
60 #20



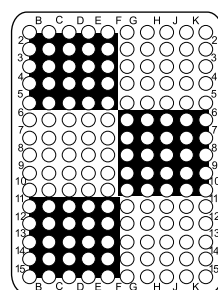
**71W1**  
70 #22  
1 #1 COAX



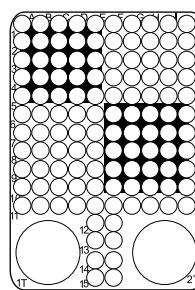
**71W1B**  
70 #22  
1 #1 COAX



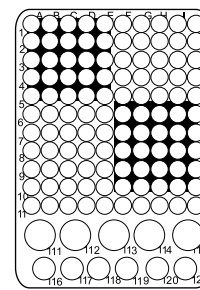
**110\*\***  
100 #22  
5 #12 & 5 #20



**150**  
150 #22



**120T2\*\***  
118 #22  
2 #8 TWINAX/COAX  
(#8 Grounded to Shell)



**121\*\***  
110 #22  
5 #16  
6 #20

\*\* Pending ARINC release.

REAR SURFACE WHITE ON BLUE TO INDICATE REAR RELEASE. REAR REMOVAL CONTACTS FOR INSERTS CONTAINING STANDARD SIGNAL &amp; POWER CONTACTS

(For Contact Cavity Location and Contact Cavity Identification refer to ARINC 600 or consult factory)



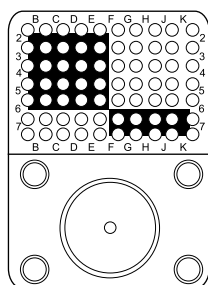
## Contact Arrangements - Shell Sizes 2 and 3

BKAF - Available Receptacle Shell ONLY

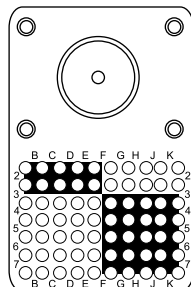
(Front Release)

SHELL CAVITY

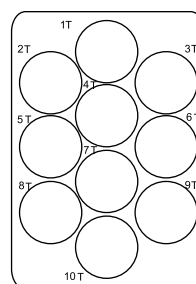
A, B, D, E,



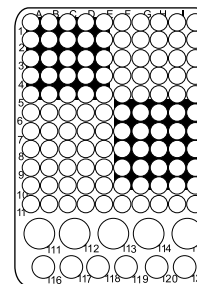
**71W1**  
**70 #22**



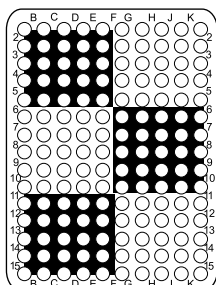
**71W1B**  
**70 #22**



**10T10\*\***  
**10 #8**



**121F\*\***  
**110 #22**  
**6 #20**  
**5 #16**



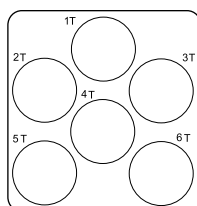
**150**  
**150 #22**

ENGAGING END SURFACE WHITE ON RED TO INDICATE FRONT RELEASE FRONT REMOVAL CONTACTS FOR INSERTS CONTAINING STANDARD SIGNAL & POWER CONTACTS

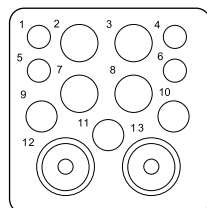
BKAF - Available Receptacle Shell ONLY

(Front Release)

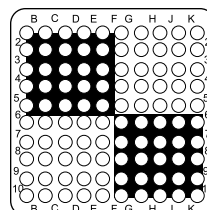
SHELL CAVITY C, F



**6T6\*\***  
**6 #8**



**13W2**  
**4 #20**  
**3 #16**  
**4 #12**  
**2 #5 COAX**



**100**  
**100 #22**

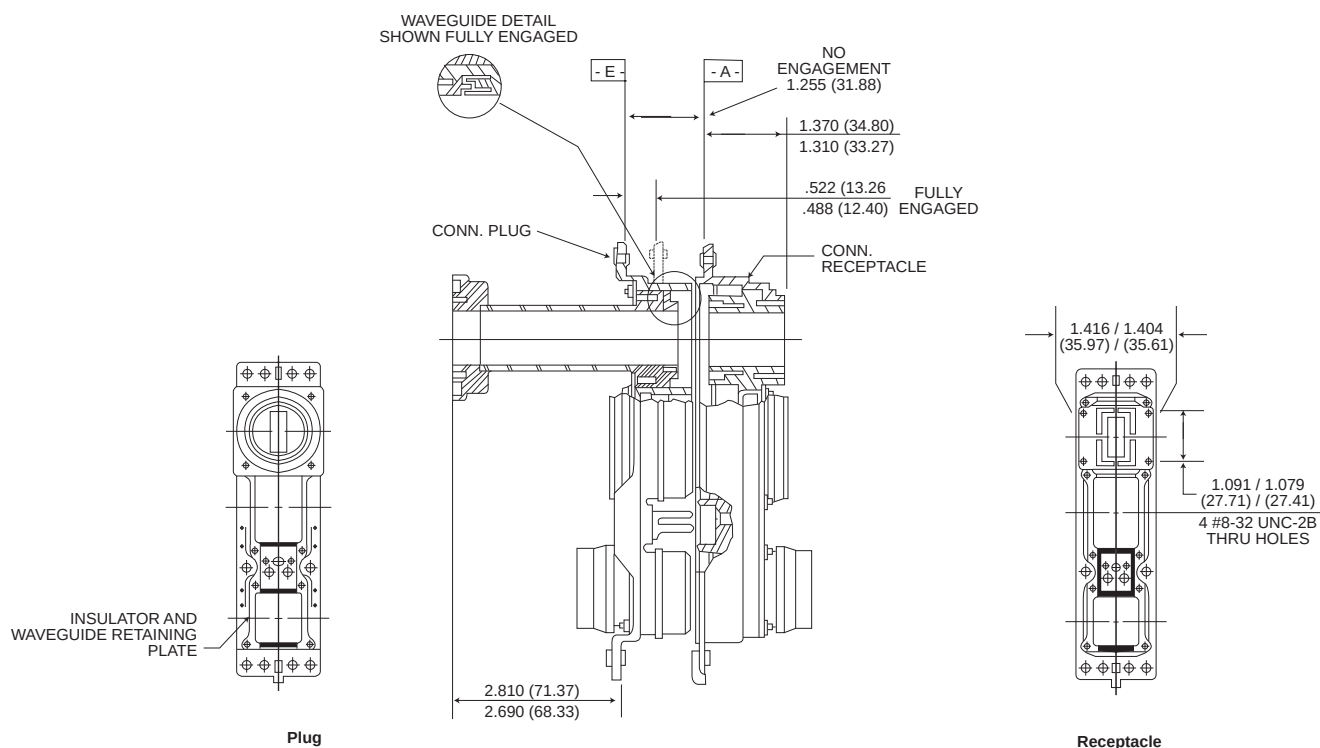
\*\* Pending ARINC release.

NOTE #22 CONTACTS ARE SOCKETS, 20HD,16, 12 ARE PIN CONTACTS.

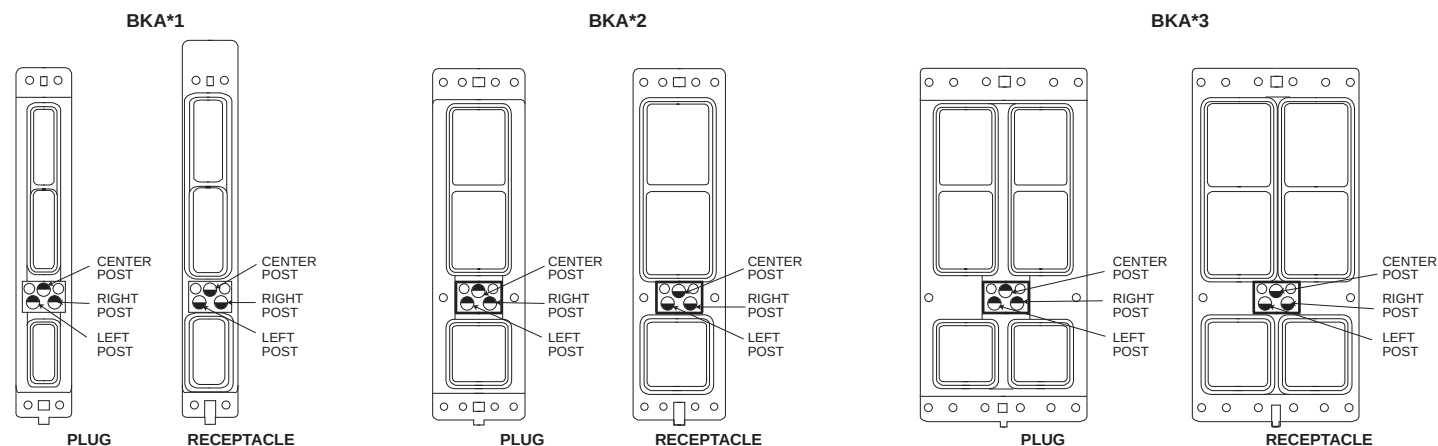
ENGAGING END SURFACE WHITE ON RED TO INDICATE FRONT RELEASE, FRONT REMOVAL CONTACTS FOR INSERTS CONTAINING STANDARD SIGNAL & POWER CONTACTS

