

## NSX - BPX SERIES

*Arinc 600*



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## INTRODUCTION

### NSX & BPX MULTICONTACT CONNECTORS

NSX series (defined by ARINC 600 specification) and BPX series (defined by Boeing S280W551 specification) are multipin rack and panel connectors used to connect high performance aeronautical equipment.

*Items in this catalog are covered by French and foreign Patents and/or Patents pending.*

These two series manufactured by Radiall show the following characteristics:

- High contact density
- Wide range of contact types and arrangement
- Numerous shell polarization possibilities which give maximum security when mating the equipment in the rack
- Low mating forces
- Separation of power and signal contacts
- EMI/RFI shielding option provided by shell to shell conductivity

Major aircraft manufacturers and equipment manufacturers have been entrusting Radiall for many years using NSX and BPX series.

### NSX SERIES (ARINC 600 STANDARD)

Radiall NSX series offers the following versions including a new cost effective solution:

Connectors for **rear removable** contacts:

- NSX N
  - Plug and receptacle connectors.
  - Non-environmental version, inserts without grommet and compound, plugs without groove and O-ring.
- NSX C
  - Plug and receptacle connectors.
  - Non-environmental version, inserts with grommet but without compound, plugs without groove and O-ring.
- NSX E
  - Plug and receptacle connectors.
  - Environmental version, inserts with grommet and compound, plugs with groove and O-ring.
- NSX H
  - Plug connector only.
  - Environmental version, inserts with grommet and compound, plugs without groove and O-ring.

Connectors for **front removable** contacts:

- NSX F
  - Receptacle connectors only.
  - Only signal contacts are Front release/Front Removable (FR/FR), others will be Rear Release/Rear Removable (RR/RR). Non-environmental version, inserts without grommet and compound.
- NSX G
  - Receptacle connectors only.
  - Signal, power, coax, triax and quadrax contacts are FR/FR. Non-environmental version, inserts without grommet and compound.
- NSX K
  - New cost effective solution. 100% RoHS compliant for shell plating selection F and S. Receptacle connectors only.
  - Inserts fully completed with harpooned size 22 contacts. Non-environmental version.

As an option, EMI/RFI features are available to get shell to shell conductivity.

*NSX-Arinc***SHELL**

Radiall NSX series offers three metallic shell sizes fitted with polarization hardware offering 216 polarizing possibilities.

NSX shells answer all requirements with three different platings, all compliant with ARINC 600 standard: nickel, RoHS.

The plug shell is fitted with inserts for signal (size 22) pin contacts, coax, triax and quadrax socket contacts. The receptacle shell is fitted with inserts for signal socket contacts, coax, triax and quadrax pin contacts.

**INSERTS**

Environmental inserts have a wire sealing grommet on the rear face and compound between insert and shell. The different kinds of inserts available are:

- Insert for rear release rear removable contacts (blue colored on the terminating face).
- Insert for front release front removable contacts (red colored on the mating face).
- Insert for front release rear removable contacts (yellow colored on the mating face).

**CONTACTS**

A whole range of crimp or PC tail contacts are available with NSX connectors: signal, coax, triax, quadrax or fiber optic contacts. Signal and power contacts were designed to be low insertion force contacts so that they are perfectly orientated into the cavities and contacts are not damaged when insertion is made. Front release and rear release inserts use contact retention system (clips) which meets the ARINC 600 contact retention requirements. This system allows contacts to be removed from the insert using an extraction tool.

**NEW COST EFFECTIVE SOLUTION**

Radiall is constantly looking for cost saving solutions to answer our customers' expectations. Based on this concept, Radiall proudly introduces:

**Inserts with Harpooned Contacts**

Discover the new class K available for front removable contacts. They show the following features and benefits:

- Improved pricing stability and reduced dependence on fluctuating gold prices
- Lightweight solution as insert is one piece
- 100% intermateable with any ARINC 600 plug
- 100% backwards compatibility with existing PCB and PGA connectors
- RoHS compliant
- Fully qualified under Arinc 600 specification requirements

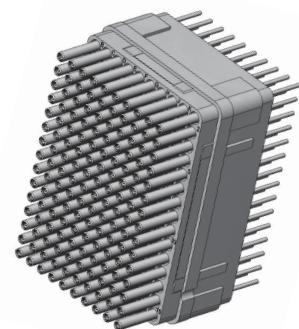
**Selective Plating Contacts**

A brand new range of PC tail contacts with gold selective plating is now available. They offer the following features and benefits:

- Significant reduction of cost of ownership
- N - more dependence t- gold rate fluctuation
- N - change in the contact integration process

**Specifications**

- Same contact design as full plated version
- Contact interface gold plated with 1.27 µm
- No impact on PCB design
- Product qualification is available upon request



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## APPLICATION

These connectors are mostly used to connect high performance aeronautical equipment.

Most of the NSX connectors are used in the main avionics bay on commercial airplanes. Electronic functions are found in an LRU (Line Replaceable Unit).

Refer to Arinc 600 document for more information.



## CHARACTERISTICS

### TECHNICAL CHARACTERISTICS

| DESCRIPTION                                 | MATERIAL                       | PLATING                 |
|---|--------------------------------|-------------------------|
| Shell                                       | Aluminum Alloy                 | Chromatation or Nickel  |
| Inserts                                     | Thermosetting or Thermoplastic | -                       |
| Metallic Inserts                            | Aluminum Alloy                 | Nickel                  |
| O-Ring and Grommet                          | Fluorosilicone                 | -                       |
| Contacts                                    | Copper Alloy                   | Gold over Nickel        |
| Retention Clip                              | Copper Alloy                   | -                       |
| Insert Retention Plate                      | Aluminum Alloy                 | Blue Anodized or Nickel |
| Polarization Posts and Keys Retention Plate | Aluminum Alloy                 | Chromatation or Nickel  |
| Screws Washers and Clinch-Nuts              | Stainless Steel                | -                       |
|   | Steel                          | Cadmium Yellow Chromate |
| Polarization Posts and Keys                 | Zinc Alloy                     | Nickel                  |

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**ELECTRICAL CHARACTERISTICS**

| CONTACT SIZE | WIRE |                                  |                          |              | MAX CURRENT (A) |
|--------------|------|----------------------------------|--------------------------|--------------|-----------------|
|              | AWG  | CROSS SECTION (MM <sup>2</sup> ) | OUTSIDE DIA. MM (INCHES) |              |                 |
|              |      |                                  | MIN.                     | MAX.         |                 |
| 22           | 22   | 0.38                             | 0.66 (0.026)             | 1.4 (0.055)  | 5               |
|              | 24   | 0.21                             |                          |              | 3               |
|              | 26   | 0.14                             |                          |              | 2               |
| 20           | 20   | 0.60                             | 1 (0.040)                | 1.8 (0.071)  | 7.5             |
|              | 22   | 0.38                             |                          |              | 5               |
|              | 24   | 0.21                             |                          |              | 3               |
| 16           | 16   | 1.34                             | 1.7 (0.066)              | 2.6 (0.102)  | 13              |
|              | 18   | 0.93                             |                          |              | 10              |
|              | 20   | 0.60                             |                          |              | 7.5             |
| 12           | 12   | 3.18                             | 2.4 (0.094)              | 3.4 (0.134)  | 23              |
|              | 14   | 1.91                             |                          |              | 17              |
|              | 16   | 1.34                             |                          |              | 13              |
| 8            | 8    | 9                                | 4.65 (0.183)             | 6.48 (0.255) | 46              |
|              | 10   | 5                                |                          |              | 33              |

**MECHANICAL & ENVIRONMENTAL CHARACTERISTICS**

- **Temperature Range:** - 65 °C/+125 °C
- **Temperature Life:** 1,000 hours at 125 °C.
- **Salt Spray:** MIL-STD-1344 method 1001.1 test condition B (48 hours).
- **Moisture Resistance:** MIL-STD-1344 method 1002.1 test condition II (10 times 24 hours).
- **Sealing:** environment resistant to running water (environmental version only).
- **Fluid Resistance:** resistance to MIL-STD-1344 method 1016 (fluids a, e, i).
- **Durability:** 500 mating and unmating cycles.
- **Random Vibration:**
  - Conforming to MIL-STD-1344 method 2005.1 test condition 5 letter E. (16.4 g from 50 to 2,000 Hz, 8 hours per direction)
- **Shock:** 50g 11 ms half sine, MIL-STD-1344 method 2004.1 three impacts per direction
- **Mating Force:**
  - Connector size 1: 27 pounds (120 N) max
  - Connector size 2: 60 pounds (267 N) max
  - Connector size 3: 105 pounds (467 N) max

**CONTACT RETENTION FORCE**

| CONTACT SIZE             | 22 | 20 | 16 | 12 | 8  | COAX TRIAX QUADRIX |
|--------------------------|----|----|----|----|----|--------------------|
| Retention Force min (oz) | 12 | 20 | 25 | 30 | 25 | 25                 |



NSX-Arinc

**COAX CONTACTS ELECTRICAL CHARACTERISTICS**

- Nominal Impedance: 50Ω
- DWV: 1,500 VAC – IR at 25°C = 5,000 MΩ
- V.S.W.R.: Size 5 → 1.3 from DC to 1,500 MHz and insertion loss = 0.3 dB, Size 1 → 1.3 from DC to 5,000 MHz

**MASS G (OZ)****SHELLS**

Includes screws, washers, insert retention plate and polarization hardware.

| PLUG       |            |            | RECEPTACLE |            |            |
|------------|------------|------------|------------|------------|------------|
| Size 1     | Size 2     | Size 3     | Size 1     | Size 2     | Size 3     |
| 110 (3.88) | 130 (4.59) | 220 (7.76) | 130 (4.59) | 140 (4.94) | 245 (8.64) |

**INSERTS**

| CONTACT ARRANGEMENT DESIGNATION | FOR PLUG SHELL     |                        | FOR RECEPTACLE SHELL |                        |
|---------------------------------|--------------------|------------------------|----------------------|------------------------|
|                                 | ENVIRONMENTAL TYPE | NON-ENVIRONMENTAL TYPE | ENVIRONMENTAL TYPE   | NON-ENVIRONMENTAL TYPE |
| 5C2                             | 15.25 (0.54)       | 12.39 (0.44)           | 9.92 (0.35)          | 7.25 (0.26)            |
| 40                              | 13.52 (0.48)       | 11.15 (0.39)           | 9.22 (0.33)          | 8.22 (0.29)            |
| 60                              | 18.78 (0.66)       | 15.53 (0.55)           | 12.78 (0.45)         | 11.43 (0.40)           |
| 30T2                            | 17.86 (0.63)       | 14.75 (0.52)           | 11.38 (0.40)         | 9.36 (0.33)            |
| 150                             | 41.80 (1.47)       | 20.87 (0.74)           | 28.01 (0.99)         | 24.32 (0.86)           |
| 121                             | 45.93 (1.62)       | 37.79 (1.33)           | 29.77 (1.05)         | 24.53 (0.87)           |
| 120T2                           | 41.21 (1.45)       | 34.12 (1.20)           | 26.89 (0.95)         | 23.83 (0.84)           |
| 71C1/1C71                       | 31.4 (1.11)        | 27.7 (0.98)            | 19.73 (0.70)         | 18.68 (0.66)           |
| 60                              | 58.87 (2.08)       | 48.97 (1.73)           | 35.69 (1.26)         | 25.79 (0.91)           |
| 10T10                           | 51.80 (1.83)       | 45.45 (1.60)           | 32.76 (1.16)         | 26.41 (0.93)           |
| C4                              | -                  | 31.56 (1.11)           | -                    | 20.96 (0.74)           |
| C2                              | -                  | 25.94 (0.91)           | -                    | 12.48 (0.44)           |
| 100                             | 30.63 (1.08)       | 25.31 (0.89)           | 20.56 (0.73)         | 17.8 (0.63)            |
| 85                              | 33.01 (1.16)       | 27.15 (0.96)           | 21.67 (0.76)         | 18.67 (0.66)           |
| 34                              | 41.56 (1.47)       | 34.57 (1.22)           | 25.06 (0.88)         | 18.06 (0.64)           |
| 13C2                            | 39.96 (1.41)       | 33.36 (1.18)           | 24.48 (0.86)         | 17.89 (0.63)           |
| 6T6                             | 41.48 (1.46)       | 36.52 (1.29)           | 25.53 (0.90)         | 31.24 (1.10)           |
| Q11                             | 36.86 (1.30)       | 31.26 (1.10)           | 25.07 (0.88)         | 19.47 (0.69)           |
| 62Q2                            | 31.85 (1.12)       | 26.24 (0.93)           | -                    | 13.2 (0.47)            |
| 68Q2                            | 31.14 (1.10)       | 25.64 (0.90)           | 19.12 (0.67)         | 16.32 (0.58)           |
| 11Q2                            | 37.39 (1.32)       | 30.88 (1.09)           | 24.38 (0.86)         | 17.87 (0.63)           |

**CONTACTS**

| CONTACT SIZE | PIN                                    | SOCKET                        |
|--------------|--|-------------------------------|
| 22           | 0.12 (4 10 <sup>-3</sup> )             | 0.15 (5.3 10 <sup>-3</sup> )  |
| 20           | 0.22 (7.8 10 <sup>-3</sup> )           | 0.40 (14.1 10 <sup>-3</sup> ) |
| 16           | 0.72 (25.4 10 <sup>-3</sup> )          | 0.75 (26.5 10 <sup>-3</sup> ) |
| 12           | 1.50 (53.0 10 <sup>-3</sup> )          | 1.50 (53.0 10 <sup>-3</sup> ) |
| 8            | 619270: 5 (0.18)<br>619271: 6.5 (0.23) | -                             |

*EMI/RFI Performances*

EMI/RFI acts directly on electronics systems whether by conduction through the input or input cables or by induction (coupling).

Electronics equipment are particularly vulnerable to interferences and can be disturbed or damaged by them. The serious consequences which may result, make it essential to protect such installations.

The first stage in protection is to install the equipment in a metal surrounding (FARADAY cage) which protects it from some of the interferences; particularly those occurring by induction.

As to meet these requirements RADIALl offers plug connectors for racks which are fitted with ground spring fingers.

Sizes 1, 2 and 3 plugs connectors fitted with ground spring fingers are available. These connectors can be mated with ARINC 600 receptacle connectors. Their technical characteristics are the same than those shown on page 5-5 except the following.

**MATERIAL**

| DESCRIPTION           | MATERIAL       | PLATING            |
|-----------------------|----------------|--------------------|
| Shell                 | Aluminum Alloy | Electroless Nickel |
| Ground Spring Fingers | Copper Alloy   | Electroless Nickel |

**ELECTRICAL CHARACTERISTICS**

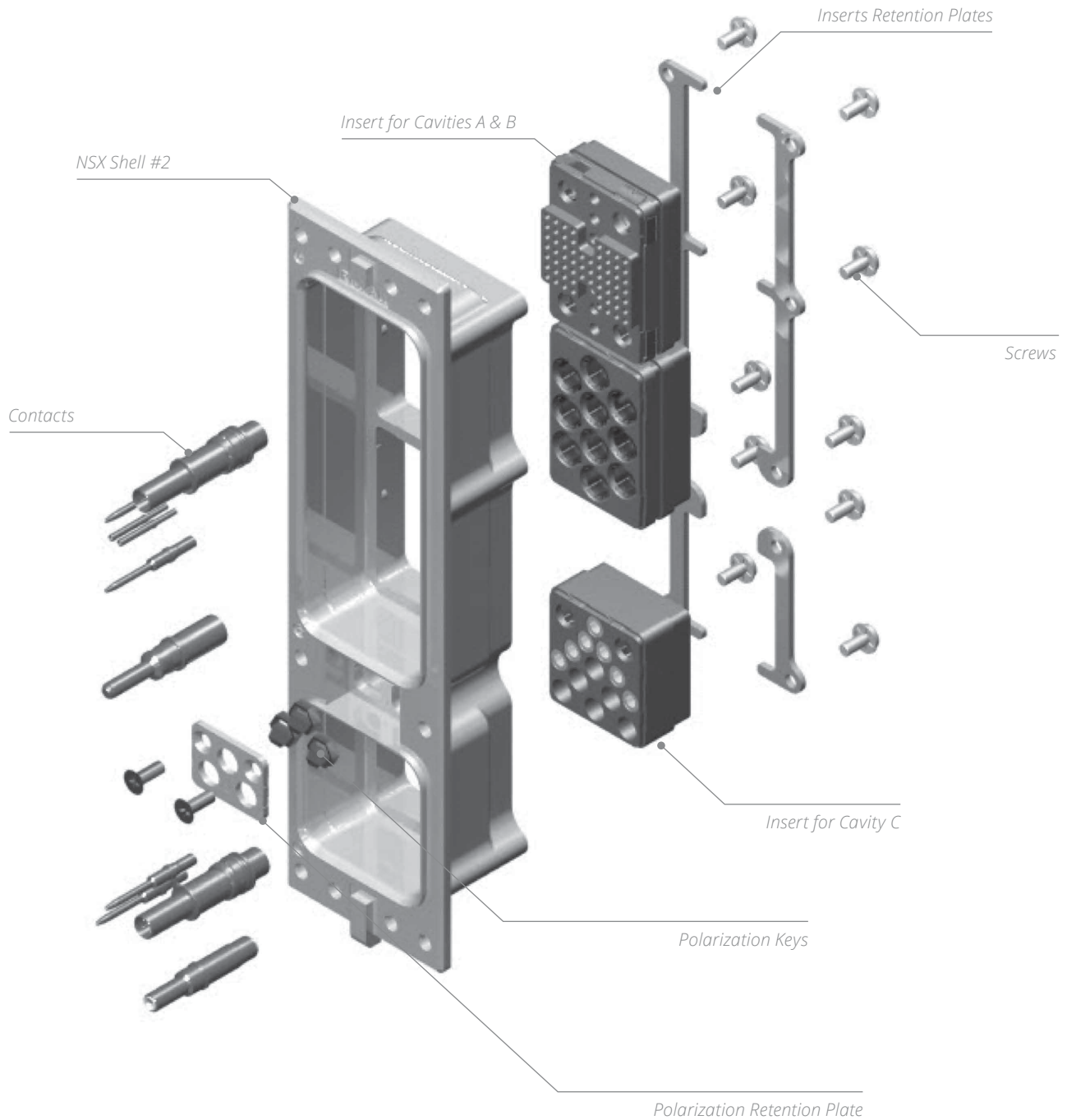
- **Shell-to-Shell Conductivity:**
  - (measured according to method 3007 of MIL-STD-1344A), max warranty: 2.5 mΩ
- **Size 8 Cavity Grounding:**
  - (measured according to method 3007 of MIL-STD-1344A), max warranty: 10.0 mΩ
- **EMI Shielding Effectiveness:**
  - (measured according to S280W552) The minimum values warranty are as follows: Typical values

| FREQUENCY (MHz) | LEAKAGE ATTENUATION (dB) |
|-----------------|--------------------------|
| 100             | 65                       |
| 200             | 63                       |
| 300             | 63                       |
| 400             | 62                       |
| 800             | 60                       |
| 1,000           | 60                       |

EMI/RFI Performances

## PRODUCT OVERVIEW

Detailed view of the various parts of the NSX connector series.



How to Order

**NSX E/N/H/C – CONNECTORS FOR REAR REMOVABLE CONTACTS**

**NSX**

**SERIES PREFIX** \_\_\_\_\_

**CLASS** \_\_\_\_\_

- N:** Non-environmental
- E:** Environmental, with grommets and compound, plug with O-ring
- H:** Environmental, plug without O-ring (plug only)
- C:** Non-environmental, with grommets

**SHELL SIZE** \_\_\_\_\_

- 1:** Size 1
- 2:** Size 2
- 3:** Size 3

**SHELL STYLE** \_\_\_\_\_

- S:** RoHS plated receptacle
- T:** RoHS plated plug
- F:** Nickel-plated receptacle
- B:** Nickel-plated plug
- M:** Nickel-plated plug EMI version (see pages 5-70)

**INSERT COMBINATION CODE** \_\_\_\_\_

See combination code (pages 5-21 to 5-27) and contacts arrangements (pages 5-11 to 5-20)  
 T-cas application combination code: 310 (see page 5-24)

**CONTACT TERMINATION** <sup>[1]</sup> \_\_\_\_\_

- X:** Without contacts
- S:** Crimp contacts

**MODIFICATION CODE** \_\_\_\_\_

See pages 5-28 to 5-29

**POLARIZATION CODE** <sup>[2]</sup> \_\_\_\_\_

See pages 5-30 to 5-32

**DELIVERY CODE FOR T-CAS APPLICATION** \_\_\_\_\_

See page 5-41

**Notes**






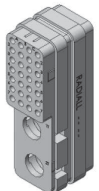


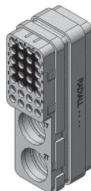
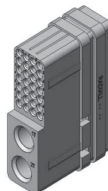




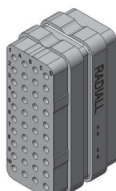
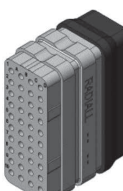
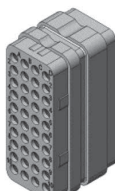
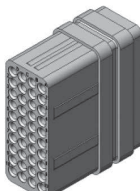



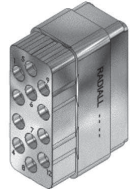

REMARK: dust caps conductive on receptacle and non conductive on plug are included in the delivery.

1. If you need to use reduced crimp barrel contacts, use code X and order signal and power contacts separately. Coax, twinax or power size 5 or 8, coax size 1 must always be ordered separately.
2. Without polarization code, the connector is delivered with polarization hardware unassembled. Polarization code 00, the connector is delivered without polarizing hardware. Polarization code from 01 to 216, the connector is delivered with the polarization hardware assembled as defined by code.

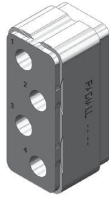







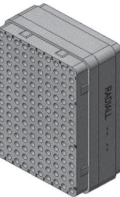




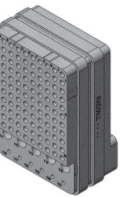
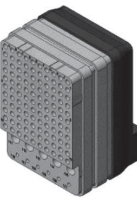
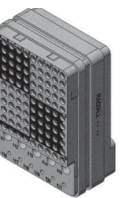
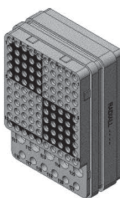

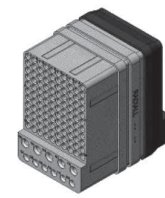

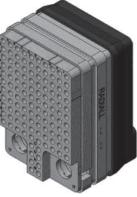

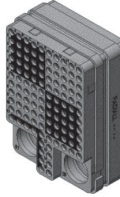


How to Order

**NSX SHELL CONTACT ARRANGEMENT**

All insert names including letter Q can be equipped with quadrax contacts for each insert arrangement the quantity and type of contacts is shown with insert view. RR/RR means contacts are rear release and rear removable. FR/FR means contacts are front release and front removable. The letter G means that the contact will be used in grounded cavity. LuxCis® contacts are always rear release and rear removable. N/A means not available, please contact Radiall for further details.

| INSERT NAME | SHELL SIZE CAVITY | EQUIPMENT SIDE RECEPTACLE SHELL  |  |  |   | AVIONIC SIDE PLUG SHELL  |  |
|-------------|-------------------|--|--|--|---|--|--|
|             |                   | VERSION N  | VERSION E  | VERSION F  | VERSION G   | VERSION N  | VERSION E  |
| 60          | 1-A/B             | <br>60 × #22 RR/RR                  | <br>60 × #22 RR/RR                  | <br>60 × #22 FR/FR                  | N/A   | <br>60 × #22 RR/RR                  | <br>60x#22 RR/RR                |
| 30T2        | 1-A/B             | <br>28 × #22 RR/RR<br>2 × #8G RR/RR | <br>28 × #22 RR/RR<br>2 × #8G RR/RR | <br>28 × #22 FR/FR<br>2 × #8G RR/RR | <br>28 × #22 FR/FR<br>2 × #8G FR/FR | <br>28 × #22 RR/RR<br>2 × #8G RR/RR | <br>28x#22 RR/RR<br>2x#8G RR/RR |
| 4C          | 1-A/B             | <br>4 × #5G RR/RR                 | N/A  | N/A  | <br>4 × #5G FR/FR                 | <br>4 × #5G RR/RR                 | N/A  |
| 40          | 1-C               | <br>40 × #22 RR/RR                | <br>40 × #22 RR/RR                | <br>40 × #22 FR/FR                | N/A   | <br>40 × #22 RR/RR                | <br>40 × #22 RR/RR            |
| 12F12       | 1-C               | <br>h12 × #16 RR/RR<br>LuxCis®    | <br>12 × #16 RR/RR<br>LuxCis®     | N/A  | N/A   | <br>12 × #16 RR/RR<br>LuxCis®     | <br>12 × #16 RR/RR<br>LuxCis® |

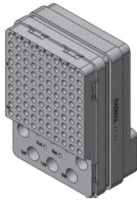
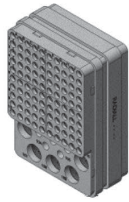
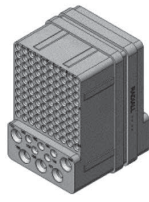

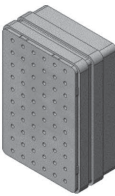



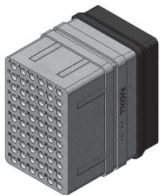






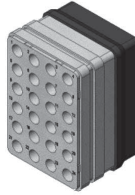







How to Order

| INSERT NAME | SHELL SIZE CAVITY | EQUIPMENT SIDE RECEPTACLE SHELL  |  |  |   | AVIONIC SIDE PLUG SHELL  |  |
|-------------|-------------------|--|--|--|---|--|--|
|             |                   | VERSION N  | VERSION E  | VERSION F  | VERSION G   | VERSION N  | VERSION E  |
| 4           | 1-C               | <br>4 × #12 RR/RR <sup>(1)</sup>                        | Available <sup>(1)</sup>   | N/A  | N/A   | <br>4 × #12 RR/RR                                       | <br>4 × #12 RR/RR                                       |
| 5C2         | 1-C               | <br>2 × #5 RR/RR<br>1 × #12 RR/RR<br>2 × #16 RR/RR      | <br>2 × #5 RR/RR<br>1 × #12 RR/RR<br>2 × #16 RR/RR      | N/A  | <br>2 × #5 FR/FR<br>1 × #12 FR/FR<br>2 × #16 FR/FR      | <br>2 × #5 RR/RR<br>1 × #12 RR/RR<br>2 × #16 RR/RR      | <br>2 × #5 RR/RR<br>1 × #12 RR/RR<br>2 × #16 RR/RR      |
| 150         | 2/3-A/B           | <br>150 × #22 RR/RR                                    | <br>150 × #22 RR/RR                                    | <br>150 × #22 FR/FR                                    | N/A   | <br>150 × #22 RR/RR                                    | <br>150 × #22 RR/RR                                    |
| 121         | 2/3-A/B           | <br>110 × #22 RR/RR<br>6 × #20 RR/RR<br>5 × #16 RR/RR | <br>110 × #22 RR/RR<br>6 × #20 RR/RR<br>5 × #16 RR/RR | <br>110 × #22 FR/FR<br>6 × #20 RR/RR<br>5 × #16 RR/RR | <br>110 × #22 FR/FR<br>6 × #20 FR/FR<br>5 × #16 FR/FR | <br>110 × #22 RR/RR<br>6 × #20 RR/RR<br>5 × #16 RR/RR | <br>110 × #22 RR/RR<br>6 × #20 RR/RR<br>5 × #16 RR/RR |
| 120T2       | 2/3-A/B           | <br>118 × #22 RR/RR<br>2 × #8G RR/RR                  | <br>118 × #22 RR/RR<br>2 × #8G RR/RR                  | <br>118 × #22 FR/FR<br>2 × #8G RR/RR                  | <br>118 × #22 FR/FR<br>2 × #8G FR/FR                  | <br>118 × #22 RR/RR<br>2 × #8G RR/RR                  | <br>118 × #22 RR/RR<br>2 × #8G RR/RR                  |

Notes

1. For BPX series, 4 insert will be supplied with FR/RR contacts.

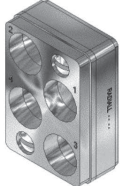
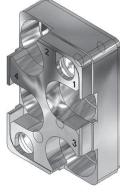
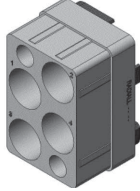


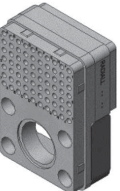
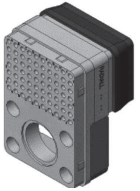
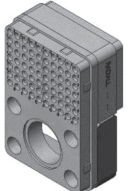

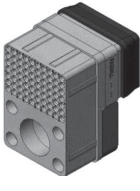
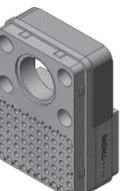
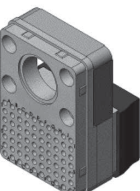

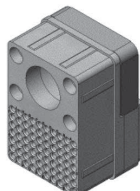
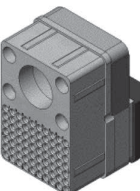
How to Order

| INSERT NAME | SHELL SIZE CAVITY | EQUIPMENT SIDE RECEPTACLE SHELL  |   |           |   | AVIONIC SIDE PLUG SHELL  |  |
|-------------|-------------------|--|---|-----------|---|--|--|
|             |                   | VERSION N  | VERSION E   | VERSION F | VERSION G   | VERSION N  | VERSION E  |
| 110         | 2/3-A/B           | <br>100 × #22 RR/RR<br>5 × #20 RR/RR<br>5 × #12 RR/RR | N/A   | N/A       | <br>100 × #22 FR/FR<br>5 × #20 FR/FR<br>5 × #12 FR/FR | <br>100 × #22 RR/RR<br>5 × #20 RR/RR<br>5 × #12 RR/RR | <br>100 × #22 RR/RR<br>5 × #20 RR/RR<br>5 × #12 RR/RR |
| 60A         | 2/3-A/B           | <br>60 × #20 RR/RR                                    | <br>60 × #20 RR/RR   | N/A       | <br>60 × #20 FR/FR                                    | <br>60 × #20 RR/RR                                    | <br>60 × #20 RR/RR                                    |
| 35          | 2/3-A/B           | <br>35 × #16 RR/RR                                   | <br>35 × #16 RR/RR  | N/A       | <br>35 × #16 FR/FR                                   | <br>35 × #16 RR/RR                                   | <br>35 × #16 RR/RR                                   |
| 24          | 2/3-A/B           | <br>24 × #12 RR/RR                                  | <br>24 × #12 RR/RR | N/A       | <br>24 × #12 FR/FR                                  | <br>24 × #12 RR/RR                                  | <br>24 × #12 RR/RR                                  |
| 10T10       | 2/3-A/B           | <br>10 × #8G RR/RR <sup>[1]</sup>                   | Available <sup>[1]</sup>  | N/A       | <br>10 × #8G FR/FR                                  | <br>10 × #8G RR/RR                                  | <br>10 × #8G RR/RR                                  |

Notes

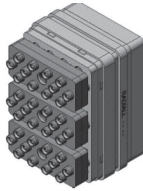

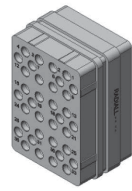
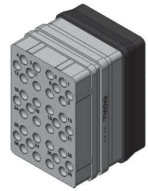







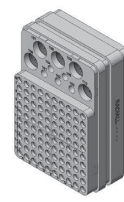
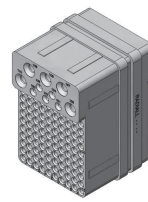




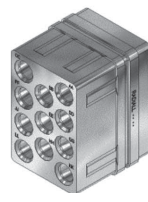

1. For BPX series, 10T10 insert will be supplied with FR/RR contacts.

How to Order

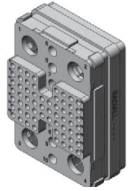
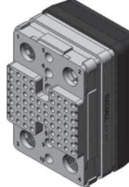
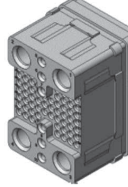
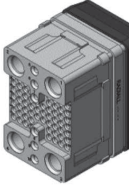

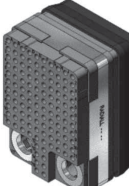



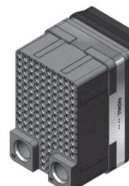
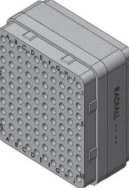

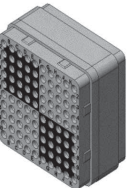
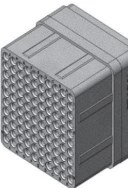

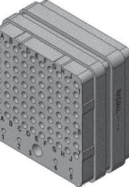
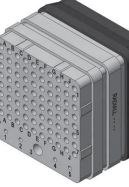
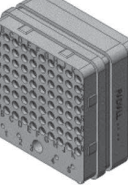
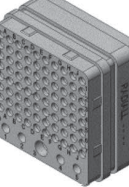
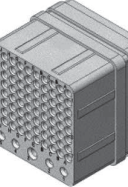
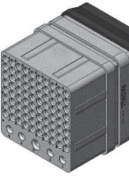
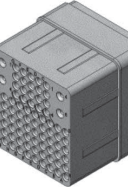

| INSERT NAME | SHELL SIZE CAVITY | EQUIPMENT SIDE RECEPTACLE SHELL   |   |   |   | AVIONIC SIDE PLUG SHELL   |   |
|-------------|-------------------|---|---|---|---|---|---|
|             |                   | VERSION N   | VERSION E   | VERSION F   | VERSION G   | VERSION N   | VERSION E   |
| C4          | 2/3-A/B           | <br>4 × #1G FR/RR                    | N/A   | N/A   | <br>4 × #1G FR/FR | <br>4 × #1G FR/RR                    | N/A   |
| C2          | 2/3-A/B           | <br>2 × #1G FR/RR                    | N/A   | N/A   | N/A   | <br>2 × #1G FR/RR                    | N/A   |
| 71C1        | 2/3-A/B           | <br>70 × #22 RR/RR<br>1 × #1 FR/RR   | <br>70 × #22 RR/RR<br>1 × #1 FR/RR   | <br>70 × #22 RR/RR<br>1 × #1 FR/RR   | N/A   | <br>70 × #22 RR/RR<br>1 × #1 FR/RR   | <br>70 × #22 RR/RR<br>1 × #1 FR/RR   |
| 1C71        | 2/3-A/B           | <br>70 × #22 RR/RR<br>1 × #1 FR/RR | <br>70 × #22 RR/RR<br>1 × #1 FR/RR | <br>70 × #22 FR/FR<br>1 × #1 FR/RR | N/A   | <br>70 × #22 RR/RR<br>1 × #1 FR/RR | <br>70 × #22 RR/RR<br>1 × #1 FR/RR |



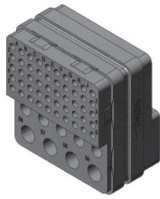
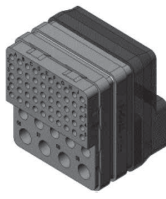

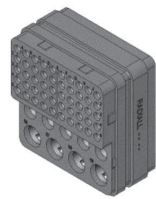
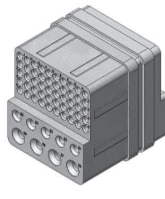

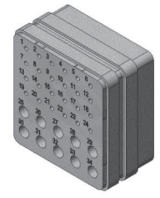
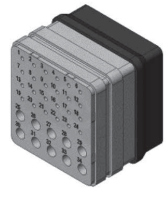
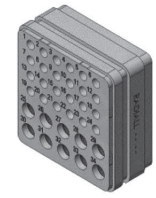
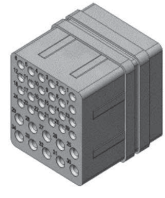



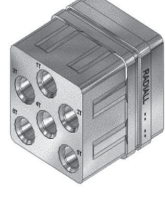


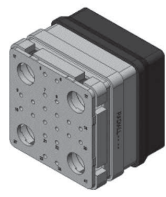
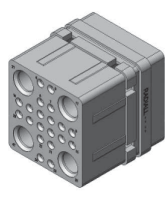
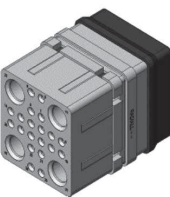
How to Order

| INSERT NAME | SHELL SIZE CAVITY | EQUIPMENT SIDE RECEPTACLE SHELL   |   |           |  | AVIONIC SIDE PLUG SHELL   |   |
|-------------|-------------------|---|---|-----------|--|---|---|
|             |                   | VERSION N   | VERSION E   | VERSION F | VERSION G  | VERSION N   | VERSION E   |
| 36F36       | 2/3-A/B           | <br>36 × #16 RR/RR<br>LuxCis®                    | <br>36 × #16 RR/RR<br>LuxCis®                    | N/A       | N/A  | <br>36 × #16 RR/RR<br>LuxCis®                    | <br>36 × #16 RR/RR<br>LuxCis®                    |
| 20F12Q8     | 2/3-A/B           | <br>12 × #16 RR/RR<br>LuxCis®<br>8 × #8G RR/RR   | <br>12 × #16 RR/RR<br>LuxCis®<br>8 × #8G RR/RR   | N/A       | <br>12 × #16 RR/RR<br>LuxCis®<br>8 × #8G FR/FR   | <br>12 × #16 RR/RR<br>LuxCis®<br>8 × #8G RR/RR   | <br>12 × #16 RR/RR<br>LuxCis®<br>8 × #8G RR/RR   |
| 110R        | 2/3-A/B           | <br>100 × #22 RR/RR<br>5#20 RR/RR<br>5#12 RR/RR | <br>100 × #22 RR/RR<br>5#20 RR/RR<br>5#12 RR/RR | N/A       | <br>100 × #22 FR/FR<br>5#20 FR/FR<br>5#12 FR/FR | <br>100 × #22 RR/RR<br>5#20 RR/RR<br>5#12 RR/RR | <br>100 × #22 RR/RR<br>5#20 RR/RR<br>5#12 RR/RR |
| Q11         | 2/3-A/B           | <br>11 × #8G RR/RR                             | <br>11 × #8G RR/RR                             | N/A       | <br>11 × #8G FR/FR                             | <br>11 × #8G RR/RR                             | <br>11 × #8G RR/RR                             |

How to Order

| INSERT NAME | SHELL SIZE CAVITY | EQUIPMENT SIDE RECEPTACLE SHELL   |   |   |  | AVIONIC SIDE PLUG SHELL   |   |
|-------------|-------------------|---|---|---|--|---|---|
|             |                   | VERSION N   | VERSION E   | VERSION F   | VERSION G  | VERSION N   | VERSION E   |
| 68Q4        | 2/3-A/B           | <br>62 × #22 RR/RR<br>6 × #16 RR/RR<br>4 × #8G RR/RR   | <br>62 × #22 RR/RR<br>6 × #16 RR/RR<br>4 × #8G RR/RR   | N/A   | N/A  | <br>62 × #22 RR/RR<br>6 × #16 RR/RR<br>4 × #8G RR/RR   | <br>62 × #22 RR/RR<br>6 × #16 RR/RR<br>4 × #8G RR/RR   |
| 118Q2       | 2/3-A/B           | <br>118 × #22 RR/RR<br>2 × #8G RR/RR                   | <br>118 × #22 RR/RR<br>2 × #8G RR/RR                   | <br>118 × #22 FR/FR<br>2 × #8G RR/RR                   | <br>118 × #22 FR/FR<br>2 × #8G FR/FR                   | <br>118 × #22 RR/RR<br>2 × #8G RR/RR                   | <br>118 × #22 RR/RR<br>2 × #8G RR/RR                   |
| 100         | 2/3-C             | <br>100 × #22 RR/RR                                   | <br>100 × #22 RR/RR                                   | <br>100 × #22 FR/FR                                   | N/A  | <br>100 × #22 RR/RR                                   | <br>100 × #22 RR/RR                                   |
| 85          | 2/3-C             | <br>80 × #22 RR/RR<br>4 × #20 RR/RR<br>1 × #16 RR/RR | <br>80 × #22 RR/RR<br>4 × #20 RR/RR<br>1 × #16 RR/RR | <br>80 × #22 FR/FR<br>4 × #20 RR/RR<br>1 × #16 RR/RR | <br>80 × #22 FR/FR<br>4 × #20 FR/FR<br>1 × #16 FR/FR | <br>80 × #22 RR/RR<br>4 × #20 RR/RR<br>1 × #16 RR/RR | <br>80 × #22 RR/RR<br>4 × #20 RR/RR<br>1 × #16 RR/RR |
| 84          | 2/3-C             | N/A   | N/A   | N/A   | N/A  | <br>80 × #22 RR/RR<br>4 × #20 RR/RR                  | <br>80 × #22 RR/RR<br>4 × #20 RR/RR                  |



