

# ARINC 600

RACK AND PANEL CONNECTORS



**Amphenol** CANADA  
MILITARY & AEROSPACE





For more than 50 years, Amphenol Canada Corp. a subsidiary of Amphenol Corporation has been an international leader in the manufacture of Rectangular I/O and EMI Filtered Connectors.

We design, manufacture and test EMI / EMP filter and non-filter connectors, which are used worldwide in military, aerospace, and commercial applications. As part of Amphenol Corporation, we have the advantage of access to technologies and processes of Amphenol’s worldwide facilities. Our expertise in understanding and supporting our customers’ interconnect needs has earned us a reputation of excellence among the world’s leading users of electronic components.

CUSTOMER SERVICE

At Amphenol Canada, customer service is a solid commitment from all our employees. Our product managers, application engineers, product specialists, and sales representatives are able to answer your questions and assist you in choosing the right connectors for your applications.

Using Amphenol’s on-line computer system, we are able to promptly update you on your order status, provide you with price and delivery quotations, and address any problems or questions you might have.

Whether you need standard or custom designed connectors, our marketing department is your liaison with Amphenol Canada’s engineering, quality and manufacturing experts.

QUALITY AND RELIABILITY

Certified to ISO 9001:2015+ AS9100D  
Amphenol Canada’s broad base of customers and the high levels of technology in which they are involved make it essential that Amphenol’s own products are of the highest quality and reliability.

Please contact us for RoHS requirements.



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INTRODUCTION

ARINC 600 Connectors are a recognized standard rack and panel connector for Aircraft applications. The ARINC 600 is the successor to the ARINC 404 for many of the new avionic designs. Compared to the ARINC 404, the ARINC 600 features lower mating force contacts, increased contact count and a front release, floating keying system.

Amphenol's extensive product offering will meet the most demanding needs of our customers. At the design-in stage, Amphenol's sales engineers will work with you to select a connector from our standard product line or coordinate the design of an application specific connector. Amphenol's ARINC 600 rack and panel connectors are designed to meet all relevant ARINC 600 connector specifications.

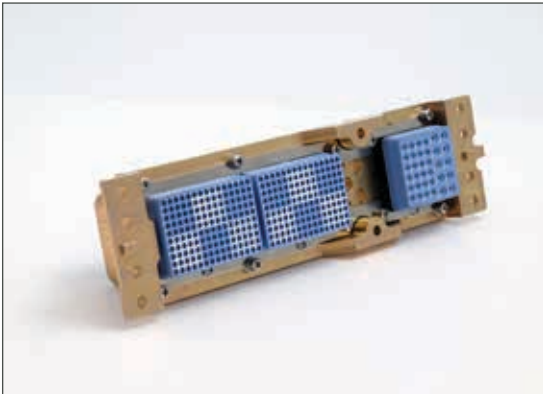
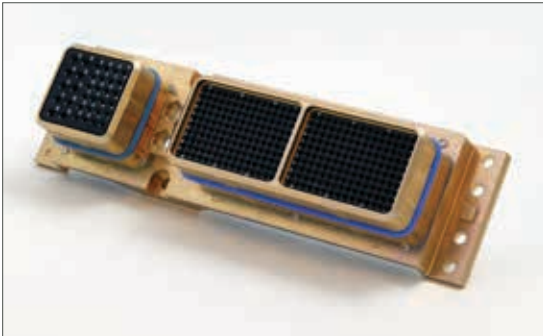
Amphenol ARINC 600 Connectors offer:

- Low insertion force contacts
- Both environmental and non-environmental versions
- Front removable keying posts
- Field replaceable inserts for size 22 and power contacts
- Up to 800 size 22 contact positions in one connector
- Crimp, coaxial, power, printed circuit, and wire wrap contacts
- Waveguide connections



Amphenol "A" Series Connectors are designed per ARINC 600 specifications and utilize pin and socket contacts manufactured in conformance with MIL-C-39029B.

| PERFORMANCE SPECIFICATIONS                 |                                                                                                                                                                                                                                                                             |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Dielectric withstanding voltage (DWV):     | 1500 Vrms<br>500 Vrms @ 50,000 ft. (15,240m)                                                                                                                                                                                                                                |
| Contact continuous current ratings:        | Size 22 - 5.0A; Size 20 - 7.5A<br>Size 16 - 13.0A; Size 12 - 23.0A                                                                                                                                                                                                          |
| Contact resistance:                        |                                                                                                                                                                                                                                                                             |
| Size 22:                                   | 8.0 milliohms, initial (max.)<br>11.0 milliohms, conditioned (max.)                                                                                                                                                                                                         |
| Size 20:                                   | 7.0 milliohms, initial (max.)<br>8.5 milliohms, conditioned (max.)                                                                                                                                                                                                          |
| Size 16:                                   | 3.5 milliohms, initial (max.)<br>5.0 milliohms, conditioned (max.)                                                                                                                                                                                                          |
| Size 12:                                   | 2.0 milliohms, initial (max.)<br>2.5 milliohms, conditioned (max.)                                                                                                                                                                                                          |
| Insulation resistance:                     | 5.0 gigaohms min. at 500 VDC                                                                                                                                                                                                                                                |
| Engagement/separation force:               | Shell size 1 - 27 lbs. (120N) max.<br>Shell size 2 - 60 lbs. (267N) max.<br>Shell size 3 - 105 lbs. (467N) max.                                                                                                                                                             |
| Durability:                                | 500 cycles min. - mating & unmating                                                                                                                                                                                                                                         |
| Temperature range:                         | -65°C (-86° F) to +125°C (+275° F)                                                                                                                                                                                                                                          |
| Fluid immersion (Class A only) resistance: | (1) Hydraulic fluid per MIL-H-5606<br>(2) Lubricating oil (synthetic) per MIL-L-23699<br>(3) 1:3 mix of isopropyl alcohol & mineral spirits per FED. SPECS. TT-I-735 & TT-T-291 respectively                                                                                |
| Vibration:                                 | MIL-STD-1344, Method 2005.1, condition value E: random - 16.4G minimum severity: 8 hours in each of 3 mutually perpendicular planes with 100mA electrical load. No visible damage, breakage, cracking or loosening of parts and no discontinuities exceeding 1 microsecond. |
| Shock:                                     | MIL-STD-1344, Method 2004.1, test condition A: Three shocks in each direction along each of 3 axes, mutually perpendicular to each other. No visible damage, breakage, cracking or loosening of parts and no discontinuities exceeding 1 microsecond.                       |



| MATERIALS                  |                             |                                                                                                                                                                                                  |
|----------------------------|-----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| DESCRIPTION                | MATERIAL                    | FINISH*                                                                                                                                                                                          |
| Shell & Backshell          | Aluminum Alloy or Composite | "Electroless Nickel, Chem Film (Mil-C-5541, Class 3), RoHS Chem Film (MIL-DTL-5541, Type II, Class 3) OD Chromate, Tin, Gold, Zinc Nickel, Yellow CAD or Nickel Fluorocarbon Polymer (Durmalon)" |
| Hardware & Polarizing Keys | Stainless Steel             | Passivated or Nickel Plated                                                                                                                                                                      |
| Inserts                    | Thermoset or Thermoplastic  | ---                                                                                                                                                                                              |
|                            | Aluminum Alloy              | Nickel Plated                                                                                                                                                                                    |
| Grommets & Face Seal       | Fluorosilicone Elastomer    | ---                                                                                                                                                                                              |
| EMI Spring                 | Copper Alloy                | Nickel Plated, Gold                                                                                                                                                                              |
| O-Ring                     | Fluorosilicone Elastomer    | ---                                                                                                                                                                                              |
| Contacts                   | Copper Alloy                | Gold over Nickel, Solder Dipping is available in both RoHS and non-RoHS Compliance                                                                                                               |

\* other platings available on request

# Next Gen Stamped & Formed Contacts

## Introduction

Introducing Amphenol Canada's ARINC 600 Next Generation Stamped & Formed Contacts Technology. Size 22 Sockets are now available in stamped and formed designs in both PCB and Compliant styles.



The Next Gen ARINC 600 is available to replace your standard inserts and contacts with this intelligent design. This will provide cost savings and 25% reduction in weight

These inserts and contacts are fully tested and in compliance with all ARINC 600 specifications. The contacts are designed using stamped and formed method with overmolding technology. They are completely inter-changeable and mateable with all existing Size 22 contacts. Contact Amphenol Canada for more information.

### PRODUCT FEATURES

- High-speed
- Compact
- Durable
- Low -cost
- Filtered

### CUSTOMIZATION

Consult Amphenool Canada for additoinal information on custom applications.



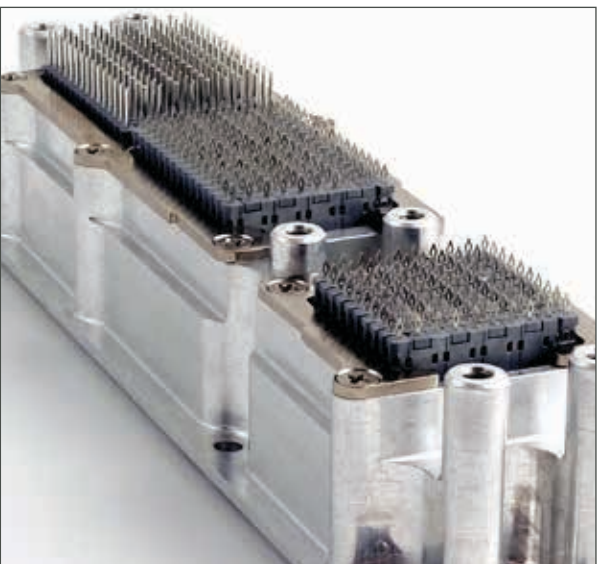
# Next Gen ARINC 600

## The Next Generation of high-quality ARINC 600 interconnect

AmphenolCANADA

### FEATURES

- Intermateable with existing plugs
- 24% weight saving
- Lower cost
- High precision stamped and formed and selectively plated, size 22 contacts
- Available in PC Tail, press-fit compliance tail
- Overmolded wafer inserts to address humidity performance and to eliminate potential solder wicking issues
- Rear removable contacts in rows of 10
- Interchangeable inserts with existing shells
- Equivalent electrical performance of conventional design
- RoHS compliant
- US patent #9,362,638



### MECHANICAL

- Shell: Aluminum allo per SAE QQA.
- Shell Plating: Nickel, yellow iridite or chem film
- Contact: High performance copper alloy with 50μ" gold plating in mating area. Tin dipped contacts with optional gold plating available
- Insulator: Thermoplastic overmolded wafers

### ENVIRONMENTAL

- Temperature Range: -65° to +125°C
- High Temperature Tolerance: 1000 hrs min. at 125°C
- Process Temperatures: 270°C for 10 sec. wave solder 260°C for 2 min. vapor phase
- Salt Spray: per MIL-STD-1344, method 1001, cond. B
- Humidity: per MIL-STD-1344, method 1002.1, type II

### ELECTRICAL

- Dielectric Withstand Voltage: Sea Level-1500 Vrms, 15,000 m: 500 Vrms
- Voltage Rating: 500 Vrms max.;125 Vrms at 15,000 m
- Insulation Resistance: 5.0 GW min. at 500 Vdc
- Size 22 Contact Current Rating: 5.0 Adc, continuous
- Contact Resistance: per MIL-STD-1344, method 3004-1

### APPLICATIONS

- |                                 |                                |
|---------------------------------|--------------------------------|
| Commercial                      | Military                       |
| • Navigation/Radar              | • Tactical/Mission Systems     |
| • Engine Controls               | • Power Distribution & Control |
| • Airframe & Landing Gear       | • Weapons Systems              |
| • In-Flight Entertainment (IFE) | • Avionics Mission Systems     |
|                                 | • Radar                        |
|                                 | • Engine Controls              |
|                                 | • Airframe & Landing Gear      |
|                                 | • Weapons Systems              |





How to Order - Next Gen  
Board Mount Receptacle's- For standard see page 9

PART NUMBER KEY

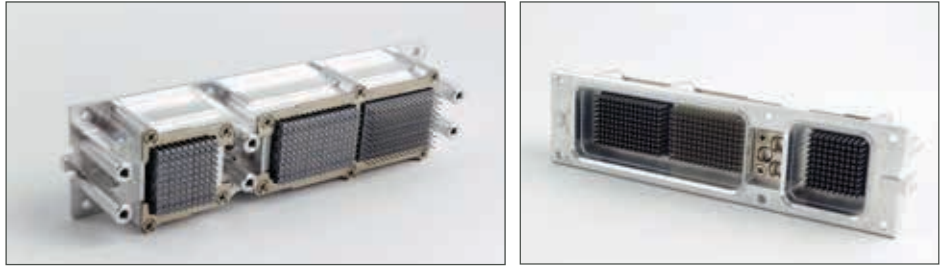
| 1. Connector Series | 2. Class | 3. Shell Style | 4. Insert Layout Designator PG 15-21 | 5. Shell Type | 6. Connector Mounting Modifier PG 22-24 | 7. Polarizing Position PG 25-27 | 8. Contact Modifier Material |
|---------------------|----------|----------------|--------------------------------------|---------------|-----------------------------------------|---------------------------------|------------------------------|
| A                   | L        | 3-             | 313-                                 | 4             | 00                                      | 01                              | NGX                          |



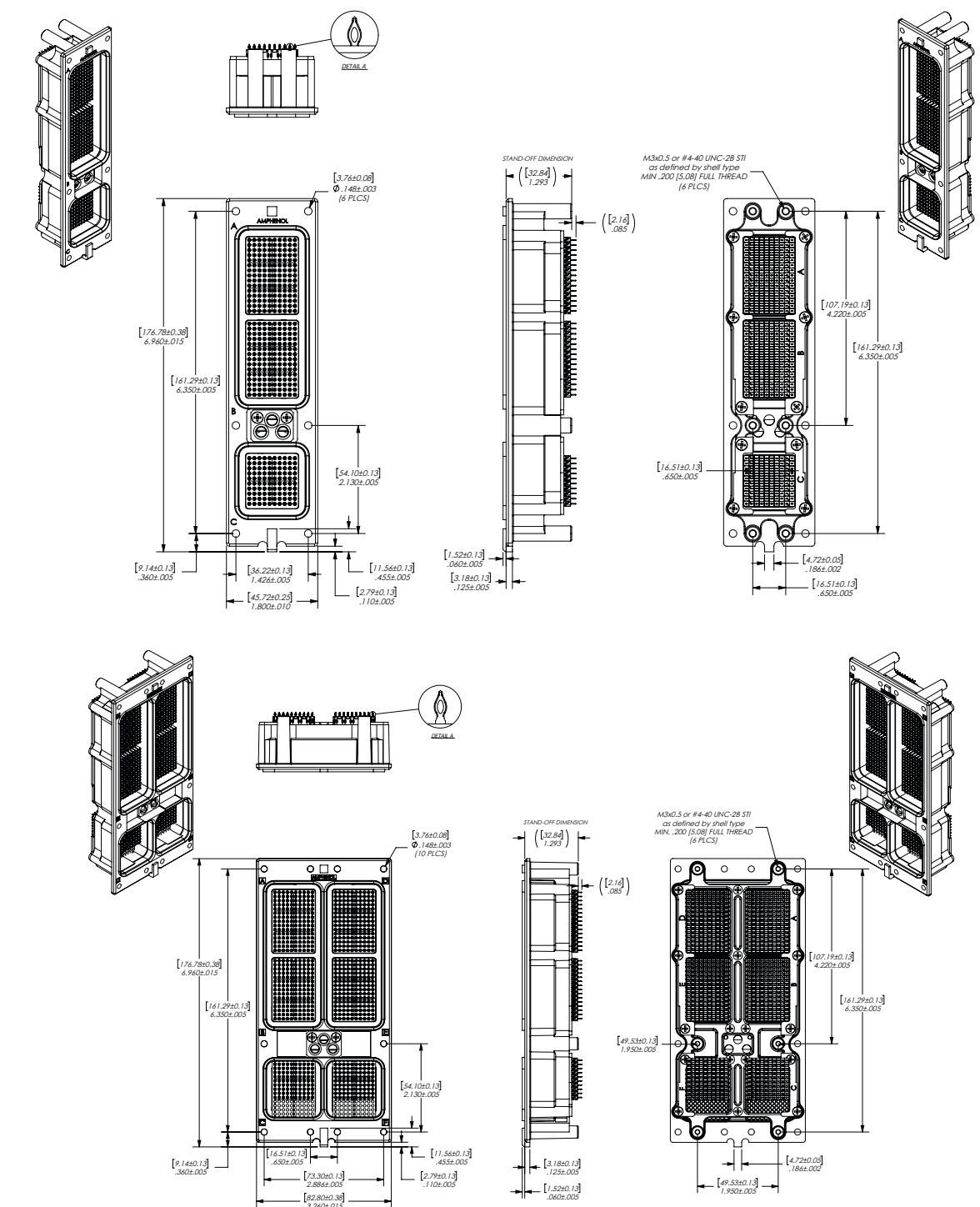
| STEPS                             | PART #                                                        | DESCRIPTION                                                                                                                                                                                                                  |
|-----------------------------------|---------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. CONNECTOR SERIES               | A                                                             | ARINC 600                                                                                                                                                                                                                    |
| 2. CLASS                          | L                                                             | PC Tail                                                                                                                                                                                                                      |
|                                   | M                                                             | PC Tail & Rear Removable Crimp Contacts (Typically RF or power)                                                                                                                                                              |
| 3. SHELL SIZE                     | 1-                                                            | Max. contact capacity - 160                                                                                                                                                                                                  |
|                                   | 2-                                                            | Max. contact capacity - 400                                                                                                                                                                                                  |
|                                   | 3-                                                            | Max. contact capacity - 800                                                                                                                                                                                                  |
| 4. INSERT LAYOUT PAGE 15-21       | PAGES 15-21                                                   | The connector layout designator number represents the total number of contacts within the layout including waveguides. Consult Amphenol Canada Corporation for further availability of insert combinations. See pages 15-21. |
| 5. SHELL TYPE                     | 4                                                             | Receptacle                                                                                                                                                                                                                   |
|                                   | 5                                                             | Receptacle W/ Integral Stand-Offs (M3)                                                                                                                                                                                       |
|                                   | 6                                                             | Receptacle W/Integral Stand-Offs (#4-40 UNC-2B)                                                                                                                                                                              |
|                                   |                                                               | Required for Press-Fit designs but can also be used on PC Tail Contacts                                                                                                                                                      |
| 6. MOUNTING MODIFIER PAGE 22-24   | PAGES 22-24                                                   | See charts on pages 22- 24.<br>Consult factory if other modifications are required.                                                                                                                                          |
| 7. POLARIZING POSITION PAGE 25-27 | PAGES 25-27                                                   | Polarizing posts or keys not installed but supplied with connector see pages 25-27.                                                                                                                                          |
| 8. CONTACT MODIFIER MATERIAL      | NGX                                                           | S&F TAIL EXTENSION                                                                                                                                                                                                           |
|                                   | NGA                                                           | .250" PC TAIL, ALL CONTACTS INCLUDED EXCEPT RF                                                                                                                                                                               |
|                                   | NGB                                                           | .375" PC TAIL, ALL CONTACTS INCLUDED EXCEPT RF                                                                                                                                                                               |
|                                   | G & T Options require Shell Type '5 w/ Integrated Stand-Offs' |                                                                                                                                                                                                                              |
|                                   | NGG                                                           | .035"± .002" (.889MM) Press Fit - GOLD, ALL CONTACTS INCLUDED, EXCEPT RF                                                                                                                                                     |
|                                   | NGT                                                           | .035" ± .002" (.889MM) Press-Fit - TIN, ALL CONTACTS INCLUDED, EXCEPT RF                                                                                                                                                     |

ARINC 600 NEXT GENERATION  
Shell Size 3

RECEPTACLE



Panel Cut-Out  
see page 28



How to Order - ARINC 600

PART NUMBER KEY

| 1. RoHS Compliance | 2. Connector Series | 3. Class | 4. Shell Style | 5. Insert Layout Designator PG 15-21 | 6. Shell Type | 7. Mounting Modifier PG 22-24 | 8. Polarizing Position PG 25-27 | 9. Contact Modifier Material |
|--------------------|---------------------|----------|----------------|--------------------------------------|---------------|-------------------------------|---------------------------------|------------------------------|
| E                  | A                   | D        | 3-             | 313-                                 | 3             | 00                            | 01                              | 00                           |