(For Contacts Cavity Location and Contact Cavity Identification refer to ARINC 600 or Consult Factory)

## Waveguide Connections



## Polarization (Engaging End)



## Polarizing Positions

POST



Kit P/N 320-1067-003

KEY



Kit P/N 320-1067-000

| Plug Shell |           |             |            |          |           |             |            |          |           |             |            | Receptacle Shell |           |             |            |          |           |             |            |          |           |             |            |
|------------|-----------|-------------|------------|----------|-----------|-------------|------------|----------|-----------|-------------|------------|------------------|-----------|-------------|------------|----------|-----------|-------------|------------|----------|-----------|-------------|------------|
| Position   | Left Post | Center Post | Right Post | Position | Left Post | Center Post | Right Post | Position | Left Post | Center Post | Right Post | Position         | Left Post | Center Post | Right Post | Position | Left Post | Center Post | Right Post | Position | Left Post | Center Post | Right Post |
| 01         | 1         | 1           | 1          | 76       | 4         | 3           | 1          | 151      | 1         | 5           | 6          | 01               | 4         | 4           | 4          | 76       | 4         | 2           | 1          | 151      | 5         | 6           | 4          |
| 02         | 2         | 1           | 1          | 77       | 5         | 3           | 1          | 152      | 2         | 5           | 6          | 02               | 4         | 4           | 3          | 77       | 4         | 2           | 6          | 152      | 5         | 6           | 3          |
| 03         | 3         | 1           | 1          | 78       | 6         | 3           | 1          | 153      | 3         | 5           | 6          | 03               | 4         | 4           | 2          | 78       | 4         | 2           | 5          | 153      | 5         | 6           | 2          |
| 04         | 4         | 1           | 1          | 79       | 1         | 3           | 6          | 154      | 4         | 5           | 6          | 04               | 4         | 4           | 1          | 79       | 5         | 2           | 4          | 154      | 5         | 6           | 1          |
| 05         | 5         | 1           | 1          | 80       | 2         | 3           | 6          | 155      | 5         | 5           | 6          | 05               | 4         | 4           | 6          | 80       | 5         | 2           | 3          | 155      | 5         | 6           | 6          |
| 06         | 6         | 1           | 1          | 81       | 3         | 3           | 6          | 156      | 6         | 5           | 6          | 06               | 4         | 4           | 5          | 81       | 5         | 2           | 2          | 156      | 5         | 6           | 5          |
| 07         | 1         | 1           | 6          | 82       | 4         | 3           | 6          | 157      | 1         | 5           | 5          | 07               | 5         | 4           | 4          | 82       | 5         | 2           | 1          | 157      | 6         | 6           | 4          |
| 08         | 2         | 1           | 6          | 83       | 5         | 3           | 6          | 158      | 2         | 5           | 5          | 08               | 5         | 4           | 3          | 83       | 5         | 2           | 6          | 158      | 6         | 6           | 3          |
| 09         | 3         | 1           | 6          | 84       | 6         | 3           | 6          | 159      | 3         | 5           | 5          | 09               | 5         | 4           | 2          | 84       | 5         | 2           | 5          | 159      | 6         | 6           | 2          |
| 10         | 4         | 1           | 6          | 85       | 1         | 3           | 5          | 160      | 4         | 5           | 5          | 10               | 5         | 4           | 1          | 85       | 6         | 2           | 4          | 160      | 6         | 6           | 1          |
| 11         | 5         | 1           | 6          | 86       | 2         | 3           | 5          | 161      | 5         | 5           | 5          | 11               | 5         | 4           | 6          | 86       | 6         | 2           | 3          | 161      | 6         | 6           | 6          |
| 12         | 6         | 1           | 6          | 87       | 3         | 3           | 5          | 162      | 6         | 5           | 5          | 12               | 5         | 4           | 5          | 87       | 6         | 2           | 2          | 162      | 6         | 6           | 5          |
| 13         | 1         | 1           | 5          | 88       | 4         | 3           | 5          | 163      | 1         | 5           | 4          | 13               | 6         | 4           | 4          | 88       | 6         | 2           | 1          | 163      | 1         | 6           | 4          |
| 14         | 2         | 1           | 5          | 89       | 5         | 3           | 5          | 164      | 2         | 5           | 4          | 14               | 6         | 4           | 3          | 89       | 6         | 2           | 6          | 164      | 1         | 6           | 3          |
| 15         | 3         | 1           | 5          | 90       | 6         | 3           | 5          | 165      | 3         | 5           | 4          | 15               | 6         | 4           | 2          | 90       | 6         | 2           | 5          | 165      | 1         | 6           | 2          |
| 16         | 4         | 1           | 5          | 91       | 1         | 3           | 4          | 166      | 4         | 5           | 4          | 16               | 6         | 4           | 1          | 91       | 1         | 2           | 4          | 166      | 1         | 6           | 1          |
| 17         | 5         | 1           | 5          | 92       | 2         | 3           | 4          | 167      | 5         | 5           | 4          | 17               | 6         | 4           | 6          | 92       | 1         | 2           | 3          | 167      | 1         | 6           | 6          |
| 18         | 6         | 1           | 5          | 93       | 3         | 3           | 4          | 168      | 6         | 5           | 4          | 18               | 6         | 4           | 5          | 93       | 1         | 2           | 2          | 168      | 1         | 6           | 5          |
| 19         | 1         | 1           | 4          | 94       | 4         | 3           | 4          | 169      | 1         | 5           | 3          | 19               | 1         | 4           | 4          | 94       | 1         | 2           | 1          | 169      | 2         | 6           | 4          |
| 20         | 2         | 1           | 4          | 95       | 5         | 3           | 4          | 170      | 2         | 5           | 3          | 20               | 1         | 4           | 3          | 95       | 1         | 2           | 6          | 170      | 2         | 6           | 3          |
| 21         | 3         | 1           | 4          | 96       | 6         | 3           | 4          | 171      | 3         | 5           | 3          | 21               | 1         | 4           | 2          | 96       | 1         | 2           | 5          | 171      | 2         | 6           | 2          |
| 22         | 4         | 1           | 4          | 97       | 1         | 3           | 3          | 172      | 4         | 5           | 3          | 22               | 1         | 4           | 1          | 97       | 2         | 2           | 4          | 172      | 2         | 6           | 1          |
| 23         | 5         | 1           | 4          | 98       | 2         | 3           | 3          | 173      | 5         | 5           | 3          | 23               | 1         | 4           | 6          | 98       | 2         | 2           | 3          | 173      | 2         | 6           | 6          |
| 24         | 6         | 1           | 4          | 99       | 3         | 3           | 3          | 174      | 6         | 5           | 3          | 24               | 1         | 4           | 5          | 99       | 2         | 2           | 2          | 174      | 2         | 6           | 5          |
| 25         | 1         | 1           | 3          | 100      | 4         | 3           | 3          | 175      | 1         | 5           | 2          | 25               | 2         | 4           | 4          | 100      | 2         | 2           | 1          | 175      | 3         | 6           | 4          |
| 26         | 2         | 1           | 3          | 101      | 5         | 3           | 3          | 176      | 2         | 5           | 2          | 26               | 2         | 4           | 3          | 101      | 2         | 2           | 6          | 176      | 3         | 6           | 3          |
| 27         | 3         | 1           | 3          | 102      | 6         | 3           | 3          | 177      | 3         | 5           | 2          | 27               | 2         | 4           | 2          | 102      | 2         | 2           | 5          | 177      | 3         | 6           | 2          |
| 28         | 4         | 1           | 3          | 103      | 1         | 3           | 2          | 178      | 4         | 5           | 2          | 28               | 2         | 4           | 1          | 103      | 3         | 2           | 4          | 178      | 3         | 6           | 1          |
| 29         | 5         | 1           | 3          | 104      | 2         | 3           | 2          | 179      | 5         | 5           | 2          | 29               | 2         | 4           | 6          | 104      | 3         | 2           | 3          | 179      | 3         | 6           | 6          |
| 30         | 6         | 1           | 3          | 105      | 3         | 3           | 2          | 180      | 6         | 5           | 2          | 30               | 2         | 4           | 5          | 105      | 3         | 2           | 2          | 180      | 3         | 6           | 5          |
| 31         | 1         | 1           | 2          | 106      | 4         | 3           | 2          | 181      | 1         | 6           | 1          | 31               | 3         | 4           | 4          | 106      | 3         | 2           | 1          | 181      | 4         | 5           | 4          |