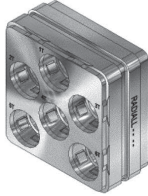


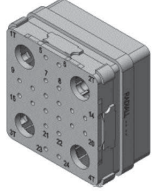
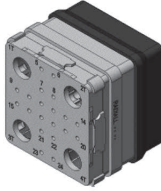

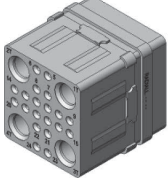



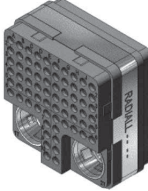
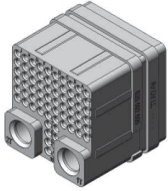

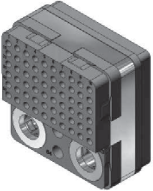


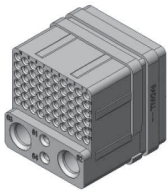




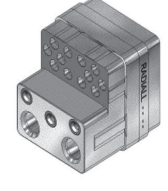
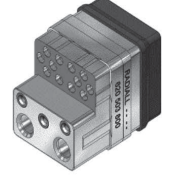
How to Order

| INSERT NAME | SHELL SIZE CAVITY | EQUIPMENT SIDE RECEPTACLE SHELL   |   |   |  | AVIONIC SIDE PLUG SHELL   |   |
|-------------|-------------------|---|---|---|--|---|---|
|             |                   | VERSION N   | VERSION E   | VERSION F   | VERSION G  | VERSION N   | VERSION E   |
| 59          | 2/3-C             | <br>50 × #22 RR/RR<br>5 × #16 RR/RR<br>4 × #12 RR/RR | <br>50 × #22 RR/RR<br>5 × #16 RR/RR<br>4 × #12 RR/RR | <br>50 × #22 FR/FR<br>5 × #16 RR/RR<br>4 × #12 RR/RR | <br>50 × #22 FR/FR<br>5 × #16 FR/FR<br>4 × #12 FR/FR | <br>50 × #22 RR/RR<br>5 × #16 RR/RR<br>4 × #12 RR/RR | <br>50 × #22 RR/RR<br>5 × #16 RR/RR<br>4 × #12 RR/RR |
| 34          | 2/3-C             | <br>24 × #20 RR/RR<br>10 × #16 RR/RR                 | <br>24 × #20 RR/RR<br>10 × #16 RR/RR                 | N/A   | <br>24 × #20 FR/FR<br>10 × #16 FR/FR                 | <br>24 × #20 RR/RR<br>10 × #16 RR/RR                 | <br>24 × #20 RR/RR<br>10 × #16 RR/RR                 |
| 6T6         | 2/3-C             | <br>6 × #8G RR/RR <sup>(1)</sup>                    | Available <sup>(1)</sup>  | N/A   | <br>6 × #8G FR/FR                                   | <br>6 × #8G RR/RR                                   | <br>6 × #8G RR/RR                                   |
| 24T4        | 2/3-C             | <br>20 × #20 RR/RR<br>4 × #8G RR/RR                | <br>20 × #20 RR/RR<br>4 × #8G RR/RR                | N/A   | N/A  | <br>20 × #20 RR/RR<br>4 × #8G RR/RR                | <br>20 × #20 RR/RR<br>4 × #8G RR/RR                |























Notes

1. For BPX serie, 6T6 insert will be supplied with FR/RR contacts.

How to Order

| INSERT NAME | SHELL SIZE CAVITY | EQUIPMENT SIDE RECEPTACLE SHELL   |   |           |  | AVIONIC SIDE PLUG SHELL   |   |
|-------------|-------------------|---|---|-----------|--|---|---|
|             |                   | VERSION N   | VERSION E   | VERSION F | VERSION G  | VERSION N   | VERSION E   |
| Q6          | 2/3-C             | <br>6 × #8G RR/RR  | <br>6 × #8G RR/RR  | N/A       | <br>6 × #8G FR/FR  | <br>6 × #8G RR/RR  | <br>6 × #8G RR/RR  |
| 20Q4        | 2/3-C             | <br>20 × #20 RR/RR<br>4 × #8G RR/RR                            | <br>20 × #20 RR/RR<br>4 × #8G RR/RR                            | N/A       | <br>20 × #20 FR/FR<br>4 × #8G FR/FR                            | <br>20 × #20 RR/RR<br>4 × #8G RR/RR                            | <br>20 × #20 RR/RR<br>4 × #8G RR/RR                            |
| 68Q2        | 2/3-C             | <br>68 × #22 RR/RR<br>2 × #8G RR/RR                           | <br>68 × #22 RR/RR<br>2 × #8G RR/RR                           | N/A       | <br>68 × #22 FR/FR<br>2 × #8G FR/FR                           | <br>68 × #22 RR/RR<br>2 × #8G RR/RR                           | <br>68 × #22 RR/RR<br>2 × #8G RR/RR                           |
| 62Q2        | 2/3-C             | <br>60 × #22 RR/RR<br>2 × #16 RR/RR<br>2 × #8G RR/RR         | <br>60 × #22 RR/RR<br>2 × #16 RR/RR<br>2 × #8G RR/RR         | N/A       | <br>60 × #22 FR/FR<br>2 × #16 FR/FR<br>2 × #8G FR/FR         | <br>60 × #22 RR/RR<br>2 × #16 RR/RR<br>2 × #8G RR/RR         | <br>60 × #22 RR/RR<br>2 × #16 RR/RR<br>2 × #8G RR/RR         |
| 17F12Q2     | 2/3-C             | <br>12 × #16 RR/RR LuxCis®<br>3 × #16 RR/RR<br>2 × #8G RR/RR | <br>12 × #16 RR/RR LuxCis®<br>3 × #16 RR/RR<br>2 × #8G RR/RR | N/A       | <br>12 × #16 RR/RR LuxCis®<br>3 × #16 FR/FR<br>2 × #8G FR/FR | <br>12 × #16 RR/RR LuxCis®<br>3 × #16 RR/RR<br>2 × #8G RR/RR | <br>12 × #16 RR/RR LuxCis®<br>3 × #16 RR/RR<br>2 × #8G RR/RR |







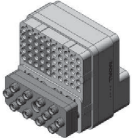
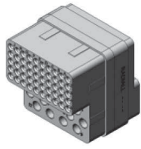


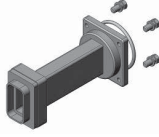
How to Order

| INSERT NAME | SHELL SIZE CAVITY | EQUIPMENT SIDE RECEPTACLE SHELL   |   |           |  | AVIONIC SIDE PLUG SHELL   |   |
|-------------|-------------------|---|---|-----------|--|---|---|
|             |                   | VERSION N   | VERSION E   | VERSION F | VERSION G  | VERSION N   | VERSION E   |
| 11Q2        | 2/3-C             | <br>4 × #20 RR/RR<br>3 × #16 RR/RR<br>4 × #12 RR/RR<br>2 × #8G RR/RR             | <br>4 × #20 RR/RR<br>3 × #16 RR/RR<br>4 × #12 RR/RR<br>2 × #8G RR/RR             | N/A       | <br>4 × #20 FR/FR<br>3 × #16 FR/FR<br>4 × #12 FR/FR<br>2 × #8G FR/FR | <br>4 × #20 RR/RR<br>3 × #16 RR/RR<br>4 × #12 RR/RR<br>2 × #8G RR/RR             | <br>4 × #20 RR/RR<br>3 × #16 RR/RR<br>4 × #12 RR/RR<br>2 × #8G RR/RR             |
| 11WQ2       | 2/3-C             | <br>4 × #20 RR/RR<br>3 × #16 RR/RR<br>4 × #12 RR/RR<br>2 × #8G RR/RR             | <br>4 × #20 RR/RR<br>3 × #16 RR/RR<br>4 × #12 RR/RR<br>2 × #8G RR/RR             | N/A       | <br>4 × #20 FR/FR<br>3 × #16 FR/FR<br>4 × #12 FR/FR<br>2 × #8G FR/FR | <br>4 × #20 RR/RR<br>3 × #16 RR/RR<br>4 × #12 RR/RR<br>2 × #8G RR/RR             | <br>4 × #20 RR/RR<br>3 × #16 RR/RR<br>4 × #12 RR/RR<br>2 × #8G RR/RR             |
| 13C2        | 2/3-C             | <br>4 × #20 RR/RR<br>3 × #16 RR/RR<br>4 × #12 RR/RR<br>2 × #5 RR/RR             | <br>4 × #20 RR/RR<br>3 × #16 RR/RR<br>4 × #12 RR/RR<br>2 × #5 RR/RR             | N/A       | <br>4 × #20 FR/FR<br>3 × #16 FR/FR<br>4 × #12 FR/FR<br>2 × #5 FR/FR | <br>4 × #20 RR/RR<br>3 × #16 RR/RR<br>4 × #12 RR/RR<br>2 × #5 RR/RR             | <br>4 × #20 RR/RR<br>3 × #16 RR/RR<br>4 × #12 RR/RR<br>2 × #5 RR/RR             |
| 12F5C2      | 2/3-C             | <br>1 × #16 RR/RR<br>5 × #16 RR/RR<br>LuxCis®<br>4 × #12 RR/RR<br>2 × #5 RR/RR | <br>1 × #16 RR/RR<br>5 × #16 RR/RR<br>LuxCis®<br>4 × #12 RR/RR<br>2 × #5 RR/RR | N/A       | N/A  | <br>1 × #16 RR/RR<br>5 × #16 RR/RR<br>LuxCis®<br>4 × #12 RR/RR<br>2 × #5 RR/RR | <br>1 × #16 RR/RR<br>5 × #16 RR/RR<br>LuxCis®<br>4 × #12 RR/RR<br>2 × #5 RR/RR |
| 6P6         | 2/3-C             | <br>6 × #8 RR/RR <sup>(1)</sup>  | Available <sup>(1)</sup>  | N/A       | N/A  | <br>6 × #8 RR/RR   | <br>6 × #8 RR/RR   |

Notes:

1. For BPX series, 6P6 insert will be supplied with FR/RR contacts.

How to Order

| INSERT NAME | SHELL SIZE CAVITY | EQUIPMENT SIDE RECEPTACLE SHELL   |           |   |  | AVIONIC SIDE PLUG SHELL   |   |
|-------------|-------------------|---|-----------|---|--|---|---|
|             |                   | VERSION N   | VERSION E | VERSION F   | VERSION G  | VERSION N   | VERSION E   |
| 15T6Q2      | 2/3-C             |  <p>7 × #16 RR/RR<br/>6 × #10 RR/RR<br/>2 × #8G RR/RR</p>                    | N/A       | N/A   |  <p>7 × #16 FR/FR<br/>6 × #10 FR/FR<br/>2 × #8G FR/FR</p>                    |  <p>7 × #16 RR/RR<br/>6 × #10 RR/RR<br/>2 × #8G RR/RR</p>                    | N/A   |
| 46Q2        | 2/3-C             |  <p>40 × #22 RR/RR<br/>2 × #16 RR/RR<br/>4 × #12 RR/RR<br/>2 × #8G RR/RR</p> | N/A       | N/A   |  <p>40 × #22 FR/FR<br/>2 × #16 FR/FR<br/>4 × #12 FR/FR<br/>2 × #8G FR/FR</p> |  <p>40 × #22 RR/RR<br/>2 × #16 RR/RR<br/>4 × #12 RR/RR<br/>2 × #8G RR/RR</p> | N/A   |
| 62F12       | 2/3-C             | N/A   | N/A       |  <p>50 × #22 FR/FR<br/>12 × #16 RR/RR<br/>LuxCis®</p> | N/A  |  <p>50 × #22 RR/RR<br/>12 × #16 RR/RR<br/>LuxCis®</p>                       |  <p>50 × #22 RR/RR<br/>12 × #16 RR/RR<br/>LuxCis®</p> |
| WAVE GUIDE  | 2 - A&B           |  <p>Wave Guide<br/>Equipment Side</p>                                      |           |   |  |  <p>Wave Guide<br/>Avionic Side</p>  |   |

How to Order

**INSERT COMBINATION CODE FOR SHELL SIZE 1**

| CODE | INSERT COMBINATION ON SHELL |          |          |
|------|-----------------------------|----------|----------|
|      | CAVITY A                    | CAVITY B | CAVITY C |
| 101  | 60                          | 60       | 5C2      |
| 102  | 60                          | 60       | BLANK    |
| 103  | BLANK                       | 60       | 5C2      |
| 104  | 60                          | BLANK    | 5C2      |
| 105  | BLANK                       | BLANK    | 5C2      |
| 106  | 60                          | BLANK    | BLANK    |
| 107  | 30T2                        | 30T2     | 40       |
| 108  | 60                          | 60       | 40       |
| 109  | BLANK                       | 60       | BLANK    |

| CODE | INSERT COMBINATION ON SHELL |          |          |
|------|-----------------------------|----------|----------|
|      | CAVITY A                    | CAVITY B | CAVITY C |
| 111  | BLANK                       | 30T2     | 40       |
| 112  | 60                          | 4C       | 5C2      |
| 113  | 60                          | 4C       | 40       |
| 114  | 60                          | BLANK    | 40       |
| 115  | BLANK                       | BLANK    | BLANK    |
| 116  | 4C                          | 60       | 40       |
| 117  | BLANK                       | BLANK    | 40       |
| 118  | 60                          | 30T2     | 5C2      |
| 119  | 30T2                        | BLANK    | 5C2      |

| CODE | INSERT COMBINATION ON SHELL |          |          |
|------|-----------------------------|----------|----------|
|      | CAVITY A                    | CAVITY B | CAVITY C |
| 120  | 60                          | 30T2     | 40       |
| 121  | 4C                          | 4C       | 40       |
| 122  | 30T2                        | 60       | 5C2      |
| 123  | 60                          | 60       | 12F12    |
| 124  | 4C                          | BLANK    | 12F12    |
| 125  | BLANK                       | BLANK    | 12F12    |

**FOR SHELL SIZE 2**

| CODE | INSERT COMBINATION ON SHELL |            |          |
|------|-----------------------------|------------|----------|
|      | CAVITY A                    | CAVITY B   | CAVITY C |
| 201  | 150                         | 150        | 13C2     |
| 202  | 71C1                        | 150        | 13C2     |
| 203  | 71C1                        | 71C1       | 13C2     |
| 204  | Wave Guide                  | 150        | 13C2     |
| 205  | 150                         | 71C1       | 13C2     |
| 206  | 150                         | 150        | 100      |
| 207  | 71C1                        | 150        | 100      |
| 208  | 150                         | 71C1       | 100      |
| 209  | 71C1                        | 71C1       | 100      |
| 210  | Wave Guide                  | 71C1       | 100      |
| 211  | 150                         | 150        | BLANK    |
| 212  | 71C1                        | 71C1       | BLANK    |
| 213  | 71C1                        | Wave Guide | 13C2     |
| 214  | Wave Guide                  | 71C1       | 13C2     |
| 215  | 150                         | 73C3       | 13C2     |
| 216  | C2                          | 1C71       | 85       |
| 217  | 150                         | C5         | 13C2     |
| 218  | 150                         | Wave Guide | 13C2     |
| 219  | 150                         | 2C         | 13C2     |
| 220  | 71C1                        | C2         | 85       |
| 221  | 1C71                        | 71C1       | 13C2     |
| 222  | BLANK                       | 150        | 13C2     |
| 223  | BLANK                       | BLANK      | 13C2     |
| 224  | 150                         | BLANK      | 13C2     |
| 225  | 150                         | 71C1       | BLANK    |
| 226  | 150                         | 150        | 85       |
| 227  | 150                         | 150        | 34       |
| 228  | C4                          | 150        | 13C2     |
| 229  | 120T2                       | 120T2      | 100      |

| CODE | INSERT COMBINATION ON SHELL |            |          |
|------|-----------------------------|------------|----------|
|      | CAVITY A                    | CAVITY B   | CAVITY C |
| 230  | 121                         | 121        | 6T6      |
| 233  | 120T2                       | 150        | 100      |
| 234  | 60A                         | 60A        | 13C2     |
| 235  | 150                         | C4         | 34       |
| 236  | C4                          | C4         | 34       |
| 237  | 150                         | 120T2      | 100      |
| 243  | 150                         | BLANK      | 100      |
| 244  | 150                         | BLANK      | BLANK    |
| 245  | 71C1                        | 71C1       | 85       |
| 246  | 71C1                        | BLANK      | BLANK    |
| 247  | BLANK                       | 150        | 85       |
| 248  | BLANK                       | 150        | 100      |
| 249  | BLANK                       | 150        | BLANK    |
| 250  | BLANK                       | 71C1       | BLANK    |
| 251  | BLANK                       | BLANK      | 100      |
| 252  | BLANK                       | Wave Guide | 100      |
| 253  | C2                          | 150        | 13C2     |
| 254  | C2                          | 1C71       | 100      |
| 255  | C2                          | 1C71       | 13C2     |
| 256  | C2                          | 71C1       | 13C2     |
| 257  | C2                          | C2         | 13C2     |
| 258  | -                           | -          | -        |
| 259  | C4                          | C4         | 85       |
| 260  | Wave Guide                  | 150        | 85       |
| 261  | Wave Guide                  | 150        | 100      |
| 262  | 150                         | 60A        | 34       |
| 264  | BLANK                       | 24         | 100      |
| 265  | 24                          | 150        | 13C2     |
| 266  | 121                         | 121        | 85       |

| CODE | INSERT COMBINATION ON SHELL |          |          |
|------|-----------------------------|----------|----------|
|      | CAVITY A                    | CAVITY B | CAVITY C |
| 268  | 60A                         | 121      | 59       |
| 270  | 150                         | 150      | 59       |
| 271  | C4                          | 120T2    | 13C2     |
| 272  | 150                         | 150      | 24T4     |
| 273  | 150                         | C2       | 13C2     |
| 274  | C2                          | 71C1     | 85       |
| 275  | 121                         | 60A      | 34       |
| 276  | 121                         | BLANK    | 100      |
| 277  | 1C71                        | 150      | 13C2     |
| 278  | 71C1                        | 1C71     | 13C2     |
| 279  | 150                         | 121      | 13C2     |
| 280  | 120T2                       | 121      | 34       |
| 281  | 150                         | 121      | 34       |
| 282  | C4                          | BLANK    | 13C2     |
| 283  | 150                         | 60A      | 13C2     |
| 284  | 120T2                       | 120T2    | 13C2     |
| 285  | 24                          | 60A      | 100      |
| 286  | 60A                         | 60A      | 34       |
| 287  | BLANK                       | 60A      | 100      |

How to Order

FOR SHELL SIZE 2

| CODE | INSERT COMBINATION ON SHELL |          |          |
|------|-----------------------------|----------|----------|
|      | CAVITY A                    | CAVITY B | CAVITY C |
| 288  | BLANK                       | 121      | BLANK    |
| 289  | BLANK                       | BLANK    | 85       |
| 290  | 150                         | 121      | 100      |
| 291  | 121                         | 150      | 100      |
| 292  | 121                         | 121      | BLANK    |
| 294  | 121                         | 121      | 13C2     |
| 295  | Q11                         | Q11      | 85       |
| 297  | 120T2                       | 60A      | BLANK    |
| 298  | 121                         | 60A      | BLANK    |
| 299  | BLANK                       | BLANK    | 59       |
| 501  | 24                          | 60A      | 59       |
| 502  | 121                         | Q11      | Q6       |
| 503  | 150                         | BLANK    | 11Q2     |
| 504  | 150                         | BLANK    | 34       |
| 505  | Q11                         | BLANK    | 34       |
| 506  | 150                         | 150      | 11Q2     |
| 507  | 150                         | 150      | 68Q2     |
| 508  | 24                          | 24       | 100      |
| 509  | 150                         | Q11      | 13C2     |
| 510  | 121                         | 121      | 100      |
| 511  | 24                          | 150      | 100      |
| 512  | Q11                         | Q11      | 62Q2     |
| 513  | Q11                         | Q11      | 34       |
| 514  | BLANK                       | 60A      | 34       |
| 515  | BLANK                       | BLANK    | BLANK    |
| 516  | 121                         | 121      | 34       |
| 517  | BLANK                       | 120T2    | 13C2     |
| 518  | Q11                         | BLANK    | 62Q2     |
| 519  | Q11                         | Q11      | 68Q2     |
| 520  | 150                         | 121      | 24T4     |
| 521  | Q11                         | 150      | 62Q2     |
| 522  | 20F12T8                     | 120T2    | 13C2     |
| 524  | 120T2                       | 120T2    | 11Q2     |
| 527  | 120T2                       | 120T2    | 85       |

| CODE | INSERT COMBINATION ON SHELL |          |          |
|------|-----------------------------|----------|----------|
|      | CAVITY A                    | CAVITY B | CAVITY C |
| 528  | 150                         | 150      | 11WQ2    |
| 529  | 35                          | 35       | 62Q2     |
| 530  | 24                          | BLANK    | 85       |
| 532  | 20F12T8                     | 121      | 34       |
| 533  | 120T2                       | C4       | 24T4     |
| 534  | BLANK                       | Q11      | 85       |
| 535  | 150                         | 35       | 24T4     |
| 536  | BLANK                       | 150      | 24T4     |
| 537  | 118Q2                       | 118Q2    | 24T4     |
| 538  | 150                         | 120T2    | 13C2     |
| 539  | Q11                         | Q11      | BLANK    |
| 540  | 120T2                       | C4       | 13C2     |
| 541  | 1C71                        | Q11      | 13C2     |
| 542  | 121                         | C4       | Q6       |
| 543  | 120T2                       | Q11      | 13C2     |
| 544  | 120T2                       | 120T2    | 24T4     |
| 545  | C4                          | Q11      | 85       |
| 546  | 121                         | 60A      | 100      |
| 547  | BLANK                       | 150      | 20Q4     |
| 548  | 150                         | 35       | 20Q4     |
| 551  | 121                         | 118Q2    | 24T4     |
| 552  | 150                         | Q11      | 11Q2     |
| 554  | BLANK                       | 118Q2    | 13C2     |
| 555  | BLANK                       | 71C1     | 13C2     |
| 556  | BLANK                       | BLANK    | 62Q2     |
| 557  | BLANK                       | Q11      | 62Q2     |
| 558  | BLANK                       | Q11      | BLANK    |
| 559  | 150                         | 150      | 20Q4     |
| 560  | 150                         | Q11      | 85       |
| 561  | 150                         | 120T2    | 85       |
| 562  | 121                         | BLANK    | BLANK    |
| 563  | 24                          | 24       | 34       |
| 564  | BLANK                       | BLANK    | 34       |
| 565  | 150                         | 24       | 34       |

| CODE | INSERT COMBINATION ON SHELL |          |          |
|------|-----------------------------|----------|----------|
|      | CAVITY A                    | CAVITY B | CAVITY C |
| 566  | 150                         | 121      | BLANK    |
| 567  | 150                         | 118Q2    | BLANK    |
| 569  | 118Q2                       | 118Q2    | BLANK    |
| 570  | Q11                         | 150      | 11Q2     |
| 571  | 150                         | 118Q2    | 13C2     |
| 572  | 150                         | C4       | 13C2     |
| 573  | 150                         | 24       | 13C2     |
| 574  | 150                         | 121      | 59       |
| 575  | 60A                         | 150      | 34       |
| 576  | 150                         | 150      | Q6       |
| 577  | 1C71                        | 118Q2    | 12F5C2   |
| 578  | 150                         | 121      | 20Q4     |
| 579  | C4                          | 118Q2    | 85       |
| 580  | 150                         | BLANK    | 59       |
| 581  | 118Q2                       | 118Q2    | 20Q4     |
| 582  | BLANK                       | 71C1     | 11Q2     |
| 584  | 121                         | 121      | 59       |
| 585  | 20F12Q8                     | BLANK    | 11Q2     |
| 586  | 150                         | Q11      | 34       |
| 587  | 150                         | 118Q2    | 85       |
| 588  | Q11                         | Q11      | 11Q2     |
| 590  | BLANK                       | Q11      | Q6       |
| 591  | 20F12T8                     | 150      | 100      |
| 592  | BLANK                       | BLANK    | 11Q2     |
| 593  | 20F12Q8                     | 121      | BLANK    |
| 594  | C                           | 118Q2    | 85       |
| 596  | BLANK                       | 118Q2    | 11WQ2    |
| 597  | 150                         | 121      | Q6       |
| 598  | 20F12Q8                     | 118Q2    | 13C2     |
| 599  | C4                          | 24       | 100      |
| 801  | C4                          | Q11      | 59       |
| 802  | BLANK                       | 120T2    | 24T4     |
| 803  | Q11                         | 20F12Q8  | 11Q2     |
| 804  | Q11                         | 20F12Q8  | 17F12Q2  |
| 806  | C4                          | 60A      | 59       |
| 807  | Q11                         | 150      | 85       |
| 809  | C4                          | C4       | 59       |



## How to Order

## FOR SHELL SIZE 2

| CODE | INSERT COMBINATION ON SHELL |          |          |
|------|-----------------------------|----------|----------|
|      | CAVITY A                    | CAVITY B | CAVITY C |
| 810  | Q11                         | Q11      | 13C2     |
| 811  | 150                         | 150      | 12F5C2   |
| 812  | 60A                         | C2       | 13C2     |
| 813  | BLANK                       | Q11      | 13C2     |
| 814  | 120T2                       | 150      | 13C2     |
| 815  | 60A                         | 35       | 24T4     |
| 817  | 20F12Q8                     | Q11      | 62Q2     |
| 818  | 60A                         | C2       | 24T4     |
| 819  | 60A                         | 24       | 34       |
| 820  | Q11                         | 121      | BLANK    |
| 822  | Q11                         | 35       | 100      |
| 823  | 20F12T8                     | 118Q2    | 13C2     |
| 824  | 20F12Q8                     | BLANK    | BLANK    |
| 825  | 20F12T8                     | BLANK    | BLANK    |
| 826  | 150                         | 20F12Q8  | 34       |
| 827  | Q11                         | 150      | 59       |
| 828  | 150                         | BLANK    | 85       |
| 829  | 120T2                       | BLANK    | 85       |
| 830  | 118Q2                       | 120T2    | BLANK    |

| CODE | INSERT COMBINATION ON SHELL |          |          |
|------|-----------------------------|----------|----------|
|      | CAVITY A                    | CAVITY B | CAVITY C |
| 831  | 120T2                       | 120T2    | BLANK    |
| 832  | Q11                         | 121      | 100      |
| 833  | 150                         | 150      | 17F12Q2  |
| 834  | 110R                        | 150      | 17F12Q2  |
| 835  | 121                         | 121      | 11Q2     |
| 838  | Q11                         | BLANK    | 68Q2     |
| 839  | 60A                         | BLANK    | 34       |
| 840  | 150                         | 110      | 11Q2     |
| 841  | 150                         | 110      | 34       |
| 842  | 71C1                        | 118Q2    | 12F5C2   |
| 843  | 110                         | 110      | BLANK    |
| 844  | 150                         | 121      | 62F12    |
| 845  | 150                         | 20F12Q8  | 13C2     |
| 846  | C4                          | 150      | 62F12    |
| 847  | C4                          | 150      | 11Q2     |
| 848  | 24                          | 150      | 6Q6      |
| 849  | 150                         | 150      | 10       |
| 850  | 150                         | 110      | 13C2     |
| 851  | 36F36                       | 150      | 85       |

| CODE | INSERT COMBINATION ON SHELL |          |          |
|------|-----------------------------|----------|----------|
|      | CAVITY A                    | CAVITY B | CAVITY C |
| 852  | 150                         | 121      | 11Q2     |
| 853  | 118Q2                       | 150      | 11Q2     |
| 854  | 20F12Q8                     | 118Q2    | 59       |
| 855  | 20F12Q8                     | Q11      | 100      |
| 856  | BLANK                       | 110      | 13C2     |
| 857  | BLANK                       | 36F36    | BLANK    |
| 858  | 118Q2                       | 118Q2    | 11Q2     |
| 859  | 150                         | 36F36    | 13C2     |
| 860  | 150                         | 118Q2    | 11Q2     |
| 861  | 118Q2                       | 118Q2    | 59       |
| 862  | 150                         | 118Q2    | 62Q2     |
| 863  | Q11                         | Q11      | 17F12Q2  |
| 864  | 150                         | Q11      | 46Q2     |
| 865  | 118Q2                       | 150      | 13C2     |
| 866  | 121                         | 110      | 13C2     |
| 867  | C4                          | C2       | BLANK    |
| 868  | 150                         | 118Q2    | 24T4     |

How to Order

FOR SHELL SIZE 3

| CODE | INSERT COMBINATION ON SHELL |          |          |          |          |          |
|------|-----------------------------|----------|----------|----------|----------|----------|
|      | CAVITY A                    | CAVITY B | CAVITY C | CAVITY D | CAVITY E | CAVITY F |
| 301  | 150                         | 150      | 13C2     | 150      | 150      | 13C2     |
| 302  | 150                         | 150      | 100      | 150      | 150      | 13C2     |
| 303  | 150                         | 150      | 13C2     | 150      | 150      | 100      |
| 304  | 150                         | 150      | 100      | 150      | 150      | 100      |
| 305  | 150                         | 150      | BLANK    | 150      | 150      | BLANK    |
| 306  | 150                         | 71C1     | 13C2     | 150      | 71C1     | 13C2     |
| 307  | 71C1                        | 71C1     | 13C2     | 71C1     | 71C1     | 13C2     |
| 308  | C2                          | C2       | 13C2     | C2       | 150      | 100      |
| 309  | 150                         | 150      | 13C2     | 150      | 71C1     | 100      |
| 310  | C4                          | C4       | 13C2     | BLANK    | 150      | 100      |
| 311  | 150                         | 150      | 85       | 150      | 150      | 85       |
| 312  | BLANK                       | BLANK    | 13C2     | BLANK    | BLANK    | 13C2     |
| 313  | BLANK                       | BLANK    | 13C2     | BLANK    | BLANK    | 100      |
| 314  | BLANK                       | BLANK    | 13C2     | BLANK    | 150      | 100      |
| 315  | 150                         | 150      | 13C2     | 150      | 150      | BLANK    |
| 316  | 24                          | BLANK    | 13C2     | 150      | 150      | BLANK    |
| 317  | 120T2                       | 150      | 34       | 120T2    | 150      | 34       |
| 320  | 150                         | 60A      | 100      | 150      | 60A      | 100      |
| 321  | 150                         | 150      | 100      | 150      | BLANK    | BLANK    |
| 322  | 150                         | 150      | 100      | 150      | 150      | 34       |
| 323  | 150                         | 150      | 100      | 71C1     | 71C1     | 100      |
| 324  | 150                         | 150      | 100      | C2       | BLANK    | BLANK    |
| 325  | 150                         | 150      | 13C2     | C2       | C2       | 13C2     |
| 326  | 150                         | 71C1     | 100      | 150      | 150      | 100      |
| 327  | 150                         | 71C1     | 100      | 150      | 150      | 13C2     |
| 328  | C2                          | C2       | 13C2     | 150      | 150      | 13C2     |
| 329  | C2                          | C2       | 13C2     | C4       | 150      | 100      |
| 330  | C4                          | C4       | 13C2     | BLANK    | BLANK    | BLANK    |
| 331  | 71C1                        | 150      | 100      | 150      | 150      | 100      |
| 332  | C4                          | C4       | 13C2     | C4       | C4       | 85       |
| 333  | 71C1                        | 71C1     | 100      | 71C1     | 71C1     | 100      |
| 334  | 71C1                        | 71C1     | BLANK    | 71C1     | 71C1     | BLANK    |
| 335  | 71C1                        | C4       | 100      | 71C1     | C4       | 100      |
| 336  | BLANK                       | 150      | 13C2     | BLANK    | 150      | 13C2     |
| 337  | BLANK                       | BLANK    | 100      | BLANK    | BLANK    | 13C2     |
| 338  | C2                          | 150      | 100      | 150      | 150      | 100      |
| 339  | C2                          | C2       | 100      | C2       | C2       | 100      |
| 340  | C2                          | C2       | 13C2     | C2       | C2       | 13C2     |
| 341  | C4                          | C4       | 100      | C4       | C4       | 100      |
| 342  | C4                          | C4       | 13C2     | C4       | C4       | 13C2     |

Notes

NSX T CAS connectors (insert code combination 310) are installed on equipment for use on T CAS (Traffic Collision Avoidance Systems)  
 C4 insert uses size 1 RF coaxial contacts (See page 5-42)

## How to Order

## FOR SHELL SIZE 3

| CODE | INSERT COMBINATION ON SHELL |          |          |          |          |          |
|------|-----------------------------|----------|----------|----------|----------|----------|
|      | CAVITY A                    | CAVITY B | CAVITY C | CAVITY D | CAVITY E | CAVITY F |
| 343  | BLANK                       | 150      | 100      | 150      | 150      | 13C2     |
| 344  | 24                          | 150      | 13C2     | 24       | 150      | 13C2     |
| 345  | 60A                         | 24       | BLANK    | 60A      | 24       | BLANK    |
| 346  | 150                         | 24       | 100      | 150      | 150      | 34       |
| 348  | C4                          | 120T2    | 100      | 150      | 150      | 13C2     |
| 350  | 150                         | 120T2    | 100      | 150      | 120T2    | 59       |
| 351  | 150                         | 150      | 34       | 150      | 150      | 34       |
| 352  | 24                          | 24       | 100      | 24       | 24       | 34       |
| 353  | 150                         | 150      | 59       | 150      | 150      | 59       |
| 354  | 150                         | 150      | 34       | 150      | 24       | 100      |
| 355  | C4                          | 150      | 13C2     | BLANK    | 150      | 13C2     |
| 356  | 150                         | 150      | 100      | 60A      | 60A      | 100      |
| 357  | C4                          | C4       | 13C2     | 150      | 150      | 100      |
| 358  | C4                          | C4       | 13C2     | 121      | 150      | 100      |
| 359  | 121                         | 121      | 13C2     | 121      | 121      | 13C2     |
| 360  | 150                         | 150      | 6T6      | 24       | 24       | 13C2     |
| 361  | 150                         | BLANK    | 13C2     | 150      | 150      | BLANK    |
| 362  | 24                          | 24       | 34       | 150      | 121      | 34       |
| 363  | 150                         | 150      | 59       | 24       | 60A      | 59       |
| 364  | 60A                         | 24       | 59       | 150      | 150      | 59       |
| 365  | 24                          | 60A      | 100      | 24       | 60A      | 100      |
| 366  | 150                         | 150      | 84       | 150      | 150      | 100      |
| 367  | 150                         | 150      | 59       | 120T2    | 120T2    | 100      |
| 368  | 150                         | 150      | 59       | 150      | 150      | 34       |
| 369  | 150                         | 150      | 59       | 150      | 150      | 100      |
| 370  | 60A                         | 60A      | 100      | 60A      | 60A      | 100      |
| 371  | C4                          | C4       | 13C2     | C2       | 150      | 100      |
| 372  | 150                         | 150      | BLANK    | 121      | BLANK    | 13C2     |
| 373  | 150                         | 150      | 13C2     | 120T2    | 120T2    | 100      |
| 374  | 150                         | 150      | 68Q2     | 150      | 150      | 68Q2     |
| 375  | 150                         | 150      | 100      | 150      | 150      | 68Q2     |
| 376  | 150                         | 150      | 68Q2     | 150      | 150      | BLANK    |
| 377  | 120T2                       | 150      | 13C2     | 120T2    | 150      | 100      |
| 378  | Q11                         | 150      | 13C2     | 150      | 150      | 13C2     |
| 379  | 60A                         | 150      | 34       | 150      | 150      | 34       |
| 380  | C4                          | 120T2    | 11Q2     | C4       | 120T2    | 13C2     |
| 381  | C4                          | 120T2    | 11Q2     | C4       | 120T2    | 11Q2     |
| 382  | 150                         | 150      | 11Q2     | 150      | 150      | 11Q2     |
| 383  | 150                         | 150      | BLANK    | Q11      | 150      | 85       |
| 384  | Q11                         | 150      | 85       | 150      | 150      | BLANK    |

How to Order

FOR SHELL SIZE 3

| CODE | INSERT COMBINATION ON SHELL |          |          |          |          |          |
|------|-----------------------------|----------|----------|----------|----------|----------|
|      | CAVITY A                    | CAVITY B | CAVITY C | CAVITY D | CAVITY E | CAVITY F |
| 387  | Q11                         | Q11      | 62Q2     | Q11      | Q11      | 62Q2     |
| 388  | Q11                         | Q11      | Q6       | Q11      | Q11      | 62Q2     |
| 389  | Q11                         | 150      | 11Q2     | 150      | 150      | 68Q2     |
| 390  | 150                         | 150      | 11Q2     | BLANK    | BLANK    | BLANK    |
| 393  | BLANK                       | BLANK    | 13C2     | 150      | BLANK    | BLANK    |
| 394  | BLANK                       | BLANK    | 13C2     | 150      | BLANK    | 13C2     |
| 395  | Q11                         | Q11      | 100      | Q11      | Q11      | 100      |
| 396  | BLANK                       | BLANK    | BLANK    | BLANK    | BLANK    | BLANK    |
| 397  | Q11                         | Q11      | 11Q2     | Q11      | 150      | 11Q2     |
| 398  | 150                         | 120T2    | 85       | 150      | 120T2    | 85       |
| 399  | 121                         | BLANK    | 6T6      | 60A      | BLANK    | 13C2     |
| 601  | 60A                         | 60A      | 13C2     | 60A      | 60A      | 13C2     |
| 602  | Q11                         | 150      | 11Q2     | 150      | 150      | 11Q2     |
| 603  | 24                          | BLANK    | 13C2     | BLANK    | BLANK    | 13C2     |
| 604  | 150                         | 150      | BLANK    | 150      | 150      | 100      |
| 605  | 150                         | Q11      | 11Q2     | 150      | Q11      | 68Q2     |
| 607  | 24                          | 24       | 13C2     | 24       | 24       | 100      |
| 608  | 24                          | 24       | 13C2     | 24       | 24       | 68Q2     |
| 609  | 150                         | 150      | 34       | 150      | 120T2    | 13C2     |
| 610  | 150                         | 150      | 34       | 150      | Q11      | 13C2     |
| 611  | BLANK                       | 150      | 13C2     | BLANK    | 150      | 100      |
| 613  | Q11                         | 150      | 68Q2     | 150      | 150      | 13C2     |
| 614  | 150                         | 150      | 100      | BLANK    | BLANK    | BLANK    |
| 615  | 150                         | 150      | 100      | 150      | 150      | 59       |
| 616  | 150                         | 150      | 13C2     | 60A      | 120T2    | 34       |
| 617  | 60A                         | 120T2    | 13C2     | 60A      | 120T2    | 13C2     |
| 618  | 150                         | 150      | Q6       | 150      | 150      | Q6       |
| 619  | Q11                         | Q11      | 11Q2     | 150      | 150      | 100      |
| 620  | 24                          | 24       | 34       | 24       | BLANK    | 34       |
| 621  | 150                         | 150      | 34       | 150      | 60A      | 34       |
| 622  | 120T2                       | 150      | 100      | 120T2    | 150      | 100      |
| 623  | C4                          | C4       | 34       | C4       | C4       | BLANK    |
| 624  | 150                         | 150      | 13C2     | 60A      | 60A      | 34       |
| 626  | C4                          | C4       | 13C2     | 120T2    | 150      | 100      |
| 627  | C4                          | 120T2    | BLANK    | C4       | 120T2    | 11Q2     |