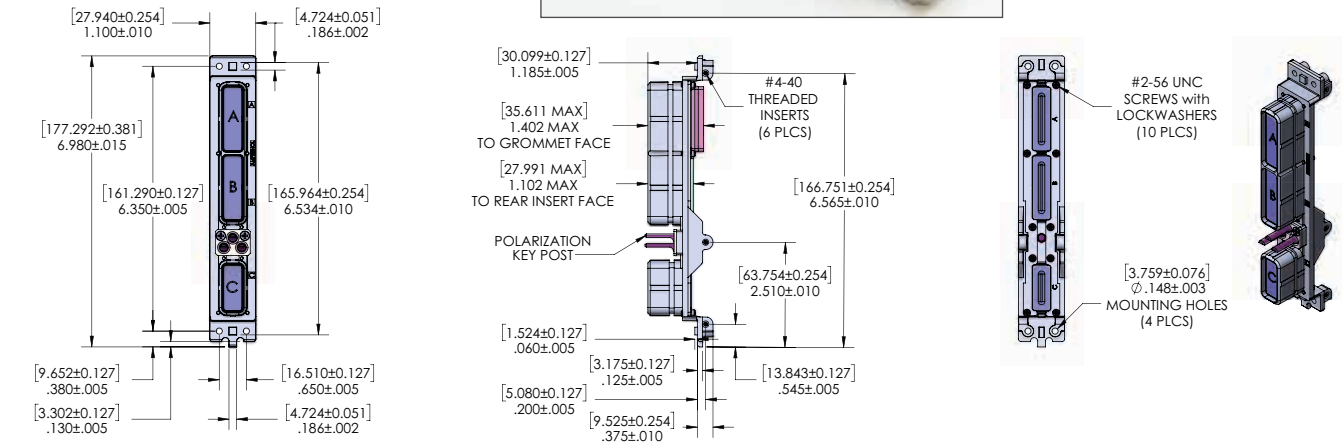
| STEPS                             | PART #                | DESCRIPTION                                                                                                                                                                                                                   |                                                                                                               |
|-----------------------------------|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| 1. ROHS COMPLIANCE                | E                     | RoHS Compliant (Omit for non-RoHS compliant connectors)                                                                                                                                                                       |                                                                                                               |
| 2. CONNECTOR SERIES               | A                     | ARINC 600                                                                                                                                                                                                                     |                                                                                                               |
| 3. CLASS                          | D                     | Non-environmental (rear release, crimp contacts)                                                                                                                                                                              |                                                                                                               |
|                                   | E                     | Environmental (rear release, crimp contacts)                                                                                                                                                                                  |                                                                                                               |
|                                   | F                     | Non-environmental (front release, solder and wrap post #22 contacts, rear release all others).                                                                                                                                |                                                                                                               |
|                                   | C                     | Same as E, less O-rings on plug side                                                                                                                                                                                          |                                                                                                               |
|                                   | S                     | Environmental (O-ring is used to seal between connector shell and insulators) with rear release, crimp contacts.                                                                                                              |                                                                                                               |
|                                   | Y                     | All positions front release (except coax/triax)                                                                                                                                                                               |                                                                                                               |
|                                   | J                     | All positions front release (all sizes)                                                                                                                                                                                       |                                                                                                               |
| 4. SHELL SIZE PAGE 9-11           | 1-                    | Max. contact capacity - 160                                                                                                                                                                                                   |                                                                                                               |
|                                   | 2-                    | Max. contact capacity - 400                                                                                                                                                                                                   |                                                                                                               |
|                                   | 3-                    | Max. contact capacity - 800                                                                                                                                                                                                   |                                                                                                               |
| 5. INSERT LAYOUT PAGE 15-21       | PAGES 15-21           | The connector layout designator number represents the total number of contacts within the layout including wave guides. Consult Amphenol Canada Corporation for further availability of insert combinations. See pages 15-21. |                                                                                                               |
| 6. SHELL TYPE                     | 3                     | Plug (rack side)                                                                                                                                                                                                              |                                                                                                               |
|                                   | 4                     | Receptacle (box side)                                                                                                                                                                                                         |                                                                                                               |
| 7. MOUNTING MODIFIER PAGE 22-24   | PAGES 22-24           | See charts on pages 22 -24.<br>Consult factory if other modifications are required.                                                                                                                                           |                                                                                                               |
| 8. POLARIZING POSITION PAGE 25-27 | PAGES 25-27           | Polarizing posts or keys not installed but supplied with connector see pages 25-27.                                                                                                                                           |                                                                                                               |
| 9. CONTACT MODIFIER MATERIAL      | OO                    | Rear release, crimp, signal and power contacts supplied with connector (when applicable)                                                                                                                                      |                                                                                                               |
|                                   | FO                    | Contacts not supplied with connector (FO not stamped on 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 installed in 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 installed in 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 installed in 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 installed in connector                                                                     |                                                                                                               |
| STD PCB                           | PRE-TINNED (TIN-LEAD) | PRE-TINNED (ROHS LEAD-FREE)                                                                                                                                                                                                   |                                                                                                               |
| SA                                | TA                    | RA                                                                                                                                                                                                                            | A=.150" (3.81) length. Front release PCB contacts, signal & power contacts installed, No RF contacts included |
| SB                                | TB                    | RB                                                                                                                                                                                                                            | B=.250" (6.35) length. Front release PCB contacts, signal & power contacts installed, No RF contacts included |
| SC                                | TC                    | RC                                                                                                                                                                                                                            | C=.375 (9.53) length. Front release PCB contacts, signal & power contacts installed, No RF contacts included  |
| SD                                | TD                    | RD                                                                                                                                                                                                                            | D=.500" (12.7) length. Front release PCB contacts, signal & power contacts installed, No RF contacts included |

Dimensional Drawings  
Shell Size 1

PLUG



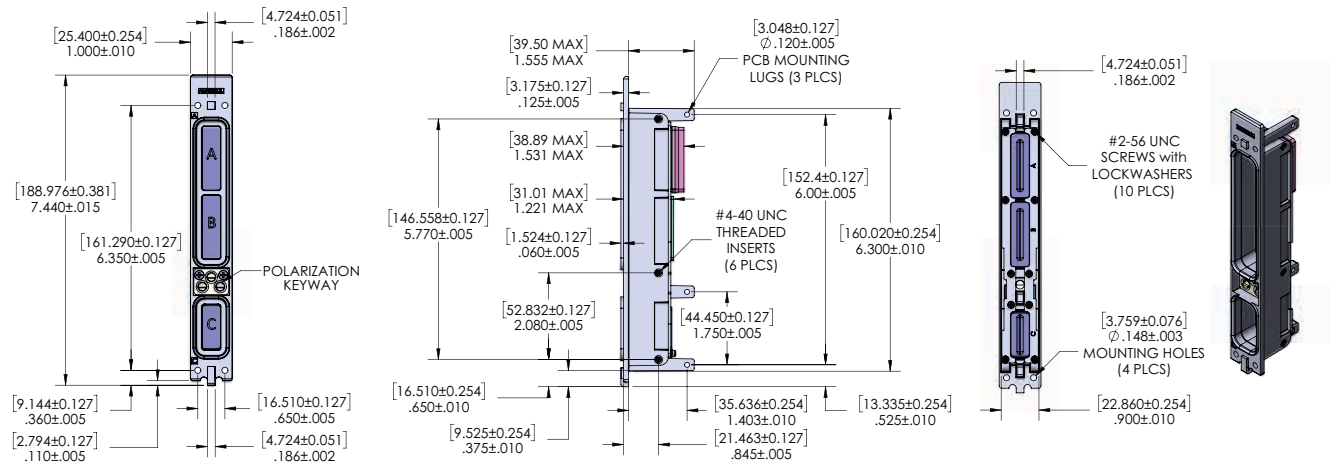
Panel Cut-Out  
see page 28



RECEPTACLE



Panel Cut-Out  
see page 28



\* Indicates area where "AMPHENOL", catalog number and date code will be ink stamped per 9-5788-3. Dimensions are shown in inches, (mm). All dimensions for reference only.



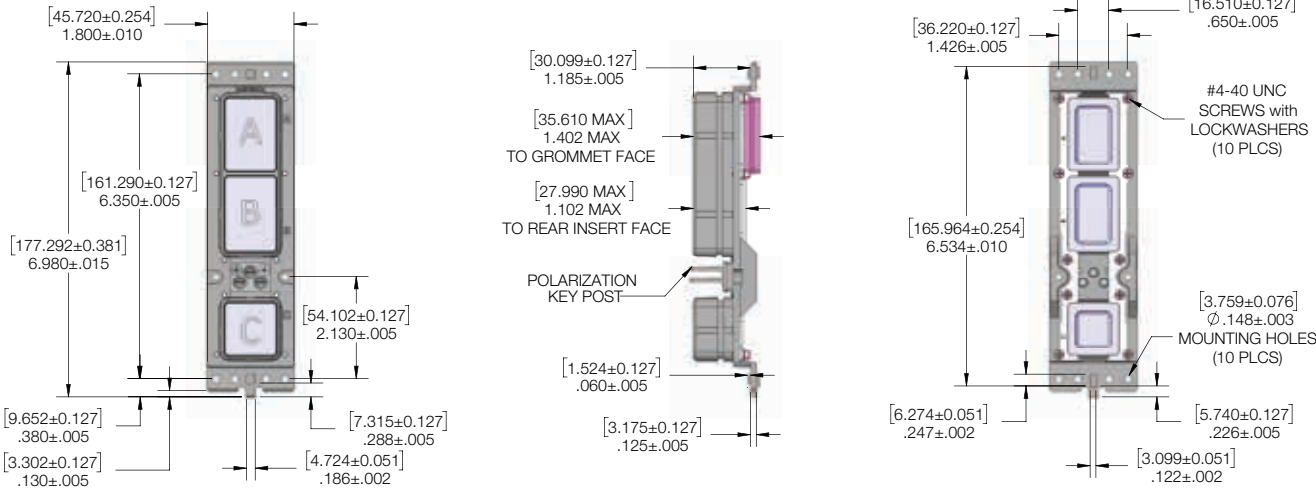
Dimensional Drawings  
Shell Size 2

ARINC 600

PLUG



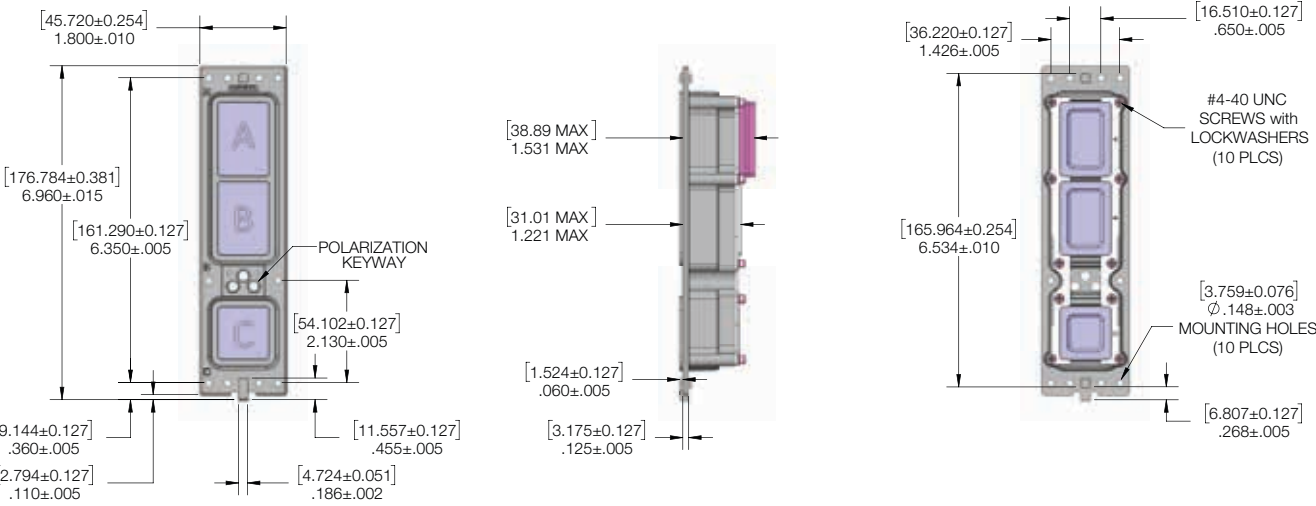
Panel Cut-Out  
see page 28



RECEPTACLE



Panel Cut-Out  
see page 28



\* Indicates area where "AMPHENOL", catalog number and date code will be ink stamped per 9-5788-3. Dimensions are shown in inches, (mm). All dimensions for reference only.

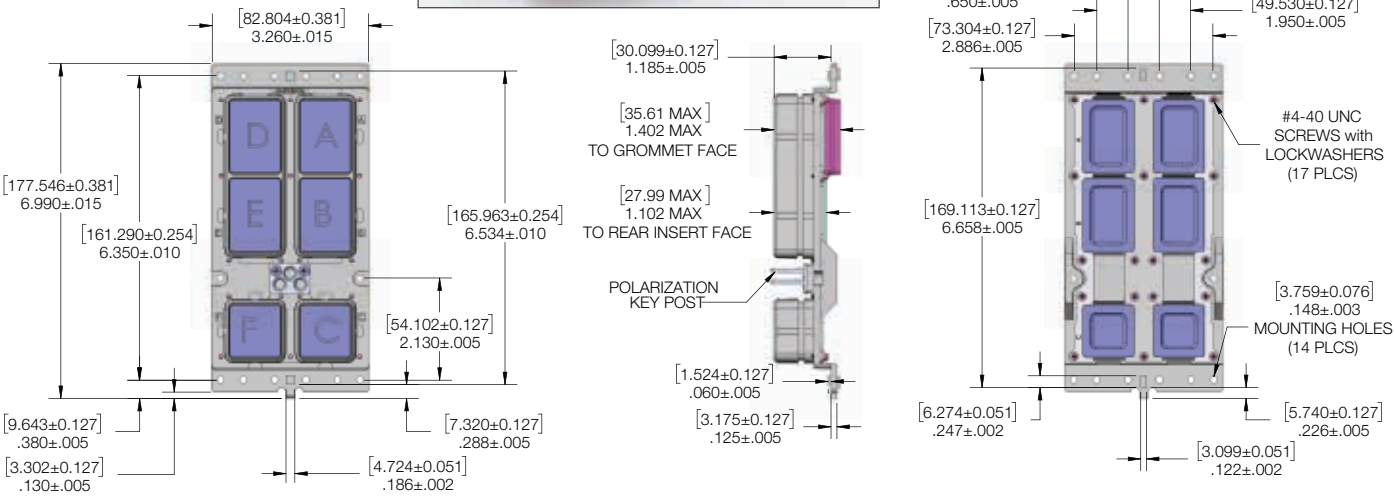
Dimensional Drawings  
Shell Size 3

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PLUG



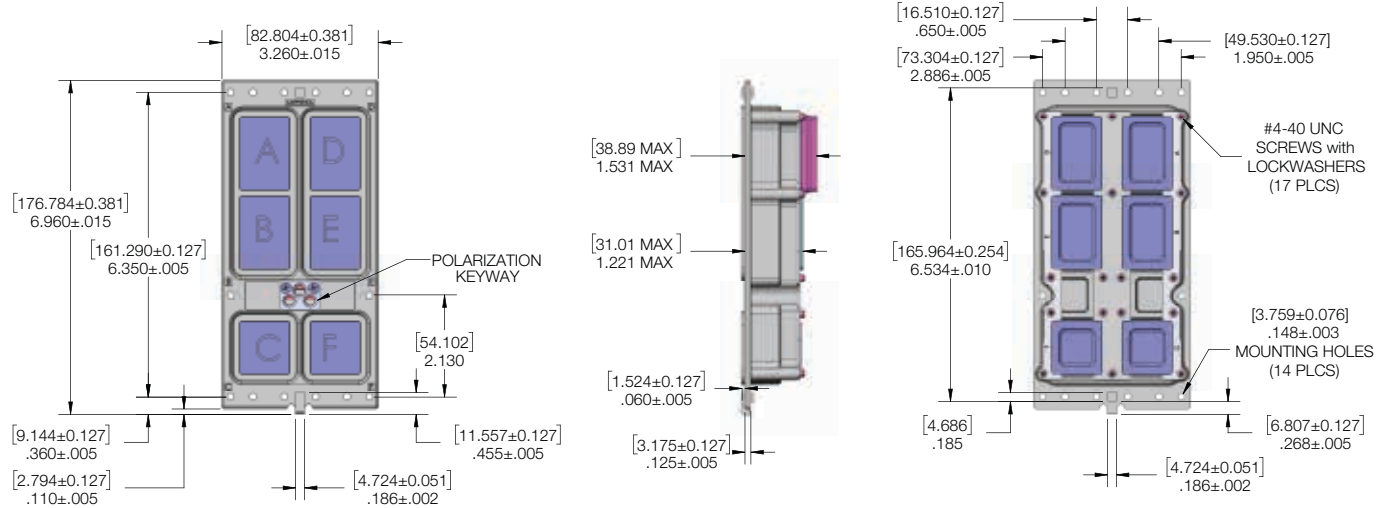
Panel Cut-Out  
see page 28



RECEPTACLE



Panel Cut-Out  
see page 28



\* Indicates area where "AMPHENOL", catalog number and date code will be ink stamped per 9-5788-3. Dimensions are shown in inches, (mm). All dimensions for reference only.

Insert Arrangements  
Size 1 (A/B)

ARINC 600

Size 1 Signal (A/B)

|           |         |         |       |         |
|-----------|---------|---------|-------|---------|
|           |         |         |       |         |
| (0) DUMMY | (4) 4Q5 | (4) 4C5 | (8) 8 | (20) 20 |
| QTY       | QTY     | QTY     | QTY   | QTY     |
| Size      | Size    | Size    | Size  | Size    |
|           | 4       | 4       | 8     | 20      |
|           | 5 Q     | 5 C     | 12    | 16      |

|                |         |         |         |
|----------------|---------|---------|---------|
|                |         |         |         |
| (30) 30C2 30T2 | (32) 32 | (42) 42 | (60) 60 |
| QTY            | QTY     | QTY     | QTY     |
| Size           | Size    | Size    | Size    |
| 28             | 8       | 42      | 60      |
| 22             | 16      | 20      | 22      |
| 2              | 24      |         |         |
| 8 C, T         | 20      |         |         |

Size 1 Power (C)

|           |         |       |         |       |
|-----------|---------|-------|---------|-------|
|           |         |       |         |       |
| (0) DUMMY | (3) 3Q3 | (4) 4 | (5) 5C2 | (6) 6 |
| QTY       | QTY     | QTY   | QTY     | QTY   |
| Size      | Size    | Size  | Size    | Size  |
|           | 3       | 4     | 2       | 6     |
|           | 8 Q     | 12    | 16      | 12    |
|           |         |       | 1       |       |
|           |         |       | 12      |       |
|           |         |       | 2       |       |
|           |         |       | 5 C     |       |

|            |         |         |         |         |
|------------|---------|---------|---------|---------|
|            |         |         |         |         |
| (12) 12F12 | (17) 17 | (22) 22 | (30) 30 | (40) 40 |
| QTY        | QTY     | QTY     | QTY     | QTY     |
| Size       | Size    | Size    | Size    | Size    |
| 12         | 3       | 6       | 30      | 40      |
| 16 F       | 12      | 16      | 20      | 22      |
|            | 14      | 16      |         |         |
|            | 20      | 20      |         |         |

**C** COAX **T** TWINAX OR TRIAX **F** FIBER **Q** QUADRAX

Note: Inserts are interchangeable between Coax, Twinax, and Triax contacts

Insert Arrangements  
Size 2 & 3 (A/B)

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|           |         |         |                        |                        |            |
|-----------|---------|---------|------------------------|------------------------|------------|
|           |         |         |                        |                        |            |
| (0) DUMMY | (2) 2C2 | (4) 4C4 | (10) 10C10 10T10 10Q10 | (11) 11C11 11T11 11Q11 | (17) 17CF5 |
| QTY       | QTY     | QTY     | QTY                    | QTY                    | QTY        |
| Size      | Size    | Size    | Size                   | Size                   | Size       |
|           | 2       | 4       | 10                     | 11                     | 12         |
|           | 1 C     | 1 C     | 8 C, T, Q              | 8 C, T, Q              | 12         |
|           |         |         |                        |                        | 5          |
|           |         |         |                        |                        | 16 F       |

|            |                |                              |         |                |         |
|------------|----------------|------------------------------|---------|----------------|---------|
|            |                |                              |         |                |         |
| (18) 18C6Q | (18) 18C8 18T8 | (20) 20F12C8 20F12T8 20F12Q8 | (24) 24 | (28) 28C8 28T8 | (35) 35 |
| QTY        | QTY            | QTY                          | QTY     | QTY            | QTY     |
| Size       | Size           | Size                         | Size    | Size           | Size    |
| 12         | 10             | 12                           | 24      | 10             | 35      |
| 16 C       | 16             | 16 F                         | 12      | 22             | 16      |
| 6          | 8              | 8                            |         | 10             |         |
| 8 Q        | 8 C, T, Q      | 8 C, T, Q                    |         | 8 C, T         |         |
|            |                |                              |         | 8              |         |
|            |                |                              |         |                |         |

|            |                     |         |           |            |                     |
|------------|---------------------|---------|-----------|------------|---------------------|
|            |                     |         |           |            |                     |
| (36) 36F36 | (49) 47C2 47T2 47Q2 | (60) 60 | (71) 71C1 | (71) 71C1A | (72) 68C4 68T4 68Q4 |
| QTY        | QTY                 | QTY     | QTY       | QTY        | QTY                 |
| Size       | Size                | Size    | Size      | Size       | Size                |
| 36         | 47                  | 60      | 70        | 70         | 62                  |
| 16F        | 20                  | 20      | 22        | 22         | 22                  |
|            | 2                   |         | 1         | 1          | 6                   |
|            | 8 C, T, Q           |         | 1 C       | 1 C        | 16                  |
|            |                     |         |           |            | 4                   |
|            |                     |         |           |            | 8 C, T, Q           |

|                  |           |                         |           |           |           |
|------------------|-----------|-------------------------|-----------|-----------|-----------|
|                  |           |                         |           |           |           |
| (82) 82C12 82T12 | (110) 110 | (120) 120C2 120T2 120Q2 | (121) 121 | (126) 126 | (150) 150 |
| QTY              | QTY       | QTY                     | QTY       | QTY       | QTY       |
| Size             | Size      | Size                    | Size      | Size      | Size      |
| 70               | 100       | 118                     | 110       | 120       | 150       |
| 22               | 22        | 22                      | 22        | 22        | 22        |
| 12               | 5         | 2                       | 6         | 6         |           |
| 12 C, T          | 20        | 8 C, T, Q               | 20        | 16        |           |
|                  | 5         |                         | 5         |           |           |
|                  | 12        |                         |           |           |           |

