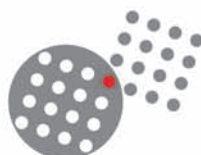




# Arinc 600 series



**SOURIAU**  
Connection Technology

# Arinc 600 series



## SOURIAU

### Connectors and interconnect systems for severe environments

The company designs, manufactures and markets high performance interconnect solutions for severe environments from industrial broadline and universal ranges to complex system with integrated functions: filtering, high speed data transmission, hermetic seal, separation mechanism, remote handling, underwater mating, ...



Industrial



Aeronautical



Equipment & System

The dedicated end markets for SOURIAU's products are aeronautical, defense-space and industrial.



Railway  
Geophysics  
Manufacturing environment  
Instrumentation  
Automation & process



Civil & military aircraft  
Helicopter  
Weapon delivery system  
Avionics



Military marine  
Communications  
Satellites  
Launcher & missile

SOURIAU was established in 1917 and has been created by successive acquisitions of the industrial, aeronautical, defense and space activities of SOURIAU, JUPITER and BURNDY.

The Group's products are engineered and manufactured in the USA and Dominican Republic, Europe and Morocco, Japan and India, and sold by a worldwide sales and marketing organization, and in addition to SOURIAU's offices, a large network of licensed distributors and agents.

SOURIAU complies with most of national and international Quality Assurance Standards, production unit with ISO 14001.

Quality Certificate  
Management System

ISO 9001

Environment Certificate  
Management System

ISO 14001

Quality Certificate  
Management System

Aeronautic Industry : EN 9100

# Arinc 600 series



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**Discover Arinc 600**

**Range Overview**

**Technical Datas**

**Range Extension**



# Arinc 600 series



## Applications



# Arinc 600 series



## Benefits

### Rackable solution

- ▶ Blind mate, Clearance device for better rackability
- ▶ Low insertion force

### Modular solution

- ▶ Wide range of insulators and type of contacts: signal, power, coax, triax, twinax, Elio® fiber optic

### Repairable solution

- ▶ Front and rear release removable contacts, flex circuit integration and cabling

### High density solution

- ▶ Up to 800 #22 signal contacts
- ▶ Up to 56 #8 quadrax contacts

### Configurable solution

- ▶ Build your own connector matching your exact needs

### Many options available

- ▶ EMI RFI shielding solution
- ▶ Nickel and alodine plating
- ▶ 100A power capability
- ▶ Fixing type
- ▶ Grounding
- ▶ Filtering

## Arinc Speed Service

For high speed data transmission & standard needs

- . Plug & Receptacle size 2 & 3
- . Nickel & Alodine plating shells
- . Standard & High Speed inserts  
50 pts / 100 pts / 121 pts / 28 pts / 11C2 / C4Q11 / 11Q2 / 20Q4 / 68Q2 / 62Q2 / 118Q2
- . Coax / Quadrax / Elio® Fiber Optic contacts

2

Weeks Quote & Drawings

6

Weeks Prototypes Delivery\*  
\* max 5 pieces

10

Weeks Series Delivery\*\*  
\*\* max 50 pieces

**SOURIAU  
COMMITMENT**

Consult us:  
contactmilaero@souriau.com



# Arinc 600 series



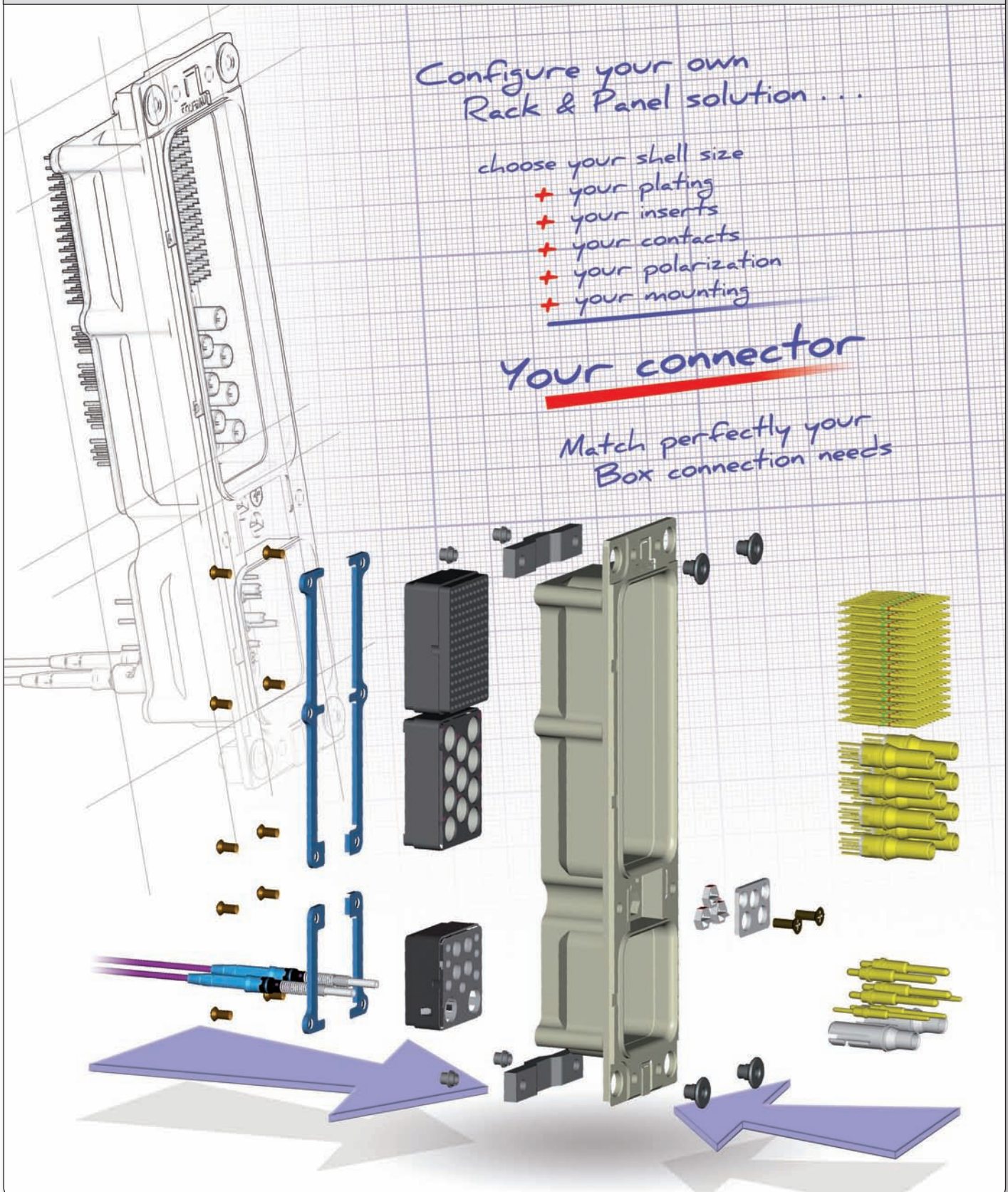
## Product Overview

Configure your own  
Rack & Panel solution ...

- choose your shell size
- + your plating
- + your inserts
- + your contacts
- + your polarization
- + your mounting