| 32         | 2         | 1           | 2          | 107      | 5         | 3           | 2          | 182      | 2         | 6           | 1          | 32               | 3         | 4           | 3          | 107      | 3         | 2           | 6          | 182      | 4         | 5           | 3          |
| 33         | 3         | 1           | 2          | 108      | 6         | 3           | 2          | 183      | 3         | 6           | 1          | 33               | 3         | 4           | 2          | 108      | 3         | 2           | 5          | 183      | 4         | 5           | 2          |
| 34         | 4         | 1           | 2          | 109      | 1         | 4           | 1          | 184      | 4         | 6           | 1          | 34               | 3         | 4           | 1          | 109      | 4         | 1           | 4          | 184      | 4         | 5           | 1          |
| 35         | 5         | 1           | 2          | 110      | 2         | 4           | 1          | 185      | 5         | 6           | 1          | 35               | 3         | 4           | 6          | 110      | 4         | 1           | 3          | 185      | 4         | 5           | 6          |
| 36         | 6         | 1           | 2          | 111      | 3         | 4           | 1          | 186      | 6         | 6           | 1          | 36               | 3         | 4           | 5          | 111      | 4         | 1           | 2          | 186      | 4         | 5           | 5          |
| 37         | 1         | 2           | 1          | 112      | 4         | 4           | 1          | 187      | 1         | 6           | 6          | 37               | 4         | 3           | 4          | 112      | 4         | 1           | 1          | 187      | 5         | 5           | 4          |
| 38         | 2         | 2           | 1          | 113      | 5         | 4           | 1          | 188      | 2         | 6           | 6          | 38               | 4         | 3           | 3          | 113      | 4         | 1           | 6          | 188      | 5         | 5           | 3          |
| 39         | 3         | 2           | 1          | 114      | 6         | 4           | 1          | 189      | 3         | 6           | 6          | 39               | 4         | 3           | 2          | 114      | 4         | 1           | 5          | 189      | 5         | 5           | 2          |
| 40         | 4         | 2           | 1          | 115      | 1         | 4           | 6          | 190      | 4         | 6           | 6          | 40               | 4         | 3           | 1          | 115      | 5         | 1           | 4          | 190      | 5         | 5           | 1          |
| 41         | 5         | 2           | 1          | 116      | 2         | 4           | 6          | 191      | 5         | 6           | 6          | 41               | 4         | 3           | 6          | 116      | 5         | 1           | 3          | 191      | 5         | 5           | 6          |
| 42         | 6         | 2           | 1          | 117      | 3         | 4           | 6          | 192      | 6         | 6           | 6          | 42               | 4         | 3           | 5          | 117      | 5         | 1           | 2          | 192      | 5         | 5           | 5          |
| 43         | 1         | 2           | 6          | 118      | 4         | 4           | 6          | 193      | 1         | 6           | 5          | 43               | 5         | 3           | 4          | 118      | 5         | 1           | 1          | 193      | 6         | 5           | 4          |
| 44         | 2         | 2           | 6          | 119      | 5         | 4           | 6          | 194      | 2         | 6           | 5          | 44               | 5         | 3           | 3          | 119      | 5         | 1           | 6          | 194      | 6         | 5           | 3          |
| 45         | 3         | 2           | 6          | 120      | 6         | 4           | 6          | 195      | 3         | 6           | 5          | 45               | 5         | 3           | 2          | 120      | 5         | 1           | 5          | 195      | 6         | 5           | 2          |
| 46         | 4         | 2           | 6          | 121      | 1         | 4           | 5          | 196      | 4         | 6           | 5          | 46               | 5         | 3           | 1          | 121      | 6         | 1           | 4          | 196      | 6         | 5           | 1          |
| 47         | 5         | 2           | 6          | 122      | 2         | 4           | 5          | 197      | 5         | 6           | 5          | 47               | 5         | 3           | 6          | 122      | 6         | 1           | 3          | 197      | 6         | 5           | 6          |
| 48         | 6         | 2           | 6          | 123      | 3         | 4           | 5          | 198      | 6         | 6           | 5          | 48               | 5         | 3           | 5          | 123      | 6         | 1           | 2          | 198      | 6         | 5           | 5          |
| 49         | 1         | 2           | 5          | 124      | 4         | 4           | 5          | 199      | 1         | 6           | 4          | 49               | 6         | 3           | 4          | 124      | 6         | 1           | 1          | 199      | 1         | 5           | 4          |
| 50         | 2         | 2           | 5          | 125      | 5         | 4           | 5          | 200      | 2         | 6           | 4          | 50               | 6         | 3           | 3          | 125      | 6         | 1           | 6          | 200      | 1         | 5           | 3          |
| 51         | 3         | 2           | 5          | 126      | 6         | 4           | 5          | 201      | 3         | 6           | 4          | 51               | 6         | 3           | 2          | 126      | 6         | 1           | 5          | 201      | 1         | 5           | 2          |
| 52         | 4         | 2           | 5          | 127      | 1         | 4           | 4          | 202      | 4         | 6           | 4          | 52               | 6         | 3           | 1          | 127      | 1         | 1           | 4          | 202      | 1         | 5           | 1          |
| 53         | 5         | 2           | 5          | 128      | 2         | 4           | 4          | 203      | 5         | 6           | 4          | 53               | 6         | 3           | 6          | 128      | 1         | 1           | 3          | 203      | 1         | 5           | 6          |
| 54         | 6         | 2           | 5          | 129      | 3         | 4           | 4          | 204      | 6         | 6           | 4          | 54               | 6         | 3           | 5          | 129      | 1         | 1           | 2          | 204      | 1         | 5           | 5          |
| 55         | 1         | 2           | 4          | 130      | 4         | 4           | 4          | 205      | 1         | 6           | 3          | 55               | 1         | 3           | 4          | 130      | 1         | 1           | 1          | 205      | 2         | 5           | 4          |
| 56         | 2         | 2           | 4          | 131      | 5         | 4           | 4          | 206      | 2         | 6           | 3          | 56               | 1         | 3           | 3          | 131      | 1         | 1           | 6          | 206      | 2         | 5           | 3          |
| 57         | 3         | 2           | 4          | 132      | 6         | 4           | 4          | 207      | 3         | 6           | 3          | 57               | 1         | 3           | 2          | 132      | 1         | 1           | 5          | 207      | 2         | 5           | 2          |
| 58         | 4         | 2           | 4          | 133      | 1         | 4           | 3          | 208      | 4         | 6           | 3          | 58               | 1         | 3           | 1          | 133      | 2         | 1           | 4          | 208      | 2         | 5           | 1          |
| 59         | 5         | 2           | 4          | 134      | 2         | 4           | 3          | 209      | 5         | 6           | 3          | 59               | 1         | 3           | 6          | 134      | 2         | 1           | 3          | 209      | 2         | 5           | 6          |
| 60         | 6         | 2           | 4          | 135      | 3         | 4           | 3          | 210      | 6         | 6           | 3          | 60               | 1         | 3           | 5          | 135      | 2         | 1           | 2          | 210      | 2         | 5           | 5          |
| 61         | 1         | 2           | 3          | 136      | 4         | 4           | 3          | 211      | 1         | 6           | 2          | 61               | 2         | 3           | 4          | 136      | 2         | 1           | 1          | 211      | 3         | 5           | 4          |
| 62         | 2         | 2           | 3          | 137      | 5         | 4           | 3          | 212      | 2         | 6           | 2          | 62               | 2         | 3           | 3          | 137      | 2         | 1           | 6          | 212      | 3         | 5           | 3          |
| 63         | 3         | 2           | 3          | 138      | 6         | 4           | 3          | 213      | 3         | 6           | 2          | 63               | 2         | 3           | 2          | 138      | 2         | 1           | 5          | 213      | 3         | 5           | 2          |
| 64         | 4         | 2           | 3          | 139      | 1         | 4           | 2          | 214      | 4         | 6           | 2          | 64               | 2         | 3           | 1          | 139      | 3         | 1           | 4          | 214      | 3         | 5           | 1          |
| 65         | 5         | 2           | 3          | 140      | 2         | 4           | 2          | 215      | 5         | 6           | 2          | 65               | 2         | 3           | 6          | 140      | 3         | 1           | 3          | 215      | 3         | 5           | 6          |
| 66         | 6         | 2           |            |          |           |             |            |          |           |             |            |                  |           |             |            |          |           |             |            |          |           |             |            |