**C** COAX **T** TWINAX OR TRIAX **F** FIBER **Q** QUADRAX

Note: Inserts are interchangeable between Coax, Twinax, and Triax contacts



Insert Arrangements  
Size 2 & 3 (C)

ARINC 600

|           |                       |          |               |                                 |                                  |
|-----------|-----------------------|----------|---------------|---------------------------------|----------------------------------|
|           |                       |          |               |                                 |                                  |
| (0) DUMMY | (6) 6C6<br>6T6<br>6Q6 | (8) 6P6  | (10) 10C5     | (12) 12F5C2<br>12F5Q2           | (13) 11C2<br>11Q2                |
| QTY Size  | QTY Size              | QTY Size | QTY Size      | QTY Size                        | QTY Size                         |
|           | 6 8 C, T, Q           | 8 6 P 6  | 5 20<br>4 8 C | 1 16<br>4 12<br>2 5 C<br>5 16 F | 4 20<br>3 16<br>4 12<br>2 8 C, Q |

|                               |                           |          |                                    |                                           |                         |
|-------------------------------|---------------------------|----------|------------------------------------|-------------------------------------------|-------------------------|
|                               |                           |          |                                    |                                           |                         |
| (13) 13C2                     | (15) 11C4<br>11T4<br>11Q4 | (16) 16  | (17) 17F12C2<br>17F12T2<br>17F12Q2 | (18) 18C4Q2<br>18T4Q2                     | (20) 20F12              |
| QTY Size                      | QTY Size                  | QTY Size | QTY Size                           | QTY Size                                  | QTY Size                |
| 4 20<br>3 16<br>4 12<br>2 5 C | 11 16<br>4 8 C, T, Q      | 16 12    | 3 16<br>2 8 C, T, Q<br>12 16 F     | 10 22<br>2 12<br>4 12 C, T<br>2 8 C, T, Q | 4 20<br>4 12<br>12 16 F |

|                           |            |                |                           |          |                |
|---------------------------|------------|----------------|---------------------------|----------|----------------|
|                           |            |                |                           |          |                |
| (24) 24C4<br>24T4<br>24Q4 | (24) 24F24 | (24) 24        | (24) 24C4<br>24T4<br>24Q4 | (25) 25  | (28) 28        |
| QTY Size                  | QTY Size   | QTY Size       | QTY Size                  | QTY Size | QTY Size       |
| 20 20<br>4 8 C, T, Q      | 24 16 F    | 12 20<br>12 12 | 20 20<br>4 8 C, T, Q      | 25 16    | 14 22<br>14 12 |

|                |                       |                              |                           |               |                       |           |
|----------------|-----------------------|------------------------------|---------------------------|---------------|-----------------------|-----------|
|                |                       |                              |                           |               |                       |           |
| (34) 34        | (59) 59               | (64) 62C2<br>62T2<br>62Q2    | (70) 68C2<br>68T2<br>68Q2 | (84) 84       | (85) 85               | (100) 100 |
| QTY Size       | QTY Size              | QTY Size                     | QTY Size                  | QTY Size      | QTY Size              | QTY Size  |
| 24 20<br>10 16 | 50 22<br>5 16<br>4 12 | 60 22<br>2 16<br>2 8 C, T, Q | 68 22<br>2 8 C, T, Q      | 80 22<br>4 20 | 80 22<br>4 20<br>1 16 | 100 22    |

C COAX T TWINAX OR TRIAX F FIBER Q QUADRAx

Note: Inserts are interchangeable between Coax, Twinax, and Triax contacts

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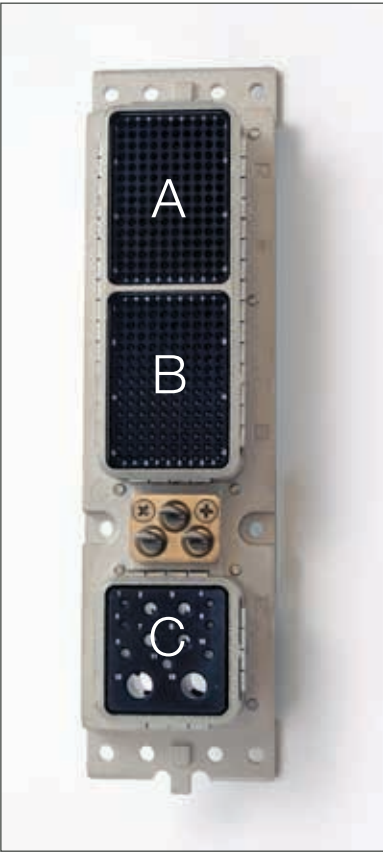
Insert Layout Designator  
Size 1

AmphenolCANADA

PART NUMBER KEY

| 1. Connector Series | 2. Class | 3. Shell Style | 4. Insert Layout Designator PG 15-21 | 5. Shell Type | 6. Mounting Modifier PG 22-24 | 7. Polarizing Position PG 25-27 | 8. Contact Modifier Material |
|---------------------|----------|----------------|--------------------------------------|---------------|-------------------------------|---------------------------------|------------------------------|
| A                   | D        | 3              | 313-                                 | 3             | 00                            | 01                              | 00                           |

| SIZE 1 ARINC 600 |                          |                              |       |       |
|------------------|--------------------------|------------------------------|-------|-------|
| # OF CONTACTS    | INSERT LAYOUT DESIGNATOR | SHELL CAVITY INSERT POSITION |       |       |
|                  |                          | A                            | B     | C     |
| 5                | 005-                     | EMPTY                        | EMPTY | 5C2   |
| 30               | 030Q-                    | 30Q2                         | DUMMY | DUMMY |
| 35               | 035-                     | 30T2                         | DUMMY | 5C2   |
| 48               | 048Q-                    | 4Q4                          | 4Q4   | 40    |
| 60               | 060-                     | EMPTY                        | 60    | EMPTY |
| 60               | A060-                    | 60                           | EMPTY | EMPTY |
| 60               | C060-                    | 60                           | DUMMY | DUMMY |
| 65               | 065-                     | EMPTY                        | 60    | 5C2   |
| 65               | 065A-                    | DUMMY                        | 60    | 5C2   |
| 65               | A065-                    | 60                           | DUMMY | 5C2   |
| 65               | 065B-                    | DUMMY                        | 60    | 5C2   |
| 65               | 065Q-                    | 60                           | DUMMY | 5Q2   |
| 65               | B065-                    | 30T2                         | 30T2  | 5C2   |
| 70               | 070-                     | DUMMY                        | 30T2  | 40    |
| 70               | A070Q-                   | EMPTY                        | 28Q2  | 40    |
| 90               | 090Q-                    | 60                           | 28Q2  | DUMMY |
| 94               | 094-                     | 30T2                         | 60    | 4     |
| 95               | 095-                     | 60                           | 30T2  | 5C2   |
| 95               | 095Q-                    | 60                           | 28Q2  | 5C2   |
| 95               | 095A-                    | 30T2                         | 60    | 5C2   |
| 95               | A095Q-                   | 60                           | 28Q2  | 5Q2   |
| 100              | 100-                     | 30T2                         | 30T2  | 40    |
| 100              | 100A-                    | 60                           | DUMMY | 40    |
| 112              | 112T-                    | 60                           | 30T2  | 22    |
| 120              | 120-                     | 60                           | 60    | EMPTY |
| 120              | A120-                    | 60                           | 60    | DUMMY |
| 124              | 124-                     | 60                           | 60    | 4     |
| 125              | 125-                     | 60                           | 60    | 5C2   |
| 130              | 130-                     | 60                           | 30T2  | 40    |
| 160              | 160-                     | 60                           | 60    | 40    |



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Insert Layout Designator  
Size 2

| SIZE 2 ARINC 600 |                          |                              |        |           |
|------------------|--------------------------|------------------------------|--------|-----------|
| # of contacts    | INSERT LAYOUT DESIGNATOR | Shell Cavity Insert Position |        |           |
|                  |                          | A                            | B      | C         |
| 11               | 011Q-                    | 11Q11                        | EMPTY  | EMPTY     |
| 13               | 013-                     | EMPTY                        | EMPTY  | 13C2      |
| 17               | 017-                     | 2C2                          | 2C2    | 13C2      |
| 20               | 020-                     | DUMMY                        | DUMMY  | 20F12     |
| 20               | 020F-                    | DUMMY                        | DUMMY  | 20F12     |
| 24               | 024-                     | DUMMY                        | 11Q11  | 11Q2      |
| 24               | 024Q-                    | DUMMY                        | 11Q11  | 13C2      |
| 26               | 26-                      | 10C10                        | 10C10  | 6C6       |
| 28               | 028Q-                    | 11Q11                        | 11Q11  | 6Q6       |
| 28               | A028Q-                   | DUMMY                        | 4C4    | 20Q4      |
| 30               | 030F-                    | DUMMY                        | 18T8   | 12F5C2    |
| 33               | 033-                     | 10T10                        | 10T10  | 13C2      |
| 33               | 033Q-                    | 11Q11                        | 11Q11  | 13C2      |
| 33               | 033QT-                   | 10T10                        | 10T10  | 11Q2      |
| 33               | A033Q-                   | 11Q11                        | 11Q11  | 11Q2      |
| 34               | 034Q-                    | 11Q11                        | 10T10  | 11Q2      |
| 35               | 035-                     | DUMMY                        | 11Q11  | 20Q4      |
| 39               | 039QF-                   | 11Q11                        | 11Q11  | 17F12Q2   |
| 40               | 040F-                    | DUMMY                        | 28T8   | 12F5C2    |
| 45               | 045Q-                    | 11Q11                        | BLANK  | 34        |
| 54               | 054QF-                   | 20F12Q8                      | BLANK  | 34        |
| 56               | 056A-                    | 28T8                         | 28T8   | DUMMY     |
| 59               | 059-                     | EMPTY                        | EMPTY  | 59        |
| 60               | 060-                     | 60                           | DUMMY  | DUMMY     |
| 60               | A060-                    | 24                           | 24     | 12 custom |
| 65               | 065Q-                    | 11Q11                        | 11Q11  | 41Q2      |
| 66               | 066-                     | DUMMY                        | 60     | 6T6       |
| 67               | 067Q-                    | 121                          | 10Q10  | 6Q6       |
| 68               | 068Q-                    | 121                          | 11Q11  | 6Q6       |
| 69               | 069-                     | 28T8                         | 28T8   | 13C2      |
| 69               | 069QC-                   | DUMMY                        | 10Q6C4 | 59        |
| 69               | A069-                    | 10T10                        | DUMMY  | 59        |
| 70               | 070Q-                    | 11Q11                        | DUMMY  | 59        |
| 70               | 070T-                    | 4C4                          | 4C4    | 62T2      |
| 71               | 071-                     | EMPTY                        | 71C1   | 1         |
| 71               | A071-                    | 71C1                         | EMPTY  | EMPTY     |
| 73               | 073-                     | DUMMY                        | 60     | 13C2      |
| 74               | 074Q-                    | 4C4                          | 11Q11  | 59        |
| 75               | 75C-                     | 60                           | 2C2    | 13C2      |
| 76               | 076Q-                    | 10T10                        | 60     | 6Q6       |
| 79               | 079-                     | 10T10                        | 10T10  | 59        |
| 81               | 081-                     | 11T11                        | 11T11  | 59        |
| 81               | 081Q-                    | 11Q11                        | 11Q11  | 59        |
| 82               | 082-                     | 24                           | 24     | 34        |
| 84               | 084-                     | DUMMY                        | 71C1   | 13C2      |
| 84               | 084QT-                   | 11Q11                        | 11Q11  | 62T2      |
| 85               | 085-                     | WAVE                         | 71C1   | 13C2      |
| 85               | 085B-                    | W1                           | 71C1   | 13C2      |
| 85               | A085-                    | 71C1                         | WAVE   | 13C2      |
| 86               | 086-                     | C2                           | 71C1   | 13C2      |
| 86               | 086Q-                    | 11Q11                        | 11Q11  | 62Q2      |
| 86               | 86M-                     | 2C2                          | 71C1   | 13C2      |
| 88               | 088QC-                   | 71C1                         | 4C4    | 11Q2      |
| 92               | 092Q-                    | 11Q11                        | 11Q11  | 68Q2      |
| 93               | 093-                     | 4C4                          | 4C4    | 85        |
| 94               | 094-                     | 60                           | DUMMY  | 34        |
| 94               | 094A-                    | 10T10                        | 71C1   | 13C2      |
| 95               | 095F-                    | 36F36                        | DUMMY  | 59        |
| 95               | 95F-                     | DUMMY                        | 36F36  | 59        |
| 96               | 096A-                    | 68Q4                         | 11Q11  | 13C2      |

| SIZE 2 ARINC 600 |                          |                              |          |           |
|------------------|--------------------------|------------------------------|----------|-----------|
| # of contacts    | INSERT LAYOUT DESIGNATOR | Shell Cavity Insert Position |          |           |
|                  |                          | A                            | B        | C         |
| 96               | 096Q-                    | DUMMY                        | 11Q11    | 85        |
| 96               | 096QF-                   | 11QF11                       | Blank    | 85        |
| 98               | 098-                     | 4C4                          | 35       | 59        |
| 99               | 099CF-                   | 50                           | 36F36    | 13C2      |
| 100              | 100-                     | DUMMY                        | EMPTY    | 100       |
| 105              | 105-                     | 10T10                        | 10T10    | 85        |
| 105              | A105-                    | 71C1                         | BLANK    | 59        |
| 105              | 105F-                    | 11Q11                        | 60       | 34        |
| 107              | 107Q-                    | 11Q11                        | 11Q11    | 85        |
| 111              | 111Q-                    | DUMMY                        | 11Q11    | 100       |
| 111              | 111QC-                   | 68Q4                         | 11Q11    | 32C2      |
| 112              | 112-                     | 24                           | 24       | 64T2      |
| 112              | 112Q-                    | 24                           | 24       | 62Q2      |
| 115              | 115Q-                    | 4C4                          | 11Q11    | 100       |
| 115              | 115-                     | 150                          | 2C2      | 13C2      |
| 116              | 116QF-                   | 20F12Q8                      | 11Q11    | 85        |
| 116              | A116QF-                  | 11Q11                        | A20F12Q8 | 85        |
| 118              | 118-                     | 24                           | 60       | 34        |
| 119              | 119-                     | 60                           | DUMMY    | 59        |
| 120              | 120-                     | DUMMY                        | 120T2    | DUMMY     |
| 121              | 121-                     | DUMMY                        | 121      | DUMMY     |
| 122              | 122Q-                    | 11Q11                        | 11Q11    | 100       |
| 123              | A123-                    | 4C4                          | 60       | 59        |
| 123              | 123-                     | 60                           | 4C4      | 59        |
| 124              | 124Q-                    | 28                           | 28       | 68Q2      |
| 124              | 124-                     | DUMMY                        | 24       | 100       |
| 126              | 126Q-                    | 24                           | 68Q4     | 34        |
| 127              | 127Q-                    | DUMMY                        | 121      | 6Q6       |
| 128              | 128-                     | 4C4                          | 24       | 100       |
| 130              | 130Q-                    | 10T10                        | 118Q2    | DUMMY     |
| 131              | 131FQ-                   | 20F12T8                      | 11Q11    | 100       |
| 131              | 131Q-                    | 121                          | 4C4      | 6Q6       |
| 131              | 131QC-                   | 11Q11                        | 118Q2    | DUMMY     |
| 131              | 131-                     | 121                          | 10T10    | DUMMY     |
| 133              | 133Q-                    | DUMMY                        | 118Q2    | 13C2      |
| 133              | A133-                    | 120T2                        | DUMMY    | 13C2      |
| 133              | 133-                     | DUMMY                        | 120T2    | 13C2      |
| 134              | 134Q-                    | 35                           | 35       | 68Q2      |
| 135              | 135Q-                    | 118Q2                        | 2C2      | 13C2      |
| 137              | 137A-                    | 4C4                          | 120T2    | 13C2      |
| 137              | 137B-                    | 120T2                        | 4C4      | 13C2      |
| 137              | 137D-                    | 4C4                          | 120T2    | 13C2      |
| 137              | 137E-                    | 4C4                          | 120C2    | 13C2      |
| 137              | 137Q-                    | 121                          | 10Q10    | 6Q6       |
| 137              | 137-                     | 121                          | 10T10    | 6T6       |
| 138              | 138-                     | 11Q11                        | 6Q6      | 121       |
| 138              | 138CF-                   | 121                          | DUMMY    | 17F12Q2   |
| 138              | 138Q-                    | 11Q11                        | 121      | 6Q6       |
| 138              | A138Q-                   | 121                          | 11Q11    | 6Q6       |
| 138              | B138Q-                   | 121A                         | 4C4      | 11Q2/13Q2 |
| 140              | 140-                     | 110                          | 24       | 6Q6       |
| 141              | 141FQ-                   | 20F12Q8                      | 121      | DUMMY     |
| 141              | T141-                    | 120T2                        | 10T10    | 13C2      |
| 142              | 142-                     | 71C1                         | 71C1     | EMPTY     |
| 143              | 143-                     | 24                           | 60       | 59        |
| 143              | A143-                    | 120T2                        | 10T10    | 13C2      |
| 143              | 143Q-                    | 11Q11                        | 118Q2    | 12F5C2    |
| 143              | A143Q-                   | 118Q2                        | 10T10    | 13C2      |
| 143              | B143Q-                   | 118Q2                        | 10T10    | 11Q2      |
| 144              | 144Q-                    | 118Q2                        | 11Q11    | 13C2      |
| 144              | A144Q-                   | 120T2                        | 11Q11    | 13C2      |

Insert Layout Designator  
Size 2

| SIZE 2 ARINC 600 |                          |                              |       |         |
|------------------|--------------------------|------------------------------|-------|---------|
| # of contacts    | INSERT LAYOUT DESIGNATOR | Shell Cavity Insert Position |       |         |
|                  |                          | A                            | B     | C       |
| 144              | 144QT-                   | 11Q11                        | 120T2 | 11Q2    |
| 144              | C144Q-                   | 11Q11                        | 120Q2 | 11Q2    |
| 145              | 145Q-                    | DUMMY                        | 118Q2 | 25      |
| 148              | 148A-                    | 24                           | 24    | 100     |
| 148              | 148-                     | 71C1                         | 18T8  | 59      |
| 152              | 152Q-                    | 24                           | 28T8  | 100     |
| 153              | 153TF-                   | 20F12T8                      | 120T2 | 13C2    |
| 154              | 154-                     | 60                           | 60    | 34      |
| 155              | 155-                     | 71C1                         | 71C1  | 13C2    |
| 156              | 156Q-                    | 11Q11                        | 120Q2 | 25      |
| 156              | 156Q-                    | 150                          | DUMMY | 6Q6     |
| 156              | A156-                    | 28T8                         | 28T8  | 100     |
| 156              | B156-                    | 150                          | DUMMY | 6T6     |
| 156              | B156Q-                   | 150                          | DUMMY | 6Q6     |
| 158              | 158M-                    | 2C2                          | 71C1A | 85      |
| 158              | 158T-                    | 110                          | 24    | 24T4    |
| 161              | 161Q-                    | 150                          | EMPTY | 11Q2    |
| 162              | 162CF-                   | 121                          | 24    | 17F12Q2 |
| 163              | 163A-                    | 150                          | DUMMY | 13C2    |
| 163              | 163B-                    | DUMMY                        | 150   | 13C2    |
| 163              | A163-                    | 150                          | EMPTY | 13C2    |
| 163              | 163QF-                   | 36F36                        | 121   | 6Q6     |
| 163              | 163-                     | EMPTY                        | 150   | 13C2    |
| 164              | 164-                     | 150                          | WAVE  | 13C2    |
| 164              | A164-                    | WAVE                         | 150   | 13C2    |
| 165              | 165M-                    | 150                          | 2C2   | 13C2    |
| 165              | 165Q-                    | 11Q11                        | 118Q2 | 34      |
| 165              | 165Q-                    | 150                          | 2C2   | 13Q2    |
| 165              | 165R-                    | 150                          | 2C2   | 13Q2    |
| 165              | A165-                    | 2C2                          | 150   | 13C2    |
| 165              | 165-                     | 150                          | 2C2   | 13C2    |
| 167              | 167-                     | 150                          | 4C4   | 13C2    |
| 167              | 167C-                    | 4C4                          | 150   | 13C2    |
| 167              | 167Q-                    | 150                          | 11Q11 | 6T6     |
| 167              | 167QC-                   | 4C4                          | 150   | 11Q2    |
| 167              | A167Q-                   | 11Q11                        | 150   | 6Q6     |
| 167              | B167Q-                   | 150                          | 11Q11 | 6Q6     |
| 168              | 168Q-                    | 150                          | 18Q8  | DUMMY   |
| 170              | 170-                     | 35                           | 35    | 100     |
| 171              | 171-                     | WAVE                         | 71C1  | 100     |
| 173              | 173A-                    | 10T10                        | 150   | 13C2    |
| 173              | 173QF-                   | 17C12F5                      | 150   | 6Q6     |
| 173              | 173-                     | 150                          | 10T10 | 13C2    |
| 174              | 174-                     | 150                          | 24    | DUMMY   |
| 174              | 174Q-                    | 150                          | 11Q11 | 13C2    |
| 174              | A174Q-                   | DUMMY                        | 150   | 20Q4    |
| 174              | B174Q-                   | 150                          | 11Q11 | 11Q2    |
| 174              | C174Q-                   | 11Q11                        | 150   | 11Q2    |
| 174              | D174Q-                   | 11Q11                        | 150   | 13C2    |
| 174              | E174Q-                   | 10Q10                        | 150   | 11T2    |
| 174              | F174Q-                   | 11Q11                        | 150   | 11T2    |
| 174              | T174-                    | DUMMY                        | 150   | 24T4    |
| 174              | T174Q-                   | 150                          | 18T8  | 6Q6     |
| 174              | 174C-                    | 11C11                        | 150   | 13C2    |
| 175              | 175-                     | 150                          | DUMMY | 25      |
| 178              | 178QF-                   | 150                          | 11Q11 | 17F12Q2 |
| 187              | 187-                     | 121                          | 60    | 6T6     |
| 184              | B184-                    | 24                           | 60    | 100     |
| 184              | 184-                     | 150                          | DUMMY | 34      |
| 184              | A184-                    | 4C4                          | 121   | 59      |
| 188              | 188-                     | 150                          | 4C4   | 34      |