Your connector

Match perfectly your  
Box connection needs

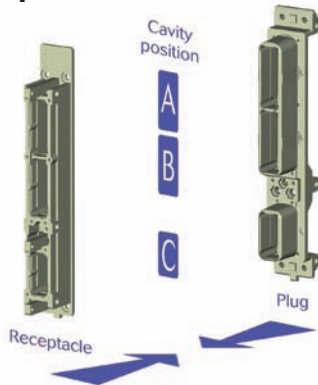


# Arinc 600 series

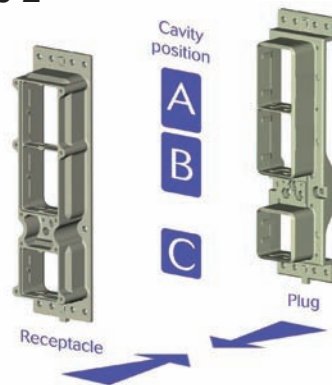


## Cavity Overview

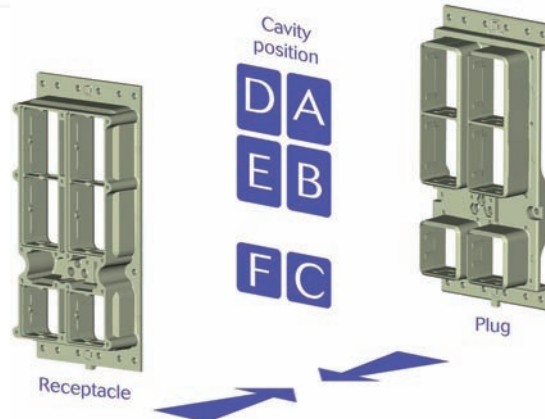
### Shell Size 1



### Shell Size 2

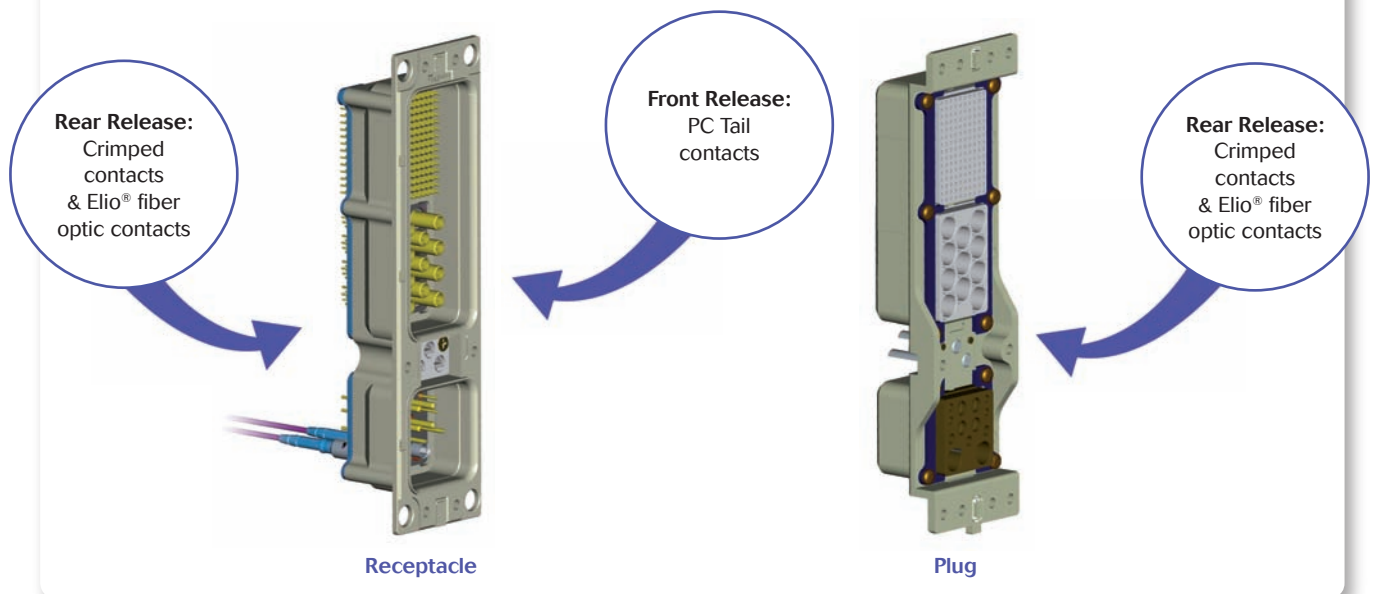


### Shell Size 3



## Contacts Release

Possibility to mix rear & front release inserts within the same connector.





# Arinc 600 series



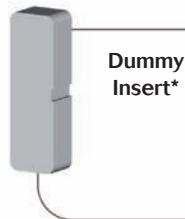
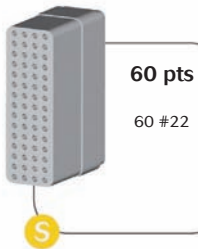
## Layouts

Contact type:

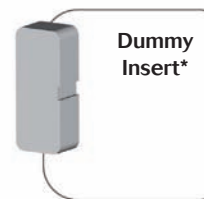
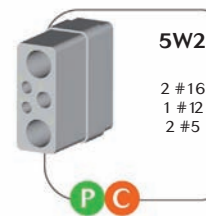
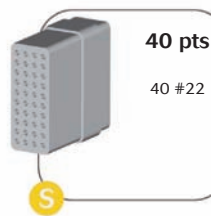
S Signal  
 P Power  
 C Coax  
 T Triax  
 Q Quadrax  
 E Elio® Fiber Optic

### Shell Size 1

#### Cavity A & B

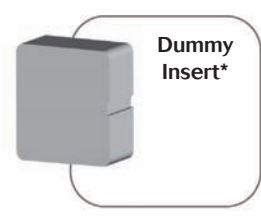
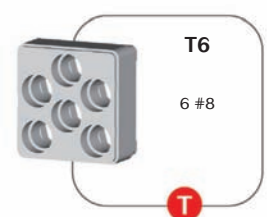
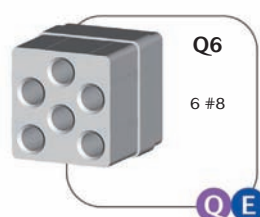
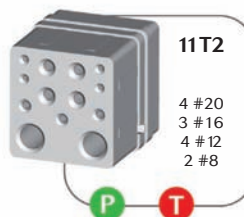
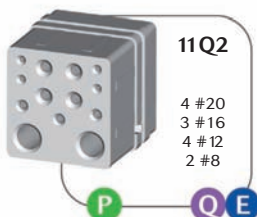
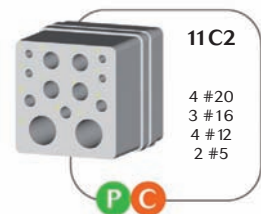
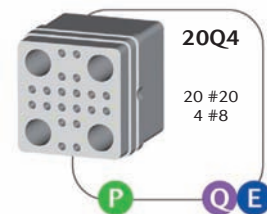
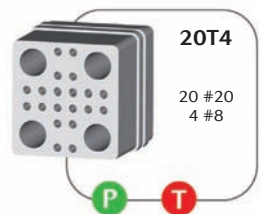
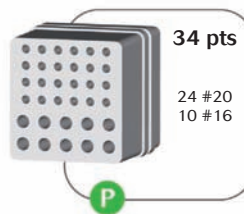
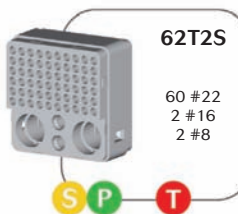
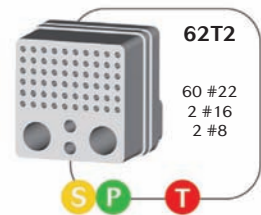
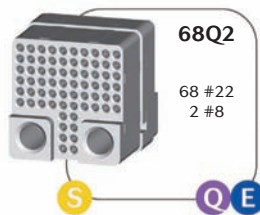
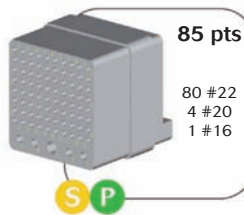
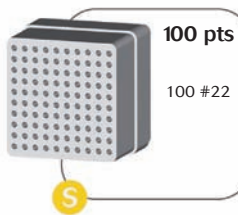


#### Cavity C



### Shell Size 2 & 3

#### Cavity C & F



\* See table page 28



# Arinc 600 series



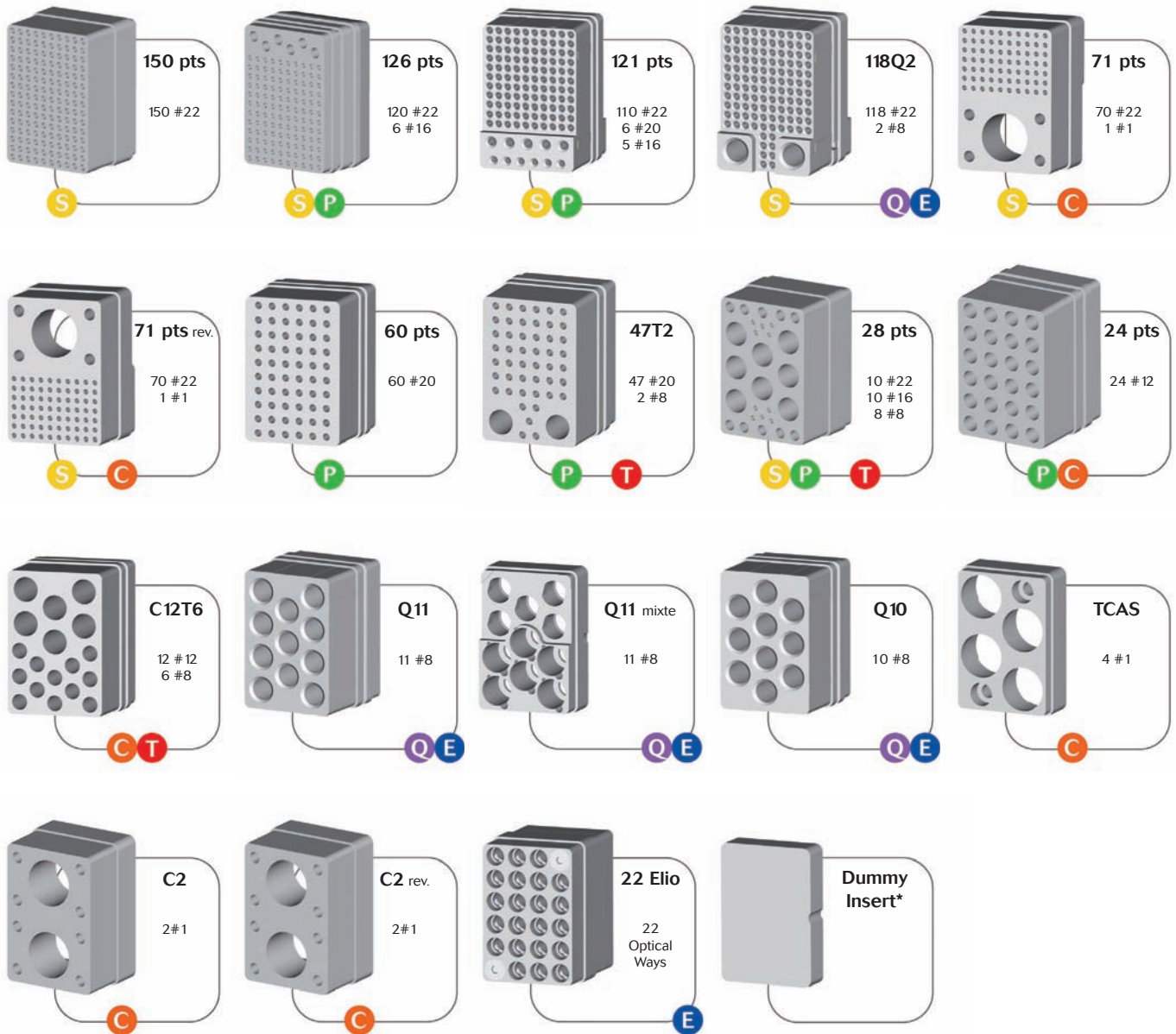
## Layouts

Contact type:

S Signal  
 P Power  
 C Coax  
 T Triax  
 Q Quadrax  
 E Elio® Fiber Optic

### Shell Size 2 & 3

#### Cavity A, B, D & E



\* See table page 28

# Arinc 600 series



## Layouts

S Signal   
 P Power   
 C Coax   
 T Triax   
 Q Quadrax   
 E Elio® Fiber Optic

| Insert                     | Shell size | Cavity     | Contacts type | Number of cavities |     |     |     |    |    |    |
|----------------------------|------------|------------|---------------|--------------------|-----|-----|-----|----|----|----|
|                            |            |            |               | #22                | #20 | #16 | #12 | #8 | #5 | #1 |
| 60 pts                     | 1          | A, B       | S             | 60                 |     |     |     |    |    |    |
| 40 pts                     |            | C          | S             | 40                 |     |     |     |    |    |    |
| 5W2                        |            |            | P C           |                    |     | 2   | 1   |    | 2  |    |
| 150 pts                    | 2 & 3      | A, B, D, E | S             | 150                |     |     |     |    |    |    |
| 126 pts                    |            |            | S P           | 120                |     | 6   |     |    |    |    |
| 121 pts                    |            |            | S P           | 110                | 6   | 5   |     |    |    |    |
| 118Q2                      |            |            | S Q           | 118                |     |     |     | 2  |    |    |
| 71 pts                     |            |            | S C           | 70                 |     |     |     |    |    | 1  |
| 71 pts rev.                |            |            | S C           | 70                 |     |     |     |    |    | 1  |
| 60 pts                     |            |            | P             |                    |     | 60  |     |    |    |    |
| 47T2                       |            |            | P T           |                    |     | 47  |     |    | 2  |    |
| 28 pts <sup>(1)</sup>      |            |            | S P T         | 10                 |     | 10  |     |    | 8  |    |
| 24 pts                     |            |            | P             |                    |     |     |     | 24 |    |    |
| C12T6                      |            |            | C T           |                    |     |     |     | 12 | 6  |    |
| Q11                        |            |            | Q             |                    |     |     |     |    | 11 |    |
| Q11 mixte <sup>(2)</sup>   |            |            | Q             |                    |     |     |     |    | 11 |    |
| Q10                        |            |            | Q             |                    |     |     |     |    | 10 |    |
| TCAS                       |            |            | C             |                    |     |     |     |    |    | 4  |
| C2                         |            | C          |               |                    |     |     |     |    | 2  |    |
| C2 rev.                    |            | C          |               |                    |     |     |     |    | 2  |    |
| 100 pts                    |            | C, F       | S             | S                  | 100 |     |     |    |    |    |
| 85 pts <sup>(3)</sup>      |            |            |               | S P                | 80  | 4   | 1   |    |    |    |
| 68Q2                       |            |            |               | S Q                | 68  |     |     |    | 2  |    |
| 62Q2                       |            |            |               | S P Q              | 60  |     | 2   |    | 2  |    |
| 62T2                       |            |            |               | S P T              | 60  |     | 2   |    | 2  |    |
| 62T2S mixte <sup>(4)</sup> |            |            |               | S P T              | 60  |     | 2   |    | 2  |    |
| 34 pts                     |            |            | P             |                    |     | 24  | 10  |    |    |    |
| 20T4                       |            |            | P T           |                    |     | 20  |     |    | 4  |    |
| 20Q4                       |            |            | P Q           |                    |     | 20  |     |    | 4  |    |
| 11C2                       |            |            | P C           |                    |     | 4   | 3   | 4  |    | 2  |
| 11Q2                       | P Q        |            |               |                    | 4   | 3   | 4   | 2  |    |    |
| 11T2                       | P T        |            |               |                    | 4   | 3   | 4   | 2  |    |    |
| Q6                         | Q          |            |               |                    |     |     | 6   |    |    |    |
| T6                         | T          |            |               |                    |     |     | 6   |    |    |    |

<sup>(1)</sup> Triax #8 & #16 cavities (859) specifics

<sup>(3)</sup> #20 and #16 always rear release

<sup>(2)</sup> 5 rear & 6 front or 6 rear & 5 front

<sup>(4)</sup> Triax rear and other contacts front release

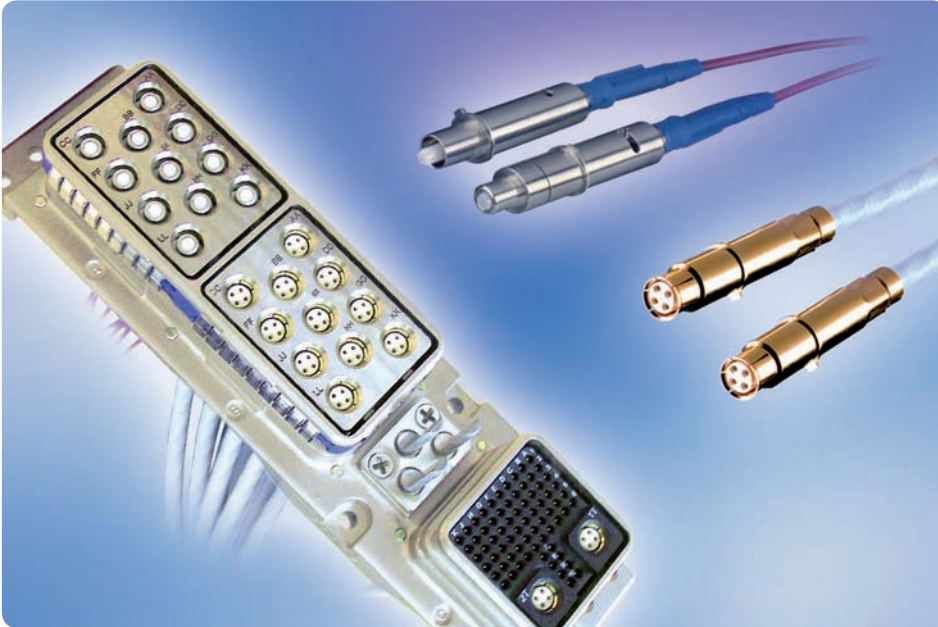
### Version for quadrax #8 cavity and Elio® #8 adaptor

| Insert name | Shell size | Cavity     | Contacts type | Number of cavities |     |     |     |                           |    |    |
|-------------|------------|------------|---------------|--------------------|-----|-----|-----|---------------------------|----|----|
|             |            |            |               | #22                | #20 | #16 | #12 | Quadrax #8 or Optical way | #5 | #1 |
| 118Q2       | 2 & 3      | A, B, D, E | S Q E         | 118                |     |     |     | 2                         |    |    |
| Q11         |            |            | Q E           |                    |     |     | 11  |                           |    |    |
| Q10         |            |            | Q E           |                    |     |     | 10  |                           |    |    |
| 68Q2        |            | C, F       | S Q E         | 68                 |     |     |     | 2                         |    |    |
| 62Q2        |            |            | S P Q E       | 60                 |     | 2   |     | 2                         |    |    |
| 20Q4        |            |            | P Q E         |                    | 20  |     |     | 4                         |    |    |
| 11Q2        |            |            | P Q E         |                    | 4   | 3   | 4   | 2                         |    |    |
| Q6          |            |            | Q E           |                    |     |     |     | 6                         |    |    |

### Version for Elio® high density

| Insert name | Shell size | Cavity     | Contacts type | Number of cavities |     |     |     |             |    |    |
|-------------|------------|------------|---------------|--------------------|-----|-----|-----|-------------|----|----|
|             |            |            |               | #22                | #20 | #16 | #12 | Optical way | #5 | #1 |
| 22 Elio     | 2 & 3      | A, B, D, E | E             |                    |     |     |     | 22          |    |    |

# Arinc 600 series



## Description

- High performance avionic equipment rectangular connectors compliant to ARINC 600 specifications
- Rack and panel connector
- High density up to 800 signal contacts
- Low insertion force contact design (tapered pin, LIF socket)
- Sealed and unsealed versions
- Multiple polarizing positions
- Field replaceable inserts, featuring .006 in true position of contact cavities
- Choice of front and rear removable contacts
- Contacts : signal, power, coaxial, triaxial, filter, optical fiber and waveguide connection contacts
- Wide range of high performance rack applications

## Applications

- Mechanical, electrical and optical interface between on-board civil avionics equipments and racks.