## How to Order

## FOR SHELL SIZE 3

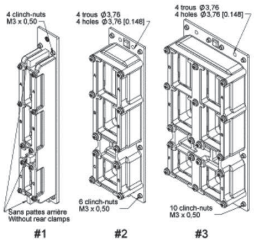
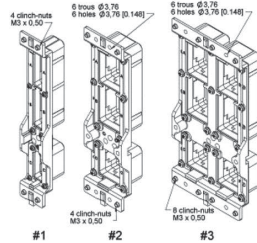
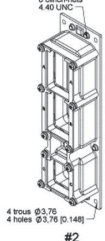
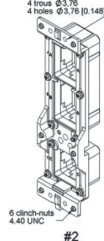
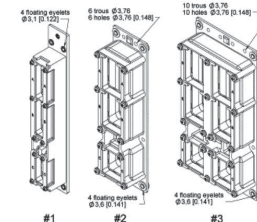
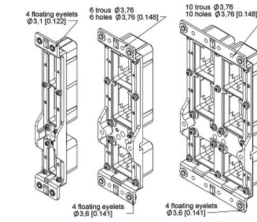
| CODE | INSERT COMBINATION ON SHELL |          |          |          |          |          |
|------|-----------------------------|----------|----------|----------|----------|----------|
|      | CAVITY A                    | CAVITY B | CAVITY C | CAVITY D | CAVITY E | CAVITY F |
| 629  | C4                          | 120T2    | 17F12Q2  | C4       | 120T2    | 11Q2     |
| 630  | C4                          | C4       | BLANK    | C4       | C4       | 34       |
| 631  | BLANK                       | 150      | 13C2     | BLANK    | Q11      | BLANK    |
| 632  | BLANK                       | 150      | 13C2     | 150      | 150      | 68Q2     |
| 633  | 150                         | 150      | 100      | Q11      | Q11      | 11Q2     |
| 634  | 150                         | 120T2    | 34       | 150      | 120T2    | 34       |
| 635  | Q11                         | 121      | 11Q2     | Q11      | 121      | 11Q2     |
| 636  | 150                         | 150      | 11Q2     | 150      | 150      | 100      |
| 637  | BLANK                       | 150      | 11Q2     | 150      | 150      | 68Q2     |
| 638  | Q11                         | 150      | 62Q2     | Q11      | 150      | 62Q2     |
| 639  | Q11                         | 121      | 13C2     | Q11      | 121      | 13C2     |
| 641  | 150                         | 150      | BLANK    | 150      | 150      | 13C2     |
| 642  | 121                         | 60A      | 59       | 121      | 60A      | 13C2     |
| 643  | Q11                         | Q11      | Q6       | Q11      | Q11      | Q6       |
| 644  | 150                         | Q11      | 34       | Q11      | Q11      | 34       |
| 645  | 150                         | 150      | 11Q2     | 150      | 150      | BLANK    |
| 646  | 150                         | BLANK    | 13C2     | 150      | BLANK    | BLANK    |
| 647  | C4                          | 120T2    | 17F12Q2  | C4       | 120T2    | 13C2     |
| 648  | BLANK                       | BLANK    | 17F12Q2  | BLANK    | BLANK    | BLANK    |
| 649  | 150                         | 150      | 15T6Q2   | 150      | 150      | 15T6Q2   |
| 651  | Q11                         | 118Q2    | 59       | Q11      | 118Q2    | 59       |
| 652  | 121                         | 121      | 34       | 121      | 121      | 34       |
| 653  | C4                          | C4       | 13C2     | C4       | 150      | 100      |
| 654  | C4                          | 150      | 62F12    | C4       | 150      | 11Q2     |
| 655  | 36F36                       | 150      | 11Q2     | 150      | 150      | 68Q2     |
| 656  | 71C1                        | 71C1     | 85       | 71C1     | 71C1     | 85       |
| 657  | Q11                         | Q11      | 34       | 120T2    | 150      | 13C2     |
| 660  | C4                          | BLANK    | BLANK    | 150      | BLANK    | 13C2     |
| 661  | Q11                         | Q11      | 85       | Q11      | Q11      | 85       |
| 662  | BLANK                       | BLANK    | 13C2     | 150      | 150      | 100      |
| 664  | Q11                         | Q11      | 100      | 118Q2    | Q11      | 34       |

How to Order

MODIFICATION CODE

| CODE | RECEPTACLE SHELL   | PLUG SHELL  |
|------|--|---|
| 00   | <p>Ø 3.76<br/>Ø (0.148)<br/>All Holes</p>  | <p>Ø 3.76<br/>Ø (0.148)<br/>All Holes</p>   |
| 01   | <p>Shell Size 1: Qty = 4<br/>6-32 UNC &amp;<br/>Qty = 6 4-40 UNC</p> <p>Shell Size 2: Qty = 6<br/>6-32 UNC</p> <p>Shell Size 3: Qty = 10<br/>6-32 UNC</p>  | <p>6-32 UNC</p> <p>Shell Size 1: Qty = 4<br/>Shell Size 2: Qty = 4<br/>Shell Size 3: Qty = 8</p> <p>Size 1 Plug is Without<br/>Threaded Inserts</p>   |
| 03   | <p>Shell Size 1: Qty = 6<br/>4-40 UNC 2B &amp;<br/>Qty = 3 Holes Ø 3.05 (0.120)</p> <p>Shell Size 2: Qty = 6 &amp;<br/>Qty = 4 Holes Ø 3.76 (0.148)</p> <p>Shell Size 3: Qty = 10 &amp; Qty = 4<br/>Holes Ø 3.76 (0.148)</p> | <p>Shell Size 1 Plug is Without<br/>Threaded Inserts</p> <p>Shell Size 1: Qty = 4<br/>4-40 UNC</p> <p>Shell Size 2: Qty = 4 4-40 UNC &amp;<br/>Qty = 6 Soles Ø 3.76 (0.148)</p> <p>Shell Size 3: Qty = 8 &amp;<br/>Qty = 6 Holes Ø 3.76 (0.148)</p> |
| 08   | <p>4-40 UNC<br/>All Holes</p> <p>Shell Sizes 2 and 3 Only</p>  | <p>4-40 UNC<br/>All Holes</p> <p>Shell Sizes 2 and 3 Only</p>   |
| 09   | <p>6-32 UNC<br/>All Holes</p> <p>Shell Sizes 2 and 3 Only</p>  | <p>6-32 UNC<br/>All Holes</p> <p>Shell Sizes 2 and 3 Only</p>   |
| 10   | <p>M3 x 0.50<br/>All Holes</p> <p>Shell Size 1 Receptacle is<br/>Without Threaded Inserts</p>  | <p>M3 x 0.50<br/>All Holes</p> <p>Shell Size 1 Plug is Without<br/>Threaded Inserts</p>   |

How to Order

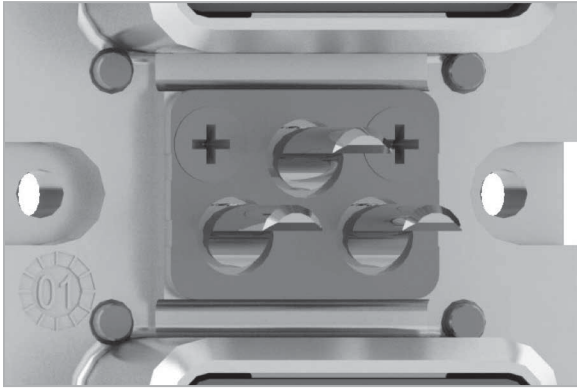
| CODE | RECEPTACLE SHELL  | PLUG SHELL  |
|------|---|---|
| 11   |  <p>M3 x 0.50</p> <p>Shell Size 1: Qty = 4<br/>Shell Size 2: Qty = 6<br/>Shell Size 3: Qty = 10</p> <p>Size 1 Receptacle is Without Threaded Inserts</p>   |  <p>M3 x 0.50</p> <p>Shell Size 1: Qty = 4<br/>Shell Size 2: Qty = 4<br/>Shell Size 3: Qty = 8</p> <p>Shell Size 1 Plug is Without Threaded Inserts</p> |
| 12   |  <p>4-40 UNC<br/>6 Holes (4 Close to the Bosses and 2 at the Polarization System Level)</p> <p>Available for Shell Size 2 Only</p>   |  <p>4-40 UNC<br/>6 Holes (4 in to the Corner and 2 at the Polarization System Level)</p> <p>Available for Shell Size 2 Only</p>                         |
| 23   |  <p>Shell Size 1: Qty = 4 Floating Eyelets Ø 3.1 (0.122)</p> <p>Shell Size 2: Qty = 6 Ø 3.76 (0.148) + 4 Floating Eyelets</p> <p>Shell Size 3: Qty = 10 Ø 3.76 (0.148) + 4 Floating Eyelets</p> |  <p>Shell Size 1: Ø 3.1 (0.122)</p> <p>Shell Size 2 and 3: Ø 3.6 (0.141)</p> <p>4 Floating Eyelets</p>   |

How to Order

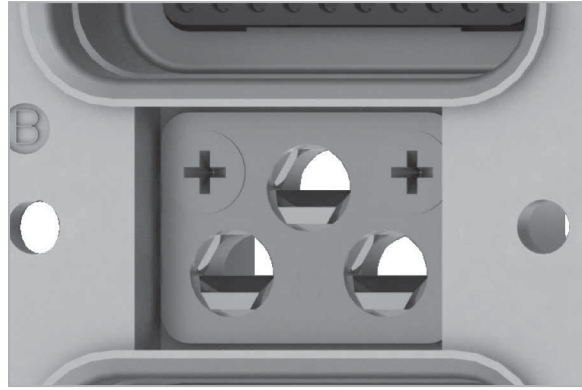
### POLARIZATION CODE

#### POSITION OF POLARIZATION KEYS AND POSTS

Connectors are shown front side, with "RADIAL" upward.



POSTS



KEYS

#### POSITION CODING

- Dark area represents the polarizing post
- Clear portion represents the key hole



1



2



3



4



5



6



How to Order

**POLARIZATION CODE TABLE**

| CODE NUMBER | RECEPTACLE SHELL |            |           | PLUG SHELL |             |            |
|-------------|------------------|------------|-----------|------------|-------------|------------|
|             | LEFT KEY         | CENTER KEY | RIGHT KEY | LEFT POST  | CENTER POST | RIGHT POST |
| 00          | -                | -          | -         | -          | -           | -          |
| 01          | 4                | 4          | 4         | 1          | 1           | 1          |
| 02          | 4                | 4          | 3         | 2          | 1           | 1          |
| 03          | 4                | 4          | 2         | 3          | 1           | 1          |
| 04          | 4                | 4          | 1         | 4          | 1           | 1          |
| 05          | 4                | 4          | 6         | 5          | 1           | 1          |
| 06          | 4                | 4          | 5         | 6          | 1           | 1          |
| 07          | 5                | 4          | 4         | 1          | 1           | 6          |
| 08          | 5                | 4          | 3         | 2          | 1           | 6          |
| 09          | 5                | 4          | 2         | 3          | 1           | 6          |
| 10          | 5                | 4          | 1         | 4          | 1           | 6          |
| 11          | 5                | 4          | 6         | 5          | 1           | 6          |
| 12          | 5                | 4          | 5         | 6          | 1           | 6          |
| 13          | 6                | 4          | 4         | 1          | 1           | 5          |
| 14          | 6                | 4          | 3         | 2          | 1           | 5          |
| 15          | 6                | 4          | 2         | 3          | 1           | 5          |
| 16          | 6                | 4          | 1         | 4          | 1           | 5          |
| 17          | 6                | 4          | 6         | 6          | 1           | 5          |
| 18          | 6                | 4          | 5         | 5          | 1           | 5          |
| 19          | 1                | 4          | 4         | 1          | 1           | 4          |
| 20          | 1                | 4          | 3         | 2          | 1           | 4          |
| 21          | 1                | 4          | 2         | 3          | 1           | 4          |
| 22          | 1                | 4          | 1         | 4          | 1           | 4          |
| 23          | 1                | 4          | 6         | 5          | 1           | 4          |
| 24          | 1                | 4          | 5         | 6          | 1           | 4          |
| 25          | 2                | 4          | 4         | 1          | 1           | 3          |
| 26          | 2                | 4          | 3         | 2          | 1           | 3          |
| 27          | 2                | 4          | 2         | 3          | 1           | 3          |
| 28          | 2                | 4          | 1         | 4          | 1           | 3          |
| 29          | 2                | 4          | 6         | 5          | 1           | 3          |
| 30          | 2                | 4          | 5         | 6          | 1           | 3          |
| 31          | 3                | 4          | 4         | 1          | 1           | 2          |
| 32          | 3                | 4          | 3         | 2          | 1           | 2          |
| 33          | 3                | 4          | 2         | 3          | 1           | 2          |
| 34          | 3                | 4          | 1         | 4          | 1           | 2          |
| 35          | 3                | 4          | 6         | 6          | 1           | 2          |
| 36          | 3                | 4          | 5         | 5          | 1           | 2          |
| 37          | 4                | 3          | 4         | 1          | 2           | 1          |
| 38          | 4                | 3          | 3         | 2          | 2           | 1          |
| 39          | 4                | 3          | 2         | 3          | 2           | 1          |
| 40          | 4                | 3          | 1         | 4          | 2           | 1          |
| 41          | 4                | 3          | 6         | 5          | 2           | 1          |
| 42          | 4                | 3          | 5         | 6          | 2           | 1          |
| 43          | 5                | 3          | 4         | 1          | 2           | 6          |
| 44          | 5                | 3          | 3         | 2          | 2           | 6          |
| 45          | 5                | 3          | 2         | 3          | 2           | 6          |
| 46          | 5                | 3          | 1         | 4          | 2           | 6          |
| 47          | 5                | 3          | 6         | 5          | 2           | 6          |
| 48          | 5                | 3          | 5         | 6          | 2           | 6          |
| 49          | 6                | 3          | 4         | 1          | 2           | 5          |

| CODE NUMBER | RECEPTACLE SHELL |            |           | PLUG SHELL |             |            |
|-------------|------------------|------------|-----------|------------|-------------|------------|
|             | LEFT KEY         | CENTER KEY | RIGHT KEY | LEFT POST  | CENTER POST | RIGHT POST |
| 50          | 6                | 3          | 3         | 2          | 2           | 5          |
| 51          | 6                | 3          | 2         | 3          | 2           | 5          |
| 52          | 6                | 3          | 1         | 4          | 2           | 5          |
| 53          | 6                | 3          | 6         | 5          | 2           | 5          |
| 54          | 6                | 3          | 5         | 6          | 2           | 5          |
| 55          | 1                | 3          | 4         | 1          | 2           | 4          |
| 56          | 1                | 3          | 3         | 2          | 2           | 4          |
| 57          | 1                | 3          | 2         | 3          | 2           | 4          |
| 58          | 1                | 3          | 1         | 4          | 2           | 4          |
| 59          | 1                | 3          | 6         | 5          | 2           | 4          |
| 60          | 1                | 3          | 5         | 6          | 2           | 4          |
| 61          | 2                | 3          | 4         | 1          | 2           | 3          |
| 62          | 2                | 3          | 3         | 2          | 2           | 3          |
| 63          | 2                | 3          | 2         | 3          | 2           | 3          |
| 64          | 2                | 3          | 1         | 4          | 2           | 3          |
| 65          | 2                | 3          | 6         | 5          | 2           | 3          |
| 66          | 2                | 3          | 5         | 6          | 2           | 3          |
| 67          | 3                | 3          | 4         | 1          | 2           | 2          |
| 68          | 3                | 3          | 3         | 2          | 2           | 2          |
| 69          | 3                | 3          | 2         | 3          | 2           | 2          |
| 70          | 3                | 3          | 1         | 4          | 2           | 2          |
| 71          | 3                | 3          | 6         | 5          | 2           | 2          |
| 72          | 3                | 3          | 5         | 6          | 2           | 2          |
| 73          | 4                | 2          | 4         | 1          | 3           | 1          |
| 74          | 4                | 2          | 3         | 2          | 3           | 1          |
| 75          | 4                | 2          | 2         | 3          | 3           | 1          |
| 76          | 4                | 2          | 1         | 4          | 3           | 1          |
| 77          | 4                | 2          | 6         | 5          | 3           | 1          |
| 78          | 4                | 2          | 5         | 6          | 3           | 1          |
| 79          | 5                | 2          | 4         | 1          | 3           | 6          |
| 80          | 5                | 2          | 3         | 2          | 3           | 6          |
| 81          | 5                | 2          | 2         | 3          | 3           | 6          |
| 82          | 5                | 2          | 1         | 4          | 3           | 6          |
| 83          | 5                | 2          | 6         | 5          | 3           | 6          |
| 84          | 5                | 2          | 5         | 6          | 3           | 6          |
| 85          | 6                | 2          | 4         | 1          | 3           | 5          |
| 86          | 6                | 2          | 3         | 2          | 3           | 5          |
| 87          | 6                | 2          | 2         | 3          | 3           | 5          |
| 88          | 6                | 2          | 1         | 4          | 3           | 5          |
| 89          | 6                | 2          | 6         | 5          | 3           | 5          |
| 90          | 6                | 2          | 5         | 6          | 3           | 5          |
| 91          | 1                | 2          | 4         | 1          | 3           | 4          |
| 92          | 1                | 2          | 3         | 2          | 3           | 4          |
| 93          | 1                | 2          | 2         | 3          | 3           | 4          |
| 94          | 1                | 2          | 1         | 4          | 3           | 4          |
| 95          | 1                | 2          | 6         | 5          | 3           | 4          |
| 96          | 1                | 2          | 5         | 6          | 3           | 4          |
| 97          | 2                | 2          | 4         | 1          | 3           | 3          |
| 98          | 2                | 2          | 3         | 2          | 3           | 3          |
| 99          | 2                | 2          | 2         | 3          | 3           | 3          |

How to Order

| CODE NUMBER | RECEPTACLE SHELL |            |           | PLUG SHELL |             |            |
|-------------|------------------|------------|-----------|------------|-------------|------------|
|             | LEFT KEY         | CENTER KEY | RIGHT KEY | LEFT POST  | CENTER POST | RIGHT POST |
| 100         | 2                | 2          | 1         | 4          | 3           | 3          |
| 101         | 2                | 2          | 6         | 5          | 3           | 3          |
| 102         | 2                | 2          | 5         | 6          | 3           | 3          |
| 103         | 3                | 2          | 4         | 1          | 3           | 2          |
| 104         | 3                | 2          | 3         | 2          | 3           | 2          |
| 105         | 3                | 2          | 2         | 3          | 3           | 2          |
| 106         | 3                | 2          | 1         | 4          | 3           | 2          |
| 107         | 3                | 2          | 6         | 5          | 3           | 2          |
| 108         | 3                | 2          | 5         | 6          | 3           | 2          |
| 109         | 4                | 1          | 4         | 1          | 4           | 1          |
| 110         | 4                | 1          | 3         | 2          | 4           | 1          |
| 111         | 4                | 1          | 2         | 3          | 4           | 1          |
| 112         | 4                | 1          | 1         | 4          | 4           | 1          |
| 113         | 4                | 1          | 6         | 5          | 4           | 1          |
| 114         | 4                | 1          | 5         | 6          | 4           | 1          |
| 115         | 5                | 1          | 4         | 1          | 4           | 6          |
| 116         | 5                | 1          | 3         | 2          | 4           | 6          |
| 117         | 5                | 1          | 2         | 3          | 4           | 6          |
| 118         | 5                | 1          | 1         | 4          | 4           | 6          |
| 119         | 5                | 1          | 6         | 5          | 4           | 6          |
| 120         | 5                | 1          | 5         | 6          | 4           | 6          |
| 121         | 6                | 1          | 4         | 1          | 4           | 5          |
| 122         | 6                | 1          | 3         | 2          | 4           | 5          |
| 123         | 6                | 1          | 2         | 3          | 4           | 5          |
| 124         | 6                | 1          | 1         | 4          | 4           | 5          |
| 125         | 6                | 1          | 6         | 5          | 4           | 5          |
| 126         | 6                | 1          | 5         | 6          | 4           | 5          |
| 127         | 1                | 1          | 4         | 1          | 4           | 4          |
| 128         | 1                | 1          | 3         | 2          | 4           | 4          |
| 129         | 1                | 1          | 2         | 3          | 4           | 4          |
| 130         | 1                | 1          | 1         | 4          | 4           | 4          |
| 131         | 1                | 1          | 6         | 5          | 4           | 4          |
| 132         | 1                | 1          | 5         | 6          | 4           | 4          |
| 133         | 2                | 1          | 4         | 1          | 4           | 3          |
| 134         | 2                | 1          | 3         | 2          | 4           | 3          |
| 135         | 2                | 1          | 2         | 3          | 4           | 3          |
| 136         | 2                | 1          | 1         | 4          | 4           | 3          |
| 137         | 2                | 1          | 6         | 5          | 4           | 3          |
| 138         | 2                | 1          | 5         | 6          | 4           | 3          |
| 139         | 3                | 1          | 4         | 1          | 4           | 2          |
| 140         | 3                | 1          | 3         | 2          | 4           | 2          |
| 141         | 3                | 1          | 2         | 3          | 4           | 2          |
| 142         | 3                | 1          | 1         | 4          | 4           | 2          |
| 143         | 3                | 1          | 6         | 5          | 4           | 2          |
| 144         | 3                | 1          | 5         | 6          | 4           | 2          |
| 145         | 4                | 6          | 4         | 1          | 5           | 1          |
| 146         | 4                | 6          | 3         | 2          | 5           | 1          |
| 147         | 4                | 6          | 2         | 3          | 5           | 1          |
| 148         | 4                | 6          | 1         | 4          | 5           | 1          |
| 149         | 4                | 6          | 6         | 5          | 5           | 1          |

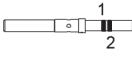
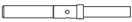

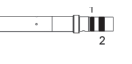

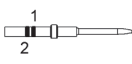


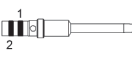

| CODE NUMBER | RECEPTACLE SHELL |            |           | PLUG SHELL |             |            |
|-------------|------------------|------------|-----------|------------|-------------|------------|
|             | LEFT KEY         | CENTER KEY | RIGHT KEY | LEFT POST  | CENTER POST | RIGHT POST |
| 150         | 4                | 6          | 5         | 6          | 5           | 1          |
| 151         | 5                | 6          | 4         | 1          | 5           | 6          |
| 152         | 5                | 6          | 3         | 2          | 5           | 6          |
| 153         | 5                | 6          | 2         | 3          | 5           | 6          |
| 154         | 5                | 6          | 1         | 4          | 5           | 6          |
| 155         | 5                | 6          | 6         | 5          | 5           | 6          |
| 156         | 5                | 6          | 5         | 6          | 5           | 6          |
| 157         | 6                | 6          | 4         | 1          | 5           | 5          |
| 158         | 6                | 6          | 3         | 2          | 5           | 5          |
| 159         | 6                | 6          | 2         | 3          | 5           | 5          |
| 160         | 6                | 6          | 1         | 4          | 5           | 5          |
| 161         | 6                | 6          | 6         | 5          | 5           | 5          |
| 162         | 6                | 6          | 5         | 6          | 5           | 5          |
| 163         | 1                | 6          | 4         | 1          | 5           | 4          |
| 164         | 1                | 6          | 3         | 2          | 5           | 4          |
| 165         | 1                | 6          | 2         | 3          | 5           | 4          |
| 166         | 1                | 6          | 1         | 4          | 5           | 4          |
| 167         | 1                | 6          | 6         | 5          | 5           | 4          |
| 168         | 1                | 6          | 5         | 6          | 5           | 4          |
| 169         | 2                | 6          | 4         | 1          | 5           | 3          |
| 170         | 2                | 6          | 3         | 2          | 5           | 3          |
| 171         | 2                | 6          | 2         | 3          | 5           | 3          |
| 172         | 2                | 6          | 1         | 4          | 5           | 3          |
| 173         | 2                | 6          | 6         | 5          | 5           | 3          |
| 174         | 2                | 6          | 5         | 6          | 5           | 3          |
| 175         | 3                | 6          | 4         | 1          | 5           | 2          |
| 176         | 3                | 6          | 3         | 2          | 5           | 2          |
| 177         | 3                | 6          | 2         | 3          | 5           | 2          |
| 178         | 3                | 6          | 1         | 4          | 5           | 2          |
| 179         | 3                | 6          | 6         | 5          | 5           | 2          |
| 180         | 3                | 6          | 5         | 6          | 5           | 2          |
| 181         | 4                | 5          | 4         | 1          | 6           | 1          |
| 182         | 4                | 5          | 3         | 2          | 6           | 1          |
| 183         | 4                | 5          | 2         | 3          | 6           | 1          |
| 184         | 4                | 5          | 1         | 4          | 6           | 1          |
| 185         | 4                | 5          | 6         | 5          | 6           | 1          |
| 186         | 4                | 5          | 5         | 6          | 6           | 1          |
| 187         | 5                | 5          | 4         | 1          | 6           | 6          |
| 188         | 5                | 5          | 3         | 2          | 6           | 6          |
| 189         | 5                | 5          | 2         | 3          | 6           | 6          |
| 190         | 5                | 5          | 1         | 4          | 6           | 6          |
| 191         | 5                | 5          | 6         | 5          | 6           | 6          |
| 192         | 5                | 5          | 5         | 6          | 6           | 6          |
| 193         | 6                | 5          | 4         | 1          | 6           | 5          |
| 194         | 6                | 5          | 3         | 2          | 6           | 5          |
| 195         | 6                | 5          | 2         | 3          | 6           | 5          |
| 196         | 6                | 5          | 1         | 4          | 6           | 5          |
| 197         | 6                | 5          | 6         | 5          | 6           | 5          |
| 198         | 6                | 5          | 5         | 6          | 6           | 5          |
| 199         | 1                | 5          | 4         | 1          | 6           | 4          |

## How to Order



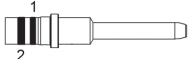

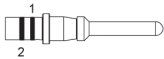
| CODE NUMBER | RECEPTACLE SHELL |            |           | PLUG SHELL |             |            |
|-------------|------------------|------------|-----------|------------|-------------|------------|
|             | LEFT KEY         | CENTER KEY | RIGHT KEY | LEFT POST  | CENTER POST | RIGHT POST |
| 200         | 1                | 5          | 3         | 2          | 6           | 4          |
| 201         | 1                | 5          | 2         | 3          | 6           | 4          |
| 202         | 1                | 5          | 1         | 4          | 6           | 4          |
| 203         | 1                | 5          | 6         | 5          | 6           | 4          |
| 203         | 1                | 5          | 6         | 5          | 6           | 4          |
| 204         | 1                | 5          | 5         | 6          | 6           | 4          |
| 205         | 2                | 5          | 4         | 1          | 6           | 3          |
| 206         | 2                | 5          | 3         | 2          | 6           | 3          |
| 207         | 2                | 5          | 2         | 3          | 6           | 3          |
| 208         | 2                | 5          | 1         | 4          | 6           | 3          |
| 209         | 2                | 5          | 6         | 5          | 6           | 3          |
| 210         | 2                | 5          | 5         | 6          | 6           | 3          |
| 211         | 3                | 5          | 4         | 1          | 6           | 2          |
| 212         | 3                | 5          | 3         | 2          | 6           | 2          |
| 213         | 3                | 5          | 2         | 3          | 6           | 2          |
| 214         | 3                | 5          | 1         | 4          | 6           | 2          |
| 215         | 3                | 5          | 6         | 5          | 6           | 2          |
| 216         | 3                | 5          | 5         | 6          | 6           | 2          |

Contacts

**SIGNAL, POWER & GROUND CONTACTS CRIMP TERMINATION**

| CONTACT SIZE                    |                                  | 22  | 22 REDUCED CRIMP BARREL   | 20  | 16  | 16 REDUCED CRIMP BARREL   |
|---------------------------------|----------------------------------|---|---|---|---|---|
| <i>Ins. Ext Tool (Metallic)</i> | Radial P/N                       | 282885  |   | 282886  | 282546  |   |
|                                 | Mil Spec P/N                     | M81969/1.01   |   | M81969/1.02   | M81969/1.03   |   |
| <i>Ins. Ext Tool (Plastic)</i>  | Radial P/N                       | 282522  |   | 282549029   | 282515  | -   |
|                                 | Mil Spec P/N                     | M81969/14.01  |   | M81969/14.02  | M81969/14.03  | -   |
| <i>Positioner</i>               | Radial P/N                       | 282970  |   | 282971  | 282972  |   |
|                                 | Mil Spec P/N                     | M22520/2.23   |   | M22520/2.08   | M22520/1.02   |   |
| <i>Crimping Tool</i>            | Radial P/N                       | 282281  |   | 282281  | 282291  |   |
|                                 | Mil Spec P/N                     | M22520/2.01   |   | M22520/2.01   | M22520/1.01   |   |
| <i>Contact</i>                  | Socket                           | 620300<br><br>(1) Orange<br>(2) Yellow | 620301<br> | 620310<br><br>(1) Orange<br>(2) Red | 620330<br><br>(1) Orange<br>(2) Blue | 620331<br> |
|                                 | Pin                              | 620200<br><br>(1) Orange<br>(2) Green  | 620201<br> | 620210<br><br>(1) Orange<br>(2) Red | 620230<br><br>(1) Orange<br>(2) Blue | 620231<br> |
| <i>Wire</i>                     | Selector                         | 4-3-3   | 5-4   | 5-6-7   | 6-5-4   | 5-4-3-2   |
|                                 | Striping Length ± .020 mm (in.)  | 3.5 (0.138)   |   | 4 (0.157)   | 6 (0.236)   |   |
|                                 | Wire Outside Diameter mm (in.)   | 1.4 (0.055)   | 1.2 (0.047)   | 1.8 (0.071)   | 2.6 (0.102)   | 1.97 (0.077)  |
|                                 | Cross Section (mm <sup>2</sup> ) | 0.38-0.21-0.14  | 0.093-0.055   | 0.21-0.38-0.60  | 1.34-0.93-0.60  | 0.93-0.60-0.38-0.21   |
|                                 | Wire Size (AWG)                  | 22-24-26  | 28-30   | 20-22-24  | 16-18-20  | 18-20-22-24   |
| <i>Contact Arrangement</i>      |                                  | See Contact Arrangement page 5-11 to 5-20   |   |   |   |   |

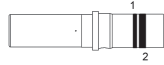
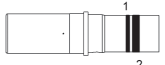
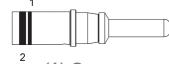

Contacts

| CONTACT SIZE             |                                  | 12  | 12 REDUCED CRIMP BARREL  | 12  |
|--------------------------|----------------------------------|---|--|---|
| Ins. Ext Tool (Metallic) | Radiall P/N                      | 282549004   |  | -   |
|                          | Mil Spec P/N                     | M81969/28.02  |  | M81/969/19.02   |
| Ins. Ext Tool (Plastic)  | Radiall P/N                      | 282549004   |  | -   |
|                          | Mil Spec P/N                     | M81969/14.04  |  | -   |
| Positioner               | Radiall P/N                      | 282972  |  | 282579  |
|                          | Mil Spec P/N                     | M22520/1.02   |  | M22520/1.11   |
| Crimping Tool            | Radiall P/N                      | 282291  |  |   |
|                          | Mil Spec P/N                     | M22520/1.01   |  |   |
| Contact                  | Socket                           | 620340<br><br>(1) Orange<br>(2) Yellow | 620341<br><br>(1) Orange | -   |
|                          | Pin                              | 620240<br><br>(1) Orange<br>(2) Yellow | 620241<br><br>(1) Orange | 619240<br>(front release rear removable contact)<br><br>(1) Orange<br>(2) Yellow |
| Wire                     | Selector                         | 8-7-6   | 2-3-4-5  | 8-7-6   |
|                          | Striping Length ± .020 mm (in.)  | 6 (0.236)   |  |   |
|                          | Wire Outside Diameter mm (in.)   | 3.4 (0.0134)  | 2.4 (0.094)  | 3.4 (0.134)   |
|                          | Cross Section (mm <sup>2</sup> ) | 3.18-1.91-1.34  | 0.93-0.60-0.38-0.21  | 3.18-1.91-1.34  |
|                          | Wire Size (AWG)                  | 12-14-16  | 18-20-22-24  | 12-14-16  |
| Contact Arrangement      |                                  | See Contact Arrangement page 5-11 to 5-20   |  |   |

Notes

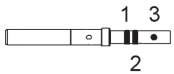

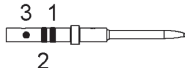
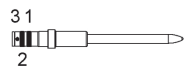
Radiall recommends plastic extraction tools for environmental cavities 22-20-16 and 12 (the metallic extraction tool leads to damage risk of triple silicon web).

Contacts

| CONTACT SIZE           |                                     | 8  | 8 GROUNDED   |   | 5            |             |
|------------------------|-------------------------------------|--|--|---|--------------|-------------|
| Ext Tool<br>(Metallic) | Radial P/N                          | Socket: 282549001<br>Pin: 282549012  | 282549012  | 282540001   | 282548       |             |
|                        | Mil Spec P/N                        | Socket: M81969/28.03<br>Pin: M81969/19.03  | M81969/19.03   | M81969/28.03  | M81969/28.01 |             |
| Positioner             | Radial P/N                          | -  | -  | 282588  | 282557       |             |
|                        | Mil Spec P/N                        | M22520/23.09   | M22520/23.09   | -   | -            |             |
| Die                    | Radial P/N                          | -  | -  | -   | -            |             |
|                        | Mil Spec P/N                        | M22520/23.02   | M22520/23.02   | M22520/23.02  | -            |             |
| Crimping<br>Tool       | Radial P/N                          | -  | -  | -   | 282296       |             |
|                        | Mil Spec P/N                        | M22520/23.01   | M22520/23.01   | M22520/23.01  |              |             |
| Contact                | Socket                              | 619370<br><br>(1) Orange<br>(2) Brown   | -  | 619371<br><br>(1) Orange<br>(2) Black | 616361       | 616366      |
|                        | Pin                                 | 619270<br>(front release rear removable contact)<br><br>(1) Orange<br>(2) Brown | 619271<br>(front release rear removable contact)<br><br>(1) Orange<br>(2) Black | -   | 616261       | 616266      |
| Wire                   | Selector                            | -  | -  | -   | 1-1          | 8-5         |
|                        | Striping Length<br>± .020 mm (in.)  | 11.5 (0.453)   | 11.5 (0.453)   | -   | 8.0 (0.315)  |             |
|                        | Wire Outside<br>Diameter mm (in.)   | 5.7 (0.224)  | 5.7 (0.224)  | -   | 3.4 (0.134)  | 5.7 (0.234) |
|                        | Cross Section<br>(mm <sup>2</sup> ) | 9-5  | 9-5  | -   | 3.18-1.91    | 9-5         |
|                        | Wire Size<br>(AWG)                  | 8-10   | 8-10   | -   | 12-14        | 8-10        |
| Contact Arrangement    |                                     | 6P6  | See Contact Arrangement page 5-11 to 5-20  |   |              |             |

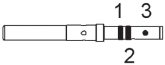

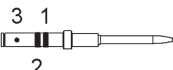
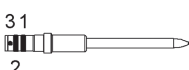
Contacts

**CHROMEL CONTACTS-CRIMP TERMINATION**

| CONTACT SIZE        |                                  | 22   | 20   |
|---------------------|----------------------------------|--|--|
| Ins. Ext Tool       | Radiall P/N                      | 282885   | 282886   |
|                     | Mil Spec P/N                     | M81969/1.01  | M81969/1.02  |
| Positioner          | Radiall P/N                      | 282970   | 282971   |
|                     | Mil Spec P/N                     | M22520/2.23  | M22520/2.08  |
| Crimping Tool       | Radiall P/N                      | 282281   |  |
|                     | Mil Spec P/N                     | M22520/2.01  |  |
| Contact             | Socket                           | 620380<br><br>(1) Orange<br>(2) Green<br>(3) Yellow | 620390<br><br>(1) Orange<br>(2) Red<br>(3) Yellow |
|                     | Pin                              | 620280<br><br>(1) Orange<br>(2) Green<br>(3) Yellow | 620290<br><br>(1) Orange<br>(2) Red<br>(3) Yellow |
| Wire                | Selector                         | 4-3-3  | 7-6-5  |
|                     | Striping Length ± .020 mm (in.)  | 3.5 (0.138)  | 4 (0.157)  |
|                     | Wire Outside Diameter mm (in.)   | 1.4 (0.055)  | 1.8 (0.071)  |
|                     | Cross Section (mm <sup>2</sup> ) | 0.38-0.21-0.14   | 0.60-0.38-0.21   |
|                     | Wire Size (AWG)                  | 22-24-26   | 20-22-24   |
| Contact Arrangement |                                  | See Contact Arrangement page 5-11 to 5-20  |  |

Contacts

**ALUMEL CONTACTS-CRIMP TERMINATION**

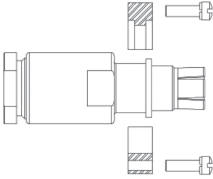
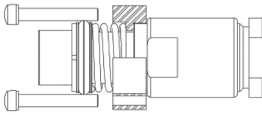
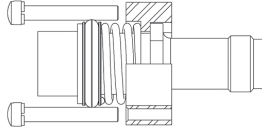
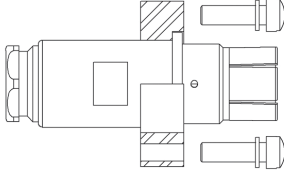
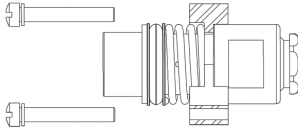
| CONTACT SIZE        |                                  | 22  | 20  |
|---------------------|----------------------------------|---|---|
| Ins. Ext Tool       | Radiall P/N                      | 282885  | 282886  |
|                     | Mil Spec P/N                     | M81969/1.01   | M81969/1.02   |
| Positioner          | Radiall P/N                      | 282970  | 282971  |
|                     | Mil Spec P/N                     | M22520/2.23   | M22520/2.08   |
| Crimping Tool       | Radiall P/N                      | 282281  |   |
|                     | Mil Spec P/N                     | M22520/2.01   |   |
| Contact             | Socket                           | <p>620381</p>  <p>(1) Orange<br/>(2) Green<br/>(3) Black</p> | <p>620391</p>  <p>(1) Orange<br/>(2) Red<br/>(3) Black</p> |
|                     | Pin                              | <p>620281</p>  <p>(1) Orange<br/>(2) Green<br/>(3) Black</p> | <p>620291</p>  <p>(1) Orange<br/>(2) Red<br/>(3) Black</p> |
| Wire                | Selector                         | 4-3-3   | 7-6-5   |
|                     | Striping Length ± .020 mm (in.)  | 3.5 (0.138)   | 4 (0.157)   |
|                     | Wire Outside Diameter mm (in.)   | 1.4 (0.055)   | 1.8 (0.071)   |
|                     | Cross Section (mm <sup>2</sup> ) | 0.38-0.21-0.14  | 0.60-0.38-0.21  |
|                     | Wire Size (AWG)                  | 22-24-26  | 20-22-24  |
| Contact Arrangement |                                  | See Contact Arrangement page 5-11 to 5-20   |   |