| SIZE 2 ARINC 600 |                          |                              |       |        |
|------------------|--------------------------|------------------------------|-------|--------|
| # of contacts    | INSERT LAYOUT DESIGNATOR | Shell Cavity Insert Position |       |        |
|                  |                          | A                            | B     | C      |
| 191              | 191T-                    | 28T8                         | 150   | 13C2   |
| 194              | 194F-                    | 150                          | 24    | 20F12  |
| 194              | A194Q-                   | 10Q10                        | 150   | 34     |
| 194              | 194Q-                    | 150                          | 10Q10 | 34     |
| 195              | 195Q-                    | 150                          | 11Q11 | 34     |
| 195              | A195Q-                   | 11Q11                        | 150   | 34     |
| 195              | B195QF-                  | 20F12Q8                      | 150   | 25     |
| 198              | 198Q-                    | 150                          | 24    | 20Q4   |
| 199              | 199FC-                   | 150                          | 36F36 | 13C2   |
| 199              | C199Q-                   | 71C1A                        | 118Q2 | 12F5C2 |
| 200              | 200Q-                    | 11Q11                        | 121   | 68Q2   |
| 201              | 201CF-                   | 17F5                         | 150   | 34     |
| 202              | 202-                     | 150                          | 18T8  | 34     |
| 202              | 202Q-                    | 71C1A                        | 118Q2 | 12F5C2 |
| 205              | 205A-                    | 120T2                        | DUMMY | 85     |
| 205              | 205-                     | 71C1                         | 121   | 13C2   |
| 208              | 208-                     | 150                          | 24    | 34     |
| 209              | 209A-                    | 4C4                          | 120T2 | 85     |
| 209              | 209Q-                    | 150                          | 35    | 20Q4   |
| 209              | C209Q-                   | 4C4                          | 118Q2 | 85     |
| 209              | A209-                    | EMPTY                        | 150   | 59     |
| 209              | B209-                    | 150                          | DUMMY | 59     |
| 209              | A209Q-                   | 150                          | 11Q11 | 46Q2   |
| 209              | 209-                     | DUMMY                        | 150   | 59     |
| 213              | 213-                     | 150                          | 4C4   | 59     |
| 215              | 215Q-                    | 11Q11                        | 120T2 | 85     |
| 215              | 215-                     | 121                          | 60    | 34     |
| 218              | 218-                     | 110                          | 49T2  | 59     |
| 219              | 219-                     | 150                          | 10T10 | 59     |
| 220              | 220-                     | 110                          | 110   | DUMMY  |
| 220              | A220-                    | 150                          | 60    | 10     |
| 220              | 220B-                    | 60                           | 60    | 100    |
| 220              | 220Q-                    | 11Q11                        | 150   | 59     |
| 223              | 223-                     | 150                          | 60    | 13C2   |
| 223              | 223FQ-                   | 150                          | 11Q11 | 62F12  |
| 225              | 225QF-                   | 20F12Q8                      | 118Q2 | 85     |
| 225              | 225Q-                    | 11Q11                        | 150   | 62Q2   |
| 229              | 229QF-                   | 20F12T8                      | 150   | 59     |
| 231              | 231Q-                    | 11Q11                        | 150   | 68Q2   |
| 231              | 231-                     | 10T10                        | 121   | 100    |
| 232              | 232Q-                    | 11Q11                        | 121   | 100    |
| 234              | A234-                    | 71C1                         | 150   | 13C2   |
| 234              | B234M-                   | 71C1A                        | 150   | 13C2   |
| 234              | 234-                     | 150                          | 71C1  | 13C2   |
| 235              | 235-                     | 150                          | DUMMY | 85     |
| 237              | 237A-                    | 150                          | 28T8  | 59     |
| 238              | 238F-                    | 18T8                         | 120T2 | 100    |
| 242              | 242-                     | 121                          | 121   | DUMMY  |
| 242              | 242A-                    | 71C1                         | 71C1  | 100    |
| 242              | 242B-                    | 121                          | 121   | EMPTY  |
| 244              | 244-                     | 150                          | 60    | 34     |
| 244              | 244A-                    | 60                           | 150   | 34     |
| 245              | 245F-                    | 150                          | 36F36 | 59     |
| 245              | 245Q-                    | 150                          | 10T10 | 85     |
| 245              | 245T-                    | 10T10                        | 150   | 85     |
| 245              | A245Q-                   | 10Q10                        | 150   | 85     |
| 246              | 246Q-                    | 150                          | 11Q11 | 85     |
| 246              | 246-                     | 120T2                        | 120T2 | 6T6    |
| 248              | 248-                     | 121                          | 121   | 6T6    |
| 248              | 248A-                    | 28T8                         | 120T2 | 100    |
| 248              | 248K-                    | 121                          | 121   | 6T6    |



Insert Layout Designator  
Size 2

ARINC 600

| SIZE 2 ARINC 600 |                          |                              |       |         |
|------------------|--------------------------|------------------------------|-------|---------|
| # of contacts    | INSERT LAYOUT DESIGNATOR | Shell Cavity Insert Position |       |         |
|                  |                          | A                            | B     | C       |
| 250              | 250-                     | EMPTY                        | 150   | 100     |
| 250              | 250A-                    | 150                          | DUMMY | 100     |
| 253              | 253C-                    | 120C2                        | 120C2 | 11Q2    |
| 253              | 253Q-                    | 120T2                        | 120T2 | 11Q2    |
| 253              | A253Q-                   | 120T2                        | 118Q2 | 11Q2    |
| 253              | 253-                     | 120T2                        | 120T2 | 13C2    |
| 254              | 254F-                    | 150                          | 4C4   | 100     |
| 255              | 255Q-                    | 121                          | 121   | 11Q2    |
| 260              | 260-                     | 150                          | 10T10 | 100     |
| 261              | 261Q-                    | 150                          | 11Q11 | 100     |
| 262              | 262F-                    | 121                          | 121   | 20F12   |
| 262              | 262Q-                    | 150                          | 12F4  | 100     |
| 263              | 263T-                    | 28T8                         | 150   | 85      |
| 264              | 264Q-                    | 118Q2                        | 118Q2 | 24T4    |
| 264              | A264Q-                   | 118Q2                        | 118Q2 | 20Q4    |
| 266              | 266-                     | 150                          | 110   | 6P6     |
| 268              | 268FQ-                   | 150                          | 18T8  | 100     |
| 270              | 270FQ-                   | 20F12T8                      | 150   | 100     |
| 271              | 271F-                    | 150                          | 36F36 | 85      |
| 271              | A271-                    | 121                          | 150   | Dummy   |
| 274              | A274-                    | 150                          | 24    | 100     |
| 274              | 274A-                    | 120T2                        | 120T2 | 34      |
| 274              | 274-                     | 24                           | 150   | 100     |
| 276              | 276-                     | 121                          | 121   | 34      |
| 267              | 267-                     | 150                          | 104   | 13C2    |
| 277              | 277FQ-                   | 110                          | 150   | 17F12Q2 |
| 277              | 277Q-                    | 150                          | 121   | 6Q6     |
| 282              | 282-                     | 126                          | 150   | 6Q6     |
| 283              | 283C-                    | 120C2                        | 150   | 13C2    |
| 283              | 283Q-                    | 150                          | 118Q2 | 11Q2    |
| 283              | 283QF-                   | 150                          | 121   | 12F5Q2  |
| 283              | A283-                    | 120T2                        | 150   | 13C2    |
| 283              | B283-                    | 150                          | 118Q2 | 13C2    |
| 283              | 283-                     | 150                          | 120T2 | 13C2    |
| 284              | 284-                     | 150                          | 121   | 13C2    |
| 284              | 284Q-                    | 150                          | 121   | 11Q2    |
| 284              | A284-                    | 121                          | 150   | 13C2    |
| 285              | 285-                     | 150                          | 35    | 100     |
| 288              | 288TF-                   | 121                          | 150   | 17F12T2 |
| 290              | 290Q-                    | 121                          | 121   | 46Q2    |
| 291              | 291-                     | 71C1A                        | 120T2 | 100     |
| 294              | 294-                     | 150                          | 110   | 34      |
| 294              | A294Q-                   | 150                          | 120T2 | 20Q4    |
| 294              | 294C-                    | 150                          | 120T2 | 24T4    |

| SIZE 2 ARINC 600 |                          |                              |       |         |
|------------------|--------------------------|------------------------------|-------|---------|
| # of contacts    | INSERT LAYOUT DESIGNATOR | Shell Cavity Insert Position |       |         |
|                  |                          | A                            | B     | C       |
| 295              | 295-                     | 150                          | 121   | 24T4    |
| 295              | 295Q-                    | 150                          | 121   | 20Q4    |
| 300              | 300-                     | 150                          | 150   | DUMMY   |
| 300              | B300-                    | 150                          | 150   | EMPTY   |
| 301              | 301-                     | 121                          | 121   | 59      |
| 304              | A304-                    | 120T2                        | 150   | 34      |
| 304              | 304-                     | 150                          | 120T2 | 34      |
| 305              | 305-                     | 150                          | 121   | 34      |
| 306              | 306-                     | 150                          | 150   | 6T6     |
| 310              | 310-                     | 60                           | 150   | 100     |
| 310              | 310A-                    | 150                          | 60    | 100     |
| 312              | 312F-                    | 150                          | 150   | 12F5C2  |
| 313              | 313-                     | 150                          | 150   | 13C2    |
| 313              | 313Q-                    | 150                          | 150   | 11Q2    |
| 317              | 317TF-                   | 150                          | 150   | 17F12T2 |
| 321              | 321-                     | 150                          | 71C1  | 100     |
| 324              | 324F-                    | 150                          | 150   | 24F4    |
| 324              | 324Q-                    | 150                          | 150   | 20Q4    |
| 324              | A324Q-                   | 150                          | 150   | 20Q4    |
| 324              | 324-                     | 150                          | 150   | 24T4    |
| 325              | 325Q-                    | 118Q2                        | 118Q2 | 85      |
| 327              | 327-                     | 121                          | 121   | 85      |
| 329              | 329-                     | 120T2                        | 150   | 59      |
| 329              | A329-                    | 150                          | 120T2 | 59      |
| 330              | 330-                     | 150                          | 121   | 59      |
| 334              | 334-                     | 150                          | 150   | 34      |
| 338              | 338F-                    | 150                          | 120F2 | 68F2    |
| 338              | 338Q-                    | 150                          | 118Q2 | 68Q2    |
| 340              | 340-                     | 120T2                        | 120T2 | 100     |
| 342              | 342-                     | 121                          | 121   | 100     |
| 357              | 357-                     | 150                          | 150   | 57      |
| 359              | 359-                     | 150                          | 150   | 59      |
| 368              | 368Q-                    | 150                          | 150   | 68Q2    |
| 370              | 370-                     | 150                          | 120T2 | 100     |
| 371              | 371A-                    | 121                          | 150   | 100     |
| 371              | 371-                     | 150                          | 121   | 100     |
| 385              | 385-                     | 150                          | 150   | 85      |
| 400              | 400-                     | 150                          | 150   | 100     |

Insert Layout Designator  
Size 3

| SIZE 3 ARINC 600 |                          |                              |         |         |       |         |       |
|------------------|--------------------------|------------------------------|---------|---------|-------|---------|-------|
| # OF Contacts    | INSERT LAYOUT DESIGNATOR | Shell Cavity Insert Position |         |         |       |         |       |
|                  |                          | A                            | B       | C       | D     | E       | F     |
| 21               | 021-                     | 4C4                          | 4C4     | 13C2    | EMPTY | EMPTY   | -     |
| 26               | 026-                     | EMPTY                        | EMPTY   | 13C2    | EMPTY | EMPTY   | 13C2  |
| 50               | 050-                     | 4C4                          | 4C4     | DUMMY   | 4C4   | 4C4     | 34    |
| 56               | 056Q-                    | 11Q11                        | 11Q11   | 6Q6     | 11Q11 | 11Q11   | 6Q6   |
| 66               | 066Q-                    | 11Q11                        | 11Q11   | 11Q2    | 11Q11 | 11Q11   | 11Q2  |
| 70               | 070-                     | 11W11                        | 11W11   | 13C2    | 11W11 | 11W11   | 13C2  |
| 103              | 103-                     | 11W11                        | 11W11   | DUMMY   | 11W11 | 11W11   | 59    |
| 113              | 113-                     | EMPTY                        | EMPTY   | 100     | EMPTY | EMPTY   | 13C2  |
| 113              | A113-                    | EMPTY                        | EMPTY   | 13C2    | EMPTY | EMPTY   | 100   |
| 114              | 114-                     | EMPTY                        | EMPTY   | EMPTY   | EMPTY | EMPTY   | EMPTY |
| 121              | 121-                     | 121                          | DUMMY   | EMPTY   | DUMMY | DUMMY   | EMPTY |
| 137              | 137A-                    | 4C4                          | 120T2   | 13C2    | EMPTY | EMPTY   | EMPTY |
| 156              | 156Q-                    | DUMMY                        | 10T10   | 25      | 11Q11 | 10T10   | 100   |
| 162              | 162-                     | 11W11                        | 11W11   | 59      | 11W11 | 11W11   | 59    |
| 164              | 164QC-                   | 150                          | 4C4     | 6Q6     | BLANK | 4C4     | BLANK |
| 168              | 168QC-                   | 150                          | 4C4     | 6Q6     | 4C4   | 4C4     | BLANK |
| 168              | 168Q-                    | 11Q11                        | 11Q11   | 100     | 11Q11 | 11Q11   | 20Q4  |
| 172              | 172Q-                    | 150                          | BLANK   | 6Q6     | 10Q10 | BLANK   | 6Q6   |
| 178              | 178F-                    | 4C4                          | 120T2   | 17F12Q2 | 4C4   | 120T2   | 11Q2  |
| 190              | 190QT-                   | 10T10                        | 10T10   | 6T6     | 10T10 | 118Q2   | 34    |
| 192              | 192-                     | 24                           | 24      | 100     | BLANK | 10T10   | 34    |
| 207              | 207Q-                    | 11Q11                        | 11Q11   | DUMMY   | 11Q11 | 150     | 20Q4  |
| 209              | 209Q-                    | 11Q11                        | 11Q11   | 11Q2    | 11Q11 | 150     | 11Q2  |
| 214              | 214Q-                    | 11Q11                        | 11Q11   | 85      | 11Q11 | 11Q11   | 85    |
| 219              | 219-                     | 28T8                         | 28T8    | 13C2    | 28T8  | DUMMY   | DUMMY |
| 222              | 222-                     | 11Q11                        | DUMMY   | 100     | 11Q11 | DUMMY   | 100   |
| 225              | 225Q-                    | 11Q11                        | 150     | 62Q2    |       |         |       |
| 231              | 231-                     | 121                          | 10T10   | 100     | EMPTY | EMPTY   | EMPTY |
| 242              | 242CT-                   | 8C8                          | 120T2   | 85      | 13C5  | 10T10   | 6T6   |
| 246              | 246Q-                    | 11Q11                        | 11Q11   | 68Q2    | 60    | 60      | 34    |
| 259              | 259Q-                    | 4C4                          | 120T2   | DUMMY   | 4C4   | 120T2   | 11Q2  |
| 261              | 261C-                    | 4C4                          | 120T2   | DUMMY   | 4C4   | 120T2   | 13C2  |
| 261              | 261QC-                   | 4C4                          | 120T2   | blank   | 4C4   | 120T2   | 11Q2  |
| 264              | 264Q-                    | 118Q2                        | 120     | EMPTY   | EMPTY | EMPTY   | EMPTY |
| 268              | 268C-                    | 10C10                        | 10C10   | 6C6     | 121   | 121     | blank |
| 269              | 269M-                    | 2C2                          | 2C2     | 13C2    | 2C2   | 150     | 100   |
| 270              | 270QT-                   | 4C4                          | 120T2   | 11Q2    | 4C4   | 120T2   | 11Q2  |
| 271              | 271B-                    | 4C4                          | 4C4     | 13C2    | EMPTY | 150     | 100   |
| 271              | 271C-                    | 4C4                          | 4C4     | 13C2    | DUMMY | 150     | 100   |
| 271              | 271M-                    | 2C2                          | 2C2     | 13C2    | 4C4   | 150     | 100   |
| 272              | 272-                     | 4C4                          | 4C4     | 13C2    | 121   | 150     | 100   |
| 272              | 272QT-                   | 4C4                          | 120T2   | 11Q2    | 4C4   | 120T2   | 13C2  |
| 274              | 274Q-                    | 4C4                          | 120T2   | 11Q2    | 4C4   | 120T2   | 11Q2  |
| 274              | B274-                    | 4C4                          | 120T2   | 13C2    | 4C4   | 120T2   | 13C2  |
| 274              | 274-                     | 4C4                          | 120T2   | 11Q2    | 4C4   | 120T2   | 11Q2  |
| 278              | 278QF-                   | 4C4                          | 118Q2   | 17F12Q2 | 4C4   | 118Q2   | 13C2  |
| 280              | 280QF-                   | 36F36                        | 36F36   | 11Q2    | 36F36 | 150     | 11Q2  |
| 284              | 284-                     | 71C1                         | 71C1    | EMPTY   | 71C1  | 71C1    | EMPTY |
| 293              | 293QF-                   | 11T11                        | 20F12Q8 | 25      | 120C2 | 17C12F5 | 100   |
| 296              | 296QT-                   | 11T11                        | 11T11   | 11Q2    | 11T11 | 150     | 100   |
| 296              | A296-                    | 24                           | 24      | 100     | 24    | 24      | 100   |
| 307              | 307Q-                    | 110                          | 11Q11   | 6Q6     | 24    | 150     | 6Q6   |
| 308              | 308-                     | 60                           | 60      | 34      | 60    | 60      | 34    |
| 310              | 310-                     | 71C1                         | 71C1    | 13C2    | 71C1  | 71C1    | 13C2  |
| 313              | 313A-                    | 150                          | DUMMY   | 13C2    | 150   | DUMMY   | DUMMY |
| 322              | 322Q-                    | 150                          | 11Q11   | 54      | 11Q11 | 11Q11   | 85    |
| 326              | 326-                     | EMPTY                        | 150     | 13C2    | EMPTY | 150     | 13C2  |
| 328              | 328QC-                   | 150                          | 11Q11   | 6C6     | 150   | 11Q11   | DUMMY |