## Technical features

### Mechanical

|                    | Material                                     | Plating  |
|--------------------|--|--|
| Shells             | Aluminum alloy to QQ-A-591                   | Alodine 1200 passivation to MIL-C 5541 class 1               |
|                    | Nickel plating                               |  |
| Insulator          | Epoxy resin thermoset                        |  |
|                    | Thermoplastic                                |  |
| Seals and grommets | Fluorinated silicon compliant to MIL-R-25988 |  |
| Contacts           | Copper alloy to QQ-B-626                     | Gold plated compliant to MIL-G-45204 over nickel to QQ-N-290 |

- Endurance: 500 matings
- Insertion and extraction forces max:
  - . Shell size 1: 120N (27 lbs)
  - . Shell size 2: 267N (60 lbs)
  - . Shell size 3: 467N (105 lbs)
- Vibration: 8 hours in each axis. Random vibration at 16.4 g Rms from 50 to 2000 Hz MIL-STD-1344 A method 2005-1
- Dynamic shock: 3 impacts of 50 g in all axis, duration 11µs (half wave) to MIL-STD-202 method 213

### Electrical

- Dielectric withstanding voltage

|           | Mated      | Unmated    |
|-----------|------------|------------|
| Sea level | 1 500 Vrms | 1 500 Vrms |
| 15 000 m  | 500 Vrms   | 500 Vrms   |

- Voltage rating:
  - . 500 Vac Max
  - . 125 Vac at 21 000 m
- Insulation resistance:  $\geq 5000 \text{ M}\Omega$
- Current ratings, continuous:

| Contact | Wire gauge | Current (A) | Voltage drop max (mV)* |
|---------|------------|-------------|------------------------|
| 22      | 22         | 5           | 40                     |
|         | 24         | 3           | 30                     |
|         | 26         | 2           | 25                     |
| 20      | 20         | 7.5         | 55                     |
|         | 22         | 3           | 40                     |
|         | 24         | 5           | 30                     |
| 16      | 16         | 13          | 50                     |
| 12      | 12         | 23          | 45                     |

\* measured over a conductor length of 150 mm

- Triaxial contact size 8
  - Bandwidth: 0-20 MHz
  - Voltage rating:
    - . 500 Vac max
    - . 125 Vac at 21 000 m
  - Voltage drop:
    - . Inner and middle contact  $\leq 55 \text{ mV}$  under 1A
    - . Outer contact  $\leq 75 \text{ mV}$  under 12A
- Quadrax contact size 8
  - Contact resistance (low level): initial 15 MΩ, after tests 30 MΩ
  - Voltage rating:
    - . 500 Vac max
    - . 125 Vac at 21 000 m

Insulation resistance:

- . at ambient temperature  $> 5000 \text{ M}\Omega$
- . at high temperature  $> 1000 \text{ M}\Omega$
- Characteristic impedance: 100Ω at 100MHz
- Attenuation  $< 0.3 \text{ dB}$  at 100 MHz typical per contact pair
- Contact to shell continuity  $< 10 \text{ M}\Omega$

### Optical Elio® Contact

- Arinc 600 connector can integrate Elio® fiber optic contacts in #8 quadrax cavities with the addition of Elio #8 adaptor
- Insertion loss: 0.3 dB per contact
- Possibility to mix optical and electrical signals in the same insert
- Flight proven at temperature range  $-65^\circ\text{C}$  to  $+125^\circ\text{C}$
- Designed to comply with Elio® contact optical performances

### Climatic

- Temperature rating:  $-65^\circ\text{C}$  to  $+125^\circ\text{C}$  for both classes, sealed and unsealed
- Fluid resistance:
  - . Hydraulic to MIL-H 5606
  - . Lubricating to MIL-L 23699
  - . Isopropyl alcohol
- Resistance to salt spray: 48 hours (MIL-STD-202 method 101 or MIL-STD-1344 method 1001)
- Sealing: Environment resistant (sealed version)



# Arinc 600 series



## Connector Part Number

|              |     |   |   |   |   |    |    |   |    |    |    |
|--------------|-----|---|---|---|---|----|----|---|----|----|----|
| Basic Series | SB6 | 0 | 2 | M | G | 13 | W2 | P | 00 | 01 | AN |
|--------------|-----|---|---|---|---|----|----|---|----|----|----|

**Class**  
**0:** Sealed (alodine plated)  
**1:** Unsealed (alodine plated)  
**2:** Semi-environmental (without O-ring, alodine plated)  
**3:** Semi-environmental (without O-ring and compound, alodine plated)  
**A:** Semi-environmental (without O-ring and compound) with grounding spring (alodine plated)  
**B:** Unsealed with grounding spring (alodine plated)  
**D:** Unsealed with grounding fingers (alodine plated)  
**N:** Unsealed with DOD grounding spring (nickel plated)  
**P:** Sealed with DOD grounding spring (nickel plated)  
**C:** Sealed with grounding fingers (alodine plated)  
*More information: see page 35*

**Shell Size**  
**1-2-3**  
*More information: see page 7. Drawings: see pages 29 to 31*

**Shell Style**  
**F:** Equipment receptacle  
**M:** Rack plug  
*More information: see page 7*

**Series**  
**G:** Rear release signal and power contacts  
**H:** Front release signal contacts (PC Tail and wire wrap terminations for receptacle) and rear release power contacts  
**J:** Mix of front and rear release contacts (consult us)  
**K:** Front release signal contacts (PC Tail and wire wrap terminations for receptacle) and power contacts  
*More information: see page 7*

**Mounting Styles**  
*More information and coding: see page 13*

**Inserts Arrangement Code (2 digits)**  
 Shell power cavities C and F  
*More information: see page 8. Coding: see page 14*

**Contact Type**  
**P:** Male signal contact #22 (rack plug)  
**S:** Female signal contact #22 (equipment receptacle)

|  | M: rack plug | F: equipment receptacle |
|--|--------------|-------------------------|
| Signal contacts                        | male         | female                  |
| Power contacts                         | female       | male                    |
| Quadrax, coaxial and triaxial contacts | female       | male                    |

*More information: see pages 20 and 24*

**Inserts Arrangement Code (2 digits)**  
 In cavities A - B - D - E  
*More information: see pages 8 and 9. Coding: see page 15*

**Polarization Code**  
**00:** Rack plug = polarizing key delivered unmounted  
 Equipment receptacle = polarizing eyes delivered unmounted  
**01 to M6:** Rack plug = location of polarizing key delivered mounted  
 Equipment receptacle = location of polarizing eyes delivered mounted  
*Coding: see pages 16 and 17*

**Connector Packaging Code**  
**1st letter:** signal and power contacts  
**2nd letter:** twinax, triax, coaxial and quadrax contacts  
*Coding: see page 18*

For any other requirement, please consult us:



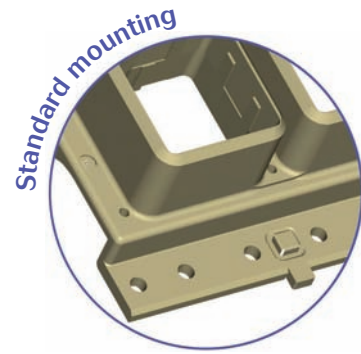
# Arinc 600 series



## Mounting Styles

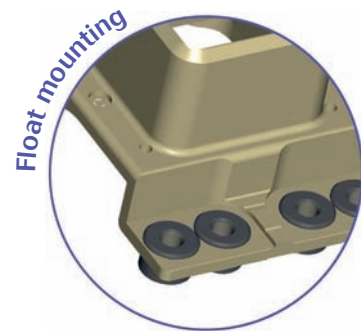
### Standard mounting

- 05:** Standard mounting shell size 1
- 13:** Standard mounting shell size 2 & 3



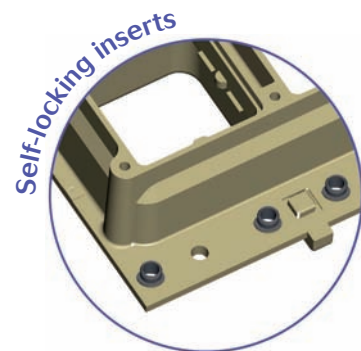
### Float mounting

- FL:** Float mounting, 6-32 eyelet (qty 4)
- FN:** Float mounting, 6-32 self-locking threaded inserts (qty 4)
- FT:** Float mounting, 4-40 (qty 4)
- FS:** Float mounting, 4-40 self-locking threaded inserts (qty 4)



### Self-locking inserts

- M3:** 2 M3 self-locking inserts, shells size 2 & 3 (qty 2)
- N3:** M3 self-locking inserts in all holes shells size 1, 2 & 3
- LN:** 6-32 self-locking threaded inserts \*
- SL:** 4-40 self-locking threaded inserts \*
- TL:** 4-40 self-locking threaded inserts in all holes
- TN:** 6-32 self-locking threaded inserts in all holes



\*

| Shells                                   | Receptacle |   |    | Plug |   |   |
|--|------------|---|----|------|---|---|
|  | 1          | 2 | 3  | 1    | 2 | 3 |
| Numbers of self-locking threaded inserts | 4          | 6 | 10 | 4    | 6 | 8 |

For other mounting styles, please consult us.

# Arinc 600 series



## Inserts Layout Code

### Inserts Layout Cavity C and F

| Code | Shell Size | C cavity               | F cavity               |
|------|------------|------------------------|------------------------|
| W2   | 1          | 5W2                    | -                      |
| W2   | 2 & 3      | 11C2                   | 11C2                   |
| 00   | 1 & 2      | Dummy insert           | -                      |
| 01   | 3          | Dummy insert           | Dummy insert           |
| 02   |            | 11C2                   | Dummy insert           |
| 03   |            | Dummy insert           | 11C2                   |
| 07   | 1 & 2      | Dummy insert (Alodine) | -                      |
| 07   | 3          | Dummy insert (Alodine) | Dummy insert (Alodine) |
| 08   | 2 & 3      | Dummy insert (Nickel)  | Dummy insert (Nickel)  |
| 34   | 2          | 34 pts                 | -                      |
| 34   | 3          | 34 pts                 | 34 pts                 |
| 38   | 1          | 40 pts                 | -                      |
| A1   | 2          | 85 pts                 | -                      |
| A2   | 3          | 11C2                   | Empty                  |
| A3   |            | 11C2                   | Dummy insert           |
| A6   |            | 85 pts                 | 85 pts                 |
| A8   |            | 85 pts                 | Dummy insert           |
| K1   |            | 100 pts                | 100 pts                |
| K2   |            | 11C2                   | 100 pts                |
| K3   |            | 100 pts                | 11C2                   |
| K4   | 2          | Empty                  | -                      |
| K4   | 3          | Empty                  | Empty                  |
| K5   | 2          | 100 pts                | -                      |
| Q1   | 2 & 3      | 68Q2                   | 68Q2                   |
| Q2   | 3          | 100 pts                | 68Q2                   |
| Q3   | 2 & 3      | 11Q2                   | 11Q2                   |
| Q4   |            | 62Q2                   | 62Q2                   |
| Q6   |            | Q6                     | Q6                     |
| Q8   | 3          | 68Q2                   | 85 pts                 |
| Q9   | 2 & 3      | 20Q4                   | 20Q4                   |
| QA   | 3          | 34 pts                 | Q6                     |
| R1   |            | 11Q2                   | 68Q2                   |
| R2   |            | 11Q2                   | 100 pts                |
| R3   |            | 11Q2                   | Empty                  |
| R4   | 68Q2       | 11Q2                   |                        |
| T8   | 2 & 3      | 20T4                   | 20T4                   |
| T9   |            | 62T2                   | 62T2                   |