Contacts

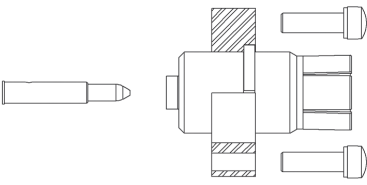
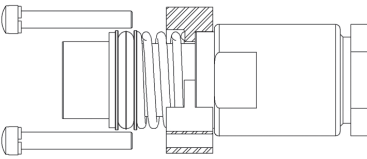
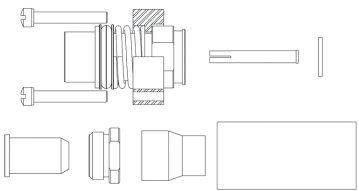
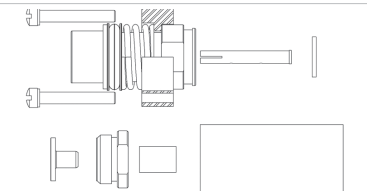
**COAXIAL CONTACTS**

**SIZE 1**

| WIRE                              | TYPE   | PART NUMBER | CONTACT  | CONTACT ARRANGEMENTS |
|-----------------------------------|--------|-------------|--|----------------------|
| RG 214<br>RG 393                  | Pin    | 620001      |    | 71C1-1C71-C2         |
|                                   | Socket | 620101      |    |                      |
|                                   |        | 620101001   | Identical to 620101<br>Without O-Ring  |                      |
| Not Applicable<br>TNC Termination | Socket | 620101003   |    | 71C1-1C71-C2         |
|                                   |        | 620101004   | Identical to 620101003<br>Without O-Ring   |                      |
| RG 223<br>RG 142                  | Pin    | 620003      |  | 71C1-1C71-C2         |
|                                   | Socket | 620103      |  |                      |

Contacts

SIZE 1

| WIRE                                      | TYPE   | PART NUMBER | CONTACT  | CONTACT ARRANGEMENTS |
|---|--------|-------------|--|----------------------|
| RG 402<br>UT .141                         | Pin    | 620005      |    | 71C1-1C71-C2         |
| NSA 935 358                               | Socket | 620107      |    | 71C1-1C71-C2         |
|   |        | 620107001   | Identical to 620107<br>Without O-Ring  |                      |
| ASNE 0406 WD<br>and<br>FILECA<br>1 703/94 | Socket | 620108      |    | 71C1-1C71-C2         |
|   |        | 620108002   | Identical to 620108<br>Without O-Ring  |                      |
| RG 400<br>RG 142                          | Socket | 620109      |  | 71C1-1C71-C2         |
|   |        | 620109001   | Identical to 620109<br>Without O-Ring  |                      |

Contacts

SIZE 1

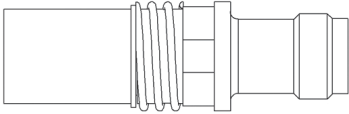
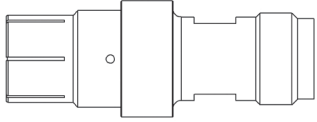


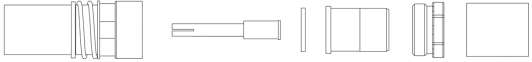


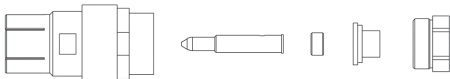
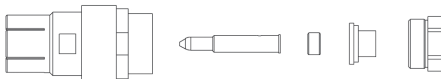
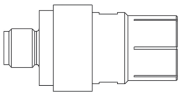

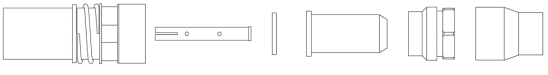
| WIRE                           | TYPE   | PART NUMBER | CONTACT  | CONTACT ARRANGEMENTS |
|--------------------------------|--------|-------------|--|----------------------|
| RG 142                         | Pin    | 620011      |    | 71C1-1C71-C2         |
| Not Applicable SMA Termination | Pin    | 620044      |    | 71C1-1C71-C2         |
| ASNE0691WM                     | Socket | 620101011   |    | 71C1-1C71-C2         |
| ASNE0692WN                     | Socket | 620101012   |   | 71C1-1C71-C2         |
| ASNE0692WN                     | Pin    | 620001012   |  | 71C1-1C71-C2         |
| RD316                          | Pin    | 620043001   |  | 71C1-1C71-C2         |

DELIVERY CODE FOR T-CAS APPLICATION

| CODE                     | CONNECTOR DETAILS                         |   | SOCKET CONTACTS FOR PLUG | PIN CONTACTS FOR RECEPTACLE |
|--------------------------|---|---|--------------------------|-----------------------------|
| No Code                  | Contacts                                  | Size 1 RF Coaxial Contacts to be Ordered Separately | 620117<br>620146         | 620049                      |
|                          | Inserts (For Plug)                        | Mating Side Insert: Thermoplastic                   |                          |                             |
|                          |   | Size 1 RF Coax Retention Plate: Stainless Steel     |                          |                             |
| Inserts (For Receptacle) | Aluminum Alloy Nickel-Plated              |   |                          |                             |
| N                        | Connector Delivered with Coaxial Contacts |   | 620116                   | 620049                      |

Contacts

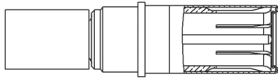
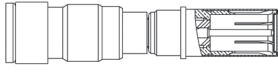
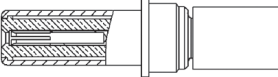
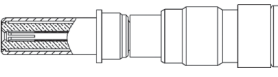
SIZE 1 RF COAXIAL CONTACTS FOR NSX T-CAS CONNECTOR

| CABLE   | CONTACT TYPE | PART NUMBER | CONTACT   |
|---|--------------|-------------|---|
| TNC TERMINATION   | Socket       | 620116      |     |
| TNC TERMINATION   | Pin          | 620017      |     |
| ASNE 0406WD<br>ECS 311 201                                    | Socket       | 620117      |     |
| RG 225<br>RG 393  | Socket       | 620119100   |     |
| ECS 310801  | Socket       | 620119102   |     |
| RG 142<br>RG 400<br>TIMES AA6343<br>ECS 3C142B<br>ASNE 0293XF | Socket       | 620146      |   |
| RG 142  | Pin          | 620046      |   |
| UT 141  | Pin          | 620047      |   |
| UT .085   | Pin          | 620047010   |   |
| SMA TERMINATION   | Pin          | 620049      |  |
| ASNE0692WN-<br>ASNE0406WD                                     | Pin          | 620019105   |   |
| ASNE0692WN  | Socket       | 620119105   |   |

Contacts

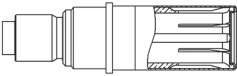
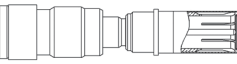
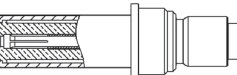
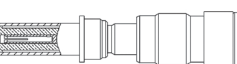
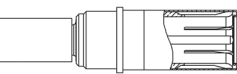
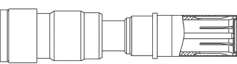

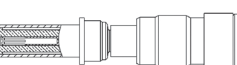
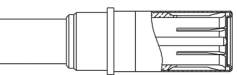
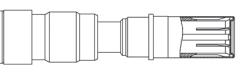

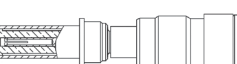
SIZE 8



| WIRE  | TYPE   | PART NUMBER                | CONTACT   | FOR INSERT              | INS/EXT TOOL                |
|---|--------|----------------------------|---|-------------------------|-----------------------------|
| RG142<br>RG400<br>RG412<br>RG223<br>RG55U<br>ASNE0293XF | Socket | 619051                     |    | For All Size 8 Cavities | 282549001<br>(M81969/28.03) |
|   | Socket | 619051001<br>Environmental |  |                         |                             |
|   | Pin    | 619151                     |  |                         |                             |
|   | Pin    | 619151001<br>Environmental |  |                         |                             |

Contacts

SIZE 8

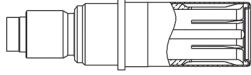
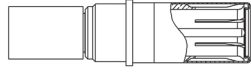
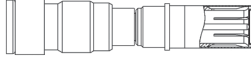
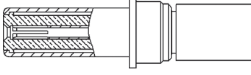
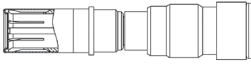




| WIRE                               | TYPE   | PART NUMBER                | CONTACT   | FOR INSERT <sup>(1)</sup> | INS/EXT TOOL                |                             |
|------------------------------------|--------|----------------------------|---|---------------------------|-----------------------------|-----------------------------|
| RG316-KX22<br>-RG179<br>ASNE0639XY | Socket | 619054                     |    | For All Size 8 Cavities   | 282549001<br>(M81969/28.03) |                             |
|                                    |        | 619054001<br>Environmental |    |                           |                             |                             |
|                                    | Pin    | 619154                     |    |                           | -                           |                             |
|                                    |        | 619154001<br>Environmental |    |                           |                             |                             |
| Gore<br>GSC-03-8174<br>8-00        | Socket | 619053                     |    |                           | For All Size 8 Cavities     | 282549001<br>(M81969/28.03) |
|                                    |        | 619053001<br>Environmental |    |                           |                             |                             |
|                                    | Pin    | 619153                     |   |                           |                             | -                           |
|                                    |        | 619153001<br>Environmental |  |                           |                             |                             |
| RG180<br>RG195                     | Socket | 619052                     |  | For All Size 8 Cavities   |                             | 282549001<br>(M81969/28.03) |
|                                    |        | 619052001<br>Environmental |  |                           |                             |                             |
|                                    | Pin    | 619152                     |  |                           |                             | -                           |
|                                    |        | 619152001<br>Environmental |  |                           |                             |                             |

Notes

1. Except for inserts 6T6 and 10T10.

Contacts

SIZE 8

| WIRE                        | TYPE   | PART NUMBER                | CONTACT   | FOR INSERT <sup>[1]</sup> | INS/EXT TOOL                |
|-----------------------------|--------|----------------------------|---|---------------------------|-----------------------------|
| ASNE0690WL                  | Socket | 619054002                  |    | For All Size 8 Cavities   | 282549001<br>(M81969/28.03) |
|                             | Socket | 619050                     |    |                           | -                           |
|                             |        | 619050001<br>Environmental |    |                           | -                           |
| RG58<br>RG141               | Pin    | 619150                     |    |                           | -                           |
|                             |        | 619150001<br>Environmental |    |                           | -                           |
|                             | Socket | 619055                     |    |                           | -                           |
|                             |        | 619055001<br>Environmental |   |                           | -                           |
| RG178<br>KX21<br>ASNE0633WG | Pin    | 619155                     |  |                           | -                           |
|                             |        | 619155001<br>Environmental |  |                           | -                           |

Notes

1. Except for inserts 6T6 and 10T10.

Contacts

SIZE 8



| WIRE  | TYPE   | PART NUMBER             | CONTACT | FOR INSERT <sup>(1)</sup> | INS/EXT TOOL |
|-------|--------|-------------------------|---------|---------------------------|--------------|
| RG316 | Socket | 619056                  |         | For All Size 8 Cavities   | -            |
|       |        | 619056001 Environmental |         |                           |              |
|       | Pin    | 619156                  |         |                           | -            |
|       |        | 619156001 Environmental |         |                           | -            |


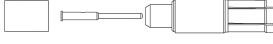




Notes

1. Except for inserts 6T6 and 10T10



Contacts

SIZE 5







| WIRE                                    | TYPE   | PART NUMBER           | CONTACT   | FOR INSERT              | INS/EXT TOOL             |
|---|--------|-----------------------|---|-------------------------|--------------------------|
| RG 58<br>RG 141                         | Pin    | 620120 <sup>[1]</sup> |  | For All Size 5 Cavities | 282946<br>(M81969/28.01) |
|   | Socket | 620020 <sup>[1]</sup> |  |                         |                          |
| RG 142<br>RG 223<br>RG 400              | Pin    | 620121 <sup>[1]</sup> |  |                         |                          |
|   | Socket | 620021 <sup>[1]</sup> |  |                         |                          |
| ASNE0639XY<br>RG 179<br>RG 316<br>KX 22 | Pin    | 620122 <sup>[1]</sup> |  |                         |                          |
|   | Socket | 620022 <sup>[1]</sup> |  |                         | 282946<br>(M81969/28.01) |

Notes

1. Add 001 to these P/N to order for environmental contacts.

Contacts

SIZE 5





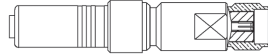


| WIRE                           | TYPE   | PART NUMBER           | CONTACT   | FOR INSERT              | INS/EXT TOOL             |
|--------------------------------|--------|-----------------------|---|-------------------------|--------------------------|
| ASNE 0633WG<br>RG 178<br>KX 21 | Pin    | 620123 <sup>[1]</sup> |  | For All Size 5 Cavities | 282946<br>(M81969/28.01) |
|                                | Socket | 620023 <sup>[1]</sup> |  |                         |                          |
| RG 180<br>RG 195               | Pin    | 620124 <sup>[1]</sup> |  |                         |                          |
|                                | Socket | 620024 <sup>[1]</sup> |  |                         | 282946<br>(M81969/28.01) |
| RD 316                         | Pin    | 620129 <sup>[1]</sup> |  |                         |                          |
|                                | Socket | 620029 <sup>[1]</sup> |  |                         | 282946<br>(M81969/28.01) |

Notes

1. Add 001 to these P/N to order for environmental contacts.





Contacts

SIZE 5

| WIRE                                       | TYPE   | PART NUMBER | CONTACT   | FOR INSERT              | INS/EXT TOOL             |
|--|--------|-------------|---|-------------------------|--------------------------|
| ADAMS-RUSSEL<br>FC 11Z (per<br>S280W503-1) | Pin    | 620182001   |  | For All Size 5 Cavities | 282946<br>(M81969/28.01) |
|  | Socket | 620082001   |  |                         |                          |
| ADAMS-RUSSEL<br>FC 14Z (per<br>S280W503-2) | Pin    | 620183001   |  |                         |                          |
|  | Socket | 620083001   |  |                         |                          |
| SMA<br>Termination                         | Pin    | 620134      |  |                         | 282946<br>(M81969/28.01) |
| ASNE0690WL                                 | Pin    | 620184      |  |                         | 282946<br>(M81969/28.01) |
| ASNE0690WL                                 | Socket | 620084      |  |                         | 282946<br>(M81969/28.01) |

## Contacts

## SIZE 16

| WIRE   | TYPE   | PART NUMBER | CONTACT   | FOR INSERT               | INS/EXT TOOL |
|--|--------|-------------|---|--------------------------|--------------|
| KX22<br>RG 316<br>RG 179<br>ASNE0639XY<br>ASNE0632WK<br>ASNE0752WS | Pin    | 618150      |  | For All Size 16 Cavities | 282892       |
|  | Socket | 618050      |  |                          |              |
| RG 178<br>KX 21<br>ASNE0633WG                                      | Pin    | 618154      |  |                          | 282892       |
|  | Socket | 618054      |  |                          |              |

## CONCENTRIC TWINAX CONTACTS

## SIZE 5

| WIRE                 | TYPE   | PART NUMBER              | FOR INSERT              | INS/EXT TOOL             |
|----------------------|--------|--------------------------|-------------------------|--------------------------|
| MIL C<br>17/17600002 | Pin    | 616195001 <sup>[1]</sup> | For All Size 5 Cavities | 282946<br>(M81969/28.01) |
|                      | Socket | 616095001 <sup>[2]</sup> |                         |                          |

## SIZE 10

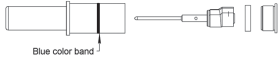
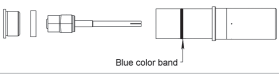
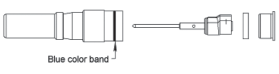



| WIRE                       | TYPE   | PART NUMBER | FOR INSERT | INS/EXT TOOL   |
|----------------------------|--------|-------------|------------|----------------|
| EN 3375-006<br>ASNE 0290XM | Pin    | 620167001   | 15T6Q2     | (M81969/14-05) |
|                            | Socket | 620067001   |            |                |

## Notes

- 616195001 contact environmental version is 616195009
- 616095001 contact environmental version is 616095009

Contacts

SIZE 8

| WIRE                      | TYPE   | PART NUMBER                    | CONTACT   | FOR INSERT              | INS/EXT TOOL   |
|---------------------------|--------|--------------------------------|---|-------------------------|--|
| Tensolite<br>(S280W502-1) | Pin    | 619165                         |  | For All Size 8 Cavities | 282549001<br>(M81969/28.03)  |
|                           | Socket | 619065                         |  |                         |  |
|                           | Pin    | 619166 <sup>(1)</sup><br>FR/RR |  |                         | 282549001<br>(M81969/28.03)<br>for Ins.<br>282549012<br>(M81969/28.03)<br>for Ext. |
| MIL C<br>17/17600002      | Pin    | 619169001                      |  |                         | 282549001<br>(M81969/28.03)  |
|                           | Socket | 619069001                      |  |                         |  |
|                           |        | 619069002<br>Environmental     |  |                         |  |

Notes

1. FR/RR contacts are compatible with 6T6 and 10T10 inserts.

## Contacts

## QUADRAX CONTACTS

## SIZE 8

| WIRE   | TYPE   | PART NUMBER<br>(NON-ENVIRONMENTAL) | PART NUMBER<br>(ENVIRONMENTAL) | INS/EXT TOOL                                   |
|--|--------|------------------------------------|--------------------------------|--|
| ABS1503KD24<br>(110 Ω)                           | Pin    | 620175010                          | 620175011                      | 282549001<br>(M81969/28.03<br>or M81969/14.06) |
|  | Socket | 620075010                          | 620075011                      |  |
| THERMAX<br>956S-4T200<br>GORE RCN8422<br>(110 Ω) | Pin    | 620179002                          | 620179001                      |  |
|  | Socket | 620079002                          | 620079001                      |  |
| TENSOLITE<br>NF24Q100 (100 Ω)                    | Pin    | 620175050                          | 620175051                      |  |
|  | Socket | 620075050                          | 620075051                      |  |
| TENSOLITE<br>NF26Q100<br>JSFY 18                 | Pin    | 620175021                          | 620175020                      |  |
|  | Socket | 620075021                          | 620075020                      |  |

## Contacts

### LUXCIS® CONTACTS

The LuxCis® product range is a proven, flexible and always expanding fiber optic interconnect solution offering high speed communication in aerospace and other harsh environments.

#### OPTICAL PERFORMANCES

|  | MULTI-MODE (PC)<br>850 / 1300 NM | SINGLE-MODE (UPC)<br>1310 / 1550 NM |
|--|----------------------------------|-------------------------------------|
| Insertion Loss (IL) Mean<br>(IEC 61300-3-4 Method B) | 0.1 dB                           | 0.15 dB                             |
| Return Loss (RL)<br>(IEC 61300-3-6)                  | > 20 dB                          | > 50 dB                             |

#### MECHANICAL & ENVIRONMENTAL CHARACTERISTICS

|  | STANDARD                   | PERFORMANCES                                  |
|--|----------------------------|---|
| Thermal Cycling  | SAE AS 13441 Method 1003.1 | -55 °C/+125 °C (Cable Dependant)              |
| Temperature Endurance  | TIA/EIA 455-4              | 1,000 h at 125 °C (Cable Dependant)           |
| Vibration  | TIA/EIA 455-11             | 16.4 Grms                                     |
| Shocks   | TIA/EIA 455-14             | 50 G, 11 ms                                   |
| Durability   | TIA / EIA 364-09           | 500 Cycles                                    |
| Maintenance Ageing   | SAE AS 13441 Method 2002.1 | 10 Cycles                                     |
| Cable Retention<br>Cable Retention<br>1.8 mm Diameter<br>900 µm Diameter | SAE AS 13441 Method 2009.1 | 68 N<br>7 N                                   |
| Humidity   | TIA EIA 455-5              | 10 Cycles / 24 h<br>90% RH<br>-25 °C / +65 °C |

#### LUXCIS® CONTACTS PART NUMBERING SYSTEM

# F725

LUXCIS® SERIES \_\_\_\_\_

FERRULE TYPE \_\_\_\_\_

- 00:** PC ferrule for single-mode fiber
- 03:** PC ferrule for 50/125 or 62,5/125 µm multi-mode fiber
- 04:** PC ferrule for 100/40 µm multi-mode fiber
- 05:** PC ferrule for 200/230 µm multi-mode fiber
- 50:** APC ferrule for single-mode fiber

CABLE TYPE AND DIAMETER \_\_\_\_\_

- 118:** 900 µm cable
- 318:** 1.2 mm cable with strengthening members, tight structure
- 419:** 1.6 to 2.2 mm cable, loose structure
- 519:** 1.6 to 2.2 mm cable, tight structure

#### Notes

Radiall can support you with your cable and harness assemblies. Please contact your sales representative.

Contacts

**MIL-PRF-29504 CONTACTS**

MIL-PRF-29504 fiber optic termini were developed several decades ago and are described several MIL standard documents. They fit into standard electrical cavities and do not require specific inserts. However, standard electrical connectors are not optimized for optical connections with small core fibers and MIL-PRF-29504 fiber optic termini show lower optical performances than more recent designs, such as the LuxCis®.

MIL-PRF-29504 fiber optic termini can replace MIL-PRF-29504/6 pin and MIL-PRF-29504/7 socket termini.

**PERFORMANCES**

|                     |                                    |
|---------------------|------------------------------------|
| Insertion Loss (IL) | 0.8 dB Typical                     |
| Durability          | Up to 500 Mating Cycles            |
| Thermal Cycling     | -65 °C / +125 °C (Cable Dependent) |

**MIL-PRF-29504 TYPE CONTACTS PART NUMBERING SYSTEM**

| CONTACT SIZE | PIN CONTACT PART NUMBER | SOCKET CONTACT PART NUMBER | FIBER DIAMETER (MM) | CABLE DIAMETER (MM) | FERULE MATERIAL | INSERTION / EXTRACTION TOOL |
|--------------|-------------------------|----------------------------|---------------------|---------------------|-----------------|-----------------------------|
| 16           | F724 004 000            | F724 104 000               | 125                 | 1.5                 | Ceramic         | 282515                      |
| 16           | F724 012 000            | F724 111 000               | 125                 | 1.8                 | Ceramic         |                             |
| 16           | F724 010 000            | F724 109 000               | 125                 | 2                   | Ceramic         |                             |
| 16           | F724 001 000            | F724 101 000               | 140                 | 1.5                 | Ceramic         |                             |
| 16           | F724 040 000            | F724 140 000               | 230                 | 2                   | Metallic        |                             |
| 12           | F724 204 000            | F724 304 000               | 125                 | 1.5                 | Ceramic         | 282549004                   |
| 12           | F724 242 000            | F724 342 000               | 125                 | 1.8                 | Ceramic         |                             |
| 12           | F724 203 000            | F724 303 000               | 140                 | 1.5                 | Ceramic         |                             |



**Notes**

Radiall can support you with your cable and harness assemblies. Please contact your sales representative.







## Contacts

**ACCESSORIES****QUADRAX - LUXCIS® ADAPTER**

Adapters for NSX connectors' cavities allow evolution of your existing connectors. Now, you can get high speed connection with a connector that used to be equipped with Quadrax contacts. Quadrax-LuxCis® adapters will turn a size 8 Quadrax cavity into a LuxCis® cavity.

This solution offers the following characteristics:



- Compliant with any ARINC 600 Quadrax cavity
- Compatible with ML and MT LuxCis® designs
- Available for multi-mode application
- Compatible with Quadrax insertion and extraction tool

|   | PART NUMBER | DESCRIPTION   |
|---|-------------|---|
|    | 620946001   | Pin Quadrax Adapter for LuxCis® Contact in Quadrax FR Type Cavity with Sleeveholder |
|    | 620946002   | Pin Quadrax Adapter for LuxCis® Contact in Quadrax RR Type Cavity with Sleeveholder |
|   | 620946003   | Socket Quadrax Adapter for LuxCis® Contact in Quadrax RR Type Cavity                |
|  | 620946004   | Sleeve Holder for Pin Quadrax Adapter   |

**EN 4531-101 (ABS 1379) ADAPTER FOR QUADRAX SIZE 8 CAVITY**

Quadrax-EN4531 adapter will help you turning a size 8 Quadrax cavity into a EN4531 fiber optic link with the following characteristics:

- Arinc 600 compliant
- EN4626 compliant
- Compatible with all EN4531 contacts

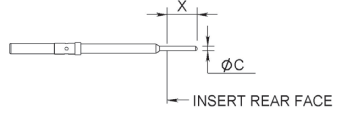
|   | PART NUMBER | DESCRIPTION                               |
|---|-------------|---|
|  | 620946005   | Pin Quadrax Adapter for EN4531 Contact    |
|  | 620946006   | Socket Quadrax Adapter for EN4531 Contact |

Contacts

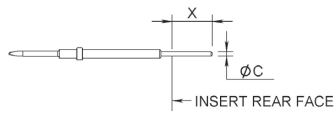
**NSX E/N/H/C-REAR REMOVABLE CONTACTS**

**REAR REMOVABLE PC TAIL CONTACTS**

**SIZE 22 SOCKET CONTACTS**

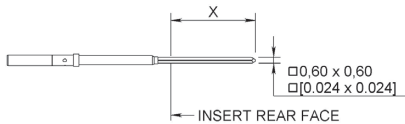
| PART NUMBER | CONTACT TERMINATION | DIMENSION X<br>MM (INCH)     | C DIA.<br>MM (INCH) | INS/EXT TOOL | FIGURE  |
|-------------|---------------------|------------------------------|---------------------|--------------|---|
| 620 305     | YA                  | 5.20 (0.205)<br>4.20 (0.165) | 0.635 (0.025)       | 282890       |  |
| 620305005   | ZA                  |                              |                     |              |   |

**SIZE 22 PIN CONTACTS**

| PART NUMBER | CONTACT TERMINATION | DIMENSION X<br>MM (INCH)   | C DIA.<br>MM (INCH) | INS/EXT TOOL | FIGURE  |
|-------------|---------------------|----------------------------|---------------------|--------------|---|
| 620 202     | Y                   | 7.30 (.288)<br>6.30 (.250) | 0.635 (0.025)       | 282890       |  |
| 620202005   | Z                   |                            |                     |              |   |

**REAR REMOVABLE WIRE WRAP CONTACTS**

**SIZE 22 SOCKET CONTACTS**

| PART NUMBER | CONTACT TERMINATION | DIMENSION X<br>MM (INCH)       | INS/EXT TOOL | FIGURE  |
|-------------|---------------------|--------------------------------|--------------|---|
| 620302      | K                   | 7.70 (0.303)<br>6.30 (0.248)   | 282890       |  |
| 620303      | V                   | 10.70 (0.421)<br>9.30 (0.366)  |              |   |
| 620308      | W                   | 12.30 (0.484)<br>13.70 (0.540) |              |   |

Contacts

**HOW TO ORDER NSX F/G/K CONNECTORS FOR FRONT REMOVABLE CONTACTS**

Signal PC Tail contacts defined by termination code are delivered installed. Coaxial twinax and quadrax contacts are ordered separately.

**NSX**

**SERIES PREFIX** \_\_\_\_\_

**CLASS** \_\_\_\_\_

- F:** - Receptacle connectors, non-environmental
  - Only size 22 insert cavities can be delivered in FR/FR PC tails or wire wrap contacts.
  - Other insert cavities, if equipped with signal and power contacts in sizes 20, 16 and 12, will be delivered in RR/RR crimp version
  - Coaxial, twinax and quadrax contacts shall be ordered separately as RR/RR crimp contacts
- G:** - Receptacle connectors, non-environmental
  - Every insert cavities will be delivered in FR/FR PC tail contacts only.
  - Size 1 contact will be delivered in RR/RR crimp version.
  - Coaxial, twinax and quadrax contacts shall be ordered separately as FR/FR PC tail contacts.
- K:** - Receptacle connectors, non-environmental
  - Only combinations including inserts 100 and 150 are available in class K. Inserts 100 and 150 will be fully populated with size 22 harpooned contacts.
  - With class K, use PC tail contacts termination Y.
  - Other inserts will be populated as per class G.

**SHELL SIZE** \_\_\_\_\_

- 1:** 3 small cavities
- 2:** 3 large cavities
- 3:** 6 large cavities

**SHELL STYLE** \_\_\_\_\_

- F:** Nickel-plated receptacle
- S:** RoHS chromatisation plated receptacle

**INSERT COMBINATION CODE** \_\_\_\_\_

See combination code pages 5-21 to 5-27 and contacts arrangement pages 5-11 to 5-20  
 T-cas application combination code: 310 (see page 5-24)

**CONTACT TERMINATION** \_\_\_\_\_

WITHOUT CONTACTS

**X:** Without contacts

WIRE WRAP

- K:** Wire wrap contact, 1 level (1 = 0.272)
- V:** Wire wrap contact, 2 levels (1 = 0.390)
- W:** Wire wrap contact, 3 levels (1 = 0.524)
- L:** Wire wrap contact, 4 levels (1 = 0.660)

**PC TAIL CONTACTS**

| ROHS | GOLD | PRE-TINNED | LENGTH (IN.) |
|------|------|------------|--------------|
| RA   | YA   | ZA         | 0.150        |
| R    | Y    | Z          | 0.250        |
| RB   | YB   | ZB         | 0.375        |
| RC   | YC   | ZC         | 0.500        |

**MODIFICATION CODE** <sup>[1]</sup> \_\_\_\_\_

See pages 5-28 to 5-29

**POLARIZATION CODE** \_\_\_\_\_

See pages 5-30 to 5-32

**Without code:** polarization hardware is delivered unassembled

**DELIVERY CODE FOR T-CAS APPLICATION** \_\_\_\_\_

See page 5-41

**Notes**

1. Polarization code 00, the connector is delivered without polarizing hardware.  
 Polarization code from 01 to 216, the connector is delivered with the polarization hardware assembled as defined by the code see page 5-31.

Contacts

**NSX F/G/K-FRONT REMOVABLE PC TAIL  
SIZE 22 SOCKET CONTACTS**

| PART NUMBER | CONTACT TERMINATION | DIMENSION X<br>MM (INCH)     | INS/EXT TOOL | COLOR BAND 1 | COLOR BAND 2 | FIGURE |
|-------------|---------------------|------------------------------|--------------|--------------|--------------|--------|
| 620360      | YA                  | 4.60/3.80<br>(0.181/0.150)   | 282500       | Orange       | Green        |        |
| 620360005   | ZA                  |                              |              |              |              |        |
| 620360500   | RA                  |                              |              |              |              |        |
| 620361      | Y                   | 7.20/6.40<br>(0.283/0.252)   |              |              |              |        |
| 620361005   | Z                   |                              |              |              |              |        |
| 620361500   | R                   |                              |              |              |              |        |
| 620362      | YB                  | 10.30/9.50<br>(0.406/0.374)  |              |              |              |        |
| 620362005   | ZB                  |                              |              |              |              |        |
| 620362500   | RB                  |                              |              |              |              |        |
| 620363      | YC                  | 13.60/12.80<br>(0.535/0.504) |              |              |              |        |
| 620363005   | ZC                  |                              |              |              |              |        |
| 620363500   | RC                  |                              |              |              |              |        |

**SIZE 20 PIN CONTACTS**

| PART NUMBER | CONTACT TERMINATION | DIMENSION X<br>MM (INCH)     | INS/EXT TOOL | COLOR BAND 1 | COLOR BAND 2 | E DIA<br>MM (INCH)         | FIGURE |
|-------------|---------------------|------------------------------|--------------|--------------|--------------|----------------------------|--------|
| 620214018   | YA                  | 4.60/3.80<br>(0.181/0.150)   | 282503       | Orange       | Red          | 0.85/0.80<br>(0.033/0.031) |        |
| 620214019   | ZA                  |                              |              |              |              |                            |        |
| 620214518   | RA                  |                              |              |              |              |                            |        |
| 620214010   | Y                   | 7.20/6.40<br>(0.283/0.252)   |              |              |              |                            |        |
| 620214013   | Z                   |                              |              |              |              |                            |        |
| 620214510   | R                   |                              |              |              |              |                            |        |
| 620214003   | YB                  | 10.30/9.50<br>(0.406/0.374)  |              |              |              |                            |        |
| 620214008   | ZB                  |                              |              |              |              |                            |        |
| 620214503   | RB                  |                              |              |              |              |                            |        |
| 620214021   | YC                  | 13.60/12.80<br>(0.535/0.504) |              |              |              |                            |        |
| 620214022   | ZC                  |                              |              |              |              |                            |        |
| 620214521   | RC                  |                              |              |              |              |                            |        |

**SIZE 16 PIN CONTACTS**

| PART NUMBER | CONTACT TERMINATION | DIMENSION X<br>MM (INCH)     | INS/EXT TOOL | COLOR BAND 1 | COLOR BAND 2 | E DIA<br>MM (INCH)       | FIGURE |
|-------------|---------------------|------------------------------|--------------|--------------|--------------|--------------------------|--------|
| 620234018   | YA                  | 4.60/3.80<br>(0.181/0.150)   | 282504       | Orange       | Blue         | 1.32/1.22<br>(.052/.048) |        |
| 620234019   | ZA                  |                              |              |              |              |                          |        |
| 620234518   | RA                  |                              |              |              |              |                          |        |
| 620234004   | Y                   | 7.20/6.40<br>(0.283/0.252)   |              |              |              |                          |        |
| 620234017   | Z                   |                              |              |              |              |                          |        |
| 620234504   | R                   |                              |              |              |              |                          |        |
| 620234003   | YB                  | 10.30/9.50<br>(0.406/0.374)  |              |              |              |                          |        |
| 620234008   | ZB                  |                              |              |              |              |                          |        |
| 620234503   | RB                  |                              |              |              |              |                          |        |
| 620234021   | YC                  | 13.60/12.80<br>(0.535/0.504) |              |              |              |                          |        |
| 620234022   | ZC                  |                              |              |              |              |                          |        |
| 620234521   | RC                  |                              |              |              |              |                          |        |

Contacts

SIZE 12 PIN CONTACTS

| PART NUMBER | CONTACT TERMINATION | DIMENSION X<br>MM (INCH)     | INS/EXT<br>TOOL | COLOR<br>BAND 1 | COLOR<br>BAND 2 | FIGURE |
|-------------|---------------------|------------------------------|-----------------|-----------------|-----------------|--------|
| 620244018   | YA                  | 4.60/3.80<br>(0.181/0.150)   | 282549005       | Orange          | Yellow          |        |
| 620244019   | ZA                  |                              |                 |                 |                 |        |
| 620244518   | RA                  |                              |                 |                 |                 |        |
| 620244005   | Y                   | 7.20/6.40<br>(0.283/0.252)   | 282549005       | Orange          | Yellow          |        |
| 620244016   | Z                   |                              |                 |                 |                 |        |
| 620244505   | R                   |                              |                 |                 |                 |        |
| 620244003   | YB                  | 10.30/9.50<br>(0.406/0.374)  | 282549005       | Orange          | Yellow          |        |
| 620244008   | ZB                  |                              |                 |                 |                 |        |
| 620244503   | RB                  |                              |                 |                 |                 |        |
| 620244021   | YC                  | 13.60/12.80<br>(0.535/0.504) | 282549005       | Orange          | Yellow          |        |
| 620244022   | ZC                  |                              |                 |                 |                 |        |
| 620244521   | RC                  |                              |                 |                 |                 |        |

SIZE 22 SOCKET FRONT REMOVABLE WIRE WRAP CONTACTS

| PART NUMBER | CONTACT TERMINATION | DIMENSION X<br>MM (INCH)  | INS/EXT<br>TOOL | COLOR<br>BAND 1 | COLOR<br>BAND 2 | FIGURE |
|-------------|---------------------|---------------------------|-----------------|-----------------|-----------------|--------|
| 620350      | K                   | 6.9/0.4<br>(0.256/0.287)  | 282500          | Orange          | Green           |        |
| 620351      | V                   | 9.9/0.4<br>(0.374/0.405)  |                 |                 |                 |        |
| 620352      | W                   | 13.3/0.4<br>(0.508/0.540) |                 |                 |                 |        |
| 620353      | L                   | 16.8/0.4<br>(0.645/0.677) |                 |                 |                 |        |

SIZE 16 PIN COAX CONTACTS

| PART NUMBER | CONTACT TERMINATION | DIMENSION X<br>MM (INCH) | INS/EXT TOOL |
|-------------|---------------------|--------------------------|--------------|
| 618155001   | YA                  | 3.8/4.6 (0.150/0.181)    | 282504       |
| 618155002   | Y                   | 6.4/7.2 (0.252/0.283)    |              |
| 618155011   | YB                  | 9.5/10.3 (0.374/0.405)   |              |

Contacts

**SIZE 12 PIN COAX CONTACTS**

| PART NUMBER | CONTACT TERMINATION | DIMENSION X<br>MM (INCH) | INS/EXT TOOL |
|-------------|---------------------|--------------------------|--------------|
| 618149017   | YA                  | 3.8/4.6 (0.150/0.181)    | 282549005    |
| 618149016   | Y                   | 6.4/7.2 (0.252/0.283)    |              |
| 618149018   | YB                  | 9.5/10.3 (0.374/0.405)   |              |
| 618149012   | YC                  | 12.8/13.6 (0.503/0.535)  |              |
| 618149013   | ZC                  | 12.8/14.1 (0.503/0.558)  |              |

**SIZE 8 PIN COAX CONTACTS**

| PART NUMBER | CONTACT TERMINATION | DIMENSION X<br>MM (INCH)     | INS/EXT TOOL |
|-------------|---------------------|------------------------------|--------------|
| 619140009   | YA                  | 12.40/12.20<br>(0.488/0.480) | 282549009    |
| 619140014   | ZA                  |                              |              |
| 619140509   | RA                  |                              |              |
| 619140010   | Y                   | 15.05/14.85<br>(0.592/0.584) |              |
| 619140013   | Z                   |                              |              |
| 619140510   | R                   |                              |              |
| 619140007   | YB                  | 18.15/17.95<br>(0.715/0.706) |              |
| 619140008   | ZB                  |                              |              |
| 619140507   | RB                  |                              |              |
| 619140011   | YC                  | 21.45/21.25<br>(0.844/0.836) |              |
| 619140012   | ZC                  |                              |              |
| 619140511   | RC                  |                              |              |

**SIZE 5 PIN COAX CONTACTS**

| PART NUMBER | CONTACT TERMINATION | DIMENSION X<br>MM (INCH)     | INS/EXT TOOL |
|-------------|---------------------|------------------------------|--------------|
| 620133009   | YA                  | 4.60/3.80<br>(0.181/0.150)   | 282549006    |
| 620133509   | RA                  |                              |              |
| 620133006   | Y                   | 7.20/6.40<br>(0.283/0.252)   |              |
| 620133007   | Z                   |                              |              |
| 620133506   | R                   |                              |              |
| 620133003   | YB                  | 10.30/9.50<br>(0.406/0.374)  |              |
| 620133001   | ZB                  |                              |              |
| 620133503   | RB                  |                              |              |
| 620133010   | YC                  | 13.60/12.80<br>(0.535/0.504) |              |
| 620133510   | RC                  |                              |              |

## Contacts

## SIZE 8 PIN TRIAX PC TAIL FRONT RELEASE VERSION

| PART NUMBER | CONTACT TERMINATION | DIMENSION X<br>MM (INCH)     | INS/EXT TOOL |
|-------------|---------------------|------------------------------|--------------|
| 619162014   | YA                  | 4.60/3.80<br>(0.181/0.150)   | 282549009    |
| 619162015   | ZA                  |                              |              |
| 619162514   | RA                  |                              |              |
| 619162011   | Y                   | 7.20/6.40<br>(0.283/0.252)   |              |
| 619162012   | Z                   |                              |              |
| 619162511   | R                   |                              |              |
| 619162016   | YB                  | 10.30/9.50<br>(0.406/0.374)  |              |
| 619162017   | ZB                  |                              |              |
| 619162516   | RB                  |                              |              |
| 619162009   | YC                  | 13.60/12.80<br>(0.535/0.504) |              |
| 619162010   | ZC                  |                              |              |
| 619162509   | RC                  |                              |              |