## Contact and Termination Tooling Data

## BKA\* (LIF) Crimp Contacts

| Contact Size and Part Numbers |                               |                                | Crimp Tooling   |                  |                     |                 |                  | Insertion/Extraction Tooling |                                        |                                      |                           | Wire Size      |                   |                          |
|-------------------------------|-------------------------------|--------------------------------|-----------------|------------------|---------------------|-----------------|------------------|------------------------------|----------------------------------------|--------------------------------------|---------------------------|----------------|-------------------|--------------------------|
| Part Numbers                  |                               |                                | Tool P/N        |                  | Se-<br>lec-<br>tor# | Locator P/N     |                  | MIL<br>Spec.                 | ITT Cannon                             |                                      |                           | AWG            | Insul<br>Dia. Max | Strip<br>Length          |
| Size                          | Pin                           | Socket                         | MIL<br>Spec.    | ITT<br>Cannon    |                     | Mil Spec.       | ITT<br>Cannon    |                              | Insertion                              | Extraction                           | Ins./Ext.                 |                |                   |                          |
| 2222                          | Used in Plug<br>030-2259-000  | Used in Recep.<br>031-1287-000 | M22520<br>/2-01 | 995-0001-<br>584 | 3<br>3<br>4         | M22520<br>/2-23 | 995-0002-<br>015 | M81969<br>/1-01              | CIT-DPXMA-22-1<br>Metal<br>070256-0000 | CET-DPXMA-22<br>Metal<br>070317-0000 | 980-0004-804<br>Metal Tip | 26<br>24<br>22 | .054<br>(1.4)     | .130/.110<br>(3.3)/(2.8) |
| 2020HD                        | Used in Recep<br>030-2273-000 | Used in Plug<br>031-1302-000   | M22520<br>/2-01 | 995-0001-<br>584 | 6<br>7              | M22520<br>/2-08 | 995-0001-<br>604 | M81969<br>/1-02              | -                                      | -                                    | 980-0004-805<br>Metal Tip | 22<br>20       | .071<br>(1.8)     | .167/.147<br>(4.2)/(3.7) |
| 1616                          | Used in Recep<br>030-2280-000 | Used in Plug<br>031-1303-000   | M22520<br>/1-01 | 995-0001-<br>585 | 4<br>5<br>6         | M22520<br>/1-02 | 995-0001-<br>736 | M81969<br>/1-03              | -                                      | CET 16-9<br>Plastic                  | 980-0004-806<br>Metal Tip | 20<br>18<br>16 | .103<br>(2.6)     | .207/.230<br>(6.9)/(5.8) |
| 1212                          | Used in Recep<br>030-2286-000 | Used in Plug<br>031-1308-000   | M22520<br>/1-01 | 995-0001-<br>585 | 7<br>8              | M22520<br>/1-11 | 995-0002-<br>027 | M81969<br>/14-04             | -                                      | CET 12-4<br>Plastic                  | CIET-12<br>Plastic        | 14<br>12       | .135<br>(3.4)     | .270/.230<br>(6.9)/(5.8) |

## BKA\* Thermocouple Contacts

| Contact Size and Part Numbers |                              |                                | Crimp Tooling   |                 |                     |                 |                  | Insertion/Extraction Tooling |                                        |                                      |                           | Wire Size      |                   |                          |
|-------------------------------|------------------------------|--------------------------------|-----------------|-----------------|---------------------|-----------------|------------------|------------------------------|----------------------------------------|--------------------------------------|---------------------------|----------------|-------------------|--------------------------|
| Part Number                   |                              |                                | Tool P/N        |                 | Se-<br>lec-<br>tor# | Locator P/N     |                  | MIL<br>Spec.                 | ITT Cannon                             |                                      |                           | AWG            | Insul<br>Dia. Max | Strip<br>Length          |
| Size                          | Pin                          | Socket                         | MIL<br>Spec.    | ITT<br>Cannon   |                     | Mil Spec.       | ITT<br>Cannon    |                              | Insertion                              | Extraction                           | Ins./Ext.                 |                |                   |                          |
| 2222<br>Alumel                | Used in Plug<br>030-1975-009 | Used in Recep.<br>031-1113-009 | M22520<br>/2-01 | 995-0001<br>584 | 3<br>3<br>4         | M22520<br>/2-23 | 995-0002-<br>015 | M81969<br>/1-01              | CIT-DPXMA-22-1<br>Metal<br>070256-0000 | CET-DPXMA-22<br>Metal<br>070317-0000 | 980-0004-804<br>Metal Tip | 26<br>24<br>22 | .054<br>(1.4)     | .130/.110<br>(3.3)/(2.8) |
| 2222<br>Chromel               | Used in Plug<br>030-1975-010 | Used in Recep.<br>031-1113-010 |                 |                 |                     |                 |                  |                              |                                        |                                      |                           |                |                   |                          |

## BKAF-ARINC 600 Size 22 Wrap Post Socket Contacts With .025(6.35) Square Wire-Wrappable Tails-Receptacle Only.

The new low insertion force, front-insertable, front-removable #22 socket contacts with .025(6.35) square wire wrappable tails are now available for use in the BKAF non-environmental receptacle version only.

These contacts can be sold separately or they can be supplied with a connector (see How to Order). Use part numbers shown in the table on the right when ordering separately.

| Contact Mod. | Part Number  | Number of Wraps | Min. Post Extension | Extraction Tool |
|--------------|--------------|-----------------|---------------------|-----------------|
| WA           | 031-1351-000 | 1               | .250 (6.35)         | CET-BKAF 22S    |
| WB           | 031-1351-001 | 2               | .375 (9.52)         |                 |
| WC           | 031-1351-002 | 3               | .500 (12.70)        |                 |
| WD           | 031-1351-003 | 3               | .641 (16.28)        |                 |

## BKAF Printed Circuit Solder Post Socket Contacts Size 22 with .025(6.35) Dia. Printed Circuit Tails-Receptacle Only.

The new low insertion force, front-insertable, front-removable #22 socket contacts with .025(6.35) dia., PC tails are now available for use in the BKAF non-environmental receptacle version only.

These contacts can be sold separately or they can be supplied with a connector (see How to Order). Use part numbers shown in the table on the right when ordering separately.

| Contact Mod. | Part Number  | Min. Post Extension | Extraction Tool |
|--------------|--------------|---------------------|-----------------|
| SA           | 031-1352-000 | .150 (3.81)         | CET-BKAF 22S    |
| SB           | 031-1352-001 | .250 (6.35)         |                 |
| SC           | 031-1351-002 | .375 (9.52)         |                 |
| SD           | 031-1352-003 | .500 (12.70)        |                 |

## BKAD/F Solder Post, Power Pin Contacts (Captive)-Receptacle Only.

Contacts are captivated between two unbonded insulator halves.

| Contact Size | Part Number  | Post Dia.   | Min. Post Extension* |
|--------------|--------------|-------------|----------------------|
| 2D HD        | 030-2358-000 | .032 (0.81) | .150 (3.81)          |
| 16           | 030-2357-000 | .050 (1.27) | .150 (3.81)          |
| 12           | 030-2356-000 | .081 (2.06) | .150 (3.81)          |

\*Consult factory for other available lengths

## BKAF Solder Post Pin Contact Front Release

| Contact Size | Part Number  | Post Dia.   | Min. Post Extension | Extraction Tool |
|--------------|--------------|-------------|---------------------|-----------------|
| 20HD         | 030-3287-000 | .030 (0.76) | .300* (7.62)        | 317-1798-00     |
| 16HD         | 030-3287-001 | .050 (1.27) | .300* (7.62)        | 317-1798-02     |
| 12HD         | 030-3287-002 | .081 (2.06) | .300* (7.62)        | 317-1798-02     |