# Arinc 600 series



## Inserts Layout Cavity A, B, D and E

| Code | Shell Size | A cavity     | B cavity     | D cavity | E cavity |
|------|------------|--------------|--------------|----------|----------|
| 00   | 1          | 60 pts       | 60 pts       | -        | -        |
| 00   | 2 & 3      | 150 pts      | 150 pts      | 150 pts  | 150 pts  |
| 01   |            | 71 pts       | 71 pts       | 71 pts   | 71 pts   |
| 02   | 2          | 150 pts      | 71 pts       | -        | -        |
| 03   |            | 71 pts       | 150 pts      | -        | -        |
| 04   |            | Empty        | 71 pts       | -        | -        |
| 05   | 3          | C2           | C2           | Empty    | 150 pts  |
| 07   | 2          | Dummy insert | 71 pts       | -        | -        |
| 08   | 3          | 71 pts       | 71 pts       | 71 pts   | 71 pts   |
| 09   |            | 150 pts      | 150 pts      | 150 pts  | 71 pts   |
| A1*  |            | 2 & 3        | 71 pts       | 71 pts   | 71 pts   |
| A2*  | 2          | 150 pts      | 71 pts       | -        | -        |
| A3*  |            | 71 pts       | 150 pts      | -        | -        |
| E1   | 1 & 2      | Empty        | Empty        | -        | -        |
| E2   | 2          | 150 pts      | Empty        | -        | -        |
| E3   |            | Empty        | 150 pts      | -        | -        |
| E5   |            | Empty        | 28 pts       | -        | -        |
| E6   |            | C2           | 71 pts rev.  | -        | -        |
| E7   | 3          | C2           | C2           | C2       | 150 pts  |
| F2   | 2          | 150 pts      | Wave guide   | -        | -        |
| F3   |            | Wave guide   | 150 pts      | -        | -        |
| F5   | 2 & 3      | 22 Elio      | 22 Elio      | 22 Elio  | 22 Elio  |
| H1   | 2          | 28 pts       | 28 pts       | -        | -        |
| H2   |            | 150 pts      | 28 pts       | -        | -        |
| H3   |            | 28 pts       | 150 pts      | -        | -        |
| H4   |            | 71 pts       | 28 pts       | -        | -        |
| H5   |            | 28 pts       | Dummy insert | -        | -        |
| HA   |            | 3            | 150 pts      | 150 pts  | 150 pts  |
| HB   | 150 pts    |              | 150 pts      | 28 pts   | 150 pts  |
| HC   | 150 pts    |              | 150 pts      | 28 pts   | 28 pts   |
| HD   | 150 pts    |              | 28 pts       | 150 pts  | 150 pts  |
| HE   | 150 pts    |              | 28 pts       | 150 pts  | 28 pts   |
| HF   | 150 pts    |              | 28 pts       | 28 pts   | 150 pts  |
| HG   | 150 pts    |              | 28 pts       | 28 pts   | 28 pts   |
| HH   | 28 pts     |              | 150 pts      | 150 pts  | 150 pts  |
| HJ   | 28 pts     |              | 150 pts      | 150 pts  | 28 pts   |
| HK   | 28 pts     |              | 150 pts      | 28 pts   | 150 pts  |
| HL   | 28 pts     |              | 150 pts      | 28 pts   | 28 pts   |
| HM   | 28 pts     |              | 28 pts       | 150 pts  | 150 pts  |
| HN   | 28 pts     |              | 28 pts       | 150 pts  | 28 pts   |
| HP   | 28 pts     |              | 28 pts       | 28 pts   | 150 pts  |
| HQ   | 2 & 3      | 28 pts       | 28 pts       | 28 pts   | 28 pts   |

| Code | Shell Size | A cavity     | B cavity     | D cavity     | E cavity     |   |
|------|------------|--------------|--------------|--------------|--------------|---|
| HR   | 3          | 28 pts       | 150 pts      | 28 pts       | Dummy insert |   |
| HS   |            | Empty        | Empty        | Dummy insert | 150 pts      |   |
| HV   |            | 150 pts      | 150 pts      | Dummy insert | Dummy insert |   |
| HW   |            | Dummy insert | 150 pts      | 150 pts      | 150 pts      |   |
| HX   |            | Dummy insert | Dummy insert | Dummy insert | 28 pts       |   |
| HY   |            | Dummy insert | Dummy insert | Dummy insert | Dummy insert |   |
| HZ   |            | Dummy insert | 150 pts      | 28 pts       | 28 pts       |   |
| K1   |            | 2            | 126          | 150 pts      | -            | - |
| K2   |            |              | 126          | 126          | -            | - |
| K3   | 150 pts    |              | 126          | -            | -            |   |
| L1   | 1 & 2      | Dummy insert | Dummy insert | -            | -            |   |
| L2   |            | 150 pts      | Dummy insert | -            | -            |   |
| L3   |            | Dummy insert | 150 pts      | -            | -            |   |
| QA   | 2 & 3      | Q11          | Q11          | Q11          | Q11          |   |
| QB   |            | 150 pts      | Q11          | 150 pts      | Q11          |   |
| QC   | 3          | TCAS         | TCAS         | 118Q2        | 118Q2        |   |
| QD   | 2 & 3      | Q11          | Dummy insert | 11Q2         | Dummy insert |   |
| QE   |            | Q11          | 150 pts      | 11Q2         | 150 pts      |   |
| QF   | 2          | Dummy insert | Q11          | -            | -            |   |
| QG   | 3          | 150 pts      | 71 pts       | 150 pts      | Q11          |   |
| QH   |            | Q11          | Q11          | 150 pts      | Q11          |   |
| QJ   | 2 & 3      | 118Q2        | 118Q2        | 118Q2        | 118Q2        |   |
| QK   | 3          | Q11          | Q11          | Q11          | 150 pts      |   |
| QL   | 2 & 3      | Q10          | 150 pts      | Q10          | 150 pts      |   |
| QM   | 2          | Dummy insert | 118Q2        | -            | -            |   |
| QN   |            | 71 pts       | 118Q2        | -            | -            |   |
| QR   | 2 & 3      | 150 pts      | 118Q2        | 150 pts      | 118Q2        |   |
| QS   | 3          | 150 pts      | Q11          | 150 pts      | Q11          |   |
| QT   |            | Q11          | Q11          | 150 pts      | 150 pts      |   |
| QU   |            | Q11          | 150 pts      | 150 pts      | 150 pts      |   |
| QV   | 2          | Q11          | Empty        | -            | -            |   |
| QW   | 3          | 24 pts       | Q10          | 60 pts       | Q10          |   |
| QX   |            | Empty        | 150 pts      | Empty        | Q11          |   |
| T1   | 2          | 60 pts       | 60 pts       | -            | -            |   |
| T2   |            | 150 pts      | TCAS         | -            | -            |   |
| T3   |            | TCAS         | TCAS         | -            | -            |   |
| T4   |            | TCAS         | 150 pts      | -            | -            |   |
| T5   |            | 150 pts      | TCAS         | -            | -            |   |
| T6   | 3          | TCAS         | TCAS         | 150 pts      | 150 pts      |   |
| T7   | 2          | C12T6        | 150 pts      | -            | -            |   |
| T8   |            | TCAS         | 118Q2        | -            | -            |   |
| T9   |            | TCAS         | 118T2        | -            | -            |   |

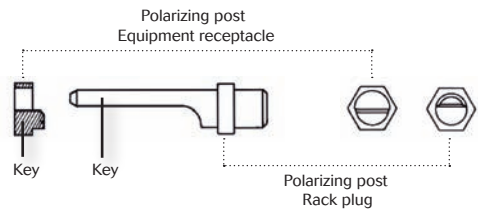
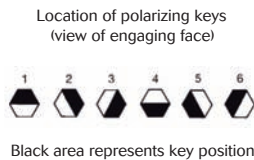
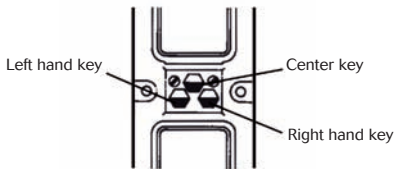
\* with coaxial body assembly

# Arinc 600 series



## Polarization

### Polarization Code



| 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         | 5          | 1           | 5          |
| 18          | 6                | 4          | 5         | 6          | 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         | 5          | 1           | 2          |
| 36          | 3                | 4          | 5         | 6          | 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          |