## SIZE 8 PIN QUADRAX CONTACTS

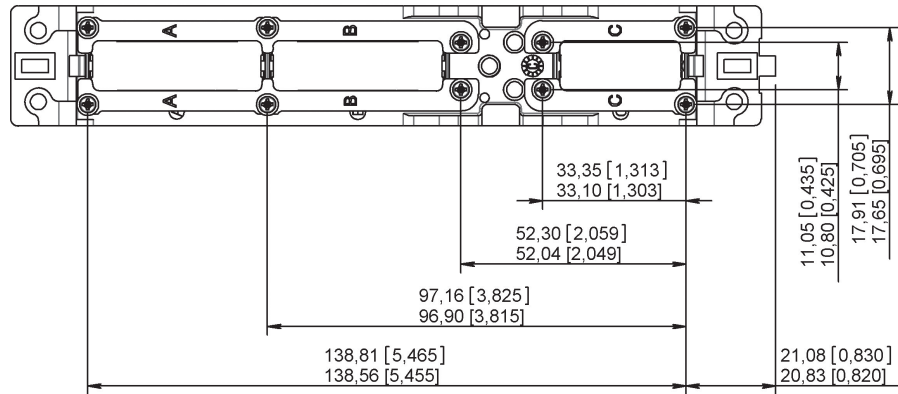
| PART NUMBER | CONTACT TERMINATION | DIMENSION X<br>MM (INCH)     | INS/EXT TOOL |
|-------------|---------------------|------------------------------|--------------|
| 620176009   | YA                  | 4.60/3.80<br>(0.181/0.150)   | 282549009    |
| 620176016   | ZA                  |                              |              |
| 620176509   | RA                  |                              |              |
| 620176008   | Y                   | 7.20/6.40<br>(0.283/0.252)   |              |
| 620176010   | Z                   |                              |              |
| 620176508   | R                   |                              |              |
| 620176011   | YB                  | 10.30/9.50<br>(0.406/0.374)  |              |
| 620176012   | ZB                  |                              |              |
| 620176511   | RB                  |                              |              |
| 620176013   | YC                  | 13.60/12.80<br>(0.535/0.504) |              |
| 620176014   | ZC                  |                              |              |
| 620176513   | RC                  |                              |              |