\*Applies to BKAF 13W2 and 5W2 inserts only

## Front Release Pin Contacts Size 20 and 16

| Contact Size | Part Number  | PC Tail Dia.            | Min. Post Extension |
|--------------|--------------|-------------------------|---------------------|
| 20           | 030-3296-001 | .034 (0.86)/.030 (0.76) | .260 (6.60)         |
| 20           | 030-3296-002 | .034 (0.86)/.030 (0.76) | .385 (9.78)         |
| 16           | 030-3297-001 | .052 (1.32)/.048 (1.22) | .260 (6.60)         |
| 16           | 030-3297-002 | .052 (1.32)/.048 (1.22) | .385 (9.78)         |
| 16           | 030-3297-005 | .052 (1.32)/.048 (1.22) | .300 (7.62)         |
| 20           | 030-3296-004 | .034 (0.86)/.030 (0.76) | .300 (7.62)         |

## Size 5 Coax Contact (Rear insertable/removable)

Crimp Center Contact-Conforming to ARINC 600

| Cable Accommodation         | Part Number                |                         | Crimp Tooling  |              |         |              |              |              |               | Extraction Tool |
|-----------------------------|----------------------------|-------------------------|----------------|--------------|---------|--------------|--------------|--------------|---------------|-----------------|
|                             |                            |                         | Center Contact |              |         |              | Outer Shell  |              |               |                 |
|                             |                            |                         | Tool           |              | Locator |              | MIL STD      |              | ITT Cannon    |                 |
|                             | Pin (Receptacle Connector) | Socket (Plug Connector) | MIL Spec       | ITT Cannnon  | Daniels | ITT Cannon   | Frame        | Jaw          | Complete Tool |                 |
| RG-58C/U<br>BA-5903<br>(BG) | 349-0014-000               | 349-0013-000            | M22520/2-01    | 995-0001-584 | K-345   | 995-0002-049 | M22520/5-01  | M22520/5-45B | CCT-HX3-156   | CET-C8          |
| 5021K1011<br>(Raychem)      | 349-0016-000               | 349-0015-000            | M22520/2-01    | 995-0001-584 | K-345   | 995-0002-049 | M22520/5-01  | M22520/5-45B | CCT-HX3-156   | CET-C8          |
| RG-223                      | 349-1060-100               | 349-1059-000            | M22250/2-01    | 995-0001-584 | K-345   | 995-0002-049 | M22520/5-01  | M22520/5-45B | CCT-HX3-156   | CET-C8          |
| RG-400                      | -                          | 349-1003-000            | M22250/2-01    | 995-0001-584 | K-345   | 995-0002-049 | M22520/10-01 | M22520/10-23 | -             | CET-C8          |
| RG-316                      | -                          | 349-1004-000            | M22250/2-01    | 995-0001-584 | K-345   | 995-0002-049 | M22520/10-01 | M22520/10-23 | -             | CET-C8          |

## Size 12 Shielded Contact (Rear insertable/removable)

|                     | Part Number                |                         | Crimp Tooling  |              |             |              |                  |               |              | Tool         |                  |
|---------------------|----------------------------|-------------------------|----------------|--------------|-------------|--------------|------------------|---------------|--------------|--------------|------------------|
|                     |                            |                         | Center Contact |              |             |              | Outer Shell Tool |               |              |              |                  |
|                     |                            |                         | Tool P/N       |              | Locator P/N |              |                  |               |              |              |                  |
| Cable Accommodation | Pin (Receptacle Connector) | Socket (Plug Connector) | MIL Spec       | ITT Cannon   | Daniels     | ITT Cannon   | MIL Std          |               | ITT Cannon   | MIL Spec     | ITT Cannon       |
|                     |                            |                         |                |              |             |              | Frame            | Jaw           |              |              |                  |
| RG-196A/U           | 249-1767-000               | -                       | M22520/2-01    | 995-0001-584 | K-182       | 995-0002-051 | M22520/1-01      | M22520/10-05A | 995-0001-071 | M81969/28-02 | CET-12-4 Plastic |
| 5071 (HW)           | 249-1767-001               | -                       | M22520/2-01    | 995-0001-584 | K-182       | 995-0002-051 | M22520/1-01      | M22520/10-05A | 995-0001-071 | M81969/28-02 | CET-12-4 Plastic |
| RG-174/U            | -                          | 249-1768-000            | M22520/2-01    | 995-0001-584 | K-182       | 995-0002-051 | M22520/1-01      | M22520/10-05A | 995-0001-071 | M81969/28-02 | CET-12-4 Plastic |
| BMS-1348 (BG)       | -                          | 249-2203-000            | M22520/2-01    | 995-0001-584 | K-644       | 995-0002-050 | M22520/1-01      | M22520/10-05A | 995-0001-071 | M81969/28-02 | CET-12-4 Plastic |

## Size 1 Modified Coaxial Contacts (4W4 Layout Only)

Plug Connector

| Cable Accommodation | Part Number  | Style       | Coax | Replacement Termination Kits |              |
|---------------------|--------------|-------------|------|------------------------------|--------------|
|                     |              |             |      | Solder Type                  | Crimp Type   |
| RG214               | 349-1043-001 | Straight    |      | 320-1066-000                 | 320-1066-016 |
| AA-5886             | 349-1048-000 | Straight    |      | 320-1066-002                 | 320-1066-018 |
| RG393               | 349-1051-000 | Straight    |      | 320-1066-003                 | 320-1066-019 |
| ECS 311201          | 349-1046-000 | Straight    |      | 320-1066-001                 | 320-1066-017 |
| AA-5887             | 349-1049-000 | Straight    |      | 320-1066-004                 | 320-1066-013 |
| AA-5888             | 349-1050-000 | Straight    |      | 320-1066-005                 | 320-1066-014 |
| RG142               | 349-1047-000 | Straight    |      | 320-1066-006                 | 320-1066-015 |
| Various             | 349-1047-001 | TNC Adapter |      | -                            | -            |

Customer Use Drawings:

All Coax contacts (except 349-1047-001) customer use drawing #349-0000-305

Crimp termination kits: Customer use drawing #320-0000-305

Solder termination kits: Customer use drawing #320-0000-304

Receptacle Connector

| Cable Accommodation | Part Number  | Style       | Coax | Replacement Termination Kits |            |
|---------------------|--------------|-------------|------|------------------------------|------------|
|                     |              |             |      | Solder Type                  | Crimp Type |
| RG316 DS            | 349-1051-002 | Straight    |      | 320-1066-008                 | N/A        |
| RG142               | 349-1044-000 | Straight    |      | 320-1066-007                 | N/A        |
| Various             | 349-1042-000 | SMA Adapter |      | -                            | -          |

Customer Use Drawings:

Coax contacts 349-1051-002 and 349-1044-000 are located on customer use drawing #349-0000-304

Coax contacts 349-1042-000 is located on customer use drawing #320-1042-000

**Sizes 1 Coax Contacts (71W1 layout only)**

Same standard coax contacts as used in ITT Cannon's DPX (ARINC 404) connector series.

**Receptacle Connector**

| Cable Accommodation                        | Coax Part Number | Style    | Replacement Coax Termination Kit | Replacement Coax Body Assembly |
|--------------------------------------------|------------------|----------|----------------------------------|--------------------------------|
| RG-9/U<br>RG-214/U                         | 249-1521-000     |          | 249-1521-002                     | 021-0144-000                   |
| NSA 935354<br>NSA 935355                   | -                |          | 249-2201-000                     |                                |
| RG-55/U<br>RG-58/U<br>RG-142/U<br>RG-400/U | 249-1554-000     | Straight | 249-1554-002                     | 021-0144-003                   |
| RG-58/U<br>RG-142/U<br>RG-225/U            | 249-1604-001     | 90°      | 249-1604-003                     | 021-0144-006                   |
| RG-402/U<br>UT-141                         | 249-1604-002     |          |                                  |                                |
| RG-402/U<br>UT-141                         | 249-5027-008     | Straight | 249-5027-016                     | 021-0144-001                   |
| SMA Jack Termination                       | 249-5027-017     | Straight | -                                | -                              |

**Plug Connector**

| Cable Accommodation      | Coax Part Number | Style    | Replacement Coax Termination Kit | Replacement Coax Body Assembly |
|--------------------------|------------------|----------|----------------------------------|--------------------------------|
| RG-9/U                   | 249-1522-000     | Straight | 249-1522-002                     | 021-0144-004                   |
| NSA 935354<br>NSA 935355 | -                |          | 249-2202-000                     |                                |
| RG-58/U<br>RG-142/U      | 249-1882-000     |          |                                  |                                |
| RG-402/U                 | 249-1885-002     | Straight | 320-0051-000                     | 021-0144-011                   |
| RG-214/U                 | 249-5123-000     | Straight | 249-5027-013                     | 021-0144-008                   |
| RG-115/U                 | 249-5123-001     |          | 249-5027-015                     |                                |

**Sizes 1 Coax Contacts (To be used with connectors containing 71W1A, 71W1B and 2W2 insert modifier-"M")**

Designed to be interchangeable with contacts made by other manufacturers.