# Arinc 600 series



## Polarization Code

| Code number |      | Receptacle Shell |            |           | Plug shell |             |            |
|-------------|------|------------------|------------|-----------|------------|-------------|------------|
| Souriau     | Norm | Left key         | Center key | Right key | Left post  | Center post | Right post |
| A0          | 100  | 2                | 2          | 1         | 4          | 3           | 3          |
| A1          | 101  | 2                | 2          | 6         | 5          | 3           | 3          |
| A2          | 102  | 2                | 2          | 5         | 6          | 3           | 3          |
| A3          | 103  | 3                | 2          | 4         | 1          | 3           | 2          |
| A4          | 104  | 3                | 2          | 3         | 2          | 3           | 2          |
| A5          | 105  | 3                | 2          | 2         | 3          | 3           | 2          |
| A6          | 106  | 3                | 2          | 1         | 4          | 3           | 2          |
| A7          | 107  | 3                | 2          | 6         | 5          | 3           | 2          |
| A8          | 108  | 3                | 2          | 5         | 6          | 3           | 2          |
| A9          | 109  | 4                | 1          | 4         | 1          | 4           | 1          |
| B0          | 110  | 4                | 1          | 3         | 2          | 4           | 1          |
| B1          | 111  | 4                | 1          | 2         | 3          | 4           | 1          |
| B2          | 112  | 4                | 1          | 1         | 4          | 4           | 1          |
| B3          | 113  | 4                | 1          | 6         | 5          | 4           | 1          |
| B4          | 114  | 4                | 1          | 5         | 6          | 4           | 1          |
| B5          | 115  | 5                | 1          | 4         | 1          | 4           | 6          |
| B6          | 116  | 5                | 1          | 3         | 2          | 4           | 6          |
| B7          | 117  | 5                | 1          | 2         | 3          | 4           | 6          |
| B8          | 118  | 5                | 1          | 1         | 4          | 4           | 6          |
| B9          | 119  | 5                | 1          | 6         | 5          | 4           | 6          |
| C0          | 120  | 5                | 1          | 5         | 6          | 4           | 6          |
| C1          | 121  | 6                | 1          | 4         | 1          | 4           | 5          |
| C2          | 122  | 6                | 1          | 3         | 2          | 4           | 5          |
| C3          | 123  | 6                | 1          | 2         | 3          | 4           | 5          |
| C4          | 124  | 6                | 1          | 1         | 4          | 4           | 5          |
| C5          | 125  | 6                | 1          | 6         | 5          | 4           | 5          |
| C6          | 126  | 6                | 1          | 5         | 6          | 4           | 5          |
| C7          | 127  | 1                | 1          | 4         | 1          | 4           | 4          |
| C8          | 128  | 1                | 1          | 3         | 2          | 4           | 4          |
| C9          | 129  | 1                | 1          | 2         | 3          | 4           | 4          |
| D0          | 130  | 1                | 1          | 1         | 4          | 4           | 4          |
| D1          | 131  | 1                | 1          | 6         | 5          | 4           | 4          |
| D2          | 132  | 1                | 1          | 5         | 6          | 4           | 4          |
| D3          | 133  | 2                | 1          | 4         | 1          | 4           | 3          |
| D4          | 134  | 2                | 1          | 3         | 2          | 4           | 3          |
| D5          | 135  | 2                | 1          | 2         | 3          | 4           | 3          |
| D6          | 136  | 2                | 1          | 1         | 4          | 4           | 3          |
| D7          | 137  | 2                | 1          | 6         | 5          | 4           | 3          |
| D8          | 138  | 2                | 1          | 5         | 6          | 4           | 3          |
| D9          | 139  | 3                | 1          | 4         | 1          | 4           | 2          |
| E0          | 140  | 3                | 1          | 3         | 2          | 4           | 2          |
| E1          | 141  | 3                | 1          | 2         | 3          | 4           | 2          |
| E2          | 142  | 3                | 1          | 1         | 4          | 4           | 2          |
| E3          | 143  | 3                | 1          | 6         | 5          | 4           | 2          |
| E4          | 144  | 3                | 1          | 5         | 6          | 4           | 2          |
| E5          | 145  | 4                | 6          | 4         | 1          | 5           | 1          |
| E6          | 146  | 4                | 6          | 3         | 2          | 5           | 1          |
| E7          | 147  | 4                | 6          | 2         | 3          | 5           | 1          |
| E8          | 148  | 4                | 6          | 1         | 4          | 5           | 1          |
| E9          | 149  | 4                | 6          | 6         | 5          | 5           | 1          |
| F0          | 150  | 4                | 6          | 5         | 6          | 5           | 1          |
| F1          | 151  | 5                | 6          | 4         | 1          | 5           | 6          |
| F2          | 152  | 5                | 6          | 3         | 2          | 5           | 6          |
| F3          | 153  | 5                | 6          | 2         | 3          | 5           | 6          |
| F4          | 154  | 5                | 6          | 1         | 4          | 5           | 6          |
| F5          | 155  | 5                | 6          | 6         | 5          | 5           | 6          |
| F6          | 156  | 5                | 6          | 5         | 6          | 5           | 6          |
| F7          | 157  | 6                | 6          | 4         | 1          | 5           | 5          |

| Code number |      | Receptacle Shell |            |           | Plug shell |             |            |
|-------------|------|------------------|------------|-----------|------------|-------------|------------|
| Souriau     | Norm | Left key         | Center key | Right key | Left post  | Center post | Right post |
| F8          | 158  | 6                | 6          | 3         | 2          | 5           | 5          |
| F9          | 159  | 6                | 6          | 2         | 3          | 5           | 5          |
| G0          | 160  | 6                | 6          | 1         | 4          | 5           | 5          |
| G1          | 161  | 6                | 6          | 6         | 5          | 5           | 5          |
| G2          | 162  | 6                | 6          | 5         | 6          | 5           | 5          |
| G3          | 163  | 1                | 6          | 4         | 1          | 5           | 4          |
| G4          | 164  | 1                | 6          | 3         | 2          | 5           | 4          |
| G5          | 165  | 1                | 6          | 2         | 3          | 5           | 4          |
| G6          | 166  | 1                | 6          | 1         | 4          | 5           | 4          |
| G7          | 167  | 1                | 6          | 6         | 5          | 5           | 4          |
| G8          | 168  | 1                | 6          | 5         | 6          | 5           | 4          |
| G9          | 169  | 2                | 6          | 4         | 1          | 5           | 3          |
| H0          | 170  | 2                | 6          | 3         | 2          | 5           | 3          |
| H1          | 171  | 2                | 6          | 2         | 3          | 5           | 3          |
| H2          | 172  | 2                | 6          | 1         | 4          | 5           | 3          |
| H3          | 173  | 2                | 6          | 6         | 5          | 5           | 3          |
| H4          | 174  | 2                | 6          | 5         | 6          | 5           | 3          |
| H5          | 175  | 3                | 6          | 4         | 1          | 5           | 2          |
| H6          | 176  | 3                | 6          | 3         | 2          | 5           | 2          |
| H7          | 177  | 3                | 6          | 2         | 3          | 5           | 2          |
| H8          | 178  | 3                | 6          | 1         | 4          | 5           | 2          |
| H9          | 179  | 3                | 6          | 6         | 5          | 5           | 2          |
| J0          | 180  | 3                | 6          | 5         | 6          | 5           | 2          |
| J1          | 181  | 4                | 5          | 4         | 1          | 6           | 1          |
| J2          | 182  | 4                | 5          | 3         | 2          | 6           | 1          |
| J3          | 183  | 4                | 5          | 2         | 3          | 6           | 1          |
| J4          | 184  | 4                | 5          | 1         | 4          | 6           | 1          |
| J5          | 185  | 4                | 5          | 6         | 5          | 6           | 1          |
| J6          | 186  | 4                | 5          | 5         | 6          | 6           | 1          |
| J7          | 187  | 5                | 5          | 4         | 1          | 6           | 6          |
| J8          | 188  | 5                | 5          | 3         | 2          | 6           | 6          |
| J9          | 189  | 5                | 5          | 2         | 3          | 6           | 6          |
| K0          | 190  | 5                | 5          | 1         | 4          | 6           | 6          |
| K1          | 191  | 5                | 5          | 6         | 5          | 6           | 6          |
| K2          | 192  | 5                | 5          | 5         | 6          | 6           | 6          |
| K3          | 193  | 6                | 5          | 4         | 1          | 6           | 5          |
| K4          | 194  | 6                | 5          | 3         | 2          | 6           | 5          |
| K5          | 195  | 6                | 5          | 2         | 3          | 6           | 5          |
| K6          | 196  | 6                | 5          | 1         | 4          | 6           | 5          |
| K7          | 197  | 6                | 5          | 6         | 5          | 6           | 5          |
| K8          | 198  | 6                | 5          | 5         | 6          | 6           | 5          |
| K9          | 199  | 1                | 5          | 4         | 1          | 6           | 4          |
| L0          | 200  | 1                | 5          | 3         | 2          | 6           | 4          |
| L1          | 201  | 1                | 5          | 2         | 3          | 6           | 4          |
| L2          | 202  | 1                | 5          | 1         | 4          | 6           | 4          |
| L3          | 203  | 1                | 5          | 6         | 5          | 6           | 4          |
| L4          | 204  | 1                | 5          | 5         | 6          | 6           | 4          |
| L5          | 205  | 2                | 5          | 4         | 1          | 6           | 3          |
| L6          | 206  | 2                | 5          | 3         | 2          | 6           | 3          |
| L7          | 207  | 2                | 5          | 2         | 3          | 6           | 3          |
| L8          | 208  | 2                | 5          | 1         | 4          | 6           | 3          |
| L9          | 209  | 2                | 5          | 6         | 5          | 6           | 3          |
| M0          | 210  | 2                | 5          | 5         | 6          | 6           | 3          |
| M1          | 211  | 3                | 5          | 4         | 1          | 6           | 2          |
| M2          | 212  | 3                | 5          | 3         | 2          | 6           | 2          |
| M3          | 213  | 3                | 5          | 2         | 3          | 6           | 2          |
| M4          | 214  | 3                | 5          | 1         | 4          | 6           | 2          |
| M5          | 215  | 3                | 5          | 6         | 5          | 6           | 2          |
| M6          | 216  | 3                | 5          | 5         | 6          | 6           | 2          |