Contacts

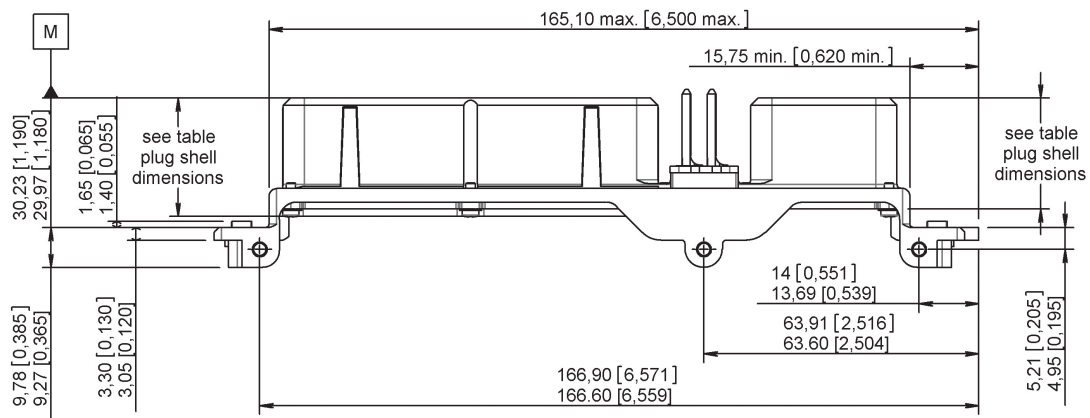
**DIMENSIONS**

**NON-ENVIRONMENTAL SIZE 1 PLUG SHELL**

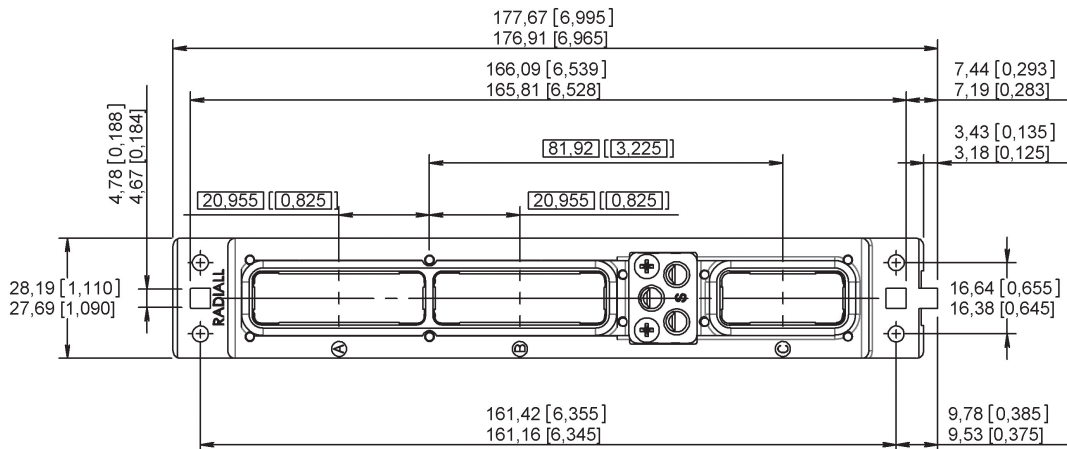
**FRONT VIEW**



**SIDE VIEW**



**REAR VIEW**

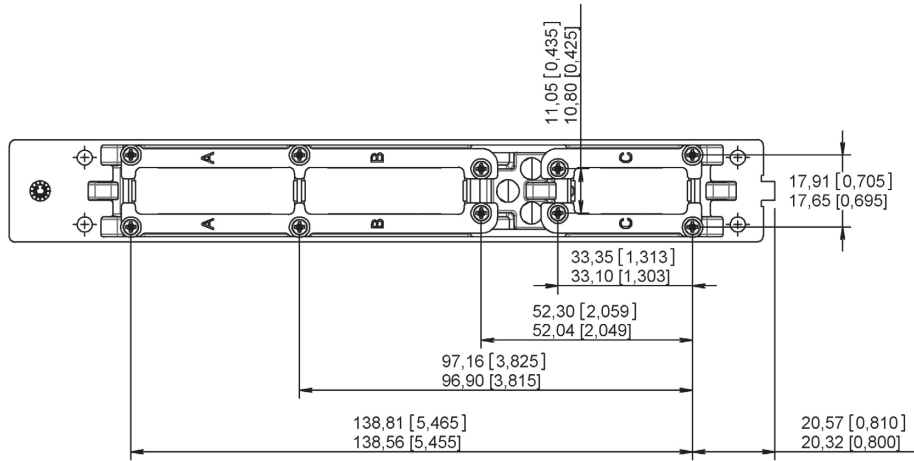




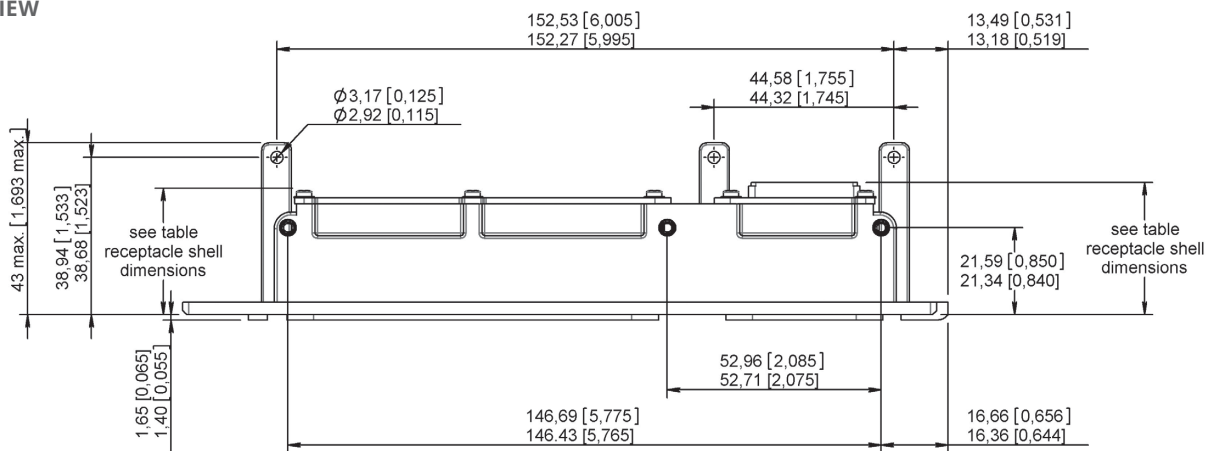
Contacts

NON-ENVIRONMENTAL SIZE 1 RECEPTACLE SHELL

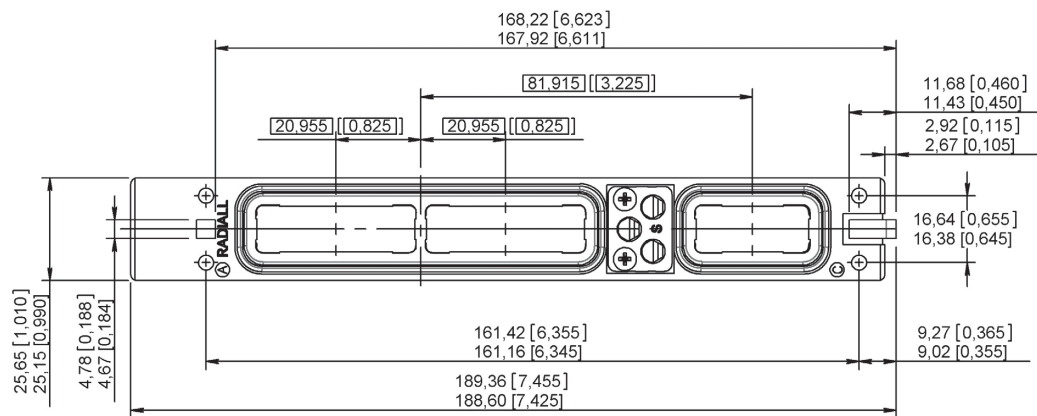
FRONT VIEW



SIDE VIEW



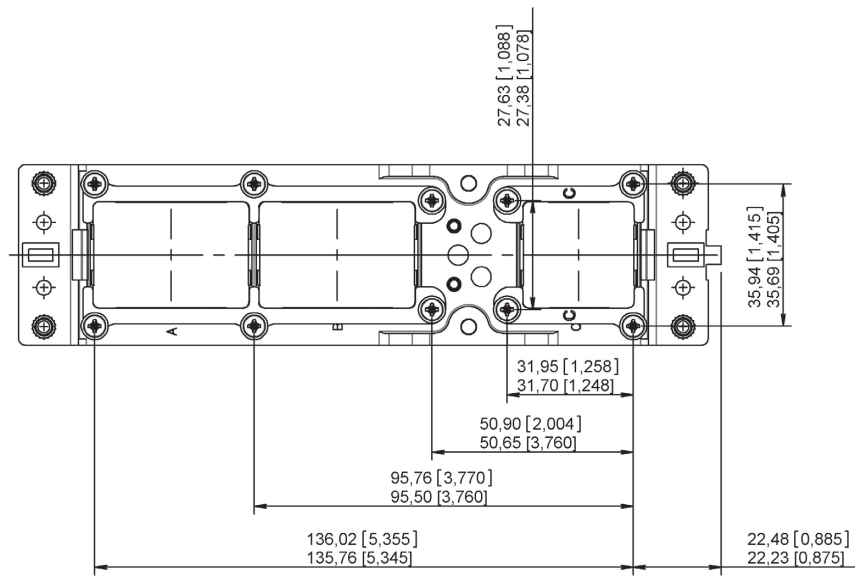
REAR VIEW



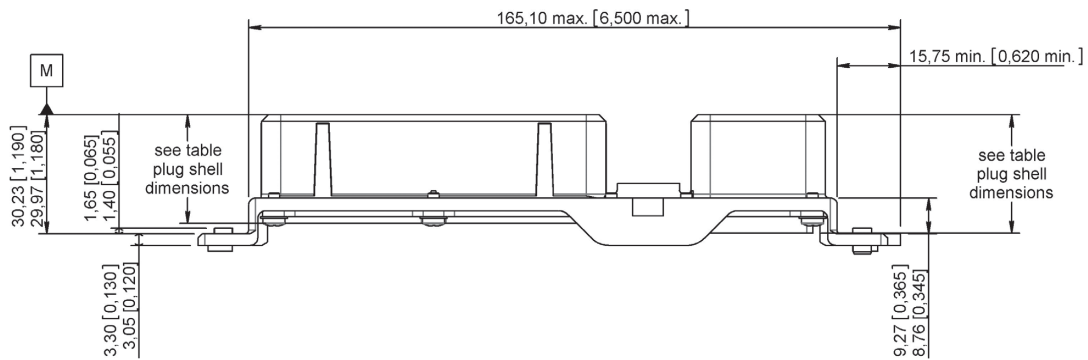
Contacts

NON-ENVIRONMENTAL SIZE 2 PLUG SHELL

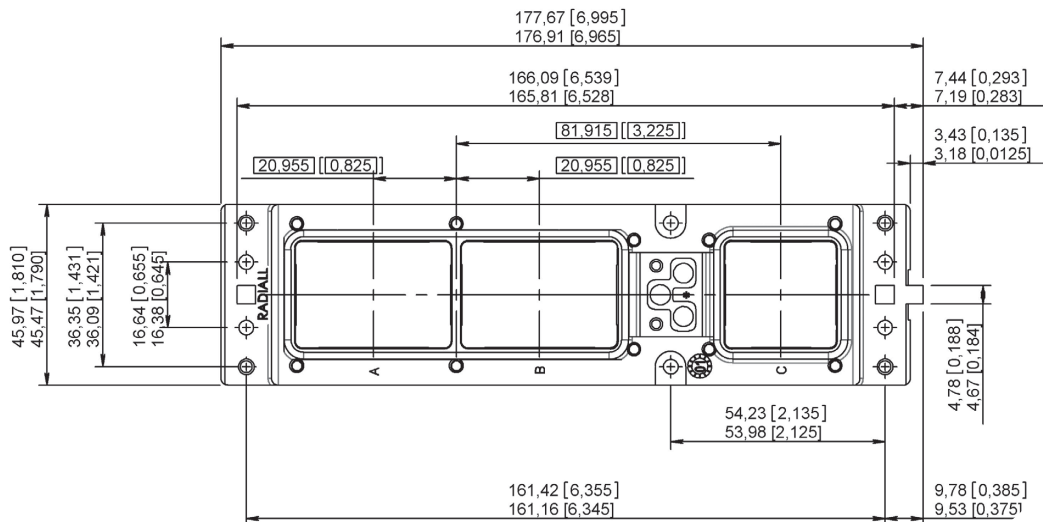
FRONT VIEW



SIDE VIEW



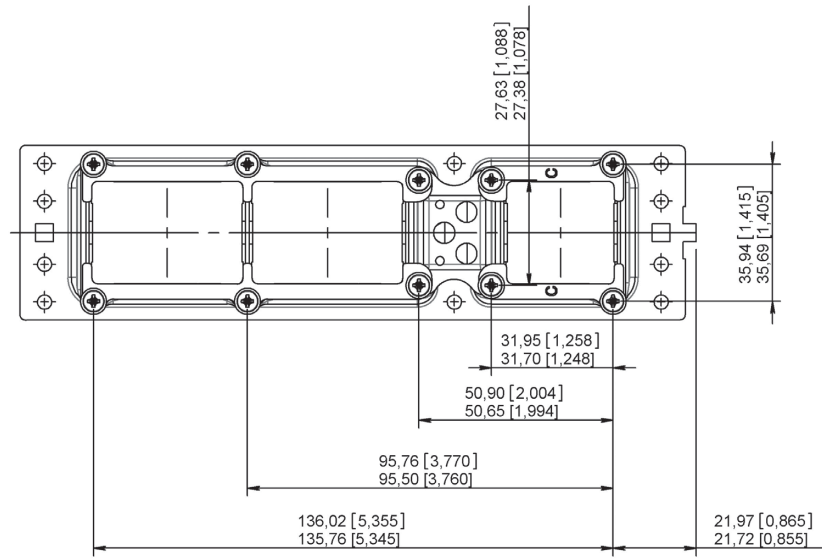
REAR VIEW



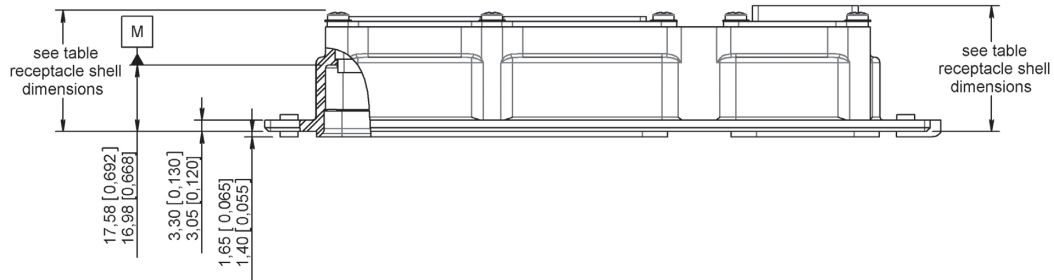
Contacts

NON-ENVIRONMENTAL SIZE 2 RECEPTACLE SHELL

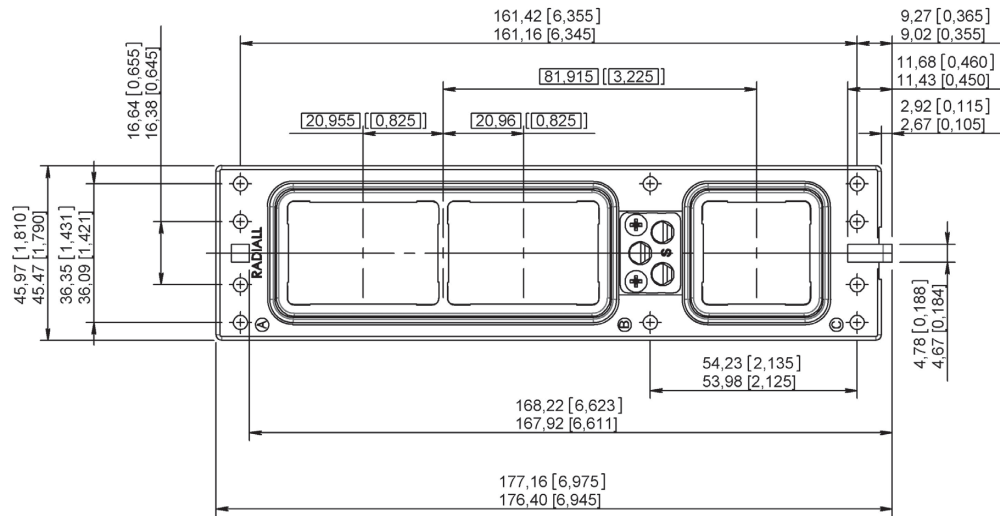
FRONT VIEW



SIDE VIEW



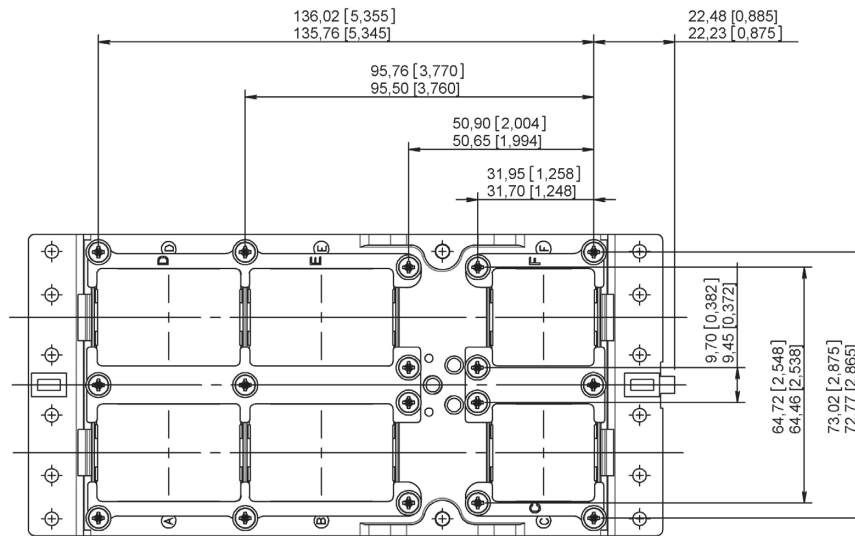
REAR VIEW



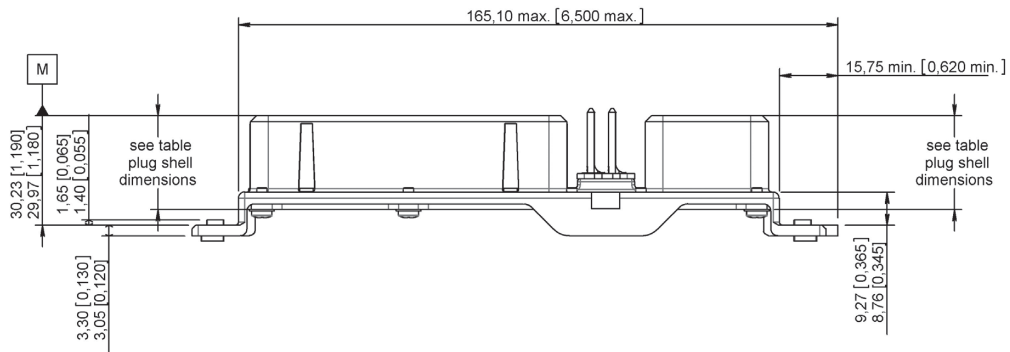
Contacts

NON-ENVIRONMENTAL SIZE 3 PLUG SHELL

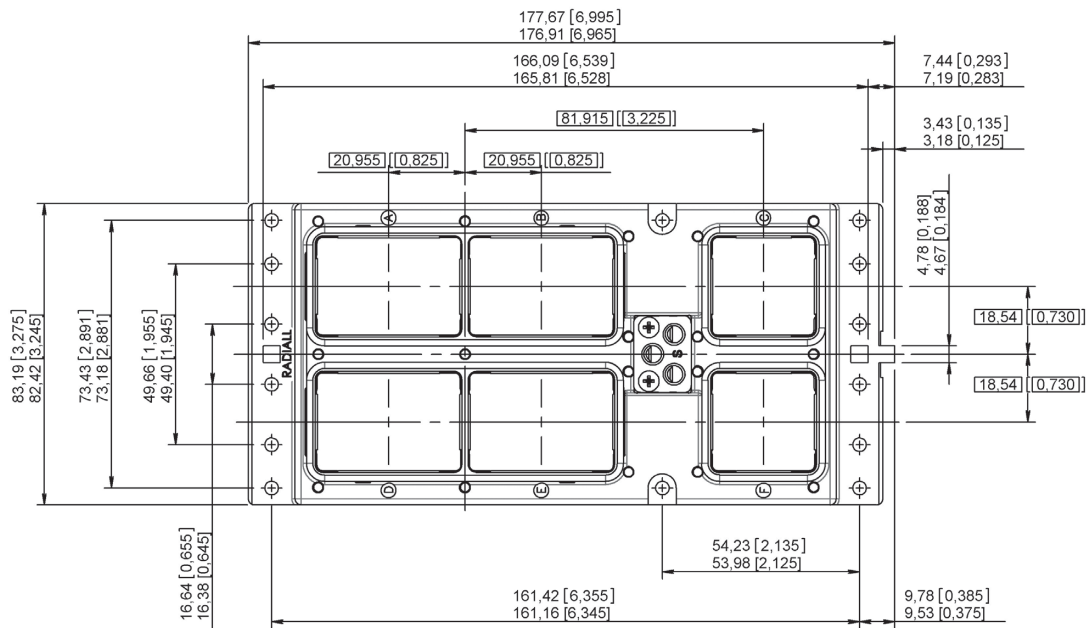
FRONT VIEW



SIDE VIEW



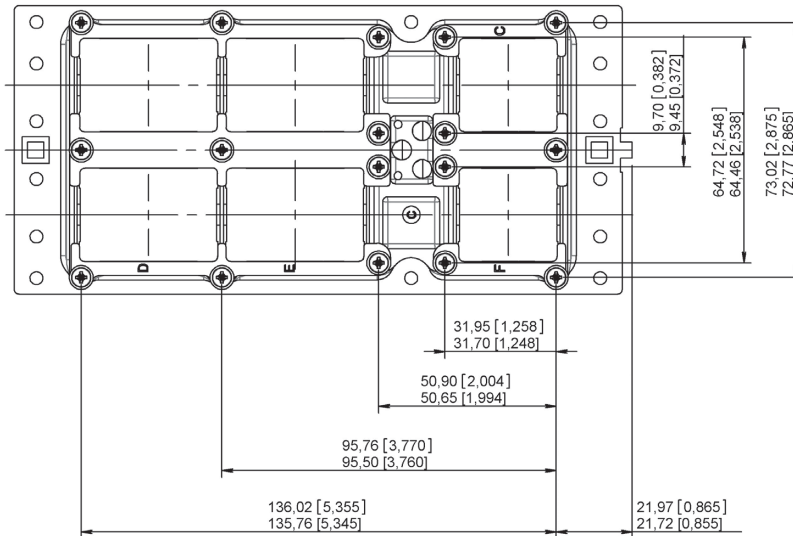
REAR VIEW



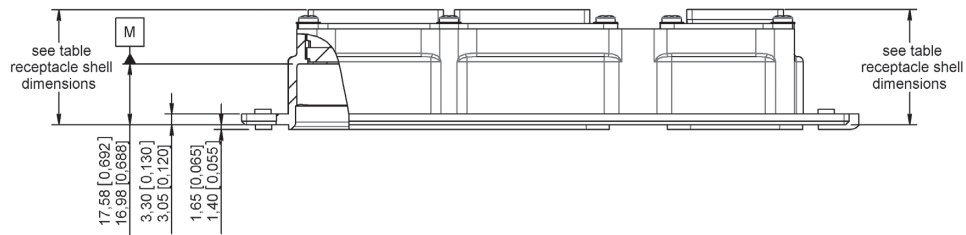
Contacts

NON-ENVIRONMENTAL SIZE 3 RECEPTACLE SHELL

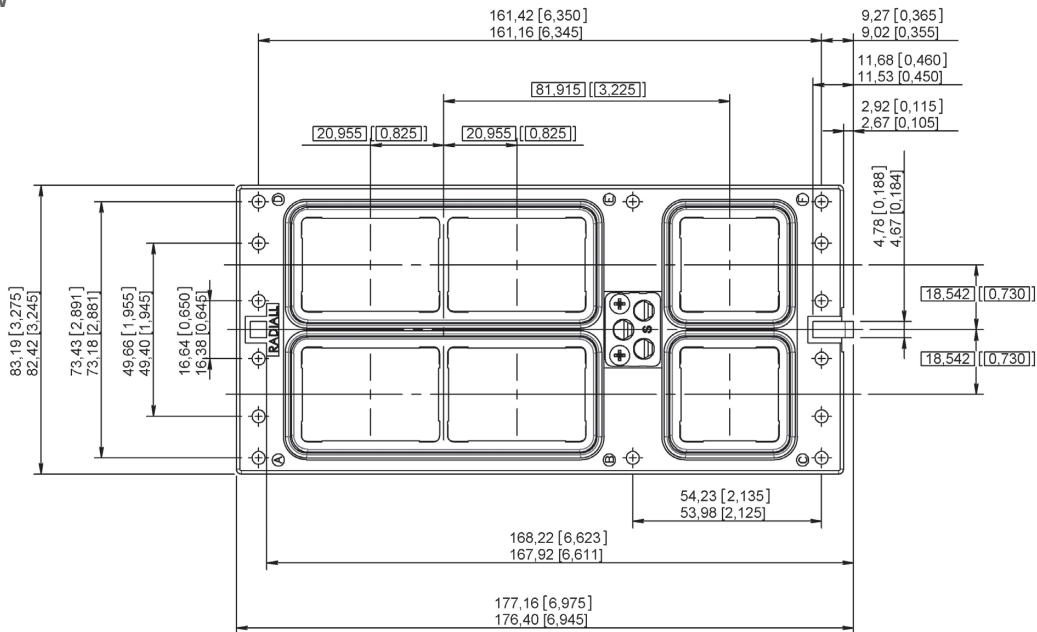
FRONT VIEW



SIDE VIEW



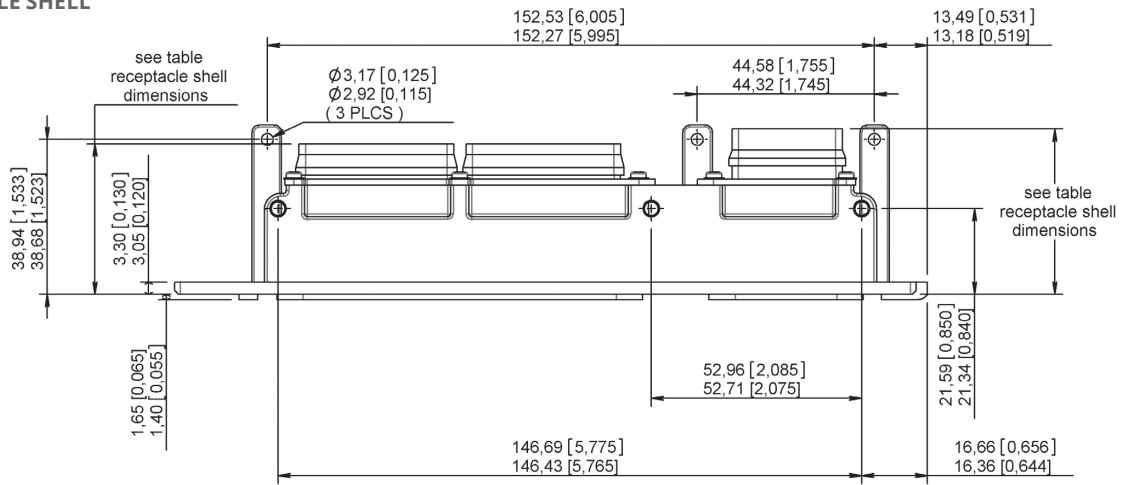
REAR VIEW



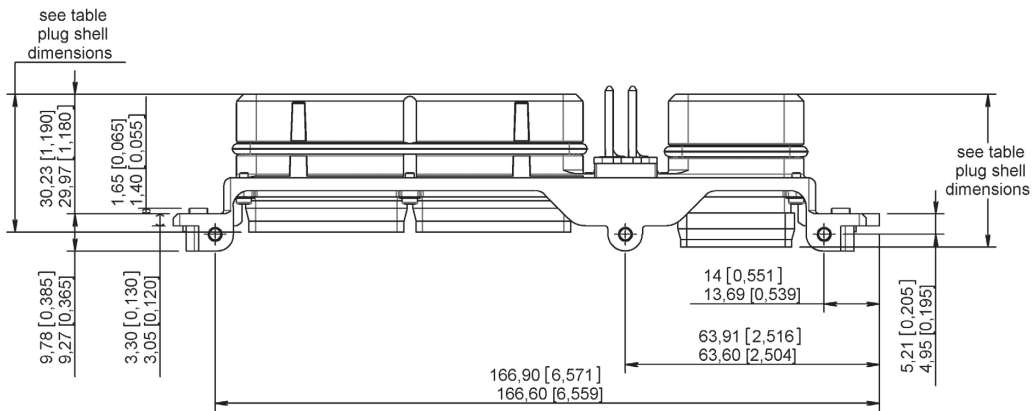
Contacts

ENVIRONMENTAL SIZE 1 - PLUG & RECEPTACLE

RECEPTACLE SHELL



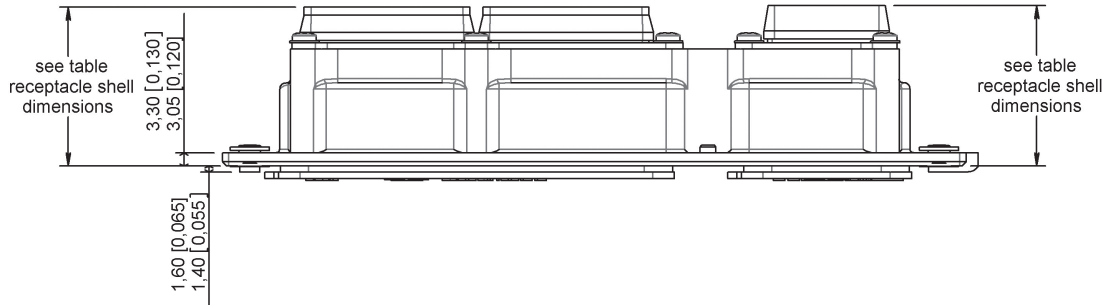
PLUG SHELL



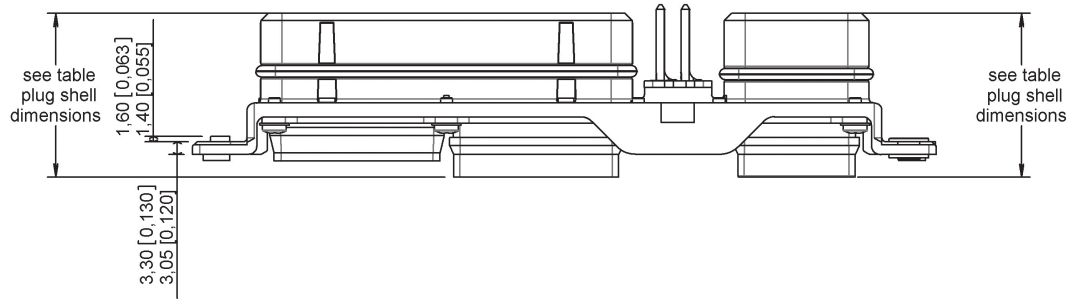
Contacts

ENVIRONMENTAL SIZE 2 & 3-PLUG & RECEPTACLE

RECEPTACLE SHELL



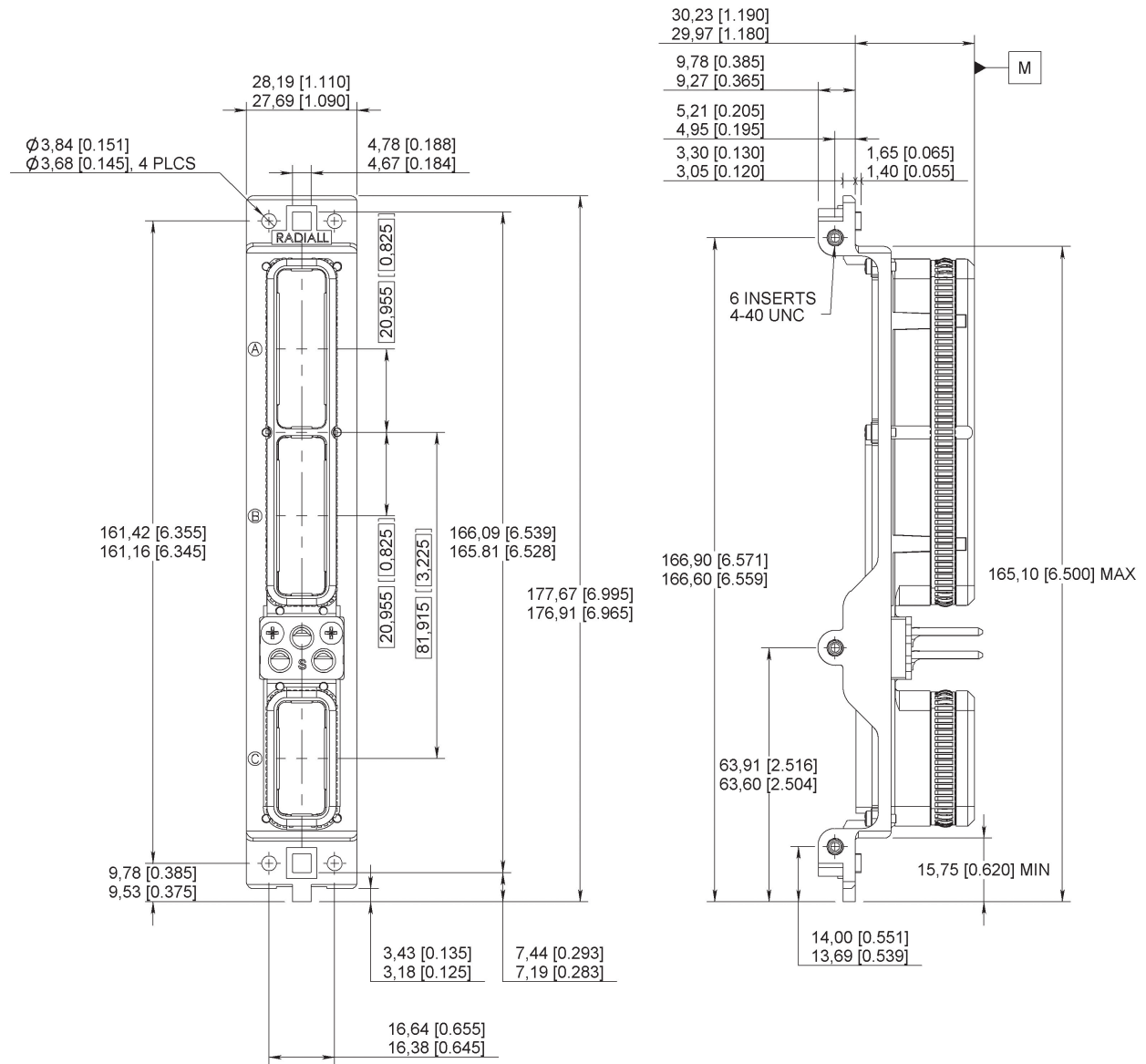
PLUG SHELL



Contacts

EMI/RFI NSX SIZE 1 PLUG

How To Order - See Page 5-10

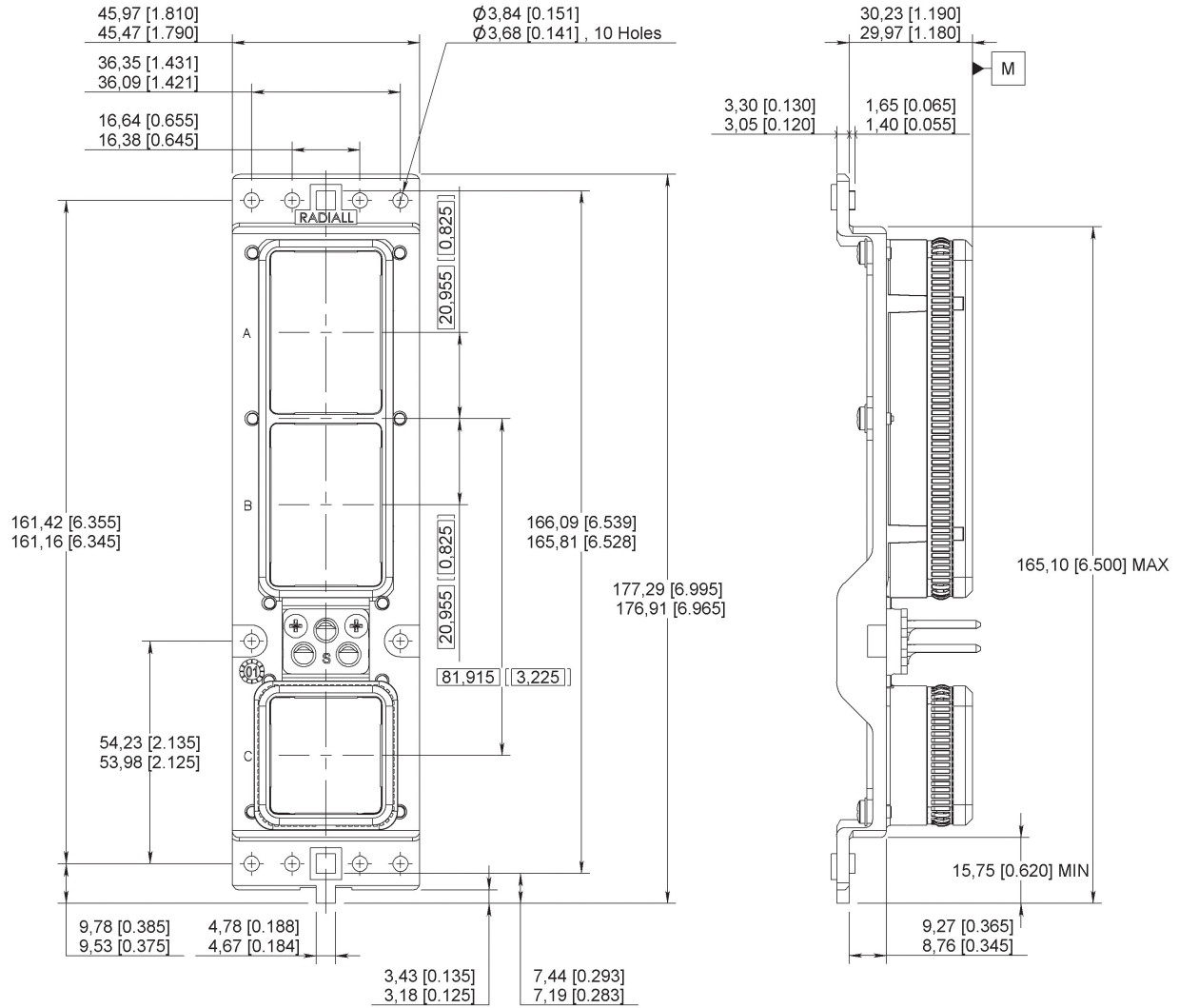




Contacts

EMI/RFI NSX SIZE 2 PLUG

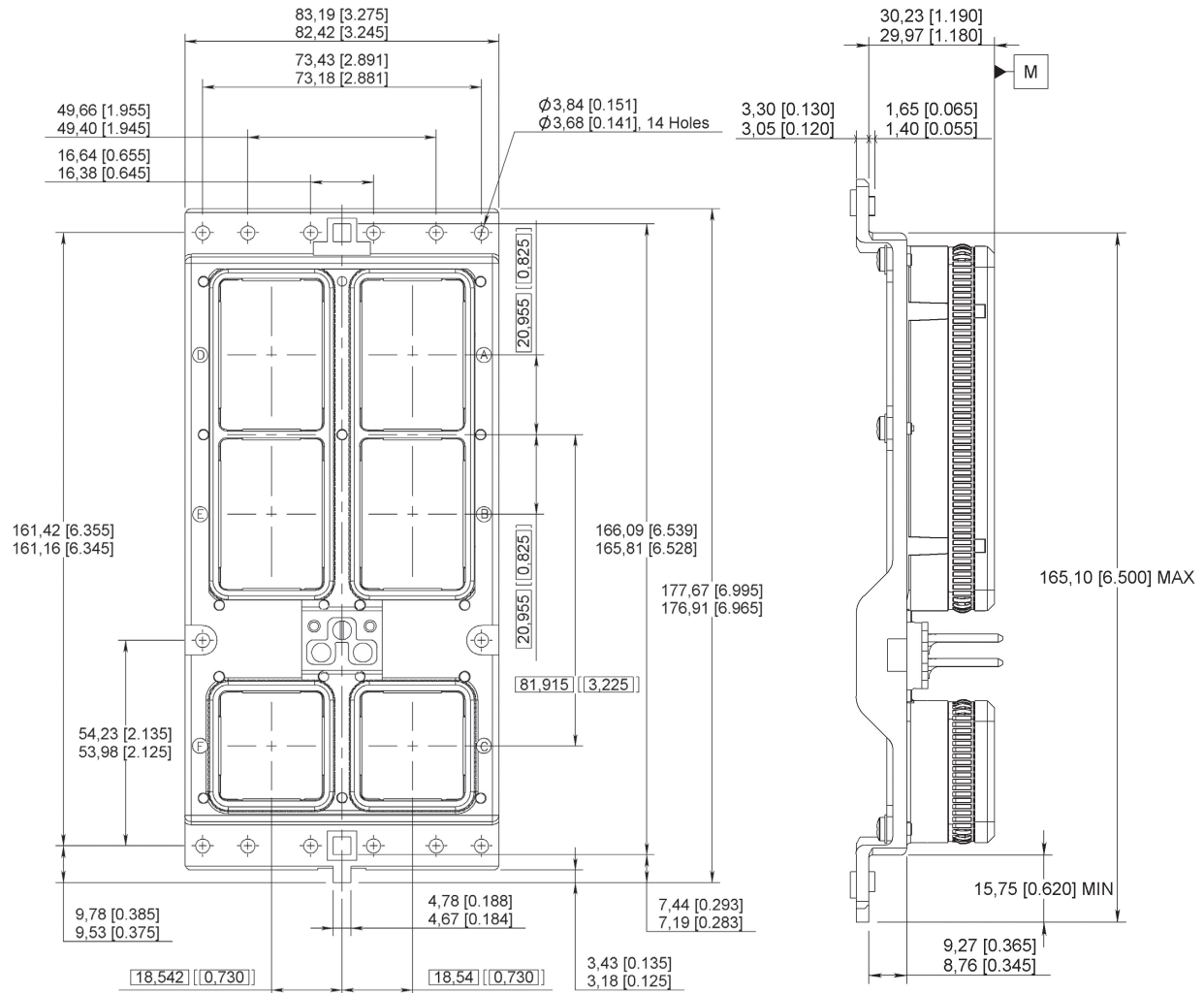
How To Order - See Page 5-10



Contacts

EMI/RFI NSX SIZE 3 PLUG

How To Order - See Page 5-10



## Contacts

## PLUG SHELL DIMENSIONS

| SHELL SIZE | CAVITY     | CONTACT ARRANGEMENT | CONTACT SIZE | CLASS N<br>MM (INCH) MAX | CLASSE E,H,C<br>MM (INCH) MAX |              |
|------------|------------|---------------------|--------------|--------------------------|-------------------------------|--------------|
| 1          | A, B       | 60                  | 22           | 28 (1.102)               | 35.5 (1.398)                  |              |
|            |            | 30T2                | 22           | 28 (1.102)               | 35.5 (1.398)                  |              |
|            |            |                     | 8            |                          | 36.8 (1.449)                  |              |
|            |            | 4C                  | 5            | 30.5 (1.200)             | -                             |              |
|            | C          | 5C2                 | 16           | 30.5 (1.200)             | 39.3 (1.547)                  |              |
|            |            |                     | 12           |                          |                               |              |
|            |            |                     | 5            |                          |                               |              |
|            | 40         | 22                  | 28 (1.102)   | 35.5 (1.398)             |                               |              |
|            | 2, 3       | A, B, D, E          | 150          | 22                       | 28 (1.102)                    | 35.5 (1.398) |
|            |            |                     | 121          | 22                       | 28 (1.102)                    | 35.5 (1.398) |
| 20         |            |                     |              | 30.5 (1.200)             | 39.3 (1.547)                  |              |
| 16         |            |                     |              |                          |                               |              |
| 120T2      |            |                     | 22           | 28 (1.102)               | 35.5 (1.398)                  |              |
|            |            |                     | 8            |                          | 36.8 (1.449)                  |              |
| 118Q2      |            |                     | 22           | 28 (1.102)               | 35.5 (1.398)                  |              |
|            |            |                     | 8            | 28 (1.102)               | 36.8 (1.449)                  |              |
| 71C1       |            |                     | 22           | 28 (1.102)               | 35.5 (1.398)                  |              |
|            |            |                     | 1            |                          | -                             |              |
| 1C71       |            |                     | 22           | 28 (1.102)               | 35.5 (1.398)                  |              |
|            |            |                     | 1            |                          | -                             |              |
| 60         |            |                     | 20           | 30.5 (1.200)             | 39.3 (1.547)                  |              |
| 24         |            |                     | 12           | 30.5 (1.200)             | 39.3 (1.547)                  |              |
| 10T10      |            |                     | 8            | 30.5 (1.200)             | 39.3 (1.547)                  |              |
| Q11        |            |                     | 8            | 30.5 (1.200)             | 39.3 (1.547)                  |              |
| C2         |            |                     | 1            | 28 (1.102)               | -                             |              |
| C4         |            |                     | 1            | 28 (1.102)               | -                             |              |
| 35         |            |                     | 16           | 30.5 (1.200)             | 39.3 (1.547)                  |              |
| 110        |            |                     | 22           | 28 (1.102)               | -                             |              |
|            |            |                     | 20           | 30.5 (1.200)             |                               |              |
|            |            |                     | 12           |                          |                               |              |
| 36F36      |            |                     | 16 LuxCis®   | 30.5 (1.200)             | 39 (1.535)                    |              |
| 20F12Q8    | 8          | 30.5 (1.200)        | 39 (1.535)   |                          |                               |              |
|            | 16 LuxCis® |                     |              |                          |                               |              |

Contacts

PLUG SHELL DIMENSIONS

| SHELL SIZE | CAVITY     | CONTACT ARRANGEMENT | CONTACT SIZE | CLASS N<br>MM (INCH) MAX | CLASSE E,H,C<br>MM (INCH) MAX |
|------------|------------|---------------------|--------------|--------------------------|-------------------------------|
| 2, 3       | C, F       | 100                 | 22           | 28 (1.102)               | 35.5 (1.398)                  |
|            |            | 85                  | 22           | 28 (1.102)               | 35.5 (1.398)                  |
|            |            |                     | 20           |                          | 39.3 (1.547)                  |
|            |            |                     | 16           |                          |                               |
|            |            | 34                  | 20           | 30.5 (1.200)             | 39.3 (1.547)                  |
|            |            |                     | 16           |                          |                               |
|            |            | 20T4                | 20           | 30.5 (1.200)             | 39.3 (1.547)                  |
|            |            |                     | 8            |                          |                               |
|            |            | 20Q4                | 20           | 30.5 (1.200)             | 39.3 (1.547)                  |
|            |            |                     | 8            |                          |                               |
|            |            | 13C2                | 20           | 30.5 (1.200)             | 39.3 (1.547)                  |
|            |            |                     | 16           |                          |                               |
|            |            |                     | 12           |                          |                               |
|            |            |                     | 5            |                          |                               |
|            |            | 6T6                 | 8            | 30.5 (1.200)             | 39.3 (1.547)                  |
|            |            | Q6                  | 8            | 30.5 (1.200)             | 39.3 (1.547)                  |
|            |            | 62Q2                | 22           | 28 (1.102)               | 36.8 (1.449)                  |
|            |            |                     | 16           |                          |                               |
|            |            |                     | 8            |                          |                               |
|            |            | 68Q2                | 22           | 28 (1.102)               | 35.5 (1.398)                  |
|            |            |                     | 8            |                          | 36.8 (1.449)                  |
|            |            | 11Q2                | 20           | 30.5 (1.200)             | 39.3 (1.547)                  |
|            |            |                     | 16           |                          |                               |
|            |            |                     | 12           |                          |                               |
|            |            |                     | 8            |                          |                               |
|            |            | 11WQ2               | 20           | 30.5 (1.200)             | 39.3 (1.547)                  |
|            |            |                     | 16           |                          |                               |
|            |            |                     | 12           |                          |                               |
|            |            |                     | 8            |                          |                               |
|            |            | 59                  | 22           | 28 (1.102)               | 35.5 (1.398)                  |
|            |            |                     | 16           | 30.5 (1.200)             | 39.3 (1.547)                  |
|            |            |                     | 12           |                          |                               |
| 12F5C2     | 16 LuxCis® | 30.5 (1.200)        | 39 (1.535)   |                          |                               |
|            | 16         |                     |              |                          |                               |
|            | 5          |                     |              |                          |                               |
| 17F12Q2    | 16 LuxCis® | 30.5 (1.200)        | 39 (1.535)   |                          |                               |
|            | 16         |                     |              |                          |                               |
|            | 12         |                     |              |                          |                               |
|            | 5          |                     |              |                          |                               |

Contacts

RECEPTACLE SHELL DIMENSIONS

| SHELL SIZE | CAVITY     | CONTACT ARRANGEMENT | CONTACT SIZE  | CLASS N<br>MM (INCH) MAX     | CLASS E, C<br>MM (INCH) MAX  | CLASS F<br>MM (INCH) MAX     | CLASSE G<br>MM (INCH) MAX    |
|------------|------------|---------------------|---------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 1          | A, B       | 60                  | 22            | 31 (1.220)                   | 38.9 (1.531)                 | 30.93/29.84<br>(1.218/1.175) | -                            |
|            |            | 30T2                | 22            | 31 (1.220)                   | 38.9 (1.531)                 | 30.93/29.84<br>(1.218/1.175) | 30.93/29.84<br>(1.218/1.175) |
|            |            |                     | 8             |                              | 40.5 (1.594)                 |                              |                              |
|            | 4C         | 5                   | 33.45 (1.317) | -                            | -                            | 30.93/29.84<br>(1.218/1.175) |                              |
|            | C          | 5C2                 | 16            | 33.45 (1.317)                | 43 (1.693)                   | -                            | 30.93/29.84<br>(1.218/1.175) |
|            |            |                     | 12            |                              |                              |                              |                              |
|            |            |                     | 5             |                              |                              |                              |                              |
|            |            | 40                  | 22            | 31 (1.220)                   | 38.9 (1.531)                 | 30.93/29.84<br>(1.218/1.175) | -                            |
| 4          | 12         | 33.45 (1.317)       | 43 (1.693)    | -                            | -                            |                              |                              |
| 2, 3       | A, B, D, E | 150                 | 22            | 31 (1.220)                   | 38.9 (1.531)                 | 30.93/29.84<br>(1.218/1.175) | -                            |
|            |            | 121                 | 22            | 31 (1.220)                   | 38.9 (1.531)                 | 30.93/29.84<br>(1.218/1.175) | 30.93/29.84<br>(1.218/1.175) |
|            |            |                     | 20            | 33.45 (1.317)                | 43 (1.693)                   | 33.45<br>(1.317)             |                              |
|            |            | 16                  |               |                              |                              |                              |                              |
|            |            | 120T2               | 22            | 31 (1.220)                   | 38.9 (1.531)                 | 30.93/29.84<br>(1.218/1.175) | -                            |
|            |            |                     | 8             | 31 (1.220)                   | 40.5 (1.594)                 | 30.93/29.84<br>(1.218/1.175) | -                            |
|            |            | 118Q2               | 22            | 31 (1.220)                   | 38.9 (1.531)                 | 30.93/29.84<br>(1.218/1.175) | -                            |
|            |            |                     | 8             | 31 (1.220)                   | 40.5 (1.594)                 | 30.93/29.84<br>(1.218/1.175) | -                            |
|            |            | 71C1                | 22            | 31 (1.220)                   | 38.9 (1.531)                 | 30.93/29.84<br>(1.218/1.175) | -                            |
|            |            |                     | 1             |                              | -                            |                              |                              |
|            |            | 1C71                | 22            | 31 (1.220)                   | 38.9 (1.531)                 | 30.93/29.84<br>(1.218/1.175) | -                            |
|            |            |                     | 1             |                              | -                            |                              |                              |
|            |            | 60                  | 20            | 33.45 (1.317)                | 43 (1.693)                   | -                            | 30.93/29.84<br>(1.218/1.175) |
|            |            | 24                  | 12            | 33.45 (1.317)                | 43 (1.693)                   | -                            | 30.93/29.84<br>(1.218/1.175) |
|            |            | 10T10               | 8             | 33.45 (1.317)                | 43 (1.693)                   | -                            | 30.93/29.84<br>(1.218/1.175) |
|            |            | Q11                 | 8             | 33.45 (1.317)                | 43 (1.693)                   | -                            | 30.93/29.84<br>(1.218/1.175) |
|            |            | C2                  | 1             | 31 (1.220)                   | -                            | -                            | -                            |
| C4         | 1          | 31 (1.220)          | -             | -                            | -                            |                              |                              |
| 35         | 16         | 33.45 (1.317)       | 43 (1.693)    | -                            | 30.93/29.84<br>(1.218/1.175) |                              |                              |
| 110        | 22         | 31 (1.220)          | 38.9 (1.531)  | 30.93/29.84<br>(1.218/1.175) | 30.93/29.84<br>(1.218/1.175) |                              |                              |
|            | 20         | 33.45 (1.317)       | 43 (1.693)    | 33.45<br>(1.317)             |                              |                              |                              |
|            | 12         |                     |               |                              |                              |                              |                              |

Contacts

RECEPTACLE SHELL DIMENSIONS

| SHELL SIZE | CAVITY     | CONTACT ARRANGEMENT | CONTACT SIZE  | CLASS N<br>MM (INCH) MAX     | CLASS E, C<br>MM (INCH) MAX  | CLASS F<br>MM (INCH) MAX     | CLASSE G<br>MM (INCH) MAX    |                              |                              |
|------------|------------|---------------------|---------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|
| 2, 3       | A, B, D, E | 36F36               | 16 LuxCis®    | 35.5 (1.398)                 | 44 (1.732)                   | -                            | -                            |                              |                              |
|            |            | 20F12Q8             | 16 LuxCis®    | 35.5 (1.398)                 | 44 (1.732)                   | -                            | 30.93/29.84<br>(1.218/1.175) |                              |                              |
|            | 8          |                     |               |                              |                              |                              |                              |                              |                              |
|            | C, F       |                     | 100           | 22                           | 31 (1.220)                   | 38.9 (1.531)                 | 30.93/29.84<br>(1.218/1.175) | -                            |                              |
|            |            |                     | 85            | 22                           | 31 (1.220)                   | 38.9 (1.531)                 | 30.93/29.84<br>(1.218/1.175) | 30.93/29.84<br>(1.218/1.175) |                              |
|            |            |                     |               | 20                           |                              | 40.5 (1.595)                 |                              |                              |                              |
|            |            |                     |               | 16                           |                              |                              |                              |                              |                              |
|            |            |                     | 34            | 20                           | 33.45 (1.317)                | 43 (1.693)                   | -                            | 30.93/29.84<br>(1.218/1.175) |                              |
|            |            |                     |               | 16                           |                              |                              |                              |                              |                              |
|            |            |                     | 20T4          | 20                           | 33.45 (1.317)                | 43 (1.693)                   | -                            | 30.93/29.84<br>(1.218/1.175) |                              |
|            |            |                     |               | 8                            |                              |                              |                              |                              |                              |
|            |            |                     | 20Q4          | 20                           | 33.45 (1.317)                | 43 (1.693)                   | -                            | 30.93/29.84<br>(1.218/1.175) |                              |
|            |            |                     |               | 8                            |                              |                              |                              |                              |                              |
|            |            |                     | 13C2          | 20                           | 33.45 (1.317)                | 43 (1.693)                   | -                            | 30.93/29.84<br>(1.218/1.175) |                              |
|            |            |                     |               | 16                           |                              |                              |                              |                              |                              |
|            |            |                     |               | 12                           |                              |                              |                              |                              |                              |
|            |            |                     |               | 5                            |                              |                              |                              |                              |                              |
|            |            |                     | 6T6           | 8                            | 33.45 (1.317)                | 43 (1.693)                   | -                            | 30.93/29.84<br>(1.218/1.175) |                              |
|            |            |                     | Q6            | 8                            | 33.45 (1.317)                | 43 (1.693)                   | -                            | 30.93/29.84<br>(1.218/1.175) |                              |
|            |            |                     | 62Q2          | 22                           | 31 (1.220)                   | 38.9 (1.531)                 | 40.5 (1.595)                 | 30.93/29.84<br>(1.218/1.175) | 30.93/29.84<br>(1.218/1.175) |
|            |            |                     |               | 16                           |                              |                              |                              |                              |                              |
|            |            |                     |               | 8                            |                              |                              |                              |                              |                              |
|            |            |                     | 68Q2          | 22                           | 31 (1.220)                   | 38.9 (1.531)                 | 40.5 (1.595)                 | 30.93/29.84<br>(1.218/1.175) | 30.93/29.84<br>(1.218/1.175) |
|            |            |                     |               | 8                            |                              |                              |                              |                              |                              |
|            |            |                     | 11Q2          | 20                           | 33.45 (1.317)                | 43 (1.693)                   | -                            | 30.93/29.84<br>(1.218/1.175) |                              |
|            |            |                     |               | 16                           |                              |                              |                              |                              |                              |
|            |            |                     |               | 12                           |                              |                              |                              |                              |                              |
|            | 8          |                     |               |                              |                              |                              |                              |                              |                              |
|            | 11WQ2      | 20                  | 33.45 (1.317) | 43 (1.693)                   | -                            | 30.93/29.84<br>(1.218/1.175) |                              |                              |                              |
|            |            | 16                  |               |                              |                              |                              |                              |                              |                              |
|            |            | 12                  |               |                              |                              |                              |                              |                              |                              |
|            |            | 8                   |               |                              |                              |                              |                              |                              |                              |
| 59         | 22         | 31 (1.220)          | 38.9 (1.531)  | 30.93/29.84<br>(1.218/1.175) | 30.93/29.84<br>(1.218/1.175) |                              |                              |                              |                              |
|            | 16         | 33.45 (1.317)       | 43 (1.693)    | 33.45 (1.317)                |                              |                              |                              |                              |                              |
|            |            |                     |               |                              |                              | 12                           |                              |                              |                              |
| 12F5C2     | 16 LuxCis® | 35.5 (1.398)        | 44 (1.732)    | -                            | -                            |                              |                              |                              |                              |
|            | 16         |                     |               |                              |                              |                              |                              |                              |                              |
|            | 5          |                     |               |                              |                              |                              |                              |                              |                              |
| 17F12Q2    | 16 LuxCis® | 35.5 (1.398)        | 44 (1.732)    | -                            | 30.93/29.84<br>(1.218/1.175) |                              |                              |                              |                              |
|            | 16         |                     |               |                              |                              |                              |                              |                              |                              |
|            | 12         |                     |               |                              |                              |                              |                              |                              |                              |
|            | 5          |                     |               |                              |                              |                              |                              |                              |                              |

Notes

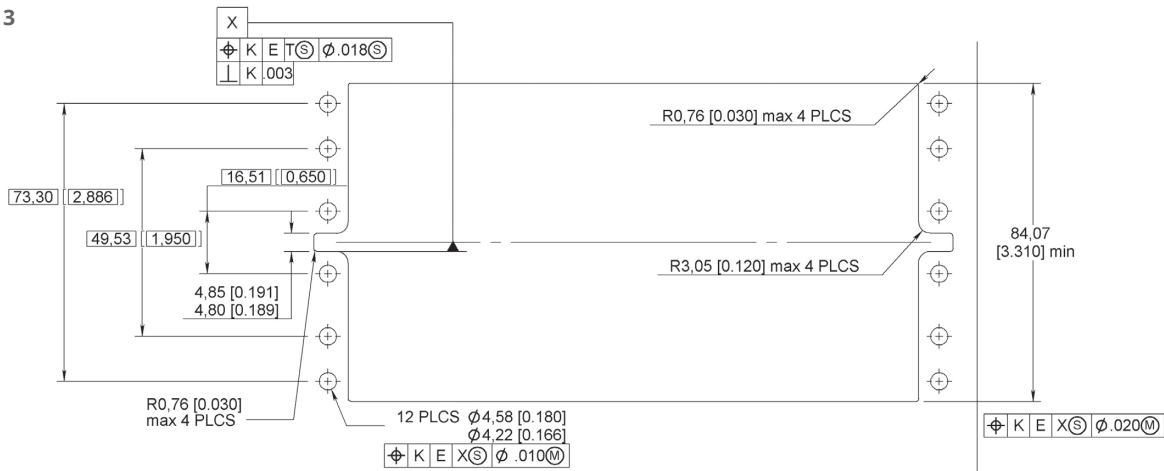
CLASS F: size 22 contacts are front release and front removable. Other sizes are rear release and rear removable.  
 CLASS G: all contacts are front release and front removable.

Contacts

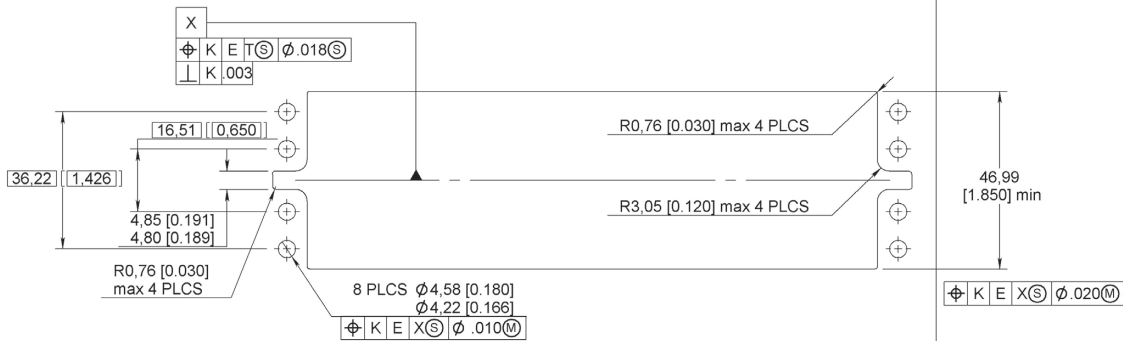
PANEL CUT-OUT

PANEL CUT OUT FOR PLUG SIZE 1, 2 & 3

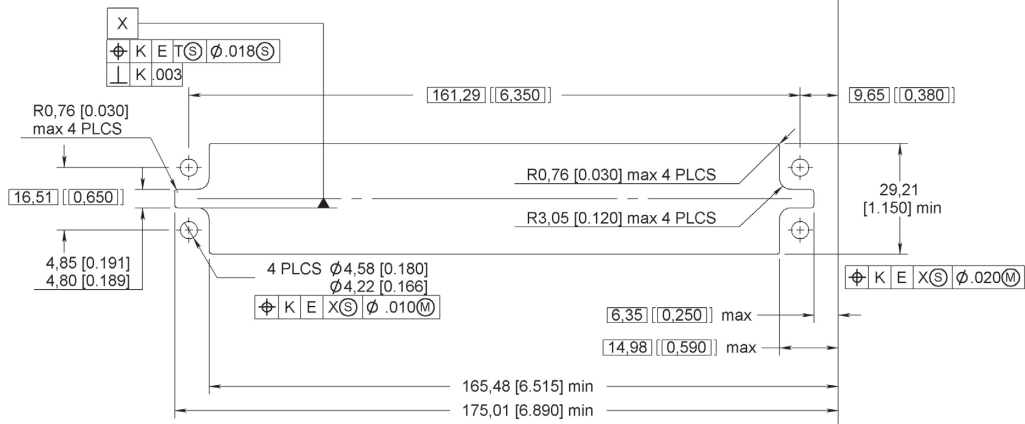
SIZE 3



SIZE 2



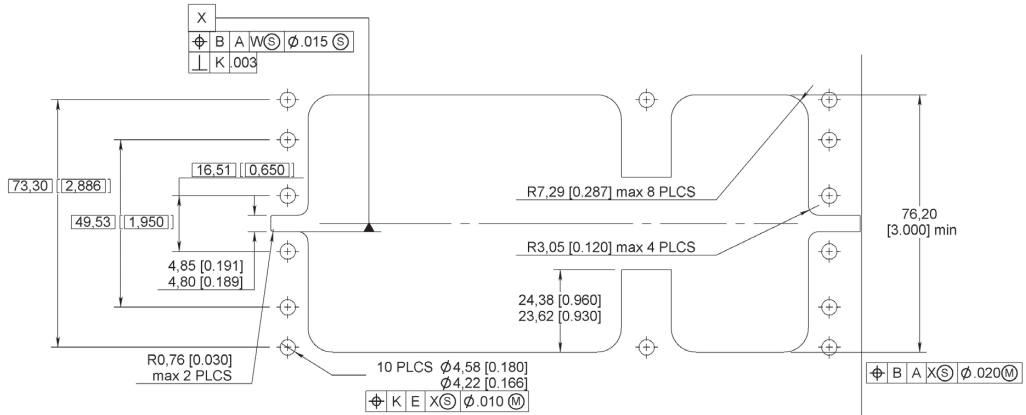
SIZE 1



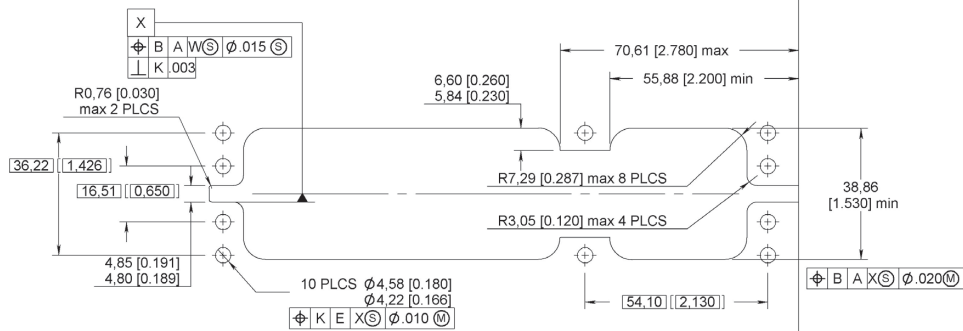
Contacts

PANEL CUT OUT FOR RECEPTACLE SIZE 1, 2 & 3

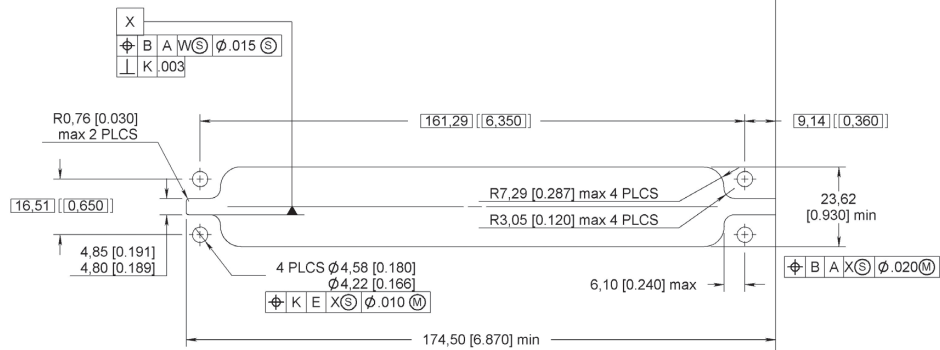
SIZE 3



SIZE 2



SIZE 1



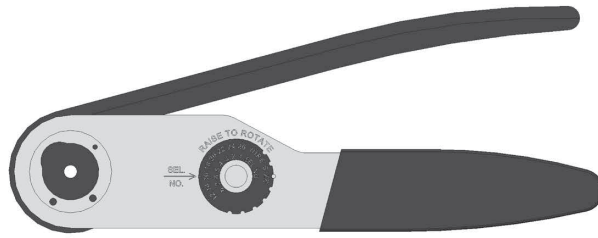


Contacts

**TOOLS**

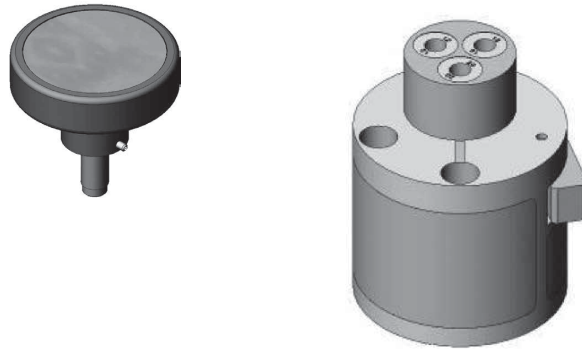
**CRIMPING TOOLS**

| PART NUMBER | CRIMPING TOOLS |
|-------------|----------------|
| 282291      | M22520/1.01    |
| 282281      | M22520/2.01    |
| 282292      | M22520/4.01    |
| 282293      | M22520/5.01    |
| -           | M22520/23.01   |
| -           | M22520/31.01   |



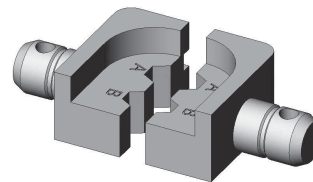
**POSITIONERS**

| PART NUMBER           | MIL SPEC P/N |
|-----------------------|--------------|
| 282972                | M22520/1.02  |
| 282579                | M22520/1.11  |
| 282997                | M22520/1.13  |
| 282971                | M22520/2.08  |
| 282970                | M22520/2.23  |
| -                     | M22520/23.09 |
| 282550 (DANIELS K345) | -            |
| 282555 (DANIELS K370) | -            |
| 282556                | -            |
| 282587                | -            |
| 282588                | -            |



**DIES**

| PART NUMBER | MIL SPEC P/N |
|-------------|--------------|
| 282246      | M22520/5.05  |
| -           | M22520/5.13  |
| -           | M22520/5.29  |
| 282236      | M22520/5.45  |
| 282247      | M22520/5.61  |
| -           | M22520/23.02 |
| -           | M22520/5.104 |



## Contacts

## INSERTION/EXTRACTION TOOLS

| PART NUMBER | MIL SPEC P/N | DESCRIPTION  |
|-------------|--------------|--|
| 282885      | M81969/1.01  | Ins/Ext Tool for Rear Release Rear Removable Size 22 Contacts (Crimp Version)                  |
| 282886      | M81969/1.02  | Ins/Ext Tool for Rear Release Rear Removable Size 20 Contacts (Crimp Version)                  |
| 282546      | M81969/1.03  | Ins/Ext Tool for Rear Release Rear Removable Size 16 Contacts (Crimp Version)                  |
| 282946      | M81969/28.01 | Ins/Ext Tool for Rear Release Rear Removable Size 5 Coaxial Contacts (Metallic)                |
| 282500      | -            | Ins/Ext Tool for Front Release Front Removable Size 22 Contacts                                |
| 282503      | -            | Ins/Ext Tool for Front Release Front Removable Size 20 Contacts                                |
| 282504      | -            | Ins/Ext Tool for Front Release Front Removable Size 16 Contacts                                |
| 282549005   | -            | Ins/Ext Tool for Front Release Front Removable Size 12 Contacts                                |
| 282890      | -            | Ins/Ext Tool for Rear Release Size 22 Contacts Solder Tail and Wire Wrap Terminations          |
| 282549011   | -            | Insertion Tool for Front Release Front Removable Size 8 Triaxial Contacts, Solder Tail Version |
| 282549004   | M81969/14.04 | Extraction Tool for Rear Release Rear Removable Size 12 Contacts                               |
| -           | M81969/19.02 | Extraction Tool for Front Release Rear Removable Size 12 Power Contacts                        |
| -           | M81969/19.03 | Extraction Tool for Front Release Rear Removable Size 8 Contacts                               |
| 282549001   | M81969/28.03 | Extraction Tool for Rear Release Rear Removable Size 8 Contacts                                |
| 282549004   | -            | Extraction Tool for Rear Release Rear Removable Size 12 Contacts (Crimp Version)               |
| 282548      | -            | Extraction Tool for Rear Release Rear Removable Size 5 Coaxial Contacts                        |
| 282549009   | -            | Extraction Tool for Front Release Front Removable Size 8 Triaxial Contacts                     |
| 282549012   | -            | Extraction Tool for Front Release Rear Removable Size 8 Triaxial Contacts                      |
| 282892      | -            | Extraction Tool for Rear Release Rear Removable Size 16 Coaxial Contacts                       |
| 282945      | -            | Extraction Tool for Rear Release Rear Removable Size 12 Coaxial Contacts                       |
| 282548      | -            | Extraction Tool for Rear Release Rear Removable Size 5 Coaxial Contacts (Plastic)              |

Contacts

**ACCESSORIES**  
**EMI BACKSHELLS**

Radiall is proud to introduce two ways to integrate EMI backshells on Arinc 600 connectors:

- Backshell adapters plates
- Radiall backshell solution

Backshell adapters plates:

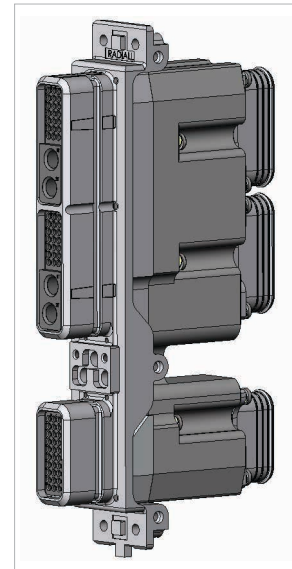
Backshell adapters plates can be delivered with NSX connectors when choosing modification code 60 and 61.

| COMBINATION CODE | RECEPTACLE SHELL | PLUG SHELL  |
|------------------|------------------|---|
| 60<br>[1]        | -                | <p>Shell Size 1: Q<sup>ty</sup> = 4 Holes Ø 3.76 (0.148) &amp; Q<sup>ty</sup> = 6 4-40 UNC 2B</p> <p>Shell Size 2: Q<sup>ty</sup> = 10 Holes Ø 3.76 (0.148)</p> <p>Shell Size 3: Q<sup>ty</sup> = 14 Holes Ø 3.76 (0.148) Delivered with Backshell Adapters Plates</p>                  |
| 61<br>[1]        | -                | <p>Shell Size 1: Q<sup>ty</sup> = 4 6-32 UNC</p> <p>Shell Size 2: Q<sup>ty</sup> = 6 Holes Ø 3.76 (0.148) &amp; Q<sup>ty</sup> = 4 6-32 UNC</p> <p>Shell Size 3: Q<sup>ty</sup> = 6 Holes Ø 3.76 (0.148) &amp; Q<sup>ty</sup> = 8 6-32 UNC Delivered with Backshell Adapters Plates</p> |

**RADIALL BACKSHELL SOLUTION**

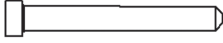







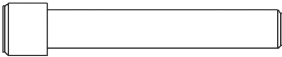
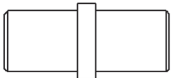



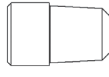


- High EMI performances
- Easy installation and maintenance with:
  - Modular backshells (1 or 2 pieces backshells)
  - Captive screws
- Available on size 1, 2 and 3 Arinc 600 connectors
- Round or oblong chimneys

Please, contact Radiall for more information about NSX backshells



Contacts

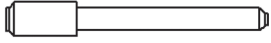
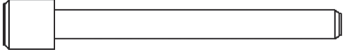
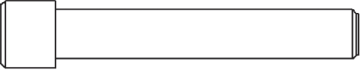

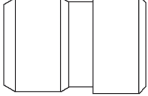
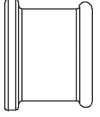
**FILLER PLUGS (NON-ENVIRONMENTAL)**

| SIZE | CONTACT CAVITY VERSION | INS   | EXT   | COLOR/TYPE | PART NUMBER | DRAWING   |
|------|------------------------|-------|-------|------------|-------------|---|
| 22   | For Pin & Socket       | Rear  | Rear  | Black      | 620920      | ←    |
|      | For Socket             | Front | Front | Aluminium  | 620919      |  →   |
|      | For Socket             | Front | Front | White      | 620926      |  →   |
| 20   | For Pin & Socket       | Rear  | Rear  | Eed        | 620921      | ←    |
|      | For Pin & Socket       | Front | Front | White      | 620934001   |  →   |
| 16   | For Pin & Socket       | Rear  | Rear  | Blue       | 620922      | ←    |
|      | For Pin & Socket       | Front | Front | White      | 620935001   |  →   |
| 12   | For Pin & Socket       | Rear  | Rear  | Yellow     | 620923      | ←  |
|      | For Pin                | Front | Front | White      | 620936001   |  → |
|      | For Pin                | Front | Front | Nickel     | 620936002   |  → |
| 8    | For Pin                | Rear  | Rear  | Nickel     | 619953      | ←  |
|      | For Pin                | Front | Front | Nickel     | 619552      |  → |
|      | For Socket             | Rear  | Rear  | Nickel     | 619950      | ←  |
| 5    | For Pin                | Rear  | Rear  | White      | 620924      | ←  |
|      | For Socket             | Rear  | Rear  | White      | 620925      | ←  |
|      | For Pin & Socket       | Front | Front | White      | 620937001   |  → |

## Contacts

**SEALING PLUGS (ENVIRONMENTAL)**

Sealing plugs are dedicated to environmental inserts.

| SIZE | CONTACT CAVITY VERSION | INS  | EXT  | COLOR/TYPE | PART NUMBER | DRAWING   |
|------|------------------------|------|------|------------|-------------|---|
| 22   | For Pin & Socket       | Rear | Rear | Black      | 616910      | ←    |
| 20   | For Pin & Socket       | Rear | Rear | Red        | 616911      | ←    |
| 16   | For Pin & Socket       | Rear | Rear | Green      | 616912      | ←    |
| 12   | For Pin & Socket       | Rear | Rear | Orange     | 616913      | ←   |
| 8    | For Pin & Socket       | Rear | Rear | Red        | 618915      | ←  |
| 5    | For Pin & Socket       | Rear | Rear | Red        | 616914014   | ←  |




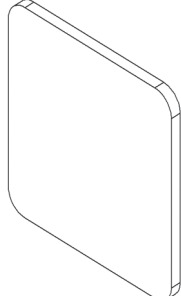
**Notes**

The arrows show the direction which you have to insert the plug.