**Receptacle Connector**

| Cable Accommodation                     | Part Number  | Style       |
|-----------------------------------------|--------------|-------------|
| RG-142B/U                               | 349-0021-000 | Right Angle |
| RG-402/U<br>UT-141                      | 349-0022-000 | Right Angle |
| SMA Jack Termination                    | 349-0023-000 | Straight    |
| RG-214/U<br>RG-393/U<br>BA-6903<br>(BG) | 349-0002-000 | Straight    |
| 5012H3012<br>(Raychem)                  | 349-0004-000 | Straight    |
| RG-142B/U                               | 349-0006-000 | Straight    |
| RG-402/U<br>UT-141                      | 349-0008-000 | Straight    |

**Plug Connector**

| Cable Accommodation    | Standard Size 1 Part Number | Modular Size 1 Part Number | Termination Kit for Modular Size 1 Coax | Style    |
|------------------------|-----------------------------|----------------------------|-----------------------------------------|----------|
| RG-214/U               | 349-0017-000                | 349-1053-003               | 320-1066-000                            | Straight |
| RG-393/U               | 349-0017-000                | -                          | -                                       |          |
| BA-6903                | 349-0017-000                | 349-1053-007               | 320-1066-003                            |          |
| 5012H3012<br>(Raychem) | 349-0018-000                | -                          | -                                       | Straight |
| RG-142B/U              | 349-0005-000                | 349-1053-006               | 320-1066-006                            | Straight |
| RG-402/U<br>UT-141     | 349-0007-000                | -                          | -                                       | Straight |
| AA-5888                | -                           | 349-1053-008               | 320-1066-005                            | Straight |
| ECS-310801             | -                           | 349-1053-005               | -                                       | Straight |
| AA-5886                | -                           | 349-1053-004               | 320-1066-002                            | Straight |
| BSX-7004-502           | -                           | 349-1053-003               | -                                       | Straight |
| ECS-311201             | -                           | 349-1053-002               | 320-1066-001                            | Straight |
| AA-5887                | -                           | 349-1053-001               | 320-1066-004                            | Straight |
| Adam Russell<br>PC-38  | -                           | 349-1053-000               | -                                       | Straight |

## Size 8 Coaxial Contacts

## Plug Connector

| Contact Type<br>Socket<br>Part Number | *Engagement |      | **Termination  |                |                       |                      | RF Cable<br>Number              |
|---------------------------------------|-------------|------|----------------|----------------|-----------------------|----------------------|---------------------------------|
|                                       | Short       | Long | Crimp<br>RR-RR | Crimp<br>FR-RR | Solder<br>.250 (6.35) | FR-FR<br>.375 (9.52) |                                 |
| 349-1087-000                          | -           | -    | X              |                |                       |                      | Adams-Russell Co. Inc.<br>FC11Z |
| 349-1087-001                          | -           | -    | X              |                |                       |                      | Adams-Russell Co. Inc.<br>FC14Z |

## Receptacle Connector

| Contact Type<br>Socket<br>Part Number | *Engagement |      | **Termination  |                |                      |                       | RF Cable<br>Number              |
|---------------------------------------|-------------|------|----------------|----------------|----------------------|-----------------------|---------------------------------|
|                                       | Short       | Long | Crimp<br>RR-RR | Crimp<br>FR-RR | FR-FR<br>.250 (6.35) | Solder<br>.375 (9.52) |                                 |
| 349-1084-000                          | -           | X    |                |                | X                    |                       |                                 |
| 349-1084-001                          | X           | -    |                |                | X                    |                       |                                 |
| 349-1084-002                          | -           | X    |                |                |                      | X                     |                                 |
| 349-1084-003                          | X           | -    |                |                |                      | X                     |                                 |
| 349-1086-000                          | -           | X    |                | X              |                      |                       | Adams-Russell Co. Inc.<br>FC11Z |
| 349-1086-001                          | -           | X    |                | X              |                      |                       | Adams-Russell Co. Inc.<br>FC14Z |

## Size 8 Twinax Contacts

## Plug Connector

| Contact Type<br>Socket<br>Part Number | *Engagement |      | **Termination  |                |                       |                      | RF Cable<br>Number                    |
|---------------------------------------|-------------|------|----------------|----------------|-----------------------|----------------------|---------------------------------------|
|                                       | Short       | Long | Crimp<br>RR-RR | Crimp<br>FR-RR | Solder<br>.250 (6.35) | FR-FR<br>.375 (9.52) |                                       |
| 349-1006-000                          | -           | -    | X              |                |                       |                      | M17/176-00002                         |
| 349-1081-000                          | -           | -    | X              |                |                       |                      | Tensolite Co.<br>24463/9 B017X-2 (LD) |

## Receptacle Connector

| Contact Type<br>Socket<br>Part Number | *Engagement |      | **Termination  |                |                       |                      | RF Cable<br>Number                    |
|---------------------------------------|-------------|------|----------------|----------------|-----------------------|----------------------|---------------------------------------|
|                                       | Short       | Long | Crimp<br>RR-RR | Crimp<br>FR-RR | Solder<br>.250 (6.35) | FR-FR<br>.375 (9.52) |                                       |
| 349-1007-000                          | -           | -    | X              |                |                       |                      | M17/176-00002                         |
| 349-1080-000                          | X           | -    |                |                | X                     |                      |                                       |
| 349-1080-001                          | -           | X    |                |                | X                     |                      |                                       |
| 349-1080-002                          | X           | -    |                |                |                       | X                    |                                       |
| 349-1080-003                          | -           | X    |                |                |                       | X                    |                                       |
| 349-1082-000                          | X           | -    |                | X              |                       |                      | Tensolite Co.<br>24463/9 B017X-2 (LD) |
| 349-1082-001                          | -           | X    |                | X              |                       |                      | Tensolite Co.<br>24463/9 B017X-2 (LD) |
| 349-1088-000                          | -           | X    | X              |                |                       |                      | Tensolite Co.<br>24463/9 B017X-2 (LD) |

## Size 8 Ground Contacts

## Plug Connector

| Contact Type<br>Socket<br>Part Number | *Engagement |      | **Termination  |                |                       |                      | Wire<br>Size |
|---------------------------------------|-------------|------|----------------|----------------|-----------------------|----------------------|--------------|
|                                       | Short       | Long | Crimp<br>RR-RR | Crimp<br>FR-RR | Solder<br>.250 (6.35) | FR-FR<br>.375 (9.52) |              |
| 031-3300-000                          | -           | -    | X              |                |                       |                      | 8, 10 AWG    |

## Receptacle Connector

| Contact Type<br>Socket<br>Part Number | *Engagement |      | **Termination  |                |                       |                      | Wire<br>Size |
|---------------------------------------|-------------|------|----------------|----------------|-----------------------|----------------------|--------------|
|                                       | Short       | Long | Crimp<br>RR-RR | Crimp<br>FR-RR | Solder<br>.250 (6.35) | FR-FR<br>.375 (9.52) |              |
| 030-3306-000                          | -           | X    |                |                | X                     |                      | 8, 10 AWG    |
| 030-3306-001                          | -           | X    |                |                |                       | X                    | 8, 10 AWG    |
| 030-3676-000                          | -           | -    |                | X              |                       |                      | 8, 10 AWG    |

\* The electrical engagement of "Long" contacts is .150 (3.81) greater than the electrical engagement of "Short" contact.

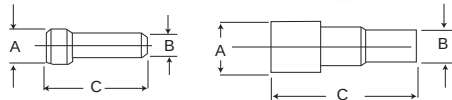
\*\*RR-RR indicates rear release, rear removal.

FR-RR indicates front release, rear removal.

FR-FR indicates front release, front removal.