# Arinc 600 series



## Packaging

### Packaging Code

#### 1st Letter: Delivery conditions of Signal and Power Contacts

|          |  |  |
|----------|--|--|
| <b>A</b> | Connector delivered with unmounted crimped signal and power contacts.  | For rear release plug & receptacle.                      |
| <b>B</b> | Connector delivered only with unmounted crimped signal contacts.   | -  |
| <b>C</b> | Connector delivered with mounted wire wrap L=12.7 mm signal contacts and without power contact.                          | -  |
| <b>D</b> | Connector delivered with unmounted wire wrap L=9.52 mm signal contacts and crimped power contacts.                       | -  |
| <b>E</b> | Connector delivered with mounted PC Tail L=6.35 mm signal contacts and unmounted power crimped contacts.                 | For PC Tail gold plated only. See code 3 for tin plated. |
| <b>G</b> | Connector delivered with mounted gold plated PC Tail L=3.81 mm signal contacts and without power contact.                | -  |
| <b>H</b> | Connector delivered with mounted tin plated PC Tail L=6.35 mm signal and power contacts.                                 | For PC Tail tin plated only. See code Y for gold plated. |
| <b>I</b> | Connector delivered with mounted PC Tail L=3.81 mm signal contacts and unmounted crimped power contacts.                 | -  |
| <b>L</b> | Connector delivered without signal and power contact.  | Never use code LN. If no contact, put nothing.           |
| <b>N</b> | Connector delivered with only unmounted crimped power contacts.  | -  |
| <b>P</b> | Connector delivered with mounted PC Tail L=9.52 mm signal contacts and unmounted crimped power contacts.                 | -  |
| <b>R</b> | Connector delivered with mounted gold plated PC Tail L=9.52 mm signal contacts and without power contact.                | -  |
| <b>T</b> | Connector delivered with mounted wire wrap L=12.7 mm signal contacts and with unmounted power contacts.                  | -  |
| <b>U</b> | Connector delivered with mounted wire wrap L=6.35 mm signal contacts and without power contact.                          | -  |
| <b>W</b> | Connector delivered with unmounted front release wire wrap contacts (4 wrappings: 8660-540)                              | -  |
| <b>X</b> | Connector delivered with mounted PC Tail L=12.7 mm signal contacts and without power contact.                            | For PC Tail gold plated only. See code 2 for tin plated. |
| <b>Y</b> | Connector supplied with mounted #22 PC Tail L=6.35 mm signal and power contacts.   | For PC Tail gold plated only. See code H for tin plated. |
| <b>1</b> | Connector delivered with mounted PC Tail wire wrap L=9.52 mm signal contacts and with unmounted crimped power contacts.  | -  |
| <b>2</b> | Connector delivered with mounted tin plated PC Tail L=12.7 mm signal contacts and without power contact.                 | For PC Tail tin plated only. See code X for gold plated. |
| <b>3</b> | Connector delivered with mounted tin plated PC Tail L=6.35 mm signal contacts and with unmounted crimped power contacts. | For PC Tail tin plated only. See code E for gold plated. |
| <b>4</b> | Connector delivered with tin plated PC Tail L=12.7 mm signal and power contacts.   | -  |
| <b>5</b> | Connector delivered without signal contacts and with tin plated PC Tail L=6.35 mm power contacts.                        | -  |

#### 2nd Letter: Delivery conditions of #5 Coax and #1 Coax contacts, and #8 Quadrx contacts.

|          |   |
|----------|---|
| <b>A</b> | Connector delivered with #5 coax for RG 58 C/U cable and #1 coax for RG 165/U and RG 225/U cable (coaxial body and termination kit).  |
| <b>B</b> | Connector delivered with #1 coax for RG 141A/U, RG 142 and KX23 cable. Delivered unmounted.   |
| <b>C</b> | Connector delivered with #1 coax for UT 141 and RG 402B/U cable. Delivered unmounted.   |
| <b>D</b> | Connector delivered with #5 coax for 5021K1011 cable.   |
| <b>E</b> | Connector delivered with #1 coax for RG 393/U cable.  |
| <b>F</b> | Connector delivered with #5 coax for 5021K1011 cable and with #1 coax for RG 393/U cable. Delivered unmounted.                        |
| <b>G</b> | Connector delivered with Bus contacts for F2709/2 cable. Delivered unmounted.   |
| <b>H</b> | Connector delivered without coax contact and with #5 dummy contacts.  |
| <b>I</b> | Connector delivered without coax contact and with mounted #5 and #12 cavity reducer.  |
| <b>J</b> | Connector delivered with #5 coax for RG 316 cable.  |
| <b>K</b> | Connector delivered with #5 coax for KX23 cable.  |
| <b>L</b> | Connector delivered with unmounted 90° #1 coax contacts for UT 141 and RG 402B/U cable.   |
| <b>M</b> | Connector delivered with unmounted sealed #5 coax for RG 58C/U cable.   |
| <b>N</b> | Connector delivered without coax or quadrx contact.   |
| <b>Q</b> | Connector delivered with #8 quadrx contacts: FH type for tin plated PC Tail quadrx contacts, and FG type for crimped quadrx contacts. |
| <b>S</b> | Connector delivered with TCAS #1 coax.  |

Packaging code not applicable to connectors where no contacts are specified.  
Do not use the suffix LN together.  
For other code packaging, please consult us.



# Arinc 600 series



## Contacts Part Numbers

### Crimp Contacts

#### Signal contacts

| Contact size   | For rack plug: rear release |             |                         | For equipment receptacle: rear release |             |                         |
|----------------|-----------------------------|-------------|-------------------------|--|-------------|-------------------------|
|                | Contact type                | Part number | Profile and color code  | Contact type                           | Part number | Profile and color code  |
| #22 Standard   | Pin                         | 8660 - 202  | <br>Green Orange        | Socket                                 | 8660 - 206  | <br>Orange              |
| #22 Alumel     |                             | 8660 - 209  | <br>Black Green Orange  |  | 8660 - 211  | <br>Orange Green Black  |
| #22 Chromel    |                             | 8660 - 208  | <br>Yellow Green Orange |  | 8660 - 210  | <br>Orange Green Yellow |
| #22 Constantan |                             | 8660 - 2029 | <br>Red Green Orange    |  | 8660 - 2034 | <br>Orange Green Red    |

#### Power contacts

| Contact size           | For rack plug: rear release |             |                        | For equipment receptacle: rear release |             |                        |
|------------------------|-----------------------------|-------------|------------------------|--|-------------|------------------------|
|                        | Contact type                | Part number | Profile and color code | Contact type                           | Part number | Profile and color code |
| #20 Power              | Socket                      | 8660 - 248  | <br>Orange Red         | Pin                                    | 8660 - 230  | <br>Red Orange         |
| #16 Power              |                             | 8660 - 249  | <br>Orange Blue        |  | 8660 - 233  | <br>Blue Orange        |
| #16 Power Small barrel |                             | 8660 - 2575 | <br>Orange             |  | 8660 - 1048 | <br>Orange             |
| #12 Power              |                             | 8660 - 250  | <br>Orange Yellow      |  | 8660 - 236  | <br>Orange Yellow      |
| #12 Power Small barrel |                             | 8660 - 257  | <br>Orange             |  | 8660 - 1049 | <br>Orange             |

#### Wire data for crimp contacts

| Contact size     | Cables          |                   | Ø over insulation (in mm) |      |
|------------------|-----------------|-------------------|---------------------------|------|
|                  | mm <sup>2</sup> | AWG               | min                       | max  |
| #22              | 0.15 to 0.38    | 26 - 24 - 22      | 0.70                      | 1.35 |
| #20              | 0.21 to 0.60    | 24 - 22 - 20      | 1.02                      | 1.80 |
| #16              | 0.60 to 1.34    | 20 - 18 - 16      | 1.73                      | 2.60 |
| #16 Small barrel | 0.21 to 0.93    | 24 - 22 - 20 - 18 | 1.73                      | 2.60 |
| #12              | 1.91 to 3.18    | 14 - 12           | 2.48                      | 3.40 |
| #12 Small barrel | 0.21 to 0.93    | 24 - 22 - 20 - 18 | 2.48                      | 3.40 |

# Arinc 600 series



## Crimp Contacts

### Triaxial contacts

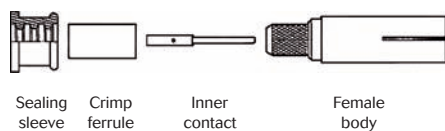
| Contact size | Class    | For rack plug: Female contact    | For equipment receptacle: Male contact | Cable                       |
|--------------|----------|----------------------------------|--|-----------------------------|
|              |          | Part number                      | Part number                            |                             |
| #8 triaxial  | Sealed   | 8667D03 - 08R52A01 Included boot | 8667D02 - 08R52A01 Included boot       | EN3375 - 004<br>MIL-C-17176 |
|              | Unsealed | 8667D03 - 08R02A01               | 8667D02 - 08R02A01                     |                             |