Insert Layout Designator  
Size 3

ARINC 600

| SIZE 3 ARINC 600 |                                |                              |       |         |       |       |         |
|------------------|--------------------------------|------------------------------|-------|---------|-------|-------|---------|
| # OF<br>Contacts | INSERT<br>LAYOUT<br>DESIGNATOR | Shell Cavity Insert Position |       |         |       |       |         |
|                  |                                | A                            | B     | C       | D     | E     | F       |
| 328              | 328Q-                          | 126                          | 150   | 11Q2    | 11Q11 | 11Q11 | 11Q2    |
| 330              | 330M-                          | 2C2                          | 2C2   | 13C2    | 150   | 150   | 13C2    |
| 330              | A330-                          | 150                          | 150   | 13C2    | 2C2   | 2C2   | 13C2    |
| 333              | 333-                           | 150                          | 10T10 | 11Q2    | 150   | 10T10 | DUMMY   |
| 360              | 360-                           | 150                          | 150   | 34      | 10T10 | 10T10 | 6T6     |
| 362              | 362Q-                          | 150                          | 150   | 34      | 11Q11 | 10T10 | 6Q6     |
| 362              | Q362-                          | 11Q11                        | 11Q11 | 6C6     | 150   | 150   | 34      |
| 387              | 387Q-                          | 11Q11                        | 11Q11 | 6Q6     | 150   | 150   | 59      |
| 387              | 387-                           | 24                           | 24    | 34      | 150   | 121   | 34      |
| 394              | 394QF-                         | 36F36                        | 36F36 | 11Q2    | 150   | 150   | 11Q2    |
| 404              | 404-                           | 150                          | 10T10 | 11Q2    | 150   | 11Q11 | 68Q2    |
| 405              | 405QT-                         | 150                          | 11T11 | 11Q2    | 150   | 11Q11 | 68Q2    |
| 410              | 410-                           | 60                           | 10T10 | 6T6     | 150   | 150   | 34      |
| 421              | 421-                           | 4C4                          | 4C4   | 13C2    | 150   | 150   | 100     |
| 422              | 422-                           | 150                          | 28T8  | 11Q2    | 150   | 11Q11 | 68Q2    |
| 428              | 428QC-                         | 150                          | 11Q11 | 6C6     | 150   | 11Q11 | 100     |
| 440              | 440-                           | 60                           | 60    | 100     | 60    | 60    | 100     |
| 444              | 444-                           | 150                          | 121   | 13C2    | 150   | 10T10 | DUMMY   |
| 450              | 450-                           | 150                          | 150   | 6W6     | 121   | 10T10 | 13C2    |
| 450              | 450A-                          | 150                          | 150   | EMPTY   | 121   | EMPTY | 13C2    |
| 454              | 454-                           | 150                          | 150   | DUMMY   | 121   | DUMMY | 13C2    |
| 454              | 454Q-                          | 126                          | 150   | 11Q2    | 150   | 11Q11 | 6Q6     |
| 460              | 460-                           | 121                          | DUMMY | 59      | 121   | DUMMY | 59      |
| 468              | 468-                           | 150                          | 71C1  | 13C2    | 150   | 71C1  | 13C2    |
| 470              | 470-                           | 150                          | EMPTY | 85      | 150   | EMPTY | 85      |
| 476              | 476-                           | 150                          | 150   | 13C2    | EMPTY | 150   | 13C2    |
| 486              | 486-                           | 10T10                        | 121   | 100     | 121   | 121   | 13C2    |
| 487              | 487Q-                          | 11Q11                        | 150   | 13C2    | 150   | 150   | 13C2    |
| 490              | 490F-                          | 150                          | 36F   | 59      | 150   | 36F   | 59      |
| 494              | 494-                           | 121                          | 120T2 | 6T6     | 121   | 120T2 | 6T6     |
| 496              | 496-                           | 121                          | 121   | 6T6     | 121   | 121   | 6T6     |
| 502              | 502-                           | 60                           | 24    | 59      | 150   | 150   | 59      |
| 508              | 508QF-                         | 36F36                        | 150   | 11Q2    | 150   | 150   | 11Q2    |
| 510              | 510-                           | 121                          | 121   | 13C2    | 121   | 121   | 13C2    |
| 510              | 510A-                          | DUMMY                        | 150   | 100     | 10T10 | 150   | 100     |
| 536              | 536F-                          | 150                          | 18T8  | 100     | 150   | 18T8  | 100     |
| 537              | 537-                           | 4C4                          | 120T2 | 100     | 150   | 150   | 13C2    |
| 537              | A537-                          | 150                          | 150   | 13C2    | 4C4   | 120T2 | 100     |
| 537              | 537A-                          | 121                          | 24    | 100     | 121   | 71C1  | 100     |
| 543              | 543-                           | 121                          | 121   | EMPTY   | 121   | 121   | 59      |
| 546              | 546Q-                          | 11Q11                        | 150   | 85      | 150   | 150   | DUMMY   |
| 546              | A546Q-                         | 11Q11                        | 150   | 85      | 150   | 150   | EMPTY   |
| 552              | 552-                           | 121                          | 121   | 34      | 121   | 121   | 34      |
| 554              | 554-                           | 121                          | 150   | 6P6     | 121   | 150   | 6P6     |
| 554              | 554B-                          | 121                          | 150   | 6T6     | 150   | 121   | 6T6     |
| 556              | 556-                           | 150                          | 28    | 100     | 150   | 28    | 100     |
| 559              | 559-                           | 10T10                        | 120T2 | 100     | 150   | 120T2 | 59      |
| 570              | 570QF-                         | 150                          | 118Q2 | 17F12Q2 | 150   | 118Q2 | 13C2    |
| 574              | 574QF-                         | 150                          | 118Q2 | 17F12Q2 | 150   | 118Q2 | 17F12Q2 |
| 585              | 585-                           | 150                          | 150   | 25      | 150   | 10T10 | 100     |
| 596              | 596-                           | 121                          | 110   | 100     | 121   | 110   | 34      |
| 600              | 600-                           | 150                          | 150   | EMPTY   | 150   | 150   | EMPTY   |
| 602              | 602-                           | 121                          | 121   | 59      | 121   | 121   | 59      |
| 608              | 608-                           | 150                          | 24    | 100     | 150   | 150   | 34      |
| 608              | A608-                          | 150                          | 150   | 34      | 150   | 24    | 100     |
| 608              | B608-                          | 120T2                        | 150   | 34      | 120T2 | 150   | 34      |
| 612              | 612Q-                          | 150                          | 150   | 6Q6     | 150   | 150   | 6Q6     |
| 613              | 613-                           | 150                          | 150   | DUMMY   | 150   | 150   | 13C2    |
| 618              | 618Q-                          | 150                          | 150   | 100     | 150   | DUMMY | 68Q2    |
| 619              | 619Q-                          | 150                          | 150   | 11Q2    | 150   | 150   | 6T6     |

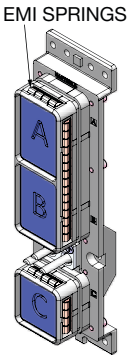
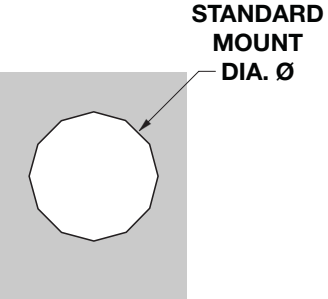
Insert Layout Designator  
Size 3

| SIZE 3 ARINC 600 |                                |                              |       |        |        |       |         |
|------------------|--------------------------------|------------------------------|-------|--------|--------|-------|---------|
| # OF<br>Contacts | INSERT<br>LAYOUT<br>DESIGNATOR | Shell Cavity Insert Position |       |        |        |       |         |
|                  |                                | A                            | B     | C      | D      | E     | F       |
| 619              | A619Q-                         | 150                          | 150   | 6Q6    | 150    | 150   | 13C2    |
| 620              | 620Q-                          | 11Q11                        | 150   | 59     | 150    | 150   | 100     |
| 620              | 620-                           | 150                          | 60    | 100    | 150    | 60    | 100     |
| 626              | 626-                           | 150                          | 150   | 13C2   | 150    | 150   | 13C2    |
| 626              | 626-                           | 150                          | 150   | 13C2   | 150    | 150   | 13C2    |
| 626              | 626Q-                          | 150                          | 150   | 11Q2   | 150    | 150   | 11Q2    |
| 630              | 630QF-                         | 150                          | 150   | 13C2   | 150    | 150   | 17F12Q2 |
| 631              | 631-                           | 10T10                        | 150   | 100    | 121    | 150   | 100     |
| 633              | 633T-                          | 150                          | 150   | 100    | 150    | 24    | 59      |
| 636              | 636QT-                         | 150                          | 150   | 18T4Q2 | 150    | 150   | 18T4Q2  |
| 638              | 638Q-                          | 150                          | 118Q2 | 34     | 150    | 150   | 34      |
| 645              | 645-                           | 121                          | 24    | 100    | 150    | 150   | 100     |
| 646              | 646QF-                         | 150                          | 150   | 100    | 11QF11 | 150   | 85      |
| 646              | 646Q-                          | 11Q11                        | 150   | 85     | 150    | 150   | 62Q2    |
| 648              | 648-                           | 150                          | 150   | 24     | 150    | 150   | 24      |
| 652              | 652QF-                         | 150                          | 150   | 12F5C2 | 118Q2  | 118Q2 | 100     |
| 653              | 653-                           | 150                          | 150   | 13C2   | 120T2  | 120T2 | 100     |
| 664              | 664QT-                         | 150                          | 150   | 59     | 150    | 150   | 5QT2    |
| 665              | A665T-                         | 150                          | 150   | 59     | 150    | 150   | 6T6     |
| 665              | 665T-                          | 150                          | 150   | 6T6    | 150    | 150   | 59      |
| 668              | 668-                           | 150                          | 150   | 34     | 150    | 150   | 34      |
| 670              | 670Q-                          | 121                          | 150   | 62Q2   | 121    | 150   | 62Q2    |
| 671              | 671Q-                          | 11Q11                        | 150   | 85     | 150    | 150   | 85      |
| 674              | 674Q-                          | 150                          | 150   | 6Q6    | 150    | 150   | 68Q2    |
| 675              | 675-                           | 150                          | 150   | 16     | 150    | 150   | 59      |
| 678              | 678T-                          | 150                          | 150   | 100    | 150    | 28T8  | 100     |
| 680              | 680-                           | 120T2                        | 120T2 | 100    | 120T2  | 120T2 | 100     |
| 693              | 693-                           | 150                          | 150   | 59     | 150    | 150   | 34      |
| 699              | 699-                           | 150                          | 120T2 | 100    | 150    | 120T2 | 59      |
| 700              | 700-                           | 150                          | 150   | DUMMY  | 150    | 150   | 100     |
| 710              | 710Q-                          | 150                          | 118Q2 | 85     | 150    | 118Q2 | 85      |
| 710              | 710-                           | 150                          | 120T2 | 85     | 150    | 120T2 | 85      |
| 712              | 712-                           | 150                          | 150   | 12F5C2 | 150    | 150   | 100     |
| 713              | 713-                           | 150                          | 150   | 100    | 150    | 150   | 13C2    |
| 713              | A713-                          | 150                          | 150   | 13C2   | 150    | 150   | 100     |
| 713              | 713A-                          | 150                          | 150   | 100    | 150    | 150   | 11Q2    |
| 718              | 718-                           | 150                          | 150   | 59     | 150    | 150   | 59      |
| 734              | 734-                           | 150                          | 150   | 100    | 150    | 150   | 34      |
| 740              | 740-                           | 150                          | 120T2 | 100    | 150    | 120T2 | 100     |
| 740              | 740Q-                          | 150                          | 150   | 68Q2   | 150    | 150   | 68Q2    |
| 742              | 742-                           | 121                          | 150   | 100    | 121    | 150   | 100     |
| 742              | 742B-                          | 121                          | 150   | 100    | 150    | 121   | 100     |
| 756              | 756-                           | 150                          | 150   | 100    | 150    | 121   | 85      |
| 759              | 759-                           | 150                          | 150   | 59     | 150    | 150   | 100     |
| 767              | 767-                           | 150                          | 150   | 85     | 150    | 150   | 85      |
| 770              | 770-                           | 150                          | 150   | 85     | 150    | 150   | 85      |
| 770              | 770Q-                          | 150                          | 150   | 100    | 150    | 150   | 68Q2    |
| 784              | 784-                           | 150                          | 150   | 84     | 150    | 150   | 100     |
| 785              | 785-                           | 150                          | 150   | 100    | 150    | 150   | 85      |
| 800              | 800-                           | 150                          | 150   | 100    | 150    | 150   | 100     |



PART NUMBER KEY

| 1. Connector Series | 2. Class | 3. Shell Style | 4. Insert Layout Designator PG 15-21 | 5. Shell Type | 6. Mounting Modifier PG 22-24 | 7. Polarizing Position PG 25-27 | 8. Contact Modifier Material |
|---------------------|----------|----------------|--------------------------------------|---------------|-------------------------------|---------------------------------|------------------------------|
| A                   | D        | 3              | 313                                  | 3             | 00                            | 01                              | 00                           |

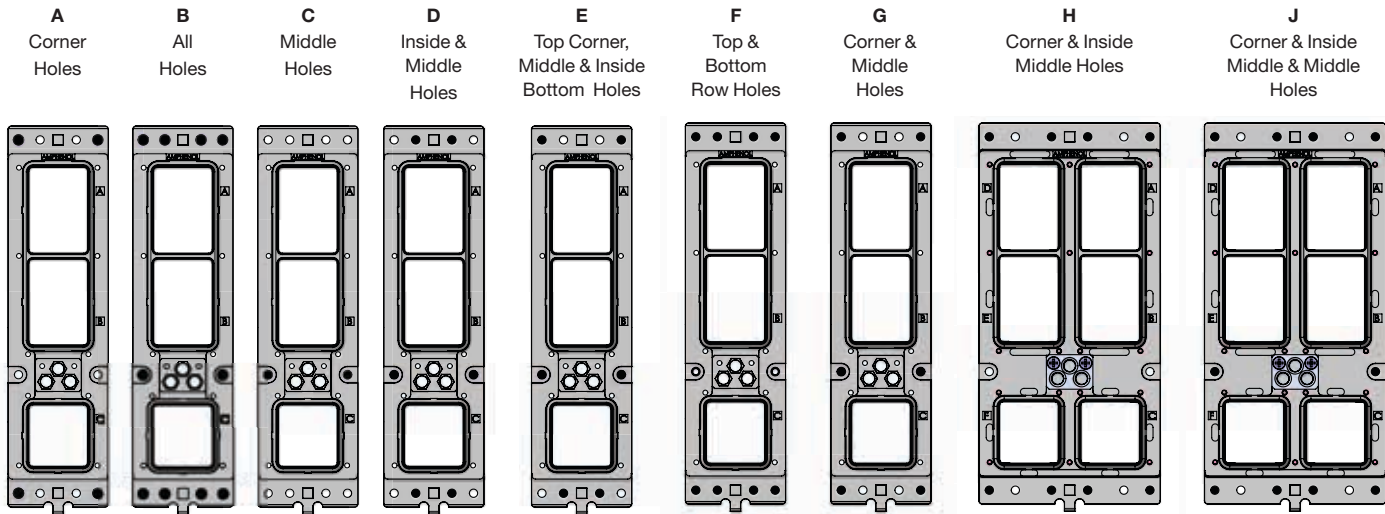


STANDARD MOUNT

| No. of Thru Holes                                                  | Hole Location | Dia. Ø In (mm) | Features                       | (MOUNTING MODIFIER) PLATING PART NUMBER |                              |                                    |                    |                |            |                       |
|--------------------------------------------------------------------|---------------|----------------|--------------------------------|-----------------------------------------|------------------------------|------------------------------------|--------------------|----------------|------------|-----------------------|
|                                                                    |               |                |                                | Chemical Conversion Class 3             | Chemical Conversion Class 1A | RoHS Compliant Chemical Conversion | Electroless Nickel | Yellow Cadmium | Olive Drab | Nickel-PTFE/Durmalon™ |
| ALL                                                                | B             | 0.148 (3.76)   | 3 Lugs Removed (SZ 1 REC Only) | 00                                      | 90                           | R0                                 | 89                 | 70             | D0         | NA                    |
|                                                                    |               |                |                                | 02                                      | 95                           | R2                                 | 91                 | 72             | DB         | ND                    |
| 4                                                                  | A             | 0.165 (4.19)   |                                | 1A                                      | 2H                           | R9                                 | AJ                 | 12             | DJ         | NK                    |
| (MOUNTING MODIFIER) STANDARD MOUNTING WITH EMI SPRINGS (PLUG ONLY) |               |                |                                |                                         |                              |                                    |                    |                |            |                       |
| ALL                                                                | B             | 0.148 (3.76)   | EMI SPRING                     | *20                                     | *2J                          | *RA                                | 17                 | 19             | DK         | NL                    |

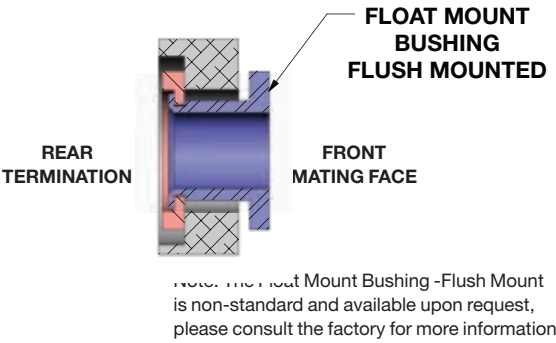
Amphenol does not recommend Chem Film plating with EMI springs due to this plating's tendency to scratch and/or flake off during repeated mating cycles.

MOUNTING LOCATION FIGURE

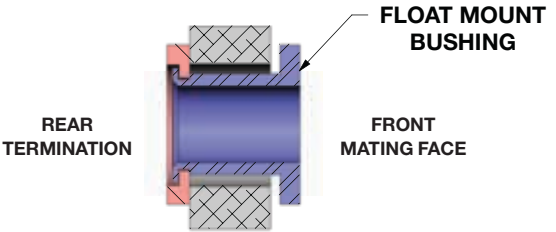


PART NUMBER KEY

| 1. Connector Series | 2. Class | 3. Shell Style | 4. Insert Layout Designator PG 15-21 | 5. Shell Type | 6. Mounting Modifier PG 22-24 | 7. Polarizing Position PG 25-27 | 8. Contact Modifier Material |
|---------------------|----------|----------------|--------------------------------------|---------------|-------------------------------|---------------------------------|------------------------------|
| A                   | D        | 3              | 313                                  | 3             | 00                            | 01                              | 00                           |



NOTE: The Float Mount Bushing - Flush Mount is non-standard and available upon request, please consult the factory for more information.



FLOAT MOUNT

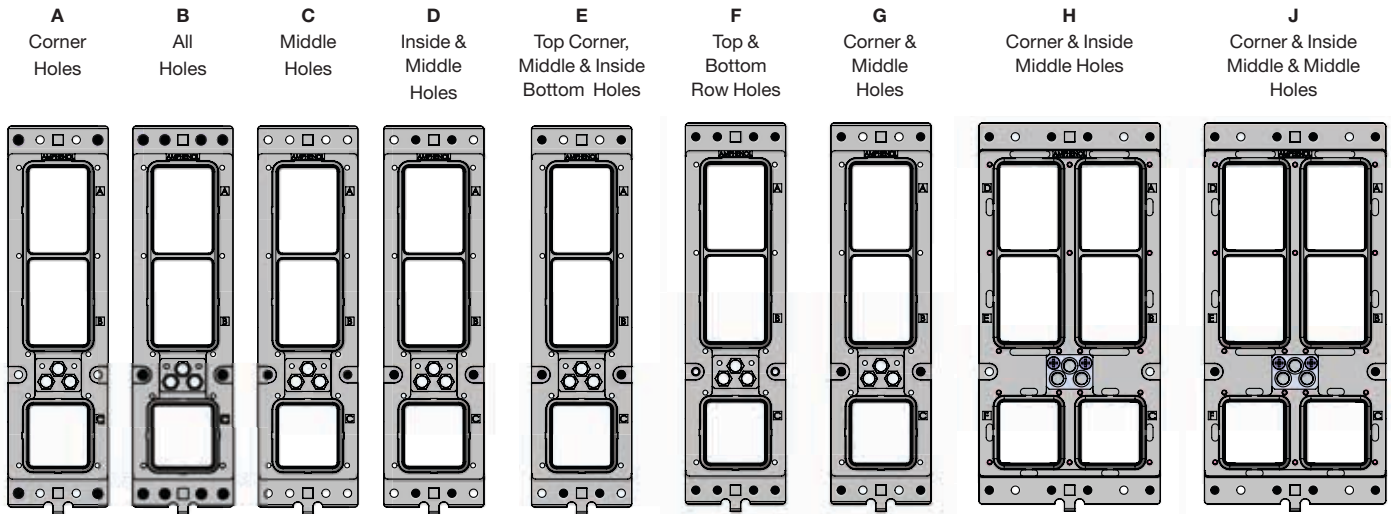
| Shell Sizes | Radial Float MIN In (mm) | No. of Float Mounts | Hole Location | Features | (MOUNTING MODIFIER) PLATING PART NUMBER |                              |                                    |                    |                |            |                       |
|-------------|--------------------------|---------------------|---------------|----------|-----------------------------------------|------------------------------|------------------------------------|--------------------|----------------|------------|-----------------------|
|             |                          |                     |               |          | Chemical Conversion Class 3             | Chemical Conversion Class 1A | RoHS Compliant Chemical Conversion | Electroless Nickel | Yellow Cadmium | Olive Drab | Nickel-PTFE/Durmalon™ |
| ALL         | 0.048 (1.22)             | 4                   | A             |          | 23                                      | 2L                           | RC                                 | AK                 | 7A             | DM         | NN                    |
|             | 0.030 (0.76)             |                     |               |          | SB                                      | 35                           | M3                                 | C2                 | 8B             | E4         | P4                    |
| 2           | 0.030 (0.76)             | 8                   | F             |          | 1L                                      | 21                           | RP                                 | AR                 | B1             | D2         | N3                    |
| 3           |                          |                     | H             |          |                                         |                              |                                    |                    |                |            |                       |

FLOAT MOUNT WITH EMI SPRINGS (PLUG ONLY)

|     |              |   |   |            |     |     |     |    |    |    |    |
|-----|--------------|---|---|------------|-----|-----|-----|----|----|----|----|
| ALL | 0.048 (1.22) | 4 | A | EMI SPRING | *1C | *2N | *RE | 27 | 7C | DP | NR |
| 2   | 0.030 (0.76) | 8 | F |            | *1D | *2R | *RG | 92 | 7E | DS | NT |
| 3   |              | 8 | H |            |     |     |     |    |    |    |    |

Amphenol does not recommend Chem Film plating with EMI springs due to this plating's tendency to scratch and/or flake off during repeated mating cycles.