Contacts

**DUMMY INSERTS**

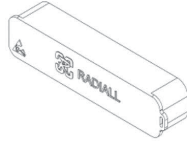
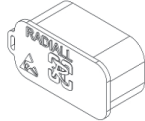

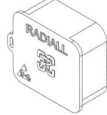
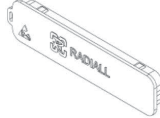
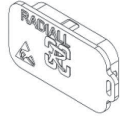

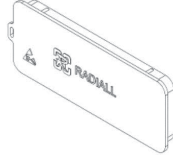

When a cavity shell is not fitted with one of the inserts shown on pages 5-11 to 5-20, the cavity shell is fitted with a dummy insert. Dummy inserts are made of aluminium alloy and are available for each cavity shell nickel or RoHS plating.

| SHELL SIZE | CAVITY           | DUMMY INSERT P/N                       | FIGURE  |
|------------|------------------|--|---|
| 1          | A or B           | 620913001 (Nickel)<br>620913005 (RoHS) |    |
|            | C                | 620913002 (Nickel)<br>620913006 (RoHS) |   |
| 2 & 3      | A or B or D or E | 620913003 (Nickel)<br>620913007 (RoHS) |  |
|            | C or F           | 620913004 (Nickel)<br>620913008 (RoHS) |  |

Contacts

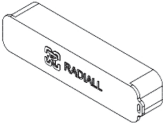
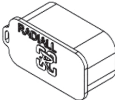






**DUST CAPS**

Dust caps are made of thermoplastic. They are available either conductive (black color) or not (red color).

| ELECTRICAL CHARACTERISTICS | SHELL TYPE | SHELL SIZE                 | SHELL CAVITY | PART NUMBER | FIGURE  |
|----------------------------|------------|----------------------------|--------------|-------------|---|
| Conductive                 | Plug       | 1                          | A/B          | 620995003   |    |
|                            |            |                            | C            | 620995004   |    |
|                            |            | 2 & 3                      | A/B & D/E    | 620995007   |    |
|                            |            |                            | C & F        | 620995008   |   |
|                            | Receptacle | 1                          | A/B          | 620995011   |  |
|                            |            |                            | C            | 620995012   |  |
|                            |            | For Single Shell Connector | -            | 620995018   |  |
|                            |            | 2 & 3                      | A/B & D/E    | 620995015   |  |
|                            |            |                            | C & F        | 620995016   |  |

Contacts

DUST CAPS

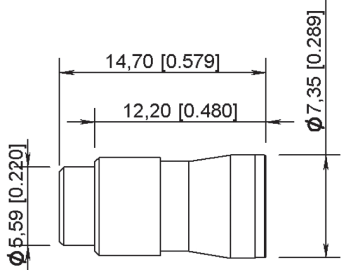
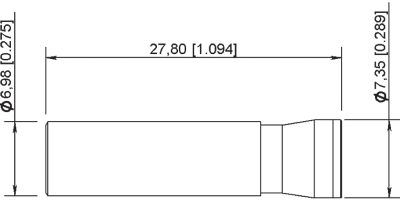
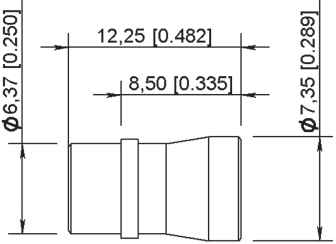
| ELECTRICAL CHARACTERISTICS | SHELL TYPE | SHELL SIZE                 | SHELL CAVITY | PART NUMBER | FIGURE  |
|----------------------------|------------|----------------------------|--------------|-------------|---|
| Non<br>Conductive          | Plug       | 1                          | A/B          | 620995001   |    |
|                            |            |                            | C            | 620995002   |    |
|                            |            | For Single Shell Connector | -            | 620995017   |    |
|                            |            | 2 & 3                      | A/B & D/E    | 620995005   |    |
|                            |            |                            | C & F        | 620995006   |   |
|                            |            | Receptacle                 | 1            | A/B         | 620995009   |
|                            | C          |                            |              | 620995010   |  |
|                            | 2 & 3      |                            | A/B & D/E    | 620995013   |  |
|                            |            |                            | C & F        | 620995014   |  |



## Contacts

## CAVITY REDUCERS

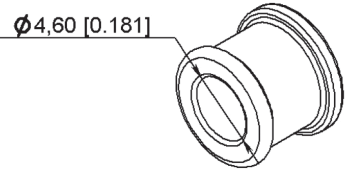
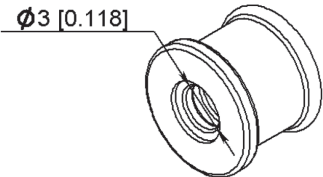
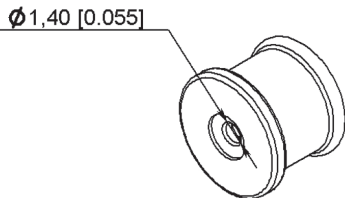
The following parts are cavity reducers which allows the use of a size 12 contact in a size 5 cavity. These parts are made of copper alloy and are plated with gold over nickel. Once installed, they cannot be removed.

| ELECTRICAL CHARACTERISTICS   | PART NUMBER | FIGURE  |
|--|-------------|---|
| For Pin Contact  | 620940      |    |
| For Socket Contact   | 620941      |    |
| For Pin Contact Front Release / Front Removable (FR/FR) Connector in Version G | 620942      |  |

Contacts

**SEALING BOOTS**

The sealing boots are designed to slide down over the back of the crimped contacts after they have been installed in the connector. The assembly provides bend support and moisture sealing to the contact / cable assembly. Sealing boots are made of fluorosilicon rubber.

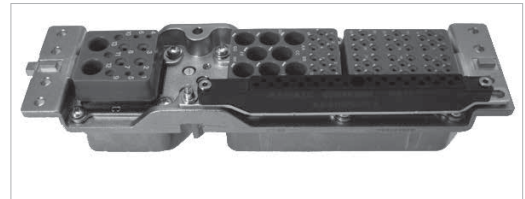
| ELECTRICAL CHARACTERISTICS | CABLE OUTSIDE DIA. MM (INCH)   | CABLE   | PART NUMBER | FIGURE   |
|----------------------------|--------------------------------|---|-------------|--|
| 5                          | 5 (0.197)                      | RG 58<br>RG 141<br>RG 142<br>RG 223<br>RG 400 | 620939201   |   |
|                            | 3.81 (0.150)                   | RG 180<br>RG 195                              | 620939200   |   |
|                            | 2.59 (0.102)<br>& 2.01 (0.079) | RG 179<br>RG 316<br>KX 21                     | 620914001   |  |

**GROUNDING BLOCK (PART NUMBER 620981002)**

Radiall provides a unique feature by integrating a ground block directly on the plug shell for sizes #2 & #3.

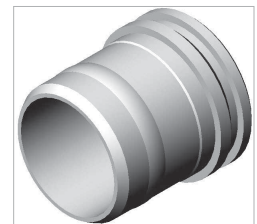
This option allows very short ground terminations.

Pin crimp ground contacts are available with grounding block, part number is 620260 (up to 26 contacts per grounding block).



**ALIGNMENT BOOTS (PART NUMBER 619960)**

Alignment boots are designed to reduce the play at the top of the size 8 pin contacts. They are used with non-environmental rear release/rear removable size 8 pin contacts.



*NSX-Single Shell Connector***INTRODUCTION**

NSX single shell connectors are designed to accommodate all large cavity inserts. Their characteristics are shown on page 5-5 except for the following.

**MATERIALS**

| DESCRIPTION                                 | MATERIAL        | PLATING                           |
|---|-----------------|-----------------------------------|
| Shell                                       | Aluminum Alloy  | Cadmium Clear Chromate or Nickel  |
| Insert Retention Plate                      | Aluminum Alloy  | Cadmium Clear Chromate or Nickel  |
| Polarization Posts and Keys Retention Plate | Aluminum Alloy  | Cadmium Clear Chromate or Nickel  |
| Screws Washers and Clinch-Nuts              | Stainless Steel | -                                 |
|   | Steel           | Cadmium Clear Chromate            |
| Polarization Posts and Keys                 | Zinc Alloy      | Cadmium Yellow Chromate or Nickel |

NSX-Single Shell Connector

## HOW TO ORDER NSX-SINGLE SHELL CONNECTOR

# NSX

**SERIES PREFIX** \_\_\_\_\_

**CLASS** \_\_\_\_\_

- N:** Non-environmental (rear removable version only)
- E:** Environmental, with grommets and compound; plug with O-ring (rear removable version only).
- H:** Environmental plug without O-ring  *Front Removeable*
- C:** Non-environmental with grommets
- F:** Non-environmental receptacle shell  *Rear Removeable*
- G:** Non-environmental receptacle shell

**SHELL STYLE** \_\_\_\_\_

- R:** Cadmium clear chromate plated receptacle
- P:** Cadmium clear chromate plated plug
- F:** Nickel plated receptacle
- B:** Nickel plated plug
- M:** Nickel plated plug EMI/RF1 solution (see page 5-95)

**CONTACT ARRANGEMENT** \_\_\_\_\_

See contact arrangements on pages 5-11 to 5-20.  
Only use insert for A & B cavities.

**CONTACT TERMINATION** <sup>[1]</sup> \_\_\_\_\_

WITHOUT CONTACTS

- X:** Without contacts
- S:** Crimp contacts

WIRE WRAP

- K:** Wire wrap contact, 1 level (1 = 0.272)
- V:** Wire wrap contact, 2 levels (1 = 0.390)
- W:** Wire wrap contact, 3 levels (1 = 0.524)

**PC TAIL CONTACTS**

| ROHS | GOLD | PRE-TINNED | LENGTH (IN.) |
|------|------|------------|--------------|
| RA   | YA   | ZA         | 0.150        |
| R    | Y    | Z          | 0.250        |
| RB   | YB   | ZB         | 0.375        |
| RC   | YC   | ZC         | 0.500        |

**MODIFICATION CODE** \_\_\_\_\_

- 00:** 4 mounting holes 0.146/0.156 dia
- 01:** 4 clinch nuts 4.40 UNC
- 03:** 4 each 0.122 dia mounting holes c'sunk 0.230 dia × 100°
- 04:** 4 each 0.122 dia mounting holes c'sunk 0.230 dia × 82°
- 05:** 4 each 0.137 dia mounting holes c'sunk 0.230 dia × 82°
- 23:** 4 floating eyelets 0.122 - 0.126 dia

**POLARIZATION CODE** <sup>[2]</sup> \_\_\_\_\_

See pages 5-91 to 5-92.  
Without code: polarization hardware is delivered unassembled.

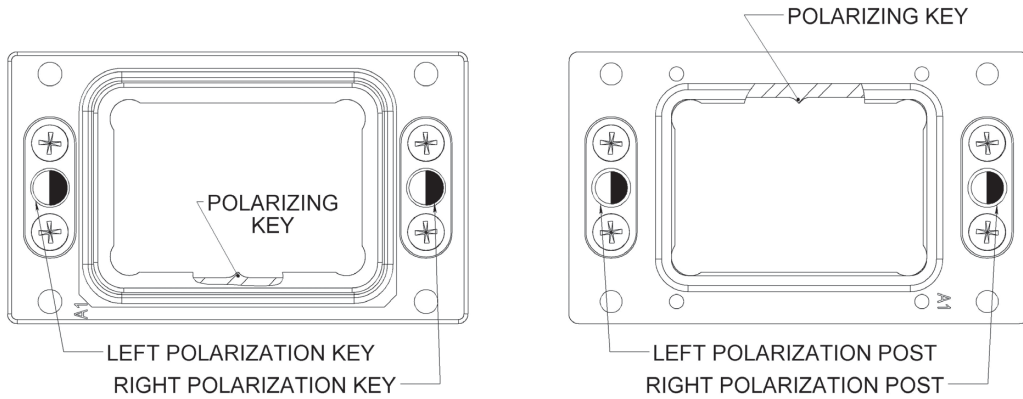
**Notes**

1. For F class receptacle, only size 22 contacts can be delivered in PC Tail version, others contacts (size 20, 16, 12) will be delivered in crimp version. Coaxial, twinax and quadrax contacts are ordered separately.  
For G class receptacle, every contacts can be delivered in PC Tail or crimp version except size 1 that will be delivered in crimp version only. Coax twinax and power contacts size are ordered separately.
2. Without polarization code, the connector is delivered polarization hardware unassembled.  
Polarization code 00, the connector is delivered without polarization hardware.  
Polarization code 01 to 36, the connector is delivered with the polarization hardware assembled as defined by the code.

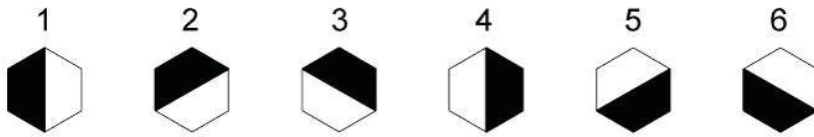
NSX-Single Shell Connector

**INSTALLATION**

**HORIZONTAL**



**MATING FACE**

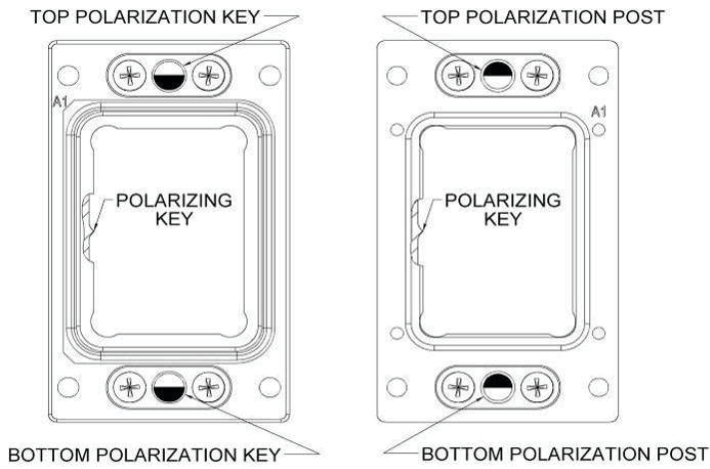


**POSITION OF POST (DARK) AND KEYHOLE (LIGHT)**

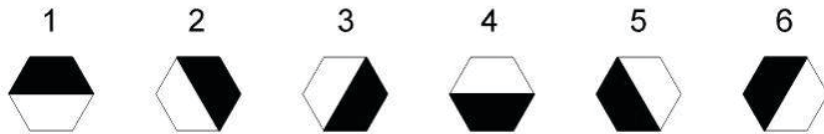
| POSITION | EQUIPMENT RECEPTACLE |            | RACK PLUG  |             |
|----------|----------------------|------------|------------|-------------|
|          | LEFT. KEY            | RIGHT. KEY | LEFT. POST | RIGHT. POST |
| 01       | 1                    | 1          | 1          | 1           |
| 02       | 3                    | 4          | 4          | 5           |
| 03       | 2                    | 4          | 4          | 6           |
| 04       | 1                    | 4          | 4          | 1           |
| 05       | 6                    | 4          | 4          | 2           |
| 06       | 5                    | 4          | 4          | 3           |
| 07       | 4                    | 5          | 3          | 4           |
| 08       | 3                    | 5          | 3          | 5           |
| 09       | 2                    | 5          | 3          | 6           |
| 10       | 1                    | 5          | 3          | 1           |
| 11       | 6                    | 5          | 3          | 2           |
| 12       | 5                    | 5          | 3          | 3           |
| 13       | 4                    | 6          | 2          | 4           |
| 14       | 3                    | 6          | 2          | 5           |
| 15       | 2                    | 6          | 2          | 6           |
| 16       | 1                    | 6          | 2          | 1           |
| 17       | 6                    | 6          | 2          | 2           |
| 18       | 5                    | 6          | 2          | 3           |
| 19       | 4                    | 1          | 1          | 4           |
| 20       | 3                    | 1          | 1          | 5           |
| 21       | 2                    | 1          | 1          | 6           |
| 22       | 4                    | 4          | 4          | 4           |
| 23       | 6                    | 1          | 1          | 2           |
| 24       | 5                    | 1          | 1          | 3           |
| 25       | 4                    | 2          | 6          | 4           |
| 26       | 3                    | 2          | 6          | 5           |
| 27       | 2                    | 2          | 6          | 6           |
| 28       | 1                    | 2          | 6          | 1           |
| 29       | 6                    | 2          | 6          | 2           |
| 30       | 5                    | 2          | 6          | 3           |
| 31       | 4                    | 3          | 5          | 4           |
| 32       | 3                    | 3          | 5          | 5           |
| 33       | 2                    | 3          | 5          | 6           |
| 34       | 1                    | 3          | 5          | 1           |
| 35       | 6                    | 3          | 5          | 2           |
| 36       | 5                    | 3          | 5          | 3           |

NSX-Single Shell Connector

**VERTICAL**



**MATING FACE**



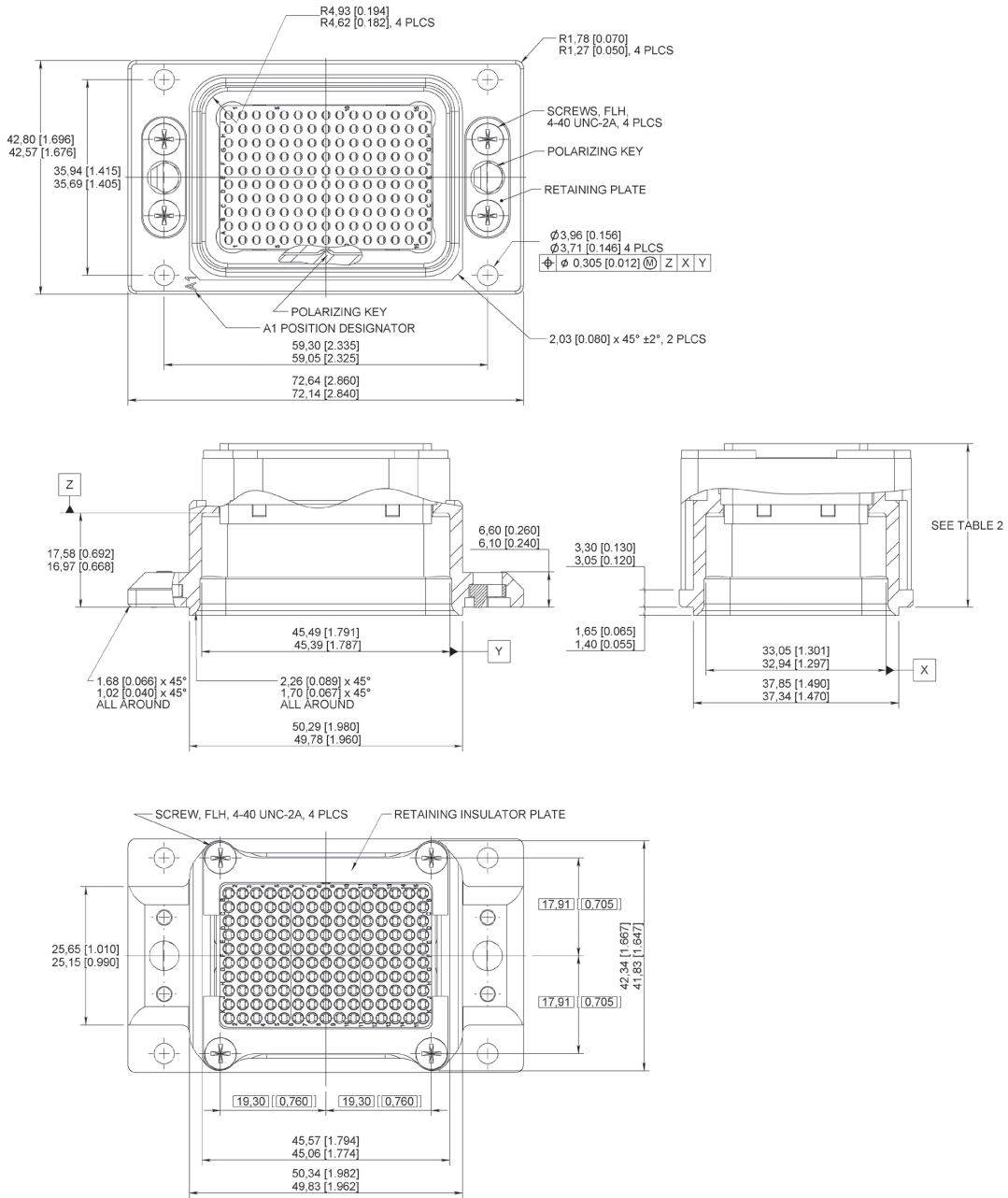
**POSITION OF POST (DARK) AND KEYHOLE (LIGHT)**

| POSITION | EQUIPMENT RECEPTACLE |            | RACK PLUG  |             |
|----------|----------------------|------------|------------|-------------|
|          | LEFT. KEY            | RIGHT. KEY | LEFT. POST | RIGHT. POST |
| 01       | 1                    | 1          | 4          | 4           |
| 02       | 3                    | 4          | 2          | 1           |
| 03       | 2                    | 4          | 3          | 1           |
| 04       | 1                    | 4          | 4          | 1           |
| 05       | 6                    | 4          | 5          | 1           |
| 06       | 5                    | 4          | 6          | 1           |
| 07       | 4                    | 5          | 1          | 6           |
| 08       | 3                    | 5          | 2          | 6           |
| 09       | 2                    | 5          | 3          | 6           |
| 10       | 1                    | 5          | 4          | 6           |
| 11       | 6                    | 5          | 5          | 6           |
| 12       | 5                    | 5          | 6          | 6           |
| 13       | 4                    | 6          | 1          | 5           |
| 14       | 3                    | 6          | 2          | 5           |
| 15       | 2                    | 6          | 3          | 5           |
| 16       | 1                    | 6          | 4          | 5           |
| 17       | 6                    | 6          | 5          | 5           |
| 18       | 5                    | 6          | 6          | 5           |
| 19       | 4                    | 1          | 1          | 4           |
| 20       | 3                    | 1          | 2          | 4           |
| 21       | 2                    | 1          | 3          | 4           |
| 22       | 4                    | 4          | 1          | 1           |
| 23       | 6                    | 1          | 5          | 4           |
| 24       | 5                    | 1          | 6          | 4           |
| 25       | 4                    | 2          | 1          | 3           |
| 26       | 3                    | 2          | 2          | 3           |
| 27       | 2                    | 2          | 3          | 3           |
| 28       | 1                    | 2          | 4          | 3           |
| 29       | 6                    | 2          | 5          | 3           |
| 30       | 5                    | 2          | 6          | 3           |
| 31       | 4                    | 3          | 1          | 2           |
| 32       | 3                    | 3          | 2          | 2           |
| 33       | 2                    | 3          | 3          | 2           |
| 34       | 1                    | 3          | 4          | 2           |
| 35       | 6                    | 3          | 5          | 2           |
| 36       | 5                    | 3          | 6          | 2           |

NSX-Single Shell Connector

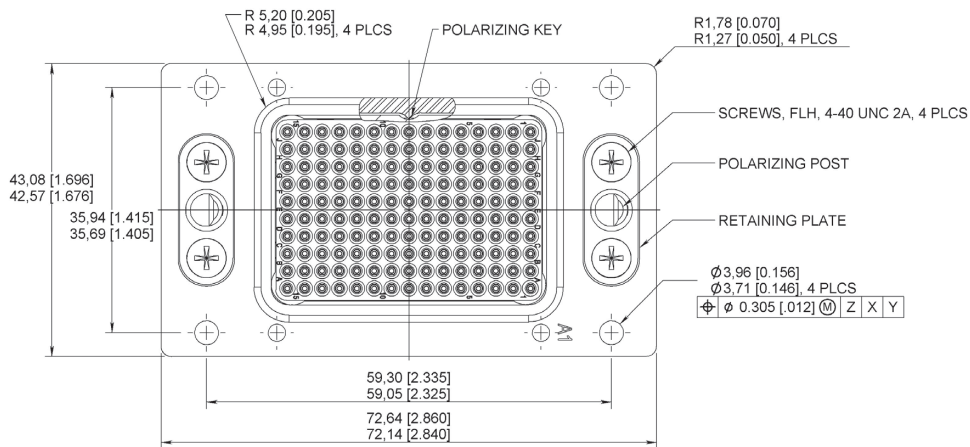
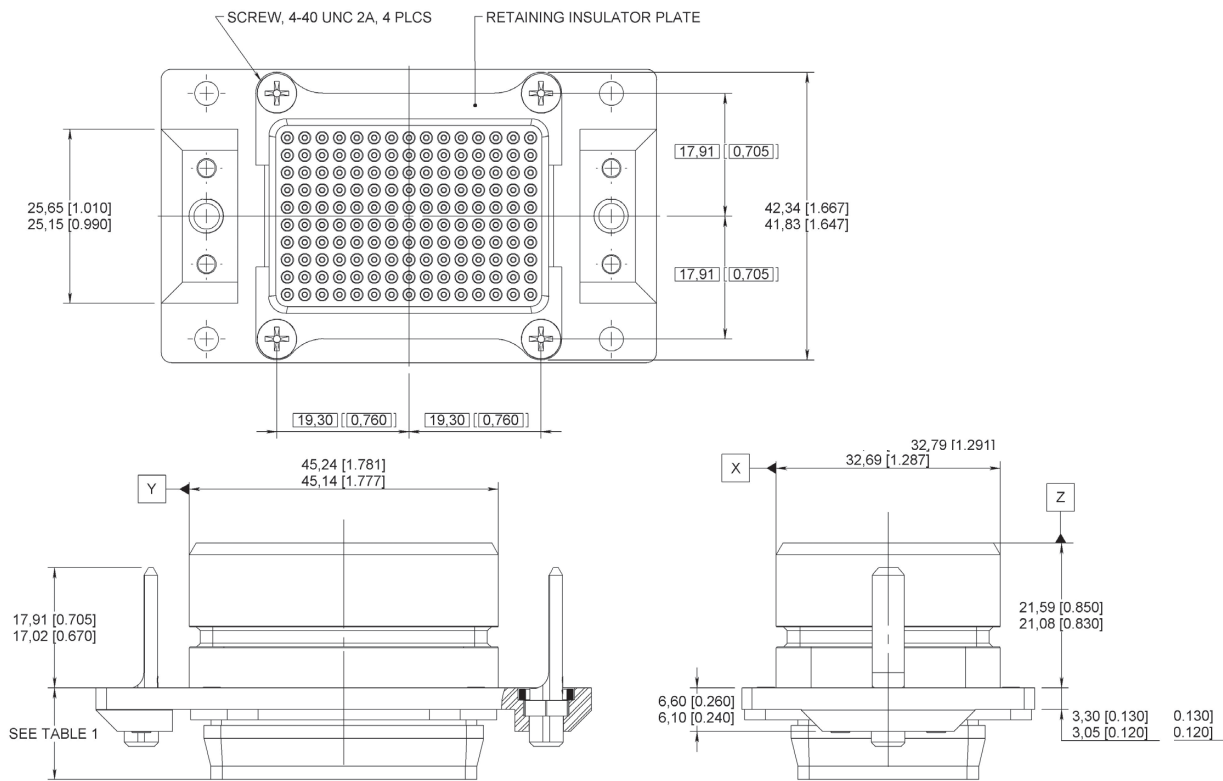
**DIMENSIONS**

**NSX SINGLE SHELL RECEPTACLE DIMENSIONS**



NSX-Single Shell Connector

NSX SINGLE SHELL PLUG DIMENSIONS

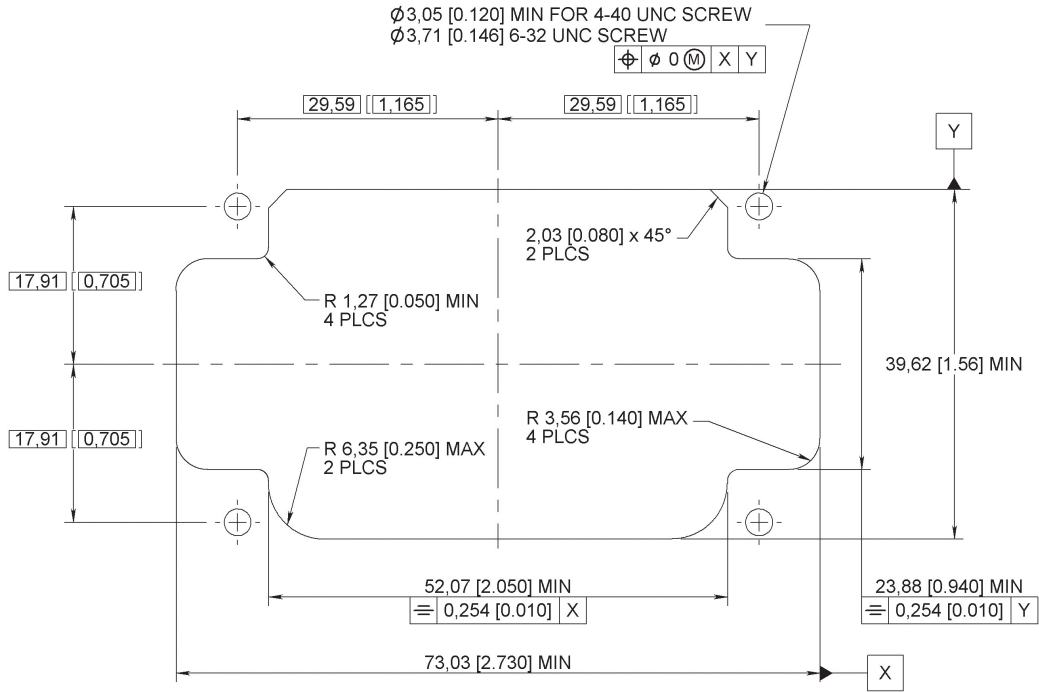




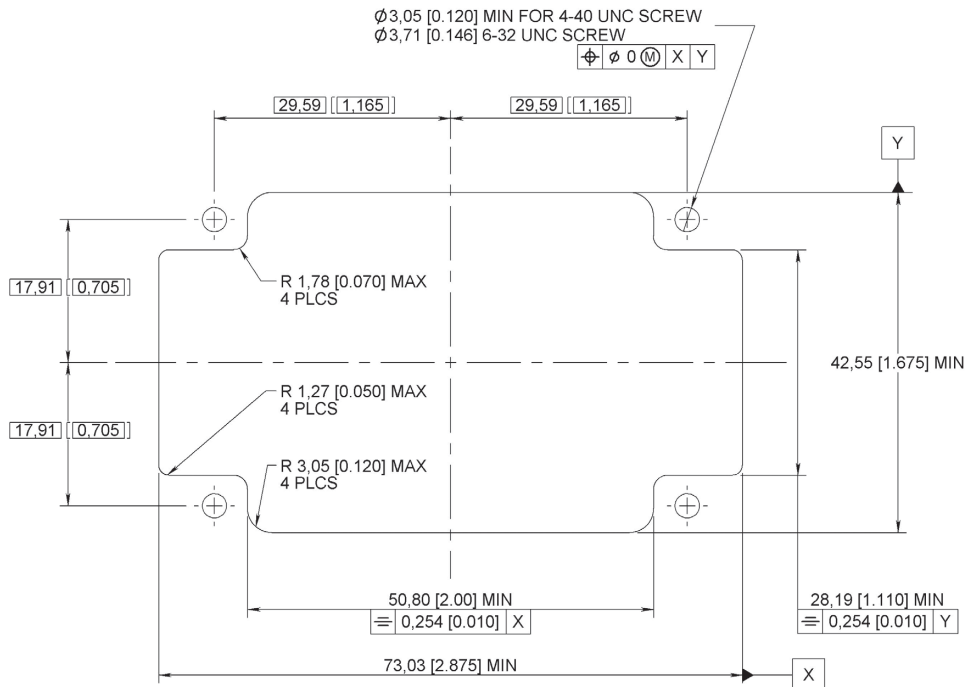
NSX-Single Shell Connector

## NSX SINGLE SHELL PANEL CUT-OUT

### RECEPTACLE



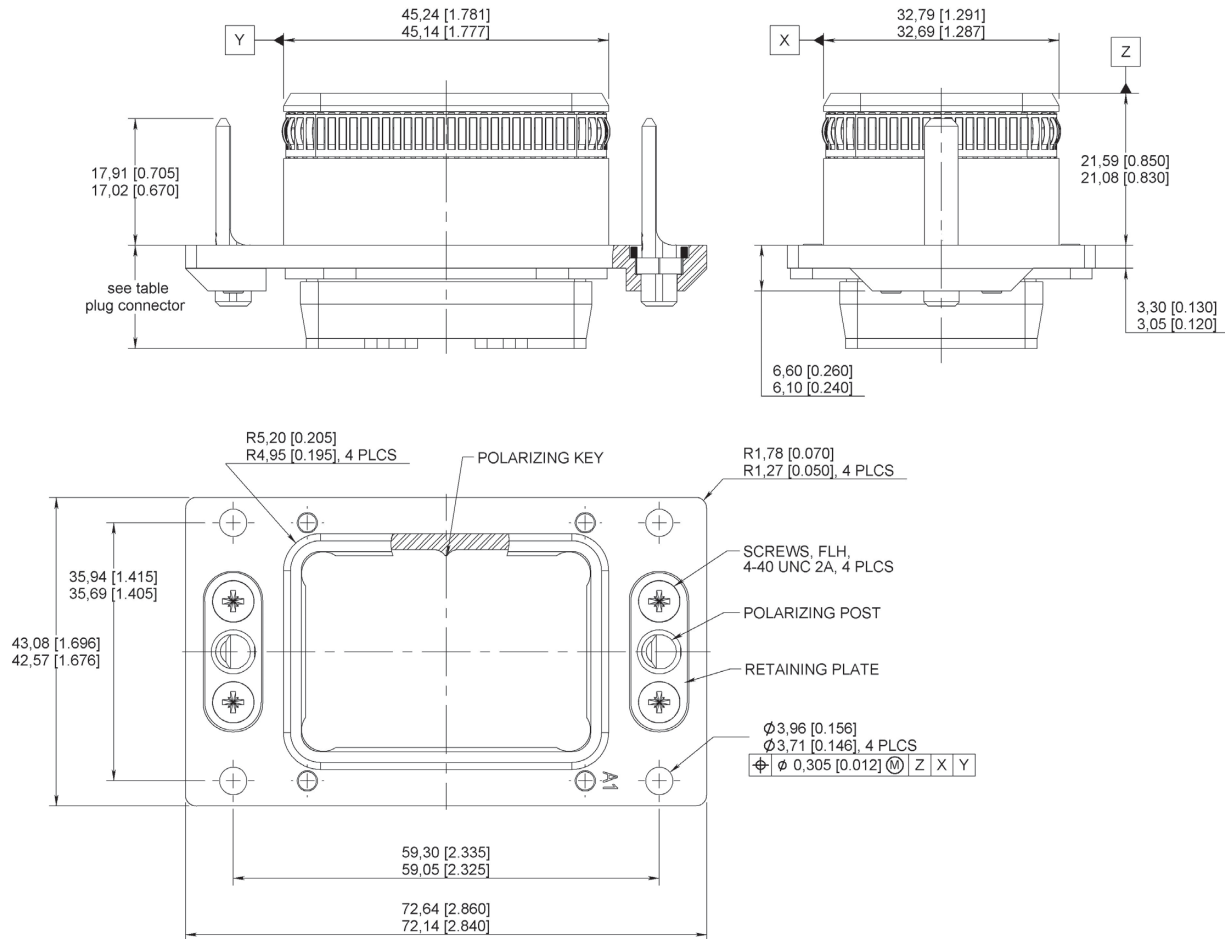
### PLUG



NSX-Single Shell Connector

### EMI/RFI NSX SINGLE SHELL PLUG DIMENSIONS

How to Order - See Page 5-90



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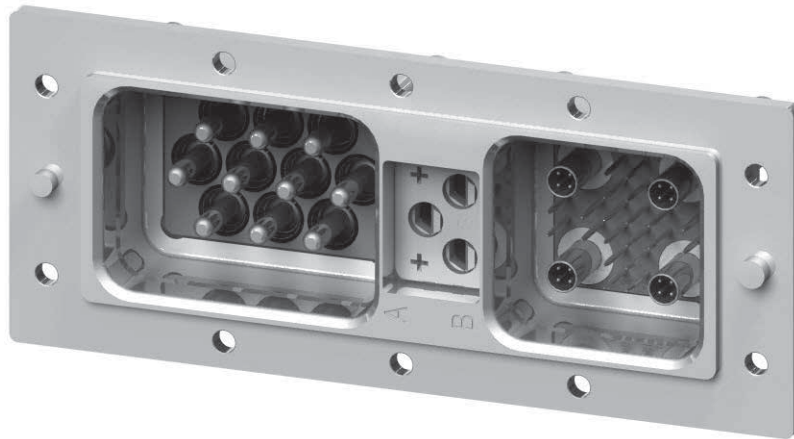
BPX

## INTRODUCTION

BPX series connectors are EMI shielded and modular insert concept rectangular multipin connectors fitted with NSX inserts and contacts.

BPX connectors are differentiated from NSX connectors by their shell sizes available: 1, 2 and 3.

The BPX characteristics are compliant to BOEING S280W551 specification. Their specific characteristics (those which are different from NSX connectors) are as follows:



## CHARACTERISTICS

### ELECTRICAL

BPX electrical characteristics are the same as NSX connectors (see pages 5-5 to 5-7) except the following:

- **Magnetic Permeability:** 2.0 Ohms max

BPX

**MECHANICAL & ENVIRONMENTAL CHARACTERISTICS**

Identical to NSX connectors except the following:

- **Mating and Unmating Forces:**
  - Shell size 1: 70 lb (311 N) max
  - Shell size 2: 140 lb (623 N) max
  - Shell size 3: 130 lb (578 N) max
- **Humidity:** Type II (measured according to method 1002 of MIL-STD-1344A)
- **Fluid Resistance:** Resistance to MIL-STD-1344A method 1016 (fluids a, e, i, j).
- **Contact Stability:** Conforming to S280W551 requirements.