## Sealing Plugs-BKAE Environmental Connectors Only

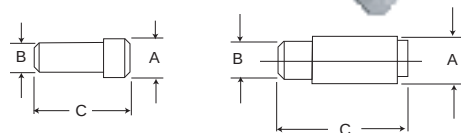
P/N 225-0090-000  
Material: Teflon  
(All others thermoplastic)



| Part Number  | Contact Size   | Color  | A          | B          | C           |
|--------------|----------------|--------|------------|------------|-------------|
| 225-1013-000 | 22             | Black  | .063 (1.6) | .040 (1.0) | .469 (11.9) |
| 225-0070-000 | 20             | Red    | .085 (2.2) | .065 (1.6) | .469 (11.9) |
| 225-0071-000 | 16             | Blue   | .115 (2.9) | .075 (1.9) | .469 (11.9) |
| 225-0072-000 | 12             | Yellow | .171 (4.3) | .121 (3.1) | .564 (14.3) |
| 225-0090-000 | #5 and #9 Coax | White  | .365 (9.3) | .287 (7.3) | .835 (21.2) |

## Filler Plugs-BKAD Non-Environmental Connectors Only

P/N 225-0099-000  
Material: Teflon  
(All others thermoplastic)



BKAF P/N 225-1058-000  
(Size 22 - Black)  
(See Customer Use Drawing for details)

| Part Number  | Contact Size            | Color  | A          | B          | C            |
|--------------|-------------------------|--------|------------|------------|--------------|
| 225-0094-000 | 22                      | Black  | .069 (1.7) | .051 (1.3) | .420 (10.7)  |
| 225-0095-000 | 20                      | Red    | .083 (2.1) | .069 (1.7) | .350 (8.9)   |
| 225-0096-000 | 16                      | Blue   | .131 (3.3) | .108 (2.7) | .320 (8.1)   |
| 225-0097-000 | 12                      | Yellow | .187 (4.7) | .156 (4.0) | .320 (8.1)   |
| 225-0098-000 | #5 Coax (Pin)           | White  | .275 (7.0) | .251 (6.4) | .450 (11.4)  |
| 225-0099-000 | #5 and #9 Coax (Socket) | White  | .275 (7.0) | .251 (6.4) | 1.061 (26.9) |

## Cavity Reducer



Pin  
P/N 021-8756-000



Socket  
P/N 021-8757-000

## #5 Coax to #12 Contact

Cavity reducers are available when additional circuits are required for size 12 power contacts. These reducers, having the internal configuration of size 12 power contact, are inserted into the size 5 coaxial insulator cavity to create size 12 power contact cavity.

## Dust Caps

Conductive dust caps protect against static electricity.



| Part Number  | Description         |
|--------------|---------------------|
| 025-1121-001 | BKAD 1-A & B-Plug   |
| 025-1122-001 | BKAD 1-C-Plug       |
| 025-1123-001 | BKAD 2&3-A & B-Plug |
| 025-1124-001 | BKAD 2&3-C-Plug     |

Note: Supplied as standard for BKA product line only.

| Part Number  | Description               |
|--------------|---------------------------|
| 025-1155-001 | BKAD 1-A&B-Receptacle     |
| 025-1156-001 | BKAD 1-C-Receptacle       |
| 025-1157-001 | BKAD 2&3-A & B-Receptacle |
| 025-1158-001 | BKAD 2&3-C-Receptacle     |



## Replaceable Inserts

| Layout   | Class | Part Number  |                 |
|----------|-------|--------------|-----------------|
|          |       | Pin Assembly | Socket Assembly |
| 2W2**    | BKAD  | 144-2944-000 | 144-2945-000    |
|          | BKAE  | 144-2944-000 | 144-2945-000    |
| A        | BKAE  | 143-1156-001 | 143-1157-001    |
| 4W4**    | BKAD  | 177-1000-002 | 177-1001-004    |
|          | BKAE  | 177-1000-002 | 177-1001-004    |
| 5W2      | BKAD  | 143-1912-000 | 143-1913-000    |
|          | BKAE  | 143-1912-001 | 143-1913-001    |
|          | BKAF  | 143-1141-000 | N/A             |
| 6        | BKAE  | 143-1154-001 | 143-1155-001    |
| 6T6      | BKAD  | 228-1026-002 | 228-1012-003    |
|          | BKAE  | 228-1026-001 | 228-1012-001    |
|          | BKAF  | N/A          | 228-1015-001    |
| 10T10    | BKAD  | 228-1027-002 | N/A             |
|          | BKAE  | 228-1027-001 | 228-1014-002    |
| 13W2     | BKAD  | 143-1908-000 | 143-1909-000    |
|          | BKAE  | 143-1908-001 | 143-1909-001    |
|          | BKAF  | 143-1142-000 | N/A             |
| 30T2     | BKAD  | 143-1173-000 | 143-1174-000    |
|          | BKAE  | 143-1173-001 | 143-1174-001    |
| 34       | BKAD  | 143-1159-001 | N/A             |
|          | BKAE  | 143-1097-005 | 143-1098-005    |
| 40       | BKAE  | 143-1171-001 | 143-1172-001    |
| 59*      | BKAE  | 143-1167-001 | 143-1170-001    |
| 60-#20** | BKAE  | 143-3714-003 | 143-3715-003    |
| 60-#22** | BKAD  | 143-1910-000 | 143-1911-000    |
|          | BKAE  | 143-1910-001 | 143-1911-001    |
|          | BKAF  | N/A          | 143-2065-000    |
| 71W1     | BKAD  | 143-1958-000 | 143-1960-000    |
|          | BKAE  | 143-1958-002 | 143-1960-002    |
|          | BKAF  | N/A          | 143-2090-000    |
| 71W1A*   | BKAD  | 143-2085-001 | 143-2086-001    |
|          | BKAE  | 143-2085-000 | 143-2086-000    |
|          | BKAF  | N/A          | 143-2066-000    |
| 71W1B    | BKAD  | 143-1113-000 | 143-1111-000    |
|          | BKAE  | 143-114-000  | 143-1112-000    |
|          | BKAF  | N/A          | 143-1118-000    |
| 85       | BKAD  | 143-3877-000 | 143-3878-000    |
|          | BKAE  | 143-3879-000 | 143-3880-000    |
|          | BKAF  | N/A          | 143-1178-000    |
| 100      | BKAD  | 143-2015-000 | 143-2016-000    |
|          | BKAE  | 143-2015-001 | 143-2016-001    |
|          | BKAF  | N/A          | 143-2067-000    |
| 110      | BKAE  | 143-1182-000 | 143-1183-000    |
| 120T2    | BKAD  | N/A          | 143-1166-002    |
|          | BKAE  | 143-1165-001 | 143-1166-001    |
|          | BKAF  | N/A          | 143-1177-000    |
| 121      | BKAD  | 143-1150-002 | 143-1158-002    |
|          | BKAE  | 143-1150-001 | 143-1158-001    |
| 150      | BKAD  | 143-1906-000 | 143-1907-000    |
|          | BKAE  | 143-1906-001 | 143-1907-001    |
|          | BKAF  | N/A          | 143-2068-000    |

Consult factory for Insert Part Numbers not listed.

\*Modified 71W1 insert to be used with connectors containing 71W1 insert modifier "M"

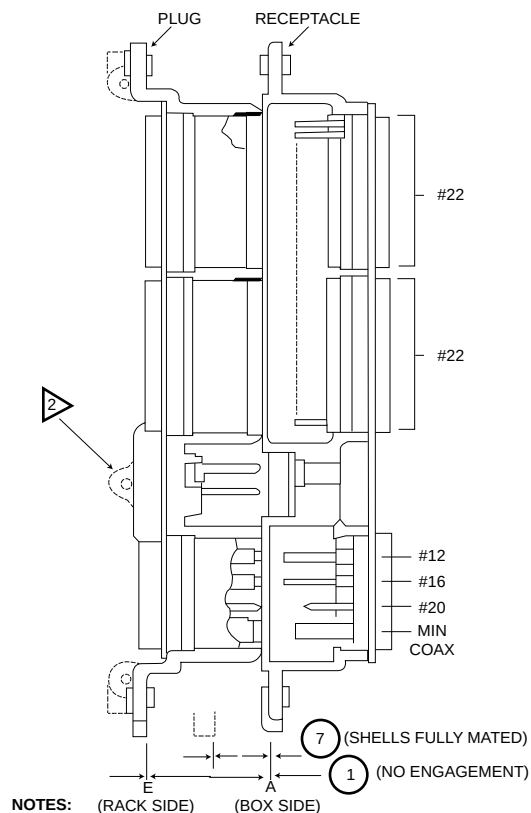
\*\*\*Pin Inserts' accept receptacle coax contacts. "Socket Inserts" accept plug coax contacts.