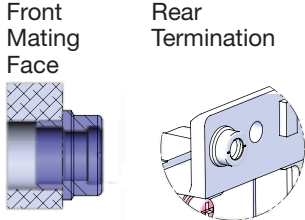
MOUNTING LOCATION FIGURE



Mounting Modifier  
Clinch Nut with EMI Springs

PART NUMBER KEY

| 1. Connector Series | 2. Class | 3. Shell Style | 4. Insert Layout Designator PG 15-21 | 5. Shell Type | 6. Mounting Modifier PG 22-24 | 7. Polarizing Position PG 25-27 | 8. Contact Modifier Material |
|---------------------|----------|----------------|--------------------------------------|---------------|-------------------------------|---------------------------------|------------------------------|
| A                   | D        | 3              | 313                                  | 3             | 00                            | 01                              | 00                           |



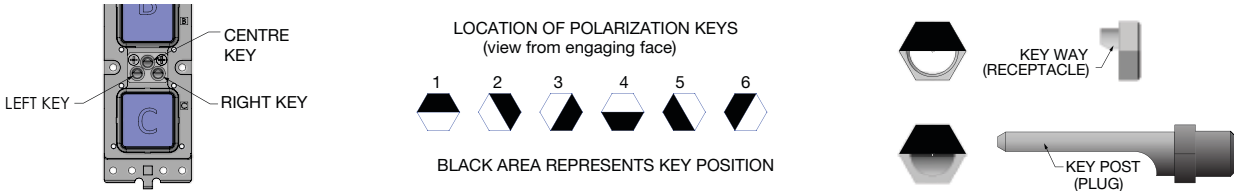
CLINCH NUTS

| Clinch Nut Size                          | Connector Size | No. of Clinch Nuts |               |            |               | Features                  | (MOUNTING MODIFIER) PLATING |                              |                                    |                    |                |            |                          |    |    |
|------------------------------------------|----------------|--------------------|---------------|------------|---------------|---------------------------|-----------------------------|------------------------------|------------------------------------|--------------------|----------------|------------|--------------------------|----|----|
|                                          |                | Plug               | Hole Location | Receptacle | Hole Location |                           | Chemical Conversion Class 3 | Chemical Conversion Class 1A | RoHS Compliant Chemical Conversion | Electroless Nickel | Yellow Cadmium | Olive Drab | Nickel-PTFE/<br>Duralon™ |    |    |
| #4-40                                    | 1              | NA                 |               | 4          | A             | 3 Lugs Removed (REC Only) | 1F                          | 2T                           | RJ                                 | 94                 | 7G             | DU         | NV                       |    |    |
|                                          |                | 4                  | A             |            |               |                           | 03                          | 2B                           | R3                                 | AN                 | 73             | DC         | NE                       |    |    |
|                                          | 2              | 2                  | C             | 2          | C             |                           | 10                          | 2F                           | R7                                 | AG                 | 77             | DG         | NH                       |    |    |
|                                          |                | 4                  | A             | 6          | G             |                           | 03                          | 2B                           | R3                                 | AN                 | 73             | DC         | NE                       |    |    |
|                                          |                | 6                  | G             | 4          | A             |                           | SC                          | 2U                           | M7                                 | AU                 | 7S             | E7         | P8                       |    |    |
|                                          |                | 6                  | D             | 6          | D             |                           | 1H                          | 2V                           | RL                                 | AD                 | 7J             | DW         | NY                       |    |    |
|                                          |                | 8                  | F             | 8          | F             |                           | S9                          | 33                           | M1                                 | A9                 | 7V             | E2         | P2                       |    |    |
|                                          |                | 10                 | B             | 10         | B             |                           | 08                          | 2D                           | R5                                 | AB                 | 75             | DE         | NG                       |    |    |
|                                          | 3              | 2                  | C             | 2          | C             |                           | 10                          | 2F                           | R7                                 | AG                 | 77             | DG         | NH                       |    |    |
|                                          |                | 8                  | H             | 10         | J             |                           | 03                          | 2B                           | R3                                 | AN                 | 73             | DC         | NE                       |    |    |
|                                          |                | 10                 | J             | 8          | H             |                           | SC                          | 2U                           | M7                                 | AU                 | 7S             | E7         | P8                       |    |    |
|                                          |                | 12                 | F             | 12         | F             |                           | S9                          | 33                           | M1                                 | A9                 | 7V             | E2         | P2                       |    |    |
|                                          |                | 14                 | B             | 14         | B             |                           | 08                          | 2D                           | R5                                 | AB                 | 75             | DE         | NG                       |    |    |
|                                          |                | #6-32              | 1             | NA         |               |                           | 4                           | A                            | 3 Lugs Removed (REC Only)          | 1E                 | 2S             | RH         | 93                       | 7F | DT |
| 4                                        | A              |                    |               | 01         | 2A            | R1                        |                             |                              |                                    | AA                 | 71             | DA         | NC                       |    |    |
| 2                                        | 2              |                    | C             | 2          | C             | 11                        | 2G                          | R8                           |                                    | AH                 | 78             | DH         | NJ                       |    |    |
|                                          | 4              |                    | A             | 6          | G             | 01                        | 2A                          | R1                           |                                    | AA                 | 71             | DA         | NC                       |    |    |
|                                          | 6              |                    | G             | 6          | E             | 04                        | 2C                          | R4                           |                                    | AE                 | 74             | DD         | NF                       |    |    |
|                                          | 8              |                    | F             | 8          | F             | SA                        | 34                          | M2                           |                                    | C1                 | 8A             | E3         | P3                       |    |    |
|                                          | 10             |                    | B             | 10         | B             | 09                        | 2E                          | R6                           |                                    | AC                 | 76             | DF         | NB                       |    |    |
|                                          | 2              |                    | C             | 2          | C             | 11                        | 2G                          | R8                           |                                    | AH                 | 78             | DH         | NJ                       |    |    |
| 3                                        | 8              |                    | H             | 10         | J             | 01                        | 2A                          | R1                           |                                    | AA                 | 71             | DA         | NC                       |    |    |
|                                          | 10             |                    | J             | 8          | H             | 04                        | 2C                          | R4                           |                                    | AE                 | 74             | DD         | NF                       |    |    |
|                                          | 12             |                    | F             | 12         | F             | SA                        | 34                          | M2                           |                                    | C1                 | 8A             | E3         | P3                       |    |    |
|                                          | 14             |                    | B             | 14         | B             | 09                        | 2E                          | R6                           |                                    | AC                 | 76             | DF         | NB                       |    |    |
|                                          | M3             |                    | 1             | 4          | A             | 4                         | A                           | S5                           |                                    | 29                 | RV             | AV         | 7T                       | D7 | N8 |
|                                          |                |                    |               | 4          | A             | 4                         | A                           | S5                           |                                    | 29                 | RV             | AV         | 7T                       | D7 | N8 |
| 2                                        |                | 6                  | D             | 6          | D             | S2                        | 24                          | RS                           | AS                                 | 7N                 | D4             | N5         |                          |    |    |
|                                          |                | 6                  | G             | 6          | G             | S3                        | 28                          | RU                           | S4                                 | 7R                 | D6             | N7         |                          |    |    |
|                                          |                | 10                 | B             | 10         | B             | 1N                        | 26                          | RT                           | AT                                 | 7P                 | D5             | N6         |                          |    |    |
|                                          |                | 3                  | 4             | A          | 4             | A                         | S5                          | 29                           | RV                                 | AV                 | 7T             | D7         | N8                       |    |    |
| 6                                        |                |                    | G             | 6          | G             | S3                        | 28                          | RU                           | S4                                 | 7R                 | D6             | N7         |                          |    |    |
| 14                                       |                | B                  | 14            | B          | 1N            | 26                        | RT                          | AT                           | 7P                                 | D5                 | N6             |            |                          |    |    |
| CLINCH NUTS WITH EMI SPRINGS (PLUG ONLY) |                |                    |               |            |               |                           |                             |                              |                                    |                    |                |            |                          |    |    |
| #4-40                                    | 2              | 6                  | G             | NA         | EMI SPRING    | *S6                       | *30                         | *RW                          | AW                                 | 7W                 | D8             | N9         |                          |    |    |
|                                          |                | 8                  | F             |            |               | *S7                       | *31                         | *RY                          | AY                                 | 7Y                 | D9             | NZ         |                          |    |    |
|                                          | 10             | B                  | *SF           |            |               | *37                       | *M9                         | C6                           | SE                                 | E9                 | PA             |            |                          |    |    |
|                                          | 3              | 10                 | J             |            |               | *S6                       | *30                         | *RW                          | AW                                 | 7W                 | D8             | N9         |                          |    |    |
| 12                                       |                | F                  | *S7           |            | *31           | *RY                       | AY                          | 7Y                           | D9                                 | NZ                 |                |            |                          |    |    |
| #6-32                                    | 1              | 4                  | A             |            | EMI SPRINGS   | *S8                       | *32                         | *RZ                          | A8                                 | 7U                 | E1             | P1         |                          |    |    |
|                                          |                | 4                  | A             |            |               | *S8                       | *32                         | *RZ                          | A8                                 | 7U                 | E1             | P1         |                          |    |    |
|                                          | 2              | 6                  | G             |            |               | *1M                       | *22                         | *RR                          | S1                                 | 7M                 | D3             | N4         |                          |    |    |
|                                          |                | 8                  | F             |            |               | *1P                       | *2M                         | *RF                          | C3                                 | 7B                 | DN             | P5         |                          |    |    |
|                                          |                | 10                 | B             |            |               | *1B                       | *2K                         | *RB                          | 18                                 | 79                 | DL             | NM         |                          |    |    |
|                                          |                | 8                  | H             |            |               | *S8                       | *32                         | *RZ                          | A8                                 | 7U                 | E1             | P1         |                          |    |    |
|                                          | 3              | 10                 | J             |            |               | *1M                       | *22                         | *RR                          | S1                                 | 7M                 | D3             | N4         |                          |    |    |
|                                          |                | 12                 | F             |            |               | *1P                       | *2M                         | *RF                          | C3                                 | 7B                 | DN             | P5         |                          |    |    |
|                                          |                | 14                 | B             |            |               | *1B                       | *2K                         | *RB                          | 18                                 | 79                 | DL             | NM         |                          |    |    |

Amphenol does not recommend Chem Film plating with EMI springs due to this plating's tendency to scratch and/or flake off during repeated mating cycles.

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Polarizing Positions



PART NUMBER KEY

| 1. Connector Series | 2. Class | 3. Shell Style | 4. Insert Layout Designator PG 15-21 | 5. Shell Type | 6. Mounting Modifier PG 22-24 | 7. Polarizing Position PG 25-27 | 8. Contact Modifier Material |
|---------------------|----------|----------------|--------------------------------------|---------------|-------------------------------|---------------------------------|------------------------------|
| A                   | D        | 3              | 313                                  | 3             | 00                            | 01                              | 00                           |

| Code Part # | Receptacle Shell |             |            | Plug Shell |             |            | Code Part # | Receptacle Shell |             |            | Plug Shell |             |            |
|-------------|------------------|-------------|------------|------------|-------------|------------|-------------|------------------|-------------|------------|------------|-------------|------------|
|             | Left Post        | Center Post | Right Post | Left Post  | Center Post | Right Post |             | Left Post        | Center Post | Right Post | Left Post  | Center Post | Right Post |
| 00          | -                | -           | -          | -          | -           | -          | 50          | 6                | 3           | 3          | 2          | 2           | 5          |
| 01          | 4                | 4           | 4          | 1          | 1           | 1          | 51          | 6                | 3           | 2          | 3          | 2           | 5          |
| 02          | 4                | 4           | 3          | 2          | 1           | 1          | 52          | 6                | 3           | 1          | 4          | 2           | 5          |
| 03          | 4                | 4           | 2          | 3          | 1           | 1          | 53          | 6                | 3           | 6          | 5          | 2           | 5          |
| 04          | 4                | 4           | 1          | 4          | 1           | 1          | 54          | 6                | 3           | 5          | 6          | 2           | 5          |
| 05          | 4                | 4           | 6          | 5          | 1           | 1          | 55          | 1                | 3           | 4          | 1          | 2           | 4          |
| 06          | 4                | 4           | 5          | 6          | 1           | 1          | 56          | 1                | 3           | 3          | 2          | 2           | 4          |
| 07          | 5                | 4           | 4          | 1          | 1           | 6          | 57          | 1                | 3           | 2          | 3          | 2           | 4          |
| 08          | 5                | 4           | 3          | 2          | 1           | 6          | 58          | 1                | 3           | 1          | 4          | 2           | 4          |
| 09          | 5                | 4           | 2          | 3          | 1           | 6          | 59          | 1                | 3           | 6          | 5          | 2           | 4          |
| 10          | 5                | 4           | 1          | 4          | 1           | 6          | 60          | 1                | 3           | 5          | 6          | 2           | 4          |
| 11          | 5                | 4           | 6          | 5          | 1           | 6          | 61          | 2                | 3           | 4          | 1          | 2           | 3          |
| 12          | 5                | 4           | 5          | 6          | 1           | 6          | 62          | 2                | 3           | 3          | 2          | 2           | 3          |
| 13          | 6                | 4           | 4          | 1          | 1           | 5          | 63          | 2                | 3           | 2          | 3          | 2           | 3          |
| 14          | 6                | 4           | 3          | 2          | 1           | 5          | 64          | 2                | 3           | 1          | 4          | 2           | 3          |
| 15          | 6                | 4           | 2          | 3          | 1           | 5          | 65          | 2                | 3           | 6          | 5          | 2           | 3          |
| 16          | 6                | 4           | 1          | 4          | 1           | 5          | 66          | 2                | 3           | 5          | 6          | 2           | 3          |
| 17          | 6                | 4           | 6          | 5          | 1           | 5          | 67          | 3                | 3           | 4          | 1          | 2           | 2          |
| 18          | 6                | 4           | 5          | 6          | 1           | 5          | 68          | 3                | 3           | 3          | 2          | 2           | 2          |
| 19          | 1                | 4           | 4          | 1          | 1           | 4          | 69          | 3                | 3           | 2          | 3          | 2           | 2          |
| 20          | 1                | 4           | 3          | 2          | 1           | 4          | 70          | 3                | 3           | 1          | 4          | 2           | 2          |
| 21          | 1                | 4           | 2          | 3          | 1           | 4          | 71          | 3                | 3           | 6          | 5          | 2           | 2          |
| 22          | 1                | 4           | 1          | 4          | 1           | 4          | 72          | 3                | 3           | 5          | 6          | 2           | 2          |
| 23          | 1                | 4           | 6          | 5          | 1           | 4          | 73          | 4                | 2           | 4          | 1          | 3           | 1          |
| 24          | 1                | 4           | 5          | 6          | 1           | 4          | 74          | 4                | 2           | 3          | 2          | 3           | 1          |
| 25          | 2                | 4           | 4          | 1          | 1           | 3          | 75          | 4                | 2           | 2          | 3          | 3           | 1          |
| 26          | 2                | 4           | 3          | 2          | 1           | 3          | 76          | 4                | 2           | 1          | 4          | 3           | 1          |
| 27          | 2                | 4           | 2          | 3          | 1           | 3          | 77          | 4                | 2           | 6          | 5          | 3           | 1          |
| 28          | 2                | 4           | 1          | 4          | 1           | 3          | 78          | 4                | 2           | 5          | 6          | 3           | 1          |
| 29          | 2                | 4           | 6          | 5          | 1           | 3          | 79          | 5                | 2           | 4          | 1          | 3           | 6          |
| 30          | 2                | 4           | 5          | 6          | 1           | 3          | 80          | 5                | 2           | 3          | 2          | 3           | 6          |
| 31          | 3                | 4           | 4          | 1          | 1           | 2          | 81          | 5                | 2           | 2          | 3          | 3           | 6          |
| 32          | 3                | 4           | 3          | 2          | 1           | 2          | 82          | 5                | 2           | 1          | 4          | 3           | 6          |
| 33          | 3                | 4           | 2          | 3          | 1           | 2          | 83          | 5                | 2           | 6          | 5          | 3           | 6          |
| 34          | 3                | 4           | 1          | 4          | 1           | 2          | 84          | 5                | 2           | 5          | 6          | 3           | 6          |
| 35          | 3                | 4           | 6          | 5          | 1           | 2          | 85          | 6                | 2           | 4          | 1          | 3           | 5          |
| 36          | 3                | 4           | 5          | 6          | 1           | 2          | 86          | 6                | 2           | 3          | 2          | 3           | 5          |
| 37          | 4                | 3           | 4          | 1          | 2           | 1          | 87          | 6                | 2           | 2          | 3          | 3           | 5          |
| 38          | 4                | 3           | 3          | 2          | 2           | 1          | 88          | 6                | 2           | 1          | 4          | 3           | 5          |
| 39          | 4                | 3           | 2          | 3          | 2           | 1          | 89          | 6                | 2           | 6          | 5          | 3           | 5          |
| 40          | 4                | 3           | 1          | 4          | 2           | 1          | 90          | 6                | 2           | 5          | 6          | 3           | 5          |
| 41          | 4                | 3           | 6          | 5          | 2           | 1          | 91          | 1                | 2           | 4          | 1          | 3           | 4          |
| 42          | 4                | 3           | 5          | 6          | 2           | 1          | 92          | 1                | 2           | 3          | 2          | 2           | 4          |
| 43          | 5                | 3           | 4          | 1          | 2           | 6          | 93          | 1                | 2           | 2          | 3          | 3           | 4          |
| 44          | 5                | 3           | 3          | 2          | 2           | 6          | 94          | 1                | 2           | 1          | 4          | 3           | 4          |
| 45          | 5                | 3           | 2          | 3          | 2           | 6          | 95          | 1                | 2           | 6          | 5          | 3           | 4          |
| 46          | 5                | 3           | 1          | 4          | 2           | 6          | 96          | 1                | 2           | 5          | 6          | 3           | 4          |
| 47          | 5                | 3           | 6          | 5          | 2           | 6          | 97          | 2                | 2           | 4          | 1          | 3           | 3          |
| 48          | 5                | 3           | 5          | 6          | 2           | 6          | 98          | 2                | 2           | 3          | 2          | 3           | 3          |
| 49          | 6                | 3           | 4          | 1          | 2           | 5          | 99          | 2                | 2           | 2          | 3          | 3           | 3          |

The following chart lists the polarizing positions of available keying positions.

See how to order procedure of page 6 and 9 for incorporation these polarizing positions into part numbers.

Contact Amphenol Canada for more information at 416-291-4401 • www.amphenolcanada.com  
Download 2D drawings & 3D models using our online configurator.



Polarizing Positions

PART NUMBER KEY

| 1. Connector Series | 2.Class | 3. Shell Style | 4. Insert Layout Designator PG 15-21 | 5. Shell Type | 6. Mounting Modifier PG 22-24 | 7. Polarizing Position PG 25-27 | 8. Contact Modifier Material |
|---------------------|---------|----------------|--------------------------------------|---------------|-------------------------------|---------------------------------|------------------------------|
| A                   | D       | 3              | 313                                  | 3             | 00                            | A1                              | 00                           |

The following chart lists the polarizing positions of available keying positions. See how to order procedure of page 6 and 9 for incorporation these polarizing positions into part numbers.

| Part Number |         | Receptacle Shell |             |            | Plug Shell |             |            |
|-------------|---------|------------------|-------------|------------|------------|-------------|------------|
| Code Part # | Refer # | Left Post        | Center Post | Right Post | Left Post  | Center Post | Right Post |
| A0          | 100     | 2                | 2           | 1          | 4          | 3           | 3          |
| A1          | 101     | 2                | 2           | 6          | 5          | 3           | 3          |
| A2          | 102     | 2                | 2           | 5          | 6          | 3           | 3          |
| A3          | 103     | 3                | 2           | 4          | 1          | 3           | 2          |
| A4          | 104     | 3                | 2           | 3          | 2          | 3           | 2          |
| A5          | 105     | 3                | 2           | 2          | 3          | 3           | 2          |
| A6          | 106     | 3                | 2           | 1          | 4          | 3           | 2          |
| A7          | 107     | 3                | 2           | 6          | 5          | 3           | 2          |
| A8          | 108     | 3                | 2           | 5          | 6          | 3           | 2          |
| A9          | 109     | 4                | 1           | 4          | 1          | 4           | 1          |
| B0          | 110     | 4                | 1           | 3          | 2          | 4           | 1          |
| B1          | 111     | 4                | 1           | 2          | 3          | 4           | 1          |
| B2          | 112     | 4                | 1           | 1          | 4          | 4           | 1          |
| B3          | 113     | 4                | 1           | 6          | 5          | 4           | 1          |
| B4          | 114     | 4                | 1           | 5          | 6          | 4           | 1          |
| B5          | 115     | 5                | 1           | 4          | 1          | 4           | 6          |
| B6          | 116     | 5                | 1           | 3          | 2          | 4           | 6          |
| B7          | 117     | 5                | 1           | 2          | 3          | 4           | 6          |
| B8          | 118     | 5                | 1           | 1          | 4          | 4           | 6          |
| B9          | 119     | 5                | 1           | 6          | 5          | 4           | 6          |
| C0          | 120     | 5                | 1           | 5          | 6          | 4           | 6          |
| C1          | 121     | 6                | 1           | 4          | 1          | 4           | 5          |
| C2          | 122     | 6                | 1           | 3          | 2          | 4           | 5          |
| C3          | 123     | 6                | 1           | 2          | 3          | 4           | 5          |
| C4          | 124     | 6                | 1           | 1          | 4          | 4           | 5          |
| C5          | 125     | 6                | 1           | 6          | 5          | 4           | 5          |
| C6          | 126     | 6                | 1           | 5          | 6          | 4           | 5          |
| C7          | 127     | 1                | 1           | 4          | 1          | 4           | 4          |
| C8          | 128     | 1                | 1           | 3          | 2          | 4           | 4          |
| C9          | 129     | 1                | 1           | 2          | 3          | 4           | 4          |
| D0          | 130     | 1                | 1           | 1          | 4          | 4           | 4          |
| D1          | 131     | 1                | 1           | 6          | 5          | 4           | 4          |
| D2          | 132     | 1                | 1           | 5          | 6          | 4           | 4          |
| D3          | 133     | 2                | 1           | 4          | 1          | 4           | 3          |
| D4          | 134     | 2                | 1           | 3          | 2          | 4           | 3          |
| D5          | 135     | 2                | 1           | 2          | 3          | 4           | 3          |
| D6          | 136     | 2                | 1           | 1          | 4          | 4           | 3          |
| D7          | 137     | 2                | 1           | 6          | 5          | 4           | 3          |
| D8          | 138     | 2                | 1           | 5          | 6          | 4           | 3          |
| D9          | 139     | 3                | 1           | 4          | 1          | 4           | 2          |
| E0          | 140     | 3                | 1           | 3          | 2          | 4           | 2          |
| E1          | 141     | 3                | 1           | 2          | 3          | 4           | 2          |
| E2          | 142     | 3                | 1           | 1          | 4          | 4           | 2          |
| E3          | 143     | 3                | 1           | 6          | 5          | 4           | 2          |