**MATERIALS**

| DESCRIPTION                                 | MATERIAL        | PLATING                                    |
|---|-----------------|--|
| Shell                                       | Aluminum Alloy  | Electrically Conductive Finish Over Nickel |
| Grounding Spring Fingers                    | Copper Alloy    | Nickel                                     |
| Insert Retention Plate                      | Aluminum Alloy  | Nickel                                     |
| Polarization Posts and Keys Retention Plate | Aluminum Alloy  | Nickel                                     |
| Screws, Washers and Clinch Nuts             | Stainless Steel | -  |
| Polarization Posts and Keys                 | Zinc Alloy      | Nickel                                     |

BPX

## HOW TO ORDER CONNECTOR

BPX N/E/F/G CONNECTORS FOR REAR REMOVABLE CONTACTS

**BPX****SERIES PREFIX****CLASS****N:** Non environmental**E:** Environmental**F:** Non-environmental receptacle connectors only for F class receptacle, only size 22 contacts can be delivered in PC Tail version, others contacts (size 20, 16, 12) will be delivered in crimp version. Coaxial, twinax and quadrax contacts shall to be ordered separately.**G:** Non-environmental receptacle connectors only for G class receptacle, every contacts can be delivered in PC Tail or crimp version except size 1 that will be delivered in crimp version only. Coax, twinax and power contacts size shall be ordered separately.**SHELL SIZE****1:** 2 cavities**2:** 4 cavities**3:** 5 cavities**SHELL STYLE****R:** Receptacle**P:** Plug**INSERT COMBINATION CODE**

See insert combination codes on page 5-100

**CONTACT TERMINATION <sup>[1]</sup>**

## WITHOUT CONTACTS

**X:** Without contacts**S:** Crimp contacts

## WIRE WRAP

**K:** Wire wrap contact, 1 level (1 = 0.272)**V:** Wire wrap contact, 2 levels (1 = 0.390)**PC TAIL CONTACTS**

| ROHS | GOLD | PRE-TINNED | LENGTH (IN.) |
|------|------|------------|--------------|
| RA   | YA   | ZA         | 0.150        |
| R    | Y    | Z          | 0.250        |

**MODIFICATION CODE****00:** 4 mounting holes 0.146/0.156 dia**POLARIZATION CODE <sup>[1]</sup>**

See pages 5-31 to 5-33.

**Without code:** polarization hardware is delivered unassembled.**Notes**

1. Polarization code 00, the connector is delivered without polarization hardware. Polarization code 01 to 216, the connector is delivered with the polarization hardware as defined by the code.

BPX

**INSERT COMBINATION CODE IN THE SHELL**

| CODE | INSERT COMBINATION ON SHELL |      |       |     |      |
|------|-----------------------------|------|-------|-----|------|
|      | A                           | B    | C     | D   | E    |
| 101  | 10T10                       | 34   | -     | -   | -    |
| 102  | 10T10                       | 59   | -     | -   | -    |
| 103  | 150                         | 13C2 | -     | -   | -    |
| 201  | 150                         | 100  | 150   | 6T6 | -    |
| 202  | 121                         | 6T6  | 150   | 6T6 | -    |
| 203  | 10T10                       | 100  | 10T10 | 100 | -    |
| 204  | 121                         | 6T6  | 121   | 6T6 | -    |
| 205  | 110                         | 6T6  | 150   | 6T6 | -    |
| 301  | 10T10                       | 4    | 6P6   | 60A | 4    |
| 302  | 10T10                       | 30T2 | 6P6   | 60A | 30T2 |
| 303  | 120T2                       | 4    | 6P6   | 60A | 4    |

**CONTACT**

BPX connectors use NSX signal, power coaxial and concentric twinax contacts (see pages 5-34 to 5-57).

**ACCESSORIES**

**SEALING BOOT**

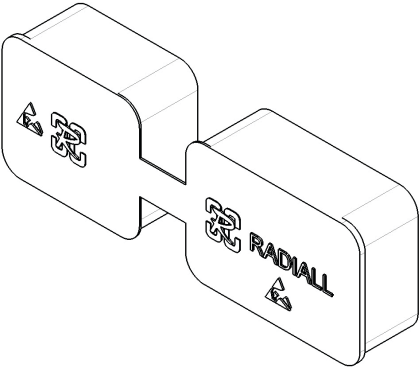
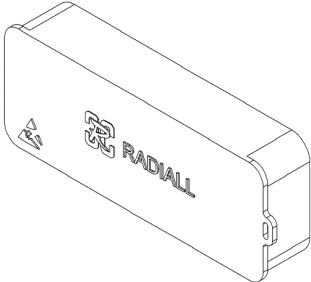
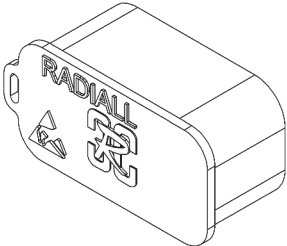
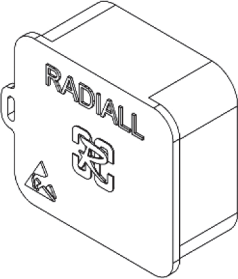
The sealing boots are designed to slide down over the back of crimped contacts after they have been installed in the connector. The assembly provides bend support and moisture sealing to the contact/cable assembly. For BPX connectors size, 8 coaxial and concentric twinax contacts must be fitted with the sealing boot required by S280W552 specification.

|  | WIRE DIA<br>MM (INCH) | WIRE TYPE                 | PART<br>NUMBER | FIGURE |
|--|-----------------------|---------------------------|----------------|--------|
| <b>SEALING BOOT<br/>FOR CAVITY INSERT<br/>SIZE 8</b> | 3.68 (0.145)          | Tensolite<br>(S280W502-1) | 619960005      |        |

BPX

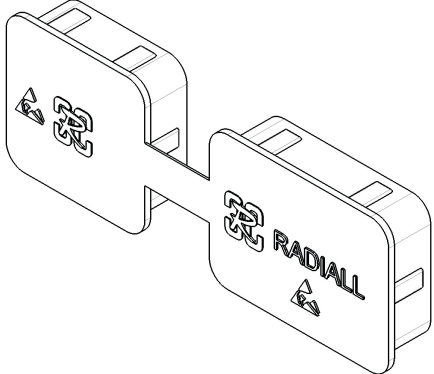
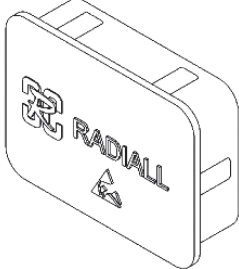
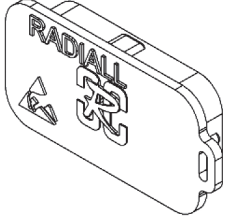
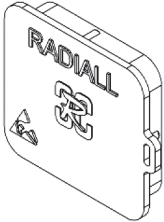
**DUST CAPS**

Dust caps are made of thermoplastic material, they are either conductive (black color) or non-conductive (red color).

| TYPE       | SHELL TYPE | SHELL SIZE | CAVITY             | PART NUMBER | FIGURE  |
|------------|------------|------------|--------------------|-------------|---|
| Conductive | Plug       | 1          | A and B            | 618953002   |     |
|            |            | 2          | A and B<br>C and D |             |   |
|            |            | 3          | A, D               | 620995007   |    |
|            |            |            | B, E               | 620995004   |  |
|            |            |            | C                  | 620995008   |  |

BPX

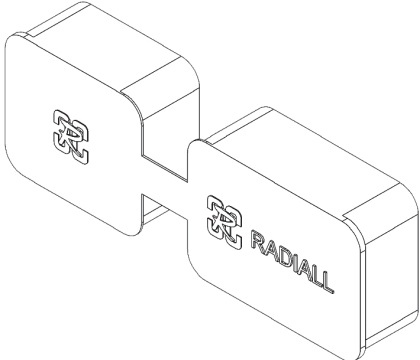
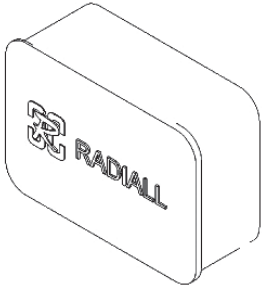
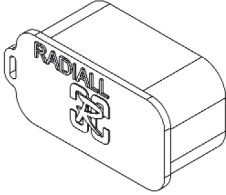
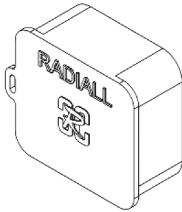
DUST CAPS

| TYPE       | SHELL TYPE | SHELL SIZE | CAVITY  | PART NUMBER | FIGURE  |
|------------|------------|------------|---|-------------|---|
| Conductive | Receptacle | 1          | A and B   | 618953001   |     |
|            |            | 2          | A and B<br>C and D  |             |   |
|            |            | 3          | A, D  | 620995018   |   |
|            |            | 3          | B, E  | 620995012   |  |
|            | C          | 620995016  |  |             |   |



BPX

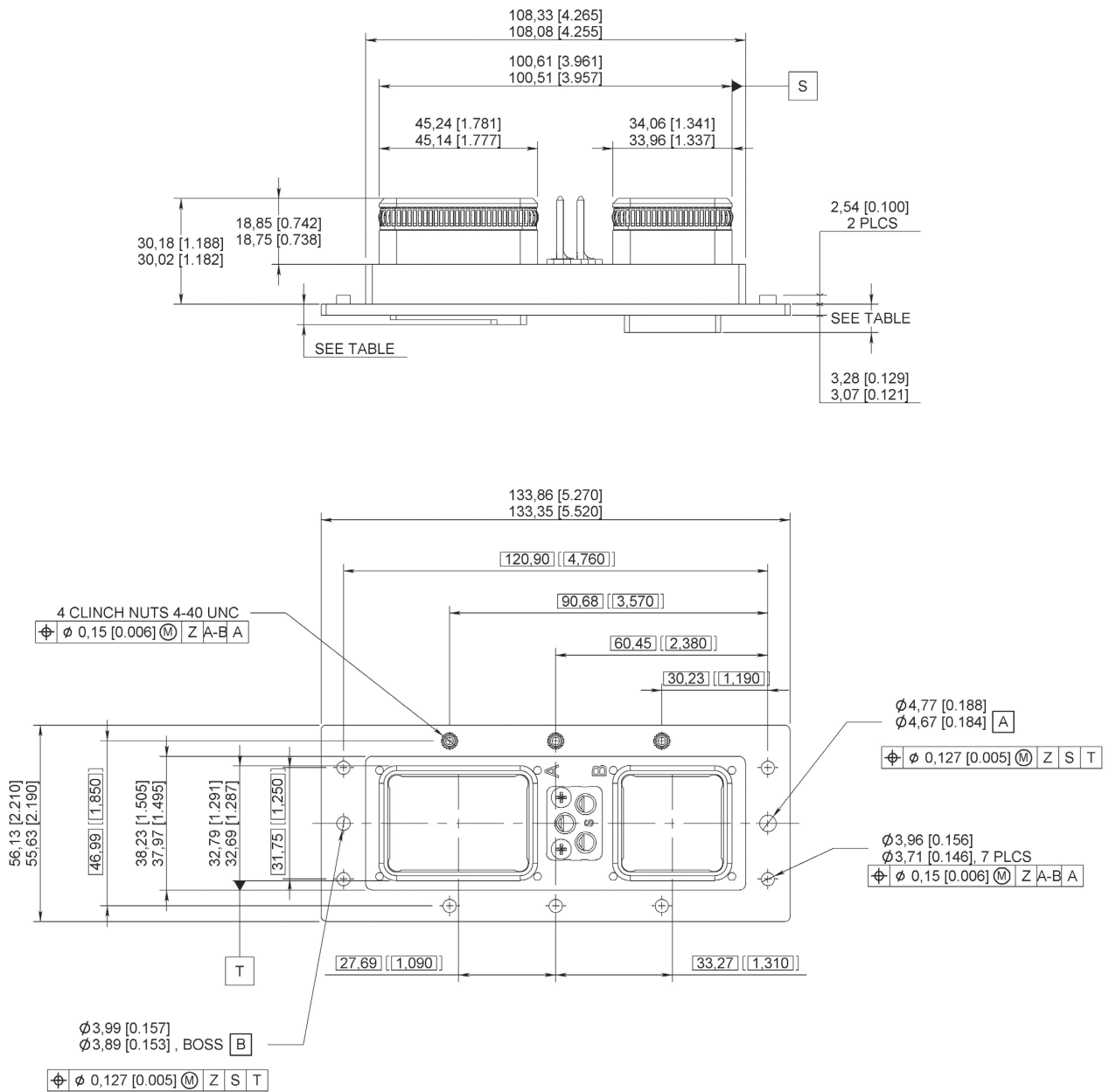
DUST CAPS

| TYPE              | SHELL TYPE | SHELL SIZE | CAVITY             | PART NUMBER | FIGURE  |
|-------------------|------------|------------|--------------------|-------------|---|
| Non<br>Conductive | Plug       | 1          | A and B            | 618953      |     |
|                   |            | 2          | A and B<br>C and D |             |   |
|                   |            | 3          | A, D               | 620995017   |   |
|                   |            | 3          | B, E               | 620995002   |  |
|                   |            | 3          | C                  | 620995006   |  |

BPX

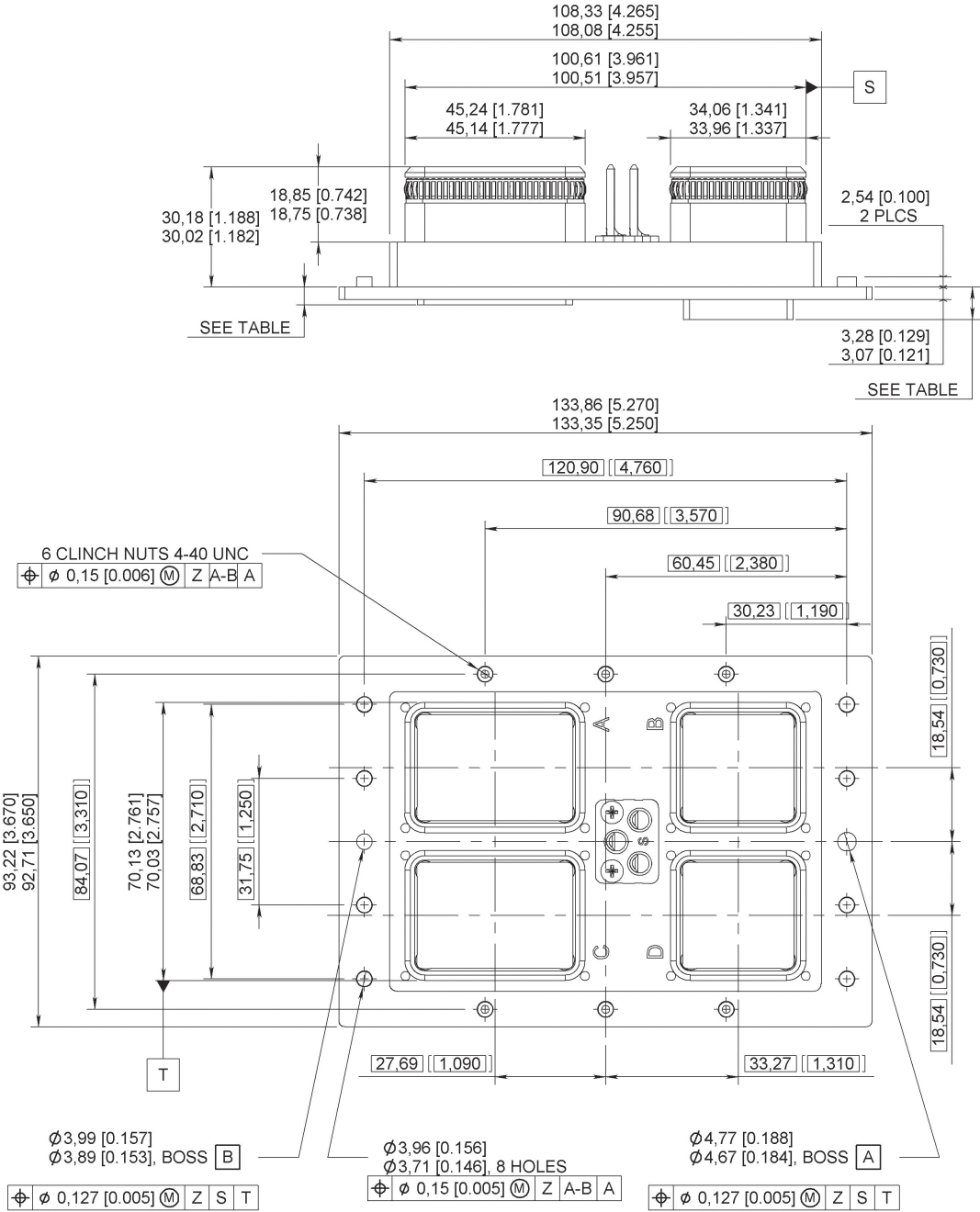
## DIMENSIONS

### SIZE 1 PLUG DIMENSIONS



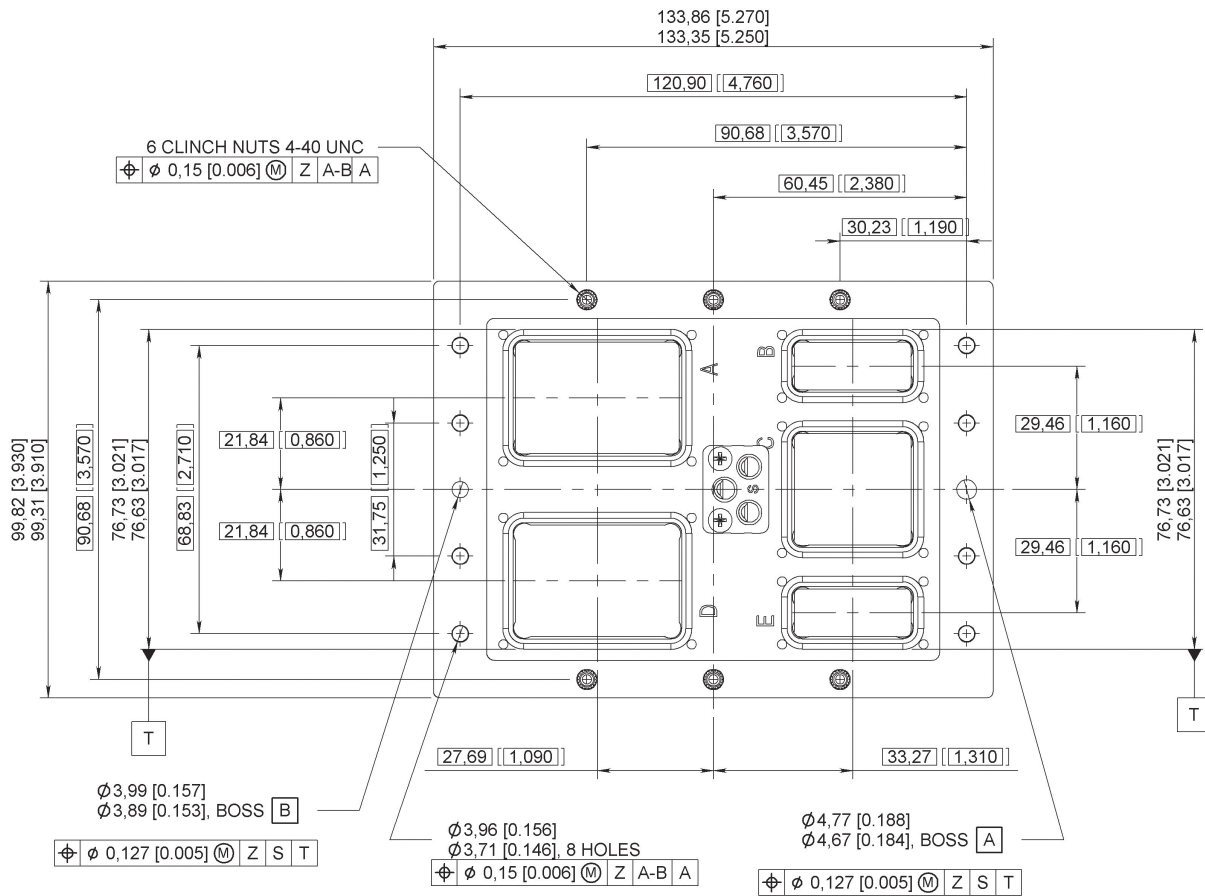
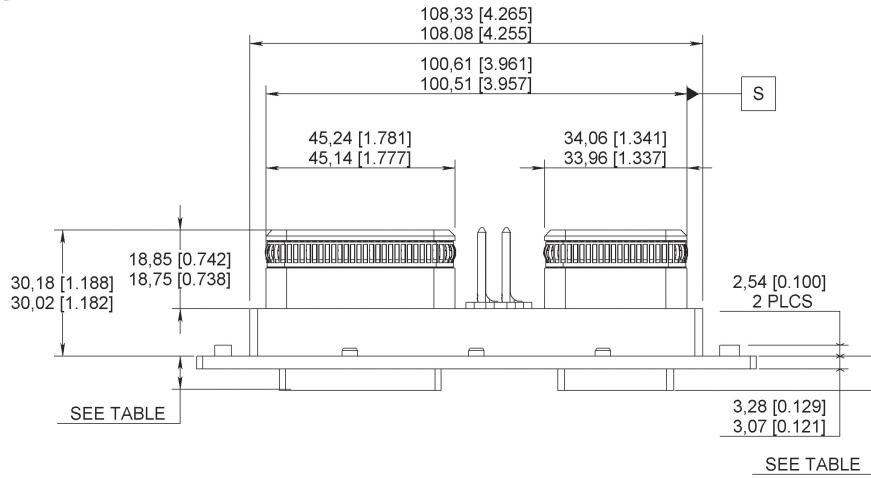
BPX

SIZE 2 PLUG DIMENSIONS



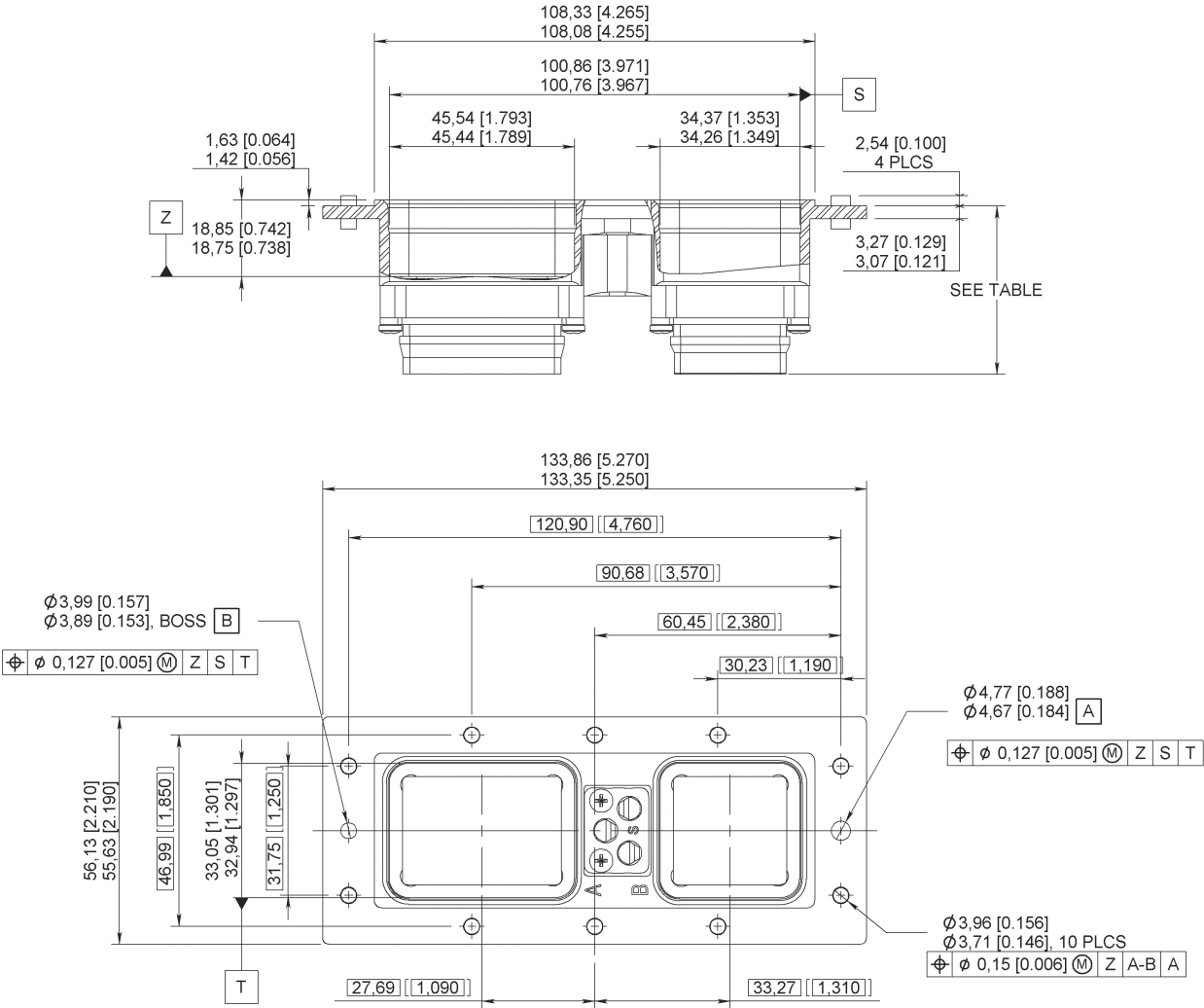
BPX

SIZE 3 PLUG DIMENSIONS



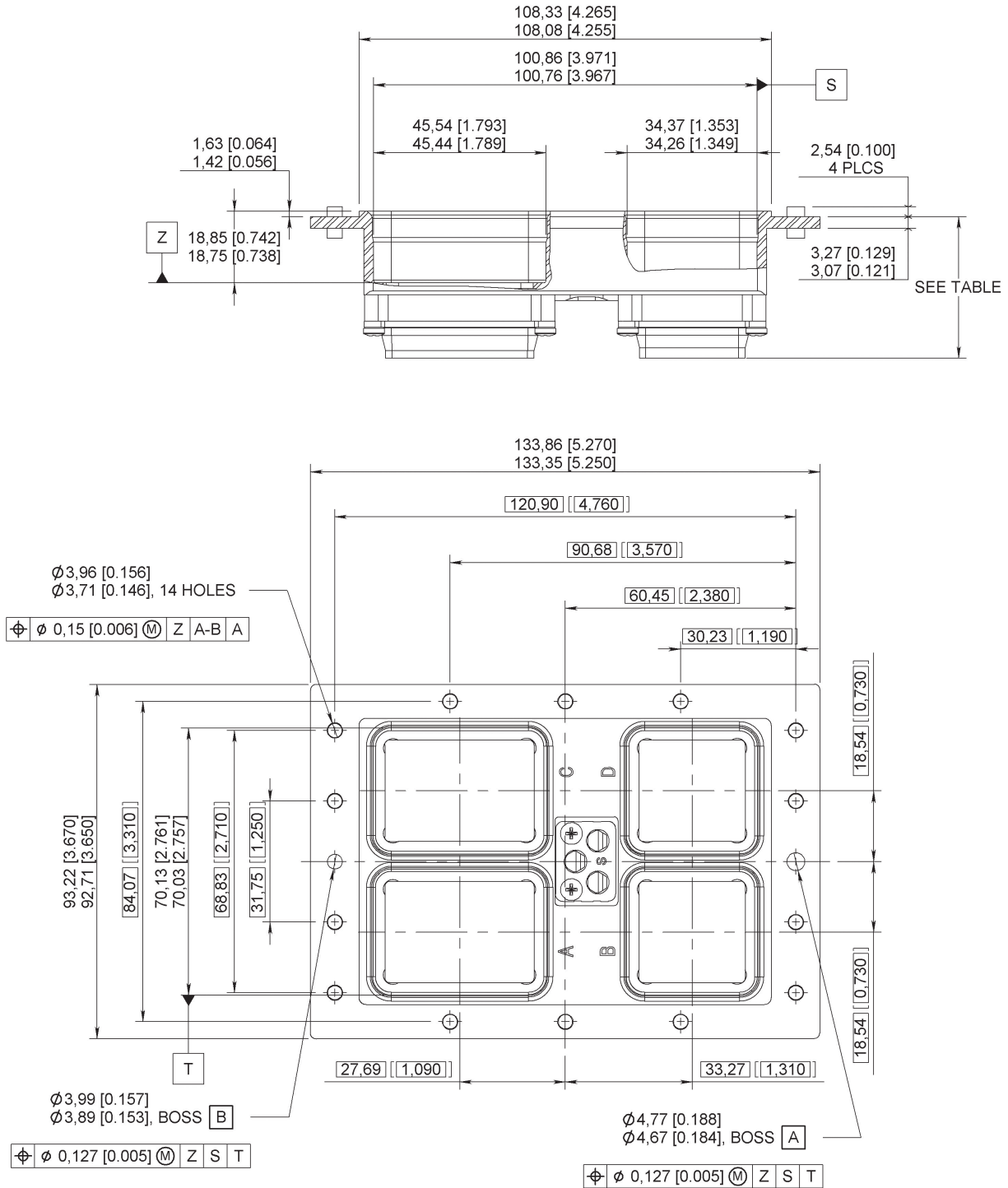
BPX

SIZE 1 RECEPTACLE DIMENSIONS



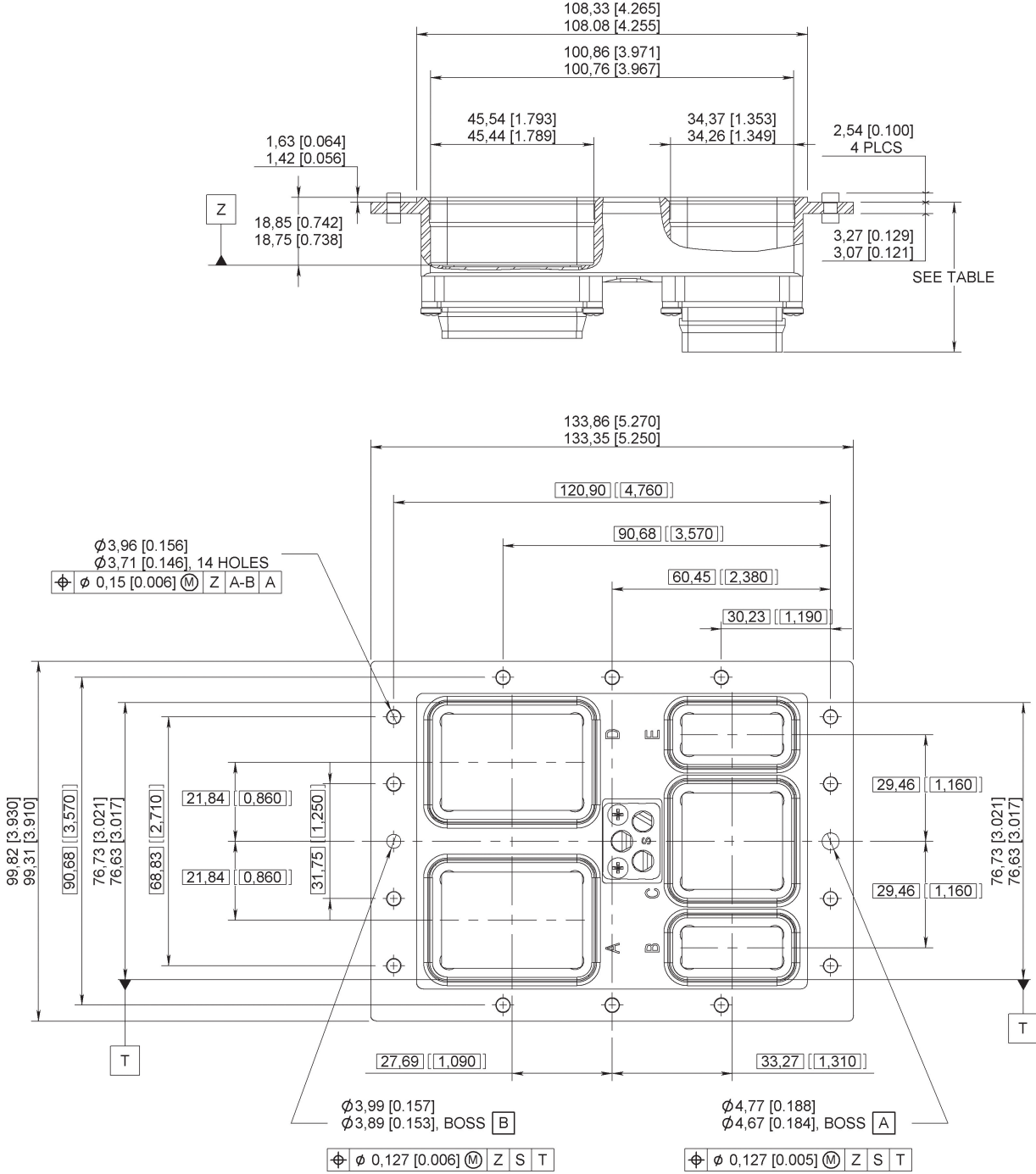
BPX

SIZE 2 RECEPTACLE DIMENSIONS



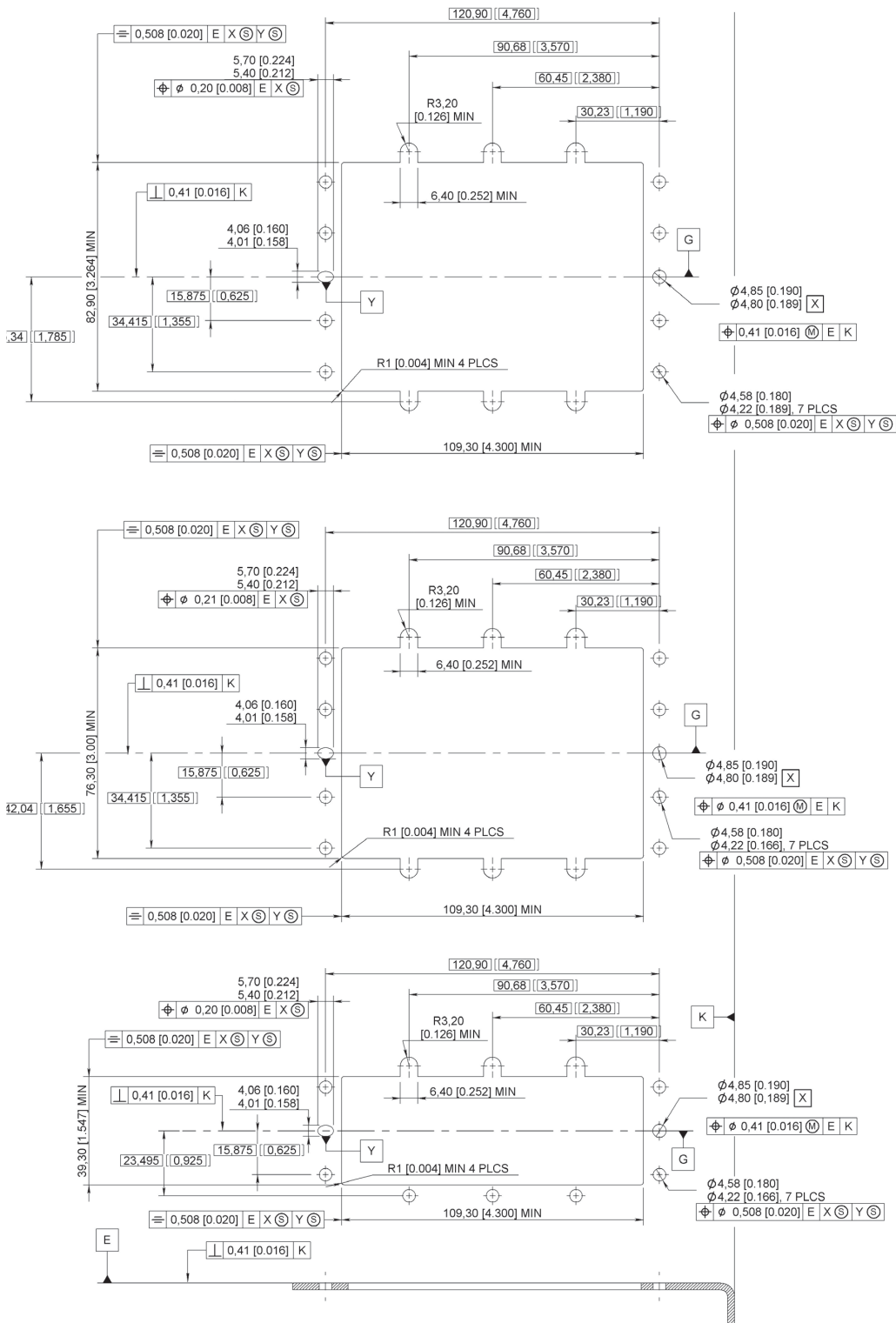
BPX

SIZE 3 RECEPTACLE DIMENSIONS



BPX

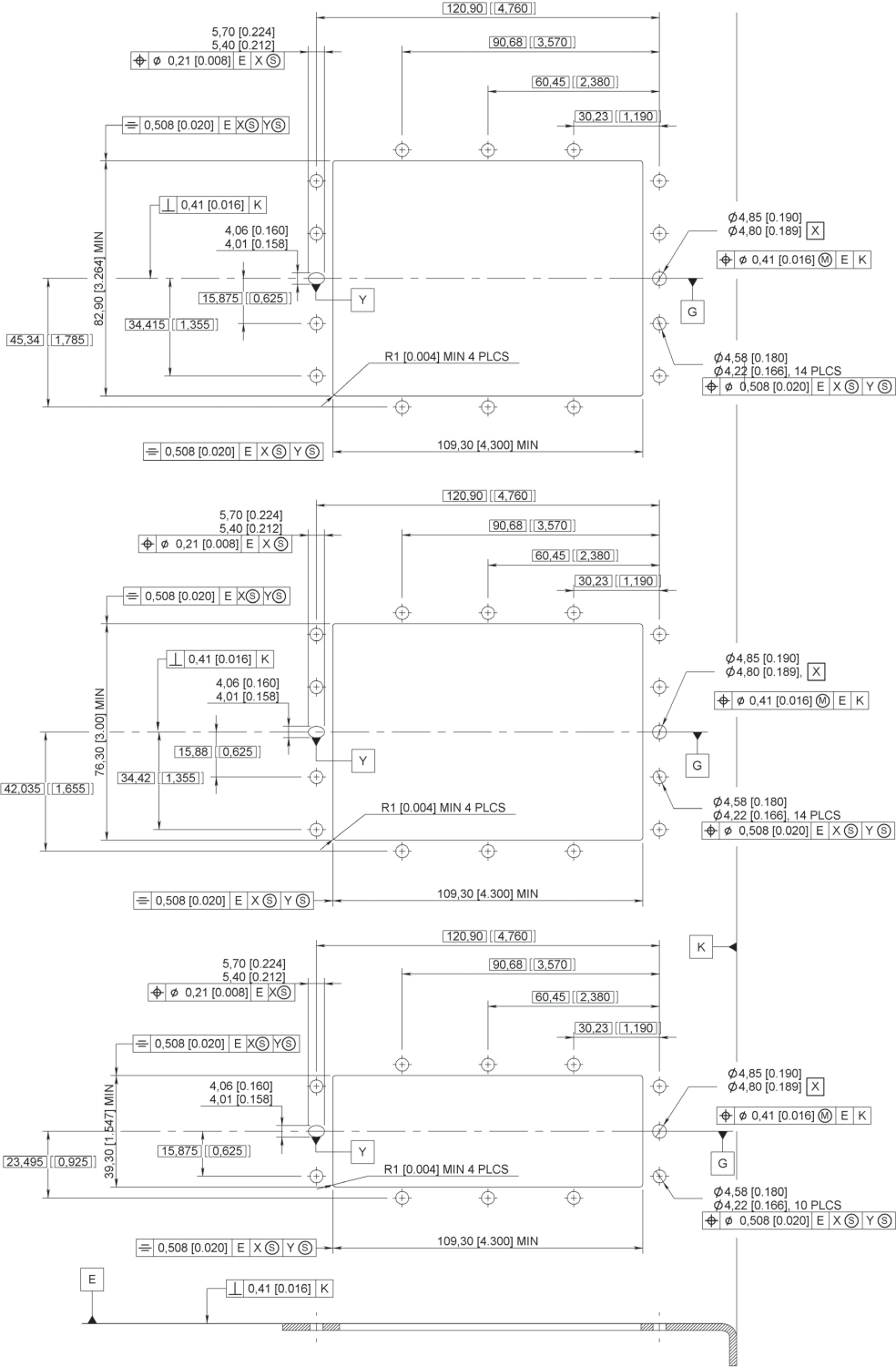
## PANEL CUT-OUT FOR PLUG





BPX

FOR RECEPTACLE



Notes