## Cross Reference-Part Number/Customer-Use Drawing

| COMPONENT<br>PART NUMBER                  | CUSTOMER USE<br>DRAWING NUMBER | COMPONENT<br>PART NUMBER     | CUSTOMER USE<br>DRAWING NUMBER | COMPONENT<br>PART NUMBER                | CUSTOMER USE<br>DRAWING NUMBER |
|-------------------------------------------|--------------------------------|------------------------------|--------------------------------|-----------------------------------------|--------------------------------|
| <b>Contacts</b>                           |                                | 143-1908-000                 |                                | <b>Replacement Coax Termination Kit</b> |                                |
| 030-1975-009                              | 030-1975-009                   | 143-1908-001                 | 143-0000-081                   | 249-1521-002                            | 249-1521-002                   |
| 030-1975-010                              | 030-1975-010                   | 143-1909-000                 |                                | 249-1522-009                            | 249-1522-010                   |
| 030-2259-000                              | 030-2259-000                   | 143-1909-001                 |                                | 249-1522-010                            | 249-1522-010                   |
| 030-2273-000                              | 030-2273-000                   | 143-1910-000                 |                                | 249-1554-002                            | 249-1554-002                   |
| 030-2280-000                              | 030-2280-000                   | 143-1910-001                 | 143-0000-077                   | 249-1604-003                            | 249-1604-003                   |
| 030-2286-000                              | 030-2286-000                   | 143-1911-000                 |                                | 249-1604-004                            | 249-1604-004                   |
| 030-2356-000                              | 030-2356-000                   | 143-1911-001                 |                                | 249-2201-000                            | 249-1521-002                   |
| 030-2357-000                              | 030-2357-000                   | 143-1912-000                 |                                | 249-2202-000                            | 249-1522-010                   |
| 030-2358-000                              | 030-2358-000                   | 143-1912-001                 | 143-0000-080                   | 249-5027-013                            | 249-5027-013                   |
| 031-1113-009                              | 031-1113-009                   | 143-1913-000                 |                                | 249-5027-015                            | 249-5027-007                   |
| 031-1113-010                              | 031-1113-010                   | 143-1913-001                 |                                | 249-5027-016                            | 249-5027-016                   |
| 031-1287-000                              | 031-1287-000                   | 143-1958-000                 |                                | 320-0051-000                            | 1250Y                          |
| 031-1302-000                              | 031-1302-000                   | 143-1958-002                 | 143-0000-079                   | 320-1066-000                            |                                |
| 031-1303-000                              | 031-1303-000                   | 143-1960-000                 |                                | 320-1066-001                            |                                |
| 031-1308-000                              | 031-1308-000                   | 143-1960-002                 |                                | 320-1066-002                            |                                |
| 031-1351-000                              |                                | 143-2015-000                 |                                | 320-1066-003                            | 320-000-305                    |
| 031-1351-001                              | 031-0000-343                   | 143-2015-001                 | 143-0000-078                   | 320-1066-004                            |                                |
| 031-1351-002                              |                                | 143-2016-000                 |                                | 320-1066-005                            |                                |
| 031-1351-003                              |                                | 143-2016-001                 |                                | 320-1066-006                            |                                |
| 031-1352-000                              |                                | 143-2065-000                 |                                | <b>Dust Caps</b>                        |                                |
| 031-1252-000                              | 031-0000-344                   | 143-2066-000                 | 1247Y                          | 025-1121-001                            |                                |
| 031-1252-002                              |                                | 143-2067-000                 |                                | 025-1122-001                            | 025-0000-054                   |
| 031-1352-003                              |                                | 143-2068-000                 |                                | 025-1123-001                            | (Conductive Only)              |
| <b>Replacement Coax<br/>Body Assembly</b> |                                | 143-2085-000                 |                                | 025-1124-001                            |                                |
| 021-0144-000                              | 021-0144-000                   | 143-2085-001                 | 143-0000-079                   | 025-1155-001                            |                                |
| 021-0144-001                              | 021-0144-001                   | 143-2086-000                 |                                | 025-1156-001                            | 025-0000-055                   |
| 021-0144-002                              | 021-0144-002                   | 143-2086-001                 |                                | 025-1157-001                            | (Conductive Only)              |
| 021-0144-003                              | 021-0144-003                   | <b>Size #1 Coax Contacts</b> |                                | 025-1158-001                            |                                |
| 021-0144-004                              | 021-0144-004                   | 249-1521-000                 | 249-1521-000                   | <b>Filler Plugs</b>                     |                                |
| 021-0144-006                              | 021-0144-006                   | 249-1522-000                 | 249-1522-000                   | 225-0094-000                            |                                |
| 021-0144-008                              | 021-0144-008                   | 249-1522-002                 | 249-1522-002                   | 225-0095-000                            |                                |
| 021-0144-011                              | 021-0144-011                   | 249-1554-000                 | 249-1554-000                   | 225-0096-000                            | 225-0000-014                   |
| <b>Size #5 Coax Contacts</b>              |                                | 249-1604-000                 | 249-1604-000                   | 225-0097-000                            |                                |
| 349-0013-000                              | 349-0000-000                   | 249-1604-001                 | 249-1604-001                   | 225-0098-000                            |                                |
| 349-0014-000                              | 349-0000-001                   | 249-1604-002                 | 249-1604-002                   | 225-0099-000                            |                                |
| 349-0015-000                              | 349-0000-002                   | 249-1882-000                 | 249-1882-000                   | 225-1058-000                            |                                |
| 349-0016-000                              | 349-0000-001                   | 249-1882-002                 | 1250Y                          | <b>Sealing Plugs</b>                    |                                |
| 349-1003-000                              |                                | 249-1885-002                 |                                | 225-0072-000                            | 225-0000-006                   |
| 349-1009-000                              | 349-000-301                    | 249-5027-008                 | 249-5027-008                   | 225-0090-000                            | 225-0090-000                   |
| <b>Size #12 Shielded Contact</b>          |                                | 249-5027-017                 | 249-5027-017                   | 225-1013-000                            |                                |
| 249-1767-000                              | 249-1767-000                   | 249-5123-000                 | 249-5027-000                   | 225-1014-000                            | 225-0000-008                   |
| 249-1767-001                              | 249-1767-001                   | 249-5123-001                 | 249-5027-007                   | 225-1015-000                            |                                |
| 249-1768-000                              | 249-1768-000                   | 349-1053-000                 |                                | <b>Replaceable Inserts</b>              |                                |
| 249-2203-000                              | 249-2203-000                   | 349-1053-001                 |                                | 143-1906-000                            |                                |
| <b>Replaceable Inserts</b>                |                                | 349-1053-002                 |                                | 143-1906-001                            | 143-0000-079                   |
| 143-1906-000                              |                                | 349-1053-003                 |                                | 143-1907-001                            |                                |
| 143-1906-001                              |                                | 349-1053-004                 | 349-0000-306                   | 143-1907-001                            |                                |
| 143-1907-001                              |                                | 3491053-005                  |                                |                                         |                                |
| 143-1907-001                              |                                | 349-1053-006                 |                                |                                         |                                |
|                                           |                                | 349-1053-007                 |                                |                                         |                                |
|                                           |                                | 349-1053-008                 |                                |                                         |                                |
|                                           |                                | 349-1053-009                 |                                |                                         |                                |

For part numbers not listed, consult ITT Cannon for applicable customer-use drawing.

## ARINC 600 Connector Engaging Sequence



| Mating Sequence                    | Flange Position With:           | Flange Spacing in. (mm)        |
|------------------------------------|---------------------------------|--------------------------------|
| 1                                  | No Engagement                   | 1.245 (31.62)<br>Nom.          |
| 2                                  | Shells Initially Engaged        | 1.110 (28.19)<br>1.073 (27.25) |
| 3                                  | Polarizing Pins Entering Keys   | 1.073 (27.25)<br>1.023 (25.88) |
| Contacts Entering Mating Insulator |                                 |                                |
| #22                                |                                 | .800 (22.32)<br>.748 (18.99)   |
| #20                                |                                 | .805 (20.44)<br>.741 (18.82)   |
| #16                                |                                 | 1.012 (25.70)<br>.949 (24.10)  |
| #12                                |                                 | 1.008 (23.60)<br>.953 (24.20)  |
| Miniature Coax                     |                                 | 1                              |
| Contacts Electrically Engaged      |                                 |                                |
| #22                                |                                 | .642 (16.30)<br>.547 (13.89)   |
| #20                                |                                 | .649 (16.48)<br>.553 (14.04)   |
| #16                                |                                 | .728 (18.49)<br>.818 (20.77)   |
| #12                                |                                 | .772 (19.60)<br>.692 (17.57)   |
| Miniature Coax                     |                                 | 1                              |
| 6                                  | "O" Ring Engagement (BKAE Only) | .618 (15.70)<br>.578 (14.68)   |
| 7                                  | Shells Fully Mated              | .522 (13.26)<br>.488 (12.40)   |