| Part Number |         | Receptacle Shell |             |            | Plug Shell |             |            |
|-------------|---------|------------------|-------------|------------|------------|-------------|------------|
| Code Part # | Refer # | Left Post        | Center Post | Right Post | Left Post  | Center Post | Right Post |
| E4          | 144     | 3                | 1           | 5          | 6          | 4           | 2          |
| E5          | 145     | 4                | 6           | 4          | 1          | 5           | 1          |
| E6          | 146     | 4                | 6           | 3          | 2          | 5           | 1          |
| E7          | 147     | 4                | 6           | 2          | 3          | 5           | 1          |
| E8          | 148     | 4                | 6           | 1          | 4          | 5           | 1          |
| E9          | 149     | 4                | 6           | 6          | 5          | 5           | 1          |
| F0          | 150     | 4                | 6           | 5          | 6          | 5           | 1          |
| F1          | 151     | 5                | 6           | 4          | 1          | 5           | 6          |
| F2          | 152     | 5                | 6           | 3          | 2          | 5           | 6          |
| F3          | 153     | 5                | 6           | 2          | 3          | 5           | 6          |
| F4          | 154     | 5                | 6           | 1          | 4          | 5           | 6          |
| F5          | 155     | 5                | 6           | 6          | 5          | 5           | 6          |
| F6          | 156     | 5                | 6           | 5          | 6          | 5           | 6          |
| F7          | 157     | 6                | 6           | 4          | 1          | 5           | 5          |
| F8          | 158     | 6                | 6           | 3          | 2          | 5           | 5          |
| F9          | 159     | 6                | 6           | 2          | 3          | 5           | 5          |
| G0          | 160     | 6                | 6           | 1          | 4          | 5           | 5          |
| G1          | 161     | 6                | 6           | 6          | 5          | 5           | 5          |
| G2          | 162     | 6                | 6           | 5          | 6          | 5           | 5          |
| G3          | 163     | 1                | 6           | 4          | 1          | 5           | 4          |
| G4          | 164     | 1                | 6           | 3          | 2          | 5           | 4          |
| G5          | 165     | 1                | 6           | 2          | 3          | 5           | 4          |
| G6          | 166     | 1                | 6           | 1          | 4          | 5           | 4          |
| G7          | 167     | 1                | 6           | 6          | 5          | 5           | 4          |
| G8          | 168     | 1                | 6           | 5          | 6          | 5           | 4          |
| G9          | 169     | 2                | 6           | 4          | 1          | 5           | 3          |
| H0          | 170     | 2                | 6           | 3          | 2          | 5           | 3          |
| H1          | 171     | 2                | 6           | 2          | 3          | 5           | 3          |
| H2          | 172     | 2                | 6           | 1          | 4          | 5           | 3          |
| H3          | 173     | 2                | 6           | 6          | 5          | 5           | 3          |
| H4          | 174     | 2                | 6           | 5          | 6          | 5           | 3          |
| H5          | 175     | 3                | 6           | 4          | 1          | 5           | 2          |
| H6          | 176     | 3                | 6           | 3          | 2          | 5           | 2          |
| H7          | 177     | 3                | 6           | 2          | 3          | 5           | 2          |
| H8          | 178     | 3                | 6           | 1          | 4          | 5           | 2          |
| H9          | 179     | 3                | 6           | 6          | 5          | 5           | 2          |
| J0          | 180     | 3                | 6           | 5          | 5          | 5           | 2          |
| J1          | 181     | 4                | 5           | 4          | 1          | 6           | 1          |
| J2          | 182     | 4                | 5           | 3          | 2          | 6           | 1          |
| J3          | 183     | 4                | 5           | 2          | 3          | 6           | 1          |
| J4          | 184     | 4                | 5           | 1          | 4          | 6           | 1          |
| J5          | 185     | 4                | 5           | 6          | 5          | 6           | 1          |
| J6          | 186     | 4                | 5           | 5          | 6          | 6           | 1          |
| J7          | 187     | 5                | 5           | 4          | 1          | 6           | 6          |

Polarizing Positions

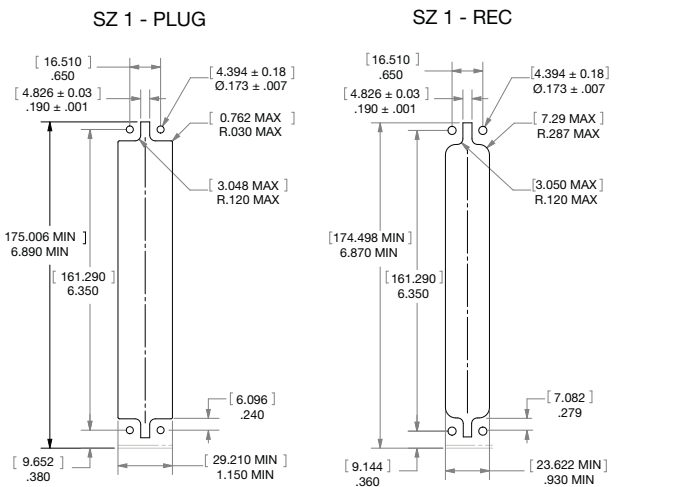
PART NUMBER KEY

| 1. Connector Series | 2.Class | 3. Shell Style | 4. Insert Layout Designator PG 15-21 | 5. Shell Type | 6. Mounting Modifier PG 22-24 | 7. Polarizing Position PG 25-27 | 8. Contact Modifier Material |
|---------------------|---------|----------------|--------------------------------------|---------------|-------------------------------|---------------------------------|------------------------------|
| A                   | D       | 3              | 313                                  | 3             | 00                            | J8                              | 00                           |

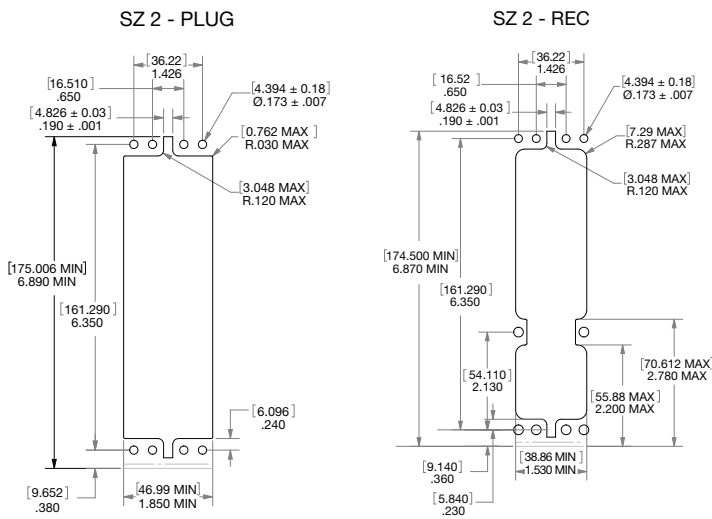
The following chart lists the polarizing positions of available keying positions. See how to order procedure of page 6 and 9 for incorporation these polarizing positions into part numbers.

| Part Number |         | Receptacle Shell |             |            | Plug Shell |             |            |
|-------------|---------|------------------|-------------|------------|------------|-------------|------------|
| Code Part # | Refer # | Left Post        | Center Post | Right Post | Left Post  | Center Post | Right Post |
| J8          | 188     | 5                | 5           | 3          | 2          | 6           | 6          |
| J9          | 189     | 5                | 5           | 2          | 3          | 6           | 6          |
| K0          | 190     | 5                | 5           | 1          | 4          | 6           | 6          |
| K1          | 191     | 5                | 5           | 6          | 5          | 6           | 6          |
| K2          | 192     | 5                | 5           | 5          | 6          | 6           | 6          |
| K3          | 193     | 6                | 5           | 4          | 1          | 6           | 5          |
| K4          | 194     | 6                | 5           | 3          | 2          | 6           | 5          |
| K5          | 195     | 6                | 5           | 2          | 3          | 6           | 5          |
| K6          | 196     | 6                | 5           | 1          | 4          | 6           | 5          |
| K7          | 197     | 6                | 5           | 6          | 5          | 6           | 5          |
| K8          | 198     | 6                | 5           | 5          | 6          | 6           | 5          |
| K9          | 199     | 1                | 5           | 4          | 1          | 6           | 4          |
| L0          | 200     | 1                | 5           | 3          | 2          | 6           | 4          |
| L1          | 201     | 1                | 5           | 2          | 3          | 6           | 4          |
| L2          | 202     | 1                | 5           | 1          | 4          | 6           | 4          |
| L3          | 203     | 1                | 5           | 6          | 5          | 6           | 4          |
| L4          | 204     | 1                | 5           | 5          | 6          | 6           | 4          |
| L5          | 205     | 2                | 5           | 4          | 1          | 6           | 3          |
| L6          | 206     | 2                | 5           | 3          | 2          | 6           | 3          |
| L7          | 207     | 2                | 5           | 2          | 3          | 6           | 3          |
| L8          | 208     | 2                | 5           | 1          | 4          | 6           | 3          |
| L9          | 209     | 2                | 5           | 6          | 5          | 6           | 3          |
| M0          | 210     | 2                | 5           | 5          | 6          | 6           | 3          |
| M1          | 211     | 3                | 5           | 4          | 1          | 6           | 2          |
| M2          | 212     | 3                | 5           | 3          | 2          | 6           | 2          |
| M3          | 213     | 3                | 5           | 2          | 3          | 6           | 2          |
| M4          | 214     | 3                | 5           | 1          | 4          | 6           | 2          |
| M5          | 215     | 3                | 5           | 6          | 5          | 6           | 2          |
| M6          | 216     | 3                | 5           | 5          | 6          | 6           | 2          |

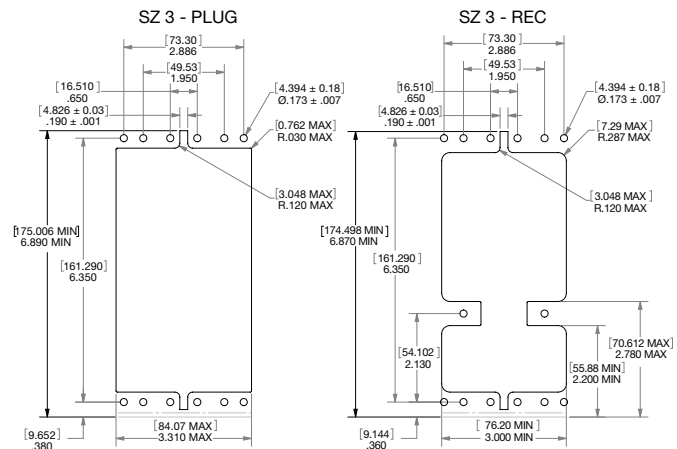
SIZE 1



SIZE 2



SIZE 3



Contacts for Amphenol ARINC 600 Rack and Panel Connectors can be ordered separately. Use part numbers shown in the charts below for ordering contacts and applicable tools. For further information consult Amphenol Canada Corporations

CRIMPED PIN



CRIMPED SOCKET



CRIMP CONTACTS

| CONTACT TYPE | SIZE | RECEPTACLE |               | Plug   |               | Installation/ Removal Tool | Crimp Tool  | Positioner  | AWG         | MAX Insulation Dia. |
|--------------|------|------------|---------------|--------|---------------|----------------------------|-------------|-------------|-------------|---------------------|
|              |      | TYPE       | PART NO.      | TYPE   | PART NO.      |                            |             |             |             |                     |
| Signal       | 22   | SOCKET     | AC-782222-301 | Pin    | AC-772222-301 | M81969/1-01                | M22520/2-01 | M22520/2-23 | 22, 24 & 26 | 0.052"              |
| Power        | 20   | Pin        | AC-772020-302 | Socket | AC-782020-302 | M81969/1-02                | M22520/2-01 | M22520/2-08 | 20, 22 & 24 | 0.060"              |
|              | 16   |            | AC-771616-303 |        | AC-781616-303 | M81969/1-03                | M22520/1-01 | M22520/1-02 | 16, 18 & 20 | 0.080"              |
|              | 12   |            | AC-771212-304 |        | AC-781212-304 | M81969/28-02               | M22520/1-01 | M22520/1-11 | 12 & 14     | 0.114"              |

PC TAIL PIN



PC TAIL SOCKET



PCB TAILS FOR SIGNAL AND POWER

| CONTACT TYPE | SIZE | PCB STD DIA ± .002" | RECEPTACLE |               | PLUG   |               | PC TAIL EXT "XX" |        |       |        | "Z"                               | PC TAIL DIP |
|--------------|------|---------------------|------------|---------------|--------|---------------|------------------|--------|-------|--------|-----------------------------------|-------------|
|              |      |                     | Type       | Part No.      | Type   | Part No.      | 0.250"           | 0.150" | .375" | 0.500" |                                   |             |
| SIGNAL       | 22   | 0.025"              | SOCKET     | AC-7822XX-801 | PIN    | AC-7722XX-Z01 | 00               | 02     | 03    | 04     | G = GOLD<br>S = SOLDER<br>T = TIN |             |
| POWER        | 20   | 0.032"              | PIN        | AC-7720XX-Z01 | SOCKET | AC-7820XX-801 | 00               | 02     | 03    | 04     |                                   |             |
|              | 16   | 0.050"              |            | AC-7716XX-Z01 |        | AC-7816XX-801 | 00               | 02     | 03    | 04     |                                   |             |
|              | 12   | 0.081"              |            | AC-7712XX-Z01 |        | AC-7812XX-801 | 00               | 02     | 06    | 04     |                                   |             |

FILLER PLUGS

| Contact Cavity Size | Amphenol Part Numbers | EMI Electroless Nickel Plated |
|---------------------|-----------------------|-------------------------------|
| 22                  | AC-660022-701         | AC-660022-E01                 |
| 20                  | AC-660020-701         | AC-660020-E01                 |
| 16                  | AC-660016-701         | AC-660016-E01                 |
| 16 Fiber            | AC-660016F-701        | AC-660016F-E01                |
| 12                  | AC-660012-701         | AC-660012-E01                 |
| 8 Coax              | AC-660008-701         | AC-660008-E01                 |
| 5 Coax (Plug)       | AC-660005-701         | AC-660005-E01                 |
| 5 Coax (Recept.)    | AC-660004-701         | AC-660004-E01                 |

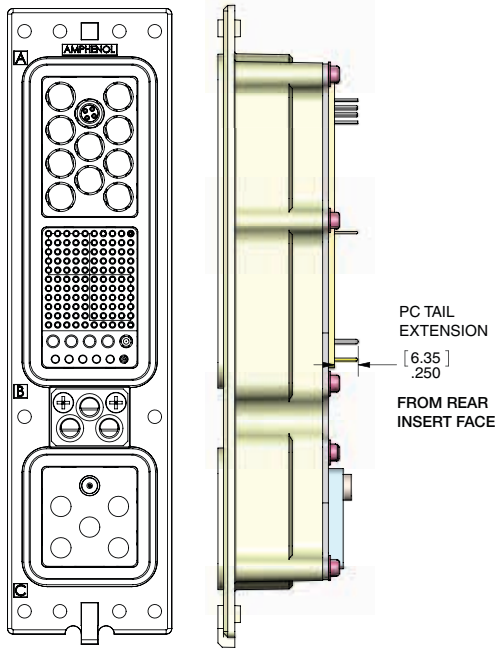
Note: Filler plugs are for non-environmental connectors.

SEALING PLUGS

| Contact Cavity Size | Amphenol Part Numbers | Color  |
|---------------------|-----------------------|--------|
| 22                  | AC-660022-801-2       | Black  |
| 20                  | AC-660020-801-2       | Red    |
| 16                  | AC-660016-801-2       | Green  |
| 12                  | AC-660012-801-2       | Orange |
| 8 Coax              | AC-660008-801         | Red    |



Receptacles are front release, plugs are rear release





ARINC 600



FRONT RELEASE PC TAIL CONTACTS FOR COAX, QUADRAX AND TWINAX

| CONTACT TYPE | SIZE | RECEPTACLE |                | PLUG   |                | PC TAIL EXT "XX" |        |       |        |
|--------------|------|------------|----------------|--------|----------------|------------------|--------|-------|--------|
|              |      | Type       | Part No.       | Type   | Part No.       | 0.250"           | 0.150" | .375" | 0.500" |
| COAX         | 5    | PIN        | AC-6C05PP01-XX | SOCKET | AC-6C05SP01-XX | 00               | 02     | 03    | 04     |
|              | 8    |            | AC-6C08PP01-XX |        | AC-6C08SP01-XX | 00               | 02     | 03    | 04     |
| QUADRAX      | 8    |            | AC-6Q08PP01-XX |        | AC-6Q08SP01-XX | 00               | 02     | 03    | 04     |
| TWINAX       | 8    |            | AC-6T08PP01-XX |        | AC-6T08SP01-XX | 00               | 02     | 06    | 04     |

For other contact lengths, please contact the factory or Amphenol Canada.

PROTECTIVE COVERS

Conductive covers for ARINC 600 connectors can be ordered from charts below. These covers are designed to protect equipment against the risks of electrostatic discharge, and are made of self-extinguishing polyethylene with graphite filler.

| Receptacle Conductive Covers |                                                    |                                         |
|------------------------------|----------------------------------------------------|-----------------------------------------|
| Shell Size 1                 | Combination - Signal and Block Cover AC-200000-911 | Signal Block Cover only AC-2000000-911A |
|                              |                                                    | Signal Block Cover only AC-2000000-911C |
| Shell Size 2 & 3             | Combination - Signal and Block Cover AC-200000-912 | Signal Block Cover only AC-2000000-912A |
|                              |                                                    | Signal Block Cover only AC-2000000-912C |

| Plug Conductive Covers |                                                    |                                         |
|------------------------|----------------------------------------------------|-----------------------------------------|
| Shell Size 1           | Combination - Signal and Block Cover AC-200000-909 | Signal Block Cover only AC-2000000-909A |
|                        |                                                    | Signal Block Cover only AC-2000000-909C |
| Shell Size 2 & 3       | Combination - Signal and Block Cover AC-200000-910 | Signal Block Cover only AC-2000000-910A |
|                        |                                                    | Signal Block Cover only AC-2000000-910C |



TRANSCIVERS

| PROTOCOL | SIZE | TRANSMITTING PIN | RECEIVING PIN  |
|----------|------|------------------|----------------|
| 801      | 8    | AC-6A08PP01-01   | AC-6B08PP01-01 |
| ELIO     |      | AC-6A08PP02-01   | AC-6B08PP02-01 |

To order separate waveguides for ARINC 600 Connectors, consult Amphenol Canada Corporation



| TYPE | SIZE | RECEPTACLE |             | PLUG           |                 | CABLE TYPE      | TECHNICAL NOTES                                                               |                 |                                            |             |                                  | "X" = BOOT TYPE            |                                                                                                                                                                                |                  |              |
|------|------|------------|-------------|----------------|-----------------|-----------------|-------------------------------------------------------------------------------|-----------------|--------------------------------------------|-------------|----------------------------------|----------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|--------------|
|      |      | Type       | Part No.    | Type           | Part No.        |                 | Inner Crimp                                                                   | Positioner      | Outer                                      | Die         | Removal Tool                     |                            |                                                                                                                                                                                |                  |              |
| RF   | 1    | 5          | COAX PIN    | Coax Socket    | AC-6C01PC01-01  | AC-6C01SC01-01  | RG214 & RG393                                                                 | NA              | NA                                         | NA          | NA                               | NA                         | A = Non-Enviro w/Alignment Boot                                                                                                                                                |                  |              |
|      | 5    |            |             |                | AC-6C05PC01-01X | AC-6C05SC01-01X | RG142, RG400                                                                  | M22520/2-01     | "K345 SETTING 8 (RG142) SETTING 6 (RG400)" | M22520/5-01 | M22520/5-05                      | M81969/28-01               |                                                                                                                                                                                |                  |              |
|      |      |            |             |                | AC-6C05PC01-02X | AC-6C05SC01-02X | RG58/U                                                                        |                 | "K345 SETTING 5"                           | M22520/5-01 | "Y586 SETTING B"                 |                            |                                                                                                                                                                                |                  |              |
|      |      |            |             |                | AC-6C05PC01-03X | AC-6C05SC01-03X | RD174, RG179, RG316                                                           |                 | "K345 SETTING 5 or 6"                      | M22520/5-01 | M22520/5-05                      |                            |                                                                                                                                                                                |                  |              |
|      | 8    | 8          | Quadrax Pin | Quadrax Socket | AC-6C08PC01-01X | AC-6C08SC01-01X | RG179                                                                         | M22520/2-01     | "K345 SETTING 7"                           | M22520/5-01 | "M22520/5-05 HEX B (.178 FLATS)" | "M81969/29-2 (or 485-952)" | N = Non-Enviro w/o Alignment Boot (NO BOOT)                                                                                                                                    |                  |              |
|      | 8    |            |             |                | AC-6Q08PC01-01X | AC-6Q08SC01-01X | "DRAKA FILICA F4703-3 & F4704-4, NEXANS FILOTEK ABS1503KD24/ET2PF870"         | M22520/2-01     | "K709 SETTING 5"                           | M22520/5-01 | "M22520/5-45 SETTING B"          | 485-952                    |                                                                                                                                                                                |                  |              |
|      |      |            |             |                | AC-6Q08PC01-02X | AC-6Q08SC01-02X | TENSOLITE NF24Q100, 24443/03130X-4(LD), 24443/9P025X-4(LD), BOEING S280W502-4 |                 |                                            |             |                                  |                            |                                                                                                                                                                                |                  |              |
|      | 8    | 8          | Quadrax Pin | Quadrax Socket | AC-6Q08PC01-03X | AC-6Q08SC01-03X | "TENSOLITE 26743102006X-4(LD) or GORE RCN8328"                                |                 |                                            | M22520/5-01 | "M22520/5-45 SETTING A"          |                            | E = Enviro w/ Sealing & Alignment Boot<br><br>T = Enviro for Tight Spacing w/ Sealing & Alignment Boot<br><br>B = Enviro for Sealing to the insert w/o Grommet w/ Sealing Boot |                  |              |
|      |      |            |             |                | 8               | Twinax Pin      | AC-6T08PC01-01X                                                               | AC-6T08SC01-01X | TENSOLITE 24463/9P025X-2(LD)               | AFM-2       | "K1168 SETTING 6"                | M22520/5-01                |                                                                                                                                                                                | "Y586 SETTING B" | M81969/28-03 |
|      |      |            |             |                |                 |                 | AC-6T08PC01-02X                                                               | AC-6T08SC01-02X | GORE GSC-12-2548-00                        |             |                                  |                            |                                                                                                                                                                                |                  |              |
|      | 8    | 8          | Twinax Pin  | Twinax Socket  | AC-6T08PC01-03X | AC-6T08SC01-03X | GRUMMAN GC875TM24H                                                            |                 |                                            |             |                                  |                            |                                                                                                                                                                                |                  |              |



| 1.               | 2.        | 3.          | 4.              | 5.      | 6.              |
|------------------|-----------|-------------|-----------------|---------|-----------------|
| Connector Series | Backshell | Shell Style | Backshell Style | Plating | Customer Number |
| 600              | B         | 4           | B               | 1       | XXX             |

| 1. CONNECTOR SERIES |           |
|---------------------|-----------|
| 600                 | ARINC 600 |
| 404                 | ARINC 404 |
| R39                 |           |
| R27                 |           |

| 2. BACK SHELL |           |
|---------------|-----------|
| B             | Backshell |

| 3. SHELL STYLE |      |
|----------------|------|
| 1              | Size |
| 2              | Size |
| 3              | Size |

| 4. BACKSHELL STYLE |                         |
|--------------------|-------------------------|
| A                  | Split, Saddle Clamp     |
| B                  | Split, EMI              |
| C                  | One Piece, Sealed, EMI  |
| D                  | One Piece, Saddle Clamp |

| 5. PLATING |                                       |
|------------|---------------------------------------|
| 1          | Electroless Nickel                    |
| 2          | OD Chromate                           |
| 3          | Tin                                   |
| 4          | Gold                                  |
| 5          | Zinc Nickel                           |
| 6          | Yellow CAD                            |
| 7          | Chem Film                             |
| 8          | Nickel Fluorocarbon Polymer (Duralon) |

| 6. CUSTOMER NUMBER |                 |
|--------------------|-----------------|
| XXX                | Customer Number |



FILTER CONNECTOR DESIGN

Filter connectors have been used for over thirty years to provide cost and space effective solutions to EMI problems in a wide range of military and commercial applications including avionics systems, satellites, missiles, communications, control systems and tempest equipment. A low pass filter connector incorporates capacitors and/or ferrite inductors into the connector body. The two capacitor types commonly used in filter connectors for military or avionics applications are planar arrays and tubular capacitors. Each of these capacitor types is an efficient filter at high frequencies (Up to 1GHz) and has been proven to be extremely reliable when suitably assembled into a connector. Both planar and tubular designs feature Amphenol’s unique solder-less construction which reduces stress on the ceramic elements and results in superior physical and thermal shock capabilities.

CAPACITOR TYPES

PLANAR ARRAY DESIGN

Amphenol Canada’s planar design consists of planar ceramic capacitor arrays with optional ferrites assembled concentrically over the contacts and into the connector shell. The planars are compressed between rubber gaskets and have contact springs in each position which form a stress isolated connection with the contact body. The planars are grounded to the shell via a ground spring.

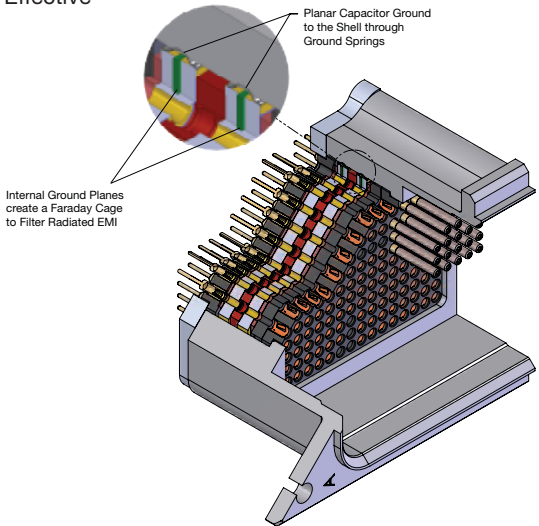
TUBULAR DESIGN

Amphenol Canada’s tubular design consists of a ceramic tubular capacitor assembled onto a machined contact. The filter tube is connected to the contact with conductive rubber washers to provide a stress-isolated contact assembly. Grounding is achieved via a ground plate.

WHY USE AN ACC FILTER CONNECTOR

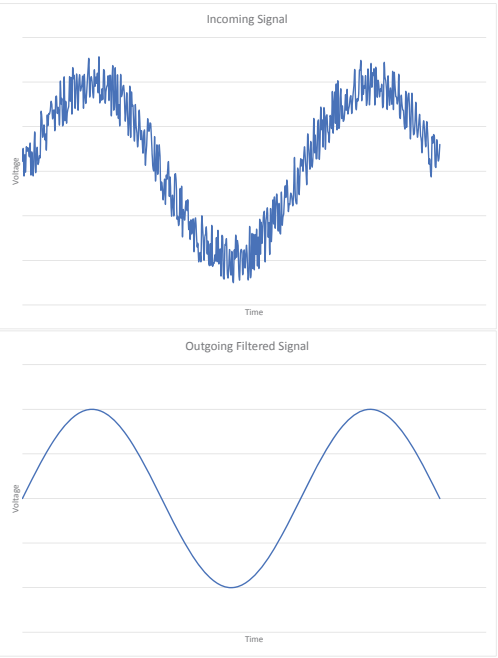
ACC uses a stress-isolated planar array utilizing retention clips instead of solder to electrically connect the planar to the contacts. This provides a more robust and durable design with respect to the typical shock and vibration of aerospace applications. Stress-isolated planar arrays out performs discrete filters by blocking out the radiated EMI as well as filtering out conducted EMI. The ground plate of a tubular design or the internal ground electrodes of a planar design are connected to the shell with minimal aperture size and present an effective barrier to radiated EMI passing through the insert cavity.

- Fewer components = Cost Effective
- Space Saving on the PCB
- Increased Reliability (Solder-less Designs)
- For retrofit applications or late design-in
- Effective against radiated and conducted EMI



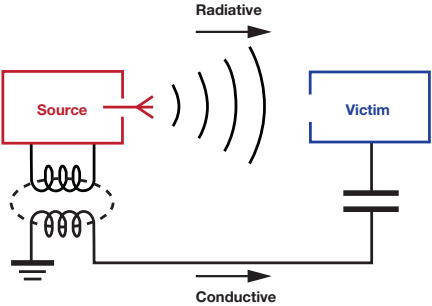
WHAT DOES A FILTER CONNECTOR DO?

A filtered connector filters out noise and cleans a signal through a low pass filter. They allow low frequency signals to pass through, but filter out the higher frequency signals noise/EMI.



ELECTROMAGNET INTERFERENCE (EMI) TYPES: CONDUCTED & RADIATED

Once in a system, EMI can distort signals and can interfere with system functionality. EMI can get into the system through conduction or radiation. Conducted EMI travels through the physically connected lines caused by other electronic devices in the system. Radiated EMI travels through air waves and can affect physically isolated lines.



FILTER CONNECTOR SELECTION

Selection of a particular filter circuit will depend on the required insertion loss characteristics and the system source and load impedances. By arranging the capacitor and ferrites in a variety of combinations a number of equivalent circuits may be attained. The ferrite elements always face the low impedance side of the filter. These filter types are available in a wide range of capacitance and voltage values and may be selected in virtually any combination within the connector insert. In addition to filter contacts, isolated contacts and ground contacts are available.

The following factors may affect the filter performance, and should be considered when selecting a filter connector and Amphenol Canada takes these into account when designing your filter solution.

FILTER CONNECTOR PARAMETERS

Operating/working voltage is specified for the normal signal line voltage. Dielectric Withstanding Voltage (DWW) is specified for the transient voltage surges.

Operating currents cause magnetic saturation of inductive elements (ferrites). Therefore filters with ferrite inductors (Pi, CL, LC and T) will perform much like C filters as the ferrite approaches saturation. The saturation point can vary by ferrite characteristics and size but typically occurs above 0.1 A. The DC current rating through the contact is much higher and only depends on the contact size.

Capacitance and filters can operate between -55°C to +125°C; however, the performance can degrade with changes in the temperature. Capacitance and insertion loss performance are shown at 25°C. The typical high capacitance (>500pF) dielectric (X7R) has temperature coefficients of ±15% from -55°C to +125°C. The typical low capacitance (<500pF) dielectric (C0G) has a negligible temperature coefficients of ±0.3% from -55°C to +125°C.

Additional transient voltage suppression requirements such as lightning strikes may necessitate the addition of diodes or MOV's to the PCB or in the connector.

| FILTER TYPES | FILTER CIRCUIT | BEST FILTERING APPLICATION                                       |
|--------------|----------------|------------------------------------------------------------------|
| PI           |                | Unknown or medium source and load Impedance                      |
| LC           |                | Low impedance on mating side, high impedance on termination side |
| CL           |                | High impedance on mating side, low impedance on termination side |
| C            |                | High source and high load impedance                              |
| T            |                | Low source and low load impedance                                |

High source or load impedance >100ohms

Low source or load impedance >10ohms

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Download 2D drawings & 3D models using our online configurator.

CAPACITOR FILTER (C)

- 20 dB per Frequency Decade Typical Increase in Attenuation Slope
- Used mainly for High Frequency Noise
- With High Source and Load Impedance

L FILTER (L-C)

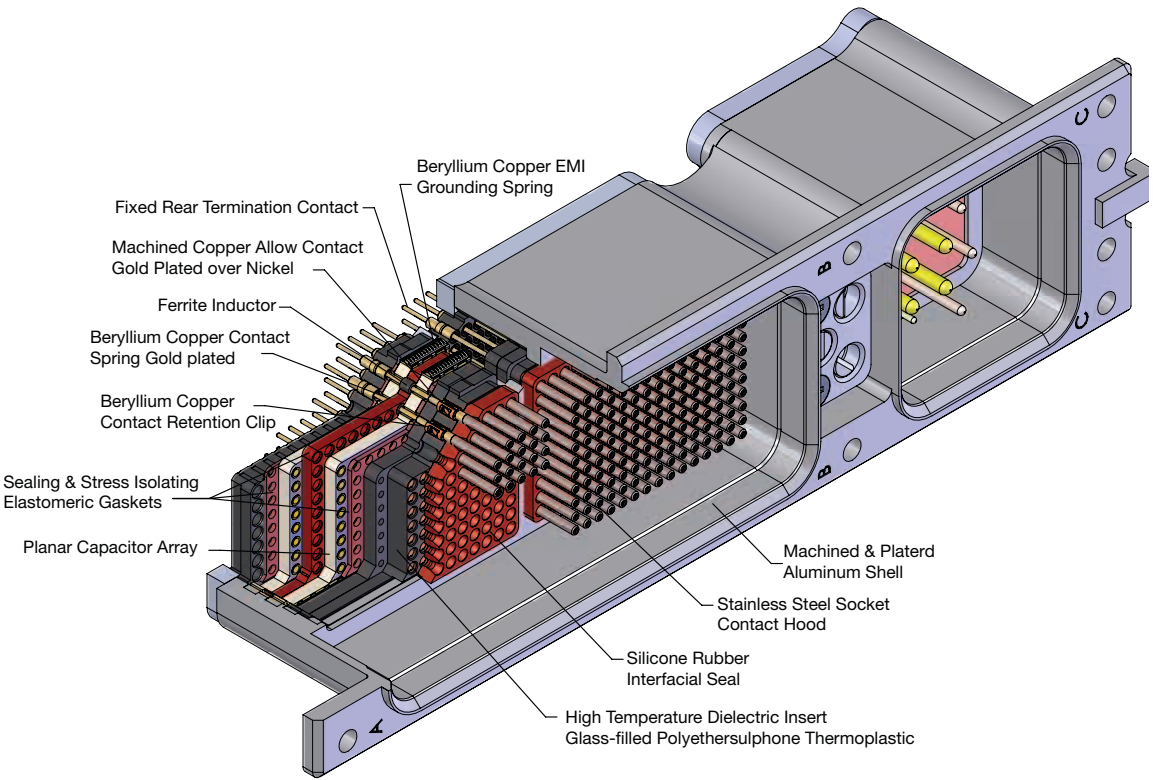
- 20 dB per Frequency Decade Typical Increase in Attenuation Slope
- Used where Source and Load Impedance are Dissimilar
- Ferrite Side of Filter is Connected to Lower Impedance Side of Circuit
- Capacitor Side to Higher Impedance Side

PI FILTER (C-L-C)

- 40 dB per Frequency Decade Typical Increase in Attenuation Slope
- Used where Applications Contain Relatively Higher Source and Load Impedance

T FILTER (L-C-L)

- 20 dB per Frequency Decade Typical Increase in Attenuation Slope
- Used where Applications Contain Low Source and Load Impedance
- Switch-mode Power Supplies are Typical Applications



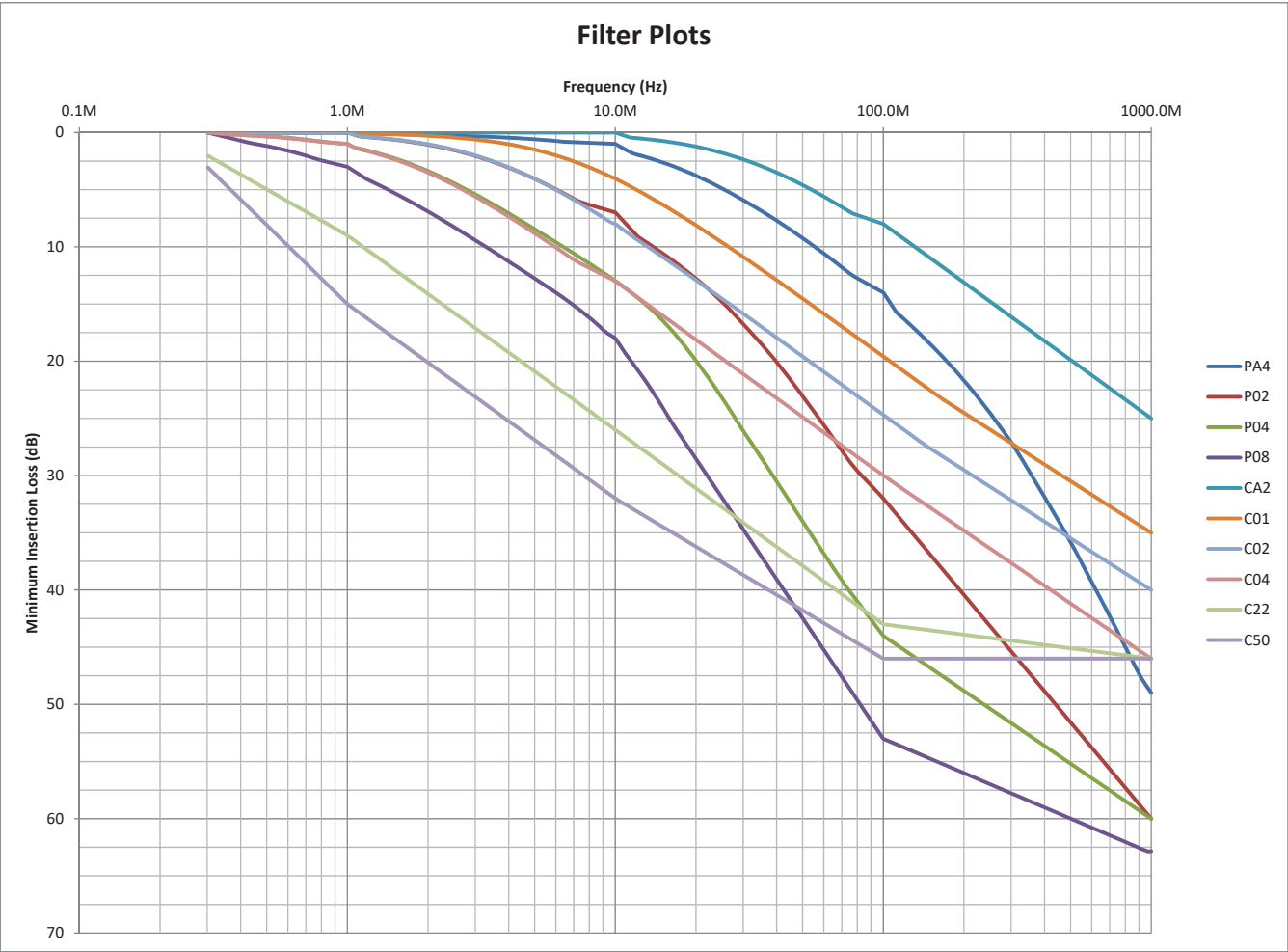
| TYPE<br>FILTER                                                           | PI                                                               |            |        |         | C, LC, CL, T |            |            |        |          |           |
|--------------------------------------------------------------------------|------------------------------------------------------------------|------------|--------|---------|--------------|------------|------------|--------|----------|-----------|
|                                                                          | PA4                                                              | P02        | P04    | P08     | CA2          | C01        | C02        | C04    | C22      | C50       |
| Capacitance                                                              | 400-800 pF                                                       | 1.8-3.6 nF | 4-8 nF | 8-16 nF | 200-400 pF   | 0.9-1.8 nF | 1.8-3.6 nF | 4-8 nF | 22-40 nF | 50-100 nF |
| Insertion Loss (dB)                                                      | 300 KHz                                                          | -          | -      | -       | -            | -          | -          | -      | 2        | 3         |
|                                                                          | 1 MHz                                                            | -          | -      | 1       | 3            | -          | -          | -      | 1        | 9         |
|                                                                          | 10 MHz                                                           | 1          | 7      | 13      | 18           | -          | 4          | 8      | 13       | 26        |
|                                                                          | 100 MHz                                                          | 14         | 32     | 44      | 53           | 8          | 20         | 25     | 30       | 43        |
|                                                                          | 1 GHz                                                            | 49         | 60     | 60      | 63           | 25         | 35         | 40     | 46       | 46        |
| Working voltage (VDC) (@ 25° & sea level)                                | 200                                                              |            |        |         |              |            |            |        |          |           |
| Dielectric Withstand voltage (VDC) (@ 25°C & 50 mA max charging current) | 500                                                              |            |        |         |              |            |            |        |          |           |
| Insulation Resistance (Gohms) (min) (@ 25°C & working voltage)           | 10                                                               |            |        |         |              |            |            |        |          |           |
| Current Rating by Contact Size (continuous max, DC amperes)              | #22 = 5 Amps<br>#20 = 7.5 Amps<br>#16 = 13 Amps<br>#12 = 23 Amps |            |        |         |              |            |            |        |          |           |
| Dissipation Factor @ 1kHz                                                | 3% Max                                                           |            |        |         |              |            |            |        |          |           |

Note: Other capacitance values, mixed capacitance arrangements, ground and isolated contacts are available. Consult the factory for your particular applications.

\*Acceptance testing performance to 1 GHz maximum

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PART NUMBER KEY

| 1. Filter | 2. Series | 3. Class | 4. Shell Style | 5. Termination Style | 6. Connector Size | 7. Polarizing Position | 8. Customer Number |
|-----------|-----------|----------|----------------|----------------------|-------------------|------------------------|--------------------|
| 485-      | 6         | 1        | A              | B                    | 1                 | 00                     | XXX                |

| STEPS                  | PART # | DESCRIPTION      |
|------------------------|--------|------------------|
| 1. FILTER              | 485-   | Filter Connector |
| 2. CONNECTOR SERIES    | 6      | ARINC 600        |
| 3. CLASS               | 1      | Unsealed         |
|                        | 2      | Sealed           |
| 4. SHELL STYLE         | A      | Adapter          |
|                        | P      | Plug             |
|                        | R      | Receptacle       |
| 5. TERMINATION STYLE   | B      | PCB              |
|                        | S      | Solder Cup       |
|                        | T      | Crimp            |
| 6. CONNECTOR SIZE      | 1      | Size 1           |
|                        | 2      | Size 2           |
|                        | 3      | Size 3           |
| 8. POLARIZING POSITION | 00-    | N/A              |
|                        | 01-M6- | Per ARINC Specs  |
| 9. CUSTOMER NUMBER     | XXX    |                  |

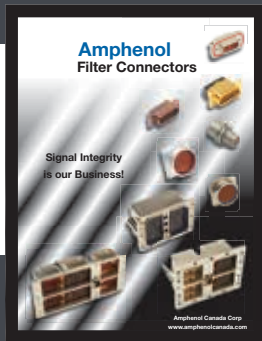
Notes Amphenol CANADA

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Filter Connectors  
Catalog



Rectangular Catalog



Microminiature  
Catalog



R27 Catalog



ARINC 404 Catalog



MMA Catalog

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