### Coaxial contacts

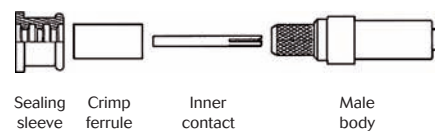
| Contact size | Class    | For rack plug: Female contact | For equipment receptacle: Male contact | Cable  |
|--------------|----------|-------------------------------|--|--|
|              |          | Part number                   | Part number                            |  |
| #5 Coaxial*  | Sealed   | 8660 - 2485                   | 8660 - 2480                            | RG 58 C / U<br>RG 142 B / U<br>RG 141 A / U<br>NSA 935359 WB     |
|              | Unsealed | 8660 - 2285                   | 8660 - 2280                            |  |
|              | Sealed   | 8660 - 2486                   | 8660 - 2481                            | RG 174 A / U<br>RG 188 A / U                                     |
|              | Unsealed | 8660 - 2286                   | 8660 - 2281                            |  |
|              | Sealed   | 8660 - 2487                   | 8660 - 2482                            | RG 233 / U<br>RG 400 BU<br>KX 23                                 |
|              | Unsealed | 8660 - 2287                   | 8660 - 2282                            |  |
|              | Sealed   | 8660 - 2488                   | 8660 - 2483                            | RG 178 B / U<br>RG 196 A / U<br>RG 316 / U<br>KX 21 A<br>KX 22 A |
|              | Unsealed | 8660 - 2288                   | 8660 - 2283                            |  |
|              | Sealed   | 8660 - 2489                   | 8660 - 2484                            | RG 180 B / U<br>RG 195 A / U                                     |
|              | Unsealed | 8660 - 2289                   | 8660 - 2284                            |  |
|              | Sealed   | 8660 - 2298E                  | 8660 - 2294                            | 5021 K 1011  |
|              | Unsealed | 8660 - 2498E                  | 8660 - 2494                            |  |

\* Sealing sleeve supplied for sealed connectors

For rack plug: Female contact



For equipment receptacle: Male contact





# Arinc 600 series

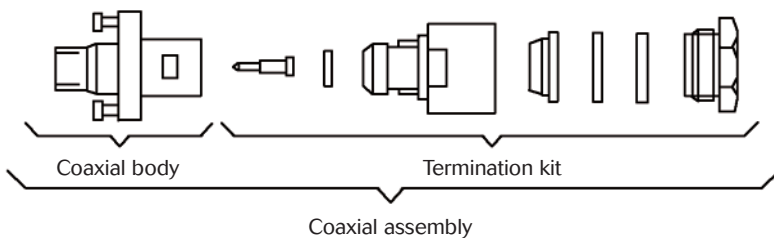


## Crimp Contacts

### Coaxial contact

| Contact size | Class       | For rack plug: Female contact |                 |                  | For equipment receptacle: Male contact |                 |                  | Cable                                  |
|--------------|-------------|-------------------------------|-----------------|------------------|--|-----------------|------------------|--|
|              |             | Coaxial                       | Termination kit | Coaxial assembly | Coaxial                                | Termination kit | Coaxial assembly |  |
| #1 Coaxial   | Sealed      | 8660 - 2277                   | 8660 - 2587     | 8660 - 2296      | 8660 - 2272                            | 8660 - 2581     | 8660 - 2251      | RG 141 A / U<br>RG 142 B / U<br>KX 23  |
|              | Unsealed    | 8660 - 2278                   |                 | 8660 - 2261      | 8660 - 2274                            |                 | 8660 - 2241      |  |
|              | Sealed      | -                             | -               | -                | 8660 - 2272                            | 8660 - 2582     | 8660 - 2252      | UT141                                  |
|              | Unsealed    | -                             | -               | -                | 8660 - 2274                            |                 | 8660 - 2242      |  |
|              | Sealed      | 8660 - 2277                   | 8660 - 2580     | 8660 - 2295      | 8660 - 2272                            | 8660 - 2583     | 8660 - 2250      | RG 165 / U<br>RG 214 / U<br>RG 225 / U |
|              | Unsealed    | 8660 - 2278                   |                 | 8660 - 2260      | 8660 - 2274                            |                 | 8660 - 2240      |  |
|              | Sealed      | 8660 - 2277                   | 8660 - 2585     | 8660 - 2299      | 8660 - 2272                            | 8660 - 2588     | 8660 - 2254      | RG 393 / U                             |
|              | Unsealed    | 8660 - 2278                   |                 | 8660 - 2263      | 8660 - 2274                            |                 | 8660 - 2244      |  |
|              | Sealed      | 8660 - 2277                   | 8660 - 2237     | 8660 - 2311      | 8660 - 2272                            | 8660 - 2236     | 8660 - 2313      | Fileca 1703 / 3<br>Filotex50MT<br>KT   |
|              | Unsealed    | 8660 - 2278                   |                 | 8660 - 2259      | 8660 - 2274                            |                 | 8660 - 2314      |  |
| Unsealed     | 8660 - 2278 | 8660 - 2341                   | 8660 - 2141     | -                | -                                      | -               | RG 400 / BU      |  |

### Coaxial assembly example



### TCAS unsealed insert

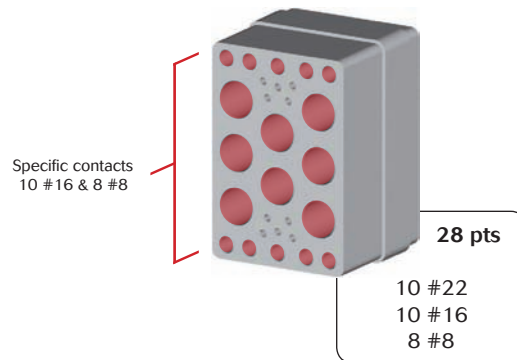
| Contact size | Shell style | For rack plug: Female contact |         | Cable                              |
|--------------|-------------|-------------------------------|---------|------------------------------------|
|              |             | Part number                   | Profile |                                    |
| #1 Coaxial   | Plug        | 8660 - D21 - 100 - 01 A / 05  |         | FILOTEX E0406WD<br>FILOTEX 50MFCFB |
|              | Receptacle  | 8660 - 6136                   |         | Output SMA                         |

# Arinc 600 series



## Crimp Contacts

### Specific contacts for 28 pts insert



### #8 Triaxial contact

| Contact size | Class    | For rack plug: Female contact |         | For equipment receptacle: Male contact |         | Cable                   |
|--------------|----------|-------------------------------|---------|--|---------|-------------------------|
|              |          | Part number                   | Profile | Part number                            | Profile |                         |
| #8 triaxial  | Sealed   | 8599 - 5220<br>Included boot  |         | 8599 - 5210<br>Included boot           |         | Mil - C17176<br>- 00002 |
|              | Unsealed | 8599 - 0998                   |         | 8599 - 0988                            |         |                         |

### #16 Power rear release

| Contact size | Contact type | Part numbers without colour code | MIL - DTL - 38999 contacts |                         |
|--------------|--------------|----------------------------------|----------------------------|-------------------------|
|              |              |                                  | Part number                | Profile and colour code |
| #16 Power    | Pin          | 8599 - 0704 MJ                   | M39029 / 58 364            |                         |
|              | Socket       | 8599 - 0708                      | M39029 / 56 352            |                         |

### #16 Dummy contacts (unsealed version)

|             |                            |      |
|-------------|----------------------------|------|
| #16 (38999) | 8660 - 3138 for plug       | Blue |
|             | 8660 - 3139 for receptacle |      |

# Arinc 600 series



## PC Tail Contacts

### For equipment receptacle: female signal contacts - front release

| Contact size | Contact type | Part number               | L = Length spill (mm) | Ø spill (mm)         | Profile |
|--------------|--------------|---------------------------|-----------------------|----------------------|---------|
| #22          | Gold plated  | 8660 - 550                | 3.81                  | 0.60 min<br>0.67 max |         |
|              |              | 8660 - 555                | 6.35                  |                      |         |
|              |              | 8660 - 560                | 9.52                  |                      |         |
|              |              | 8660 - 565                | 12.7                  |                      |         |
|              | Tin plated   | 8660 - C23 - 22V - 01A/06 | 3.81                  |                      |         |
|              |              | 8660 - C23 - 22V - 02A/06 | 6.35                  |                      |         |
|              |              | 8660 - C23 - 22V - 03A/06 | 9.52                  |                      |         |
|              |              | 8660 - C23 - 22V - 04A/06 | 12.7                  |                      |         |

### For equipment receptacle: male power contacts - front release

| Contact size | Contact type | Part number              | L = Length spill (mm) | Ø spill (mm)         | Profile |
|--------------|--------------|--------------------------|-----------------------|----------------------|---------|
| #20          | Gold plated  | 8660 - 420 - 200 - 04AMJ | 3.81                  | 0.81 min<br>0.88 max |         |
|              |              | 8660 - 420 - 200 - 01AMJ | 6.35                  |                      |         |
|              |              | 8660 - 420 - 200 - 02AMJ | 9.52                  |                      |         |
|              |              | 8660 - 420 - 200 - 03AMJ | 12.7                  |                      |         |
|              | Tin plated   | 8660 - 420 - 200 - 04A06 | 3.81                  |                      |         |
|              |              | 8660 - 420 - 200 - 01A06 | 6.35                  |                      |         |
|              |              | 8660 - 420 - 200 - 02A06 | 9.52                  |                      |         |
|              |              | 8660 - 420 - 200 - 03A06 | 12.7                  |                      |         |
| #16          | Gold plated  | 8660 - 420 - 160 - 04AMJ | 3.81                  | 1.27 min<br>1.33 max |         |
|              |              | 8660 - 420 - 160 - 01AMJ | 6.35                  |                      |         |
|              |              | 8660 - 420 - 160 - 02AMJ | 9.52                  |                      |         |
|              |              | 8660 - 420 - 160 - 03AMJ | 12.7                  |                      |         |
|              | Tin plated   | 8660 - 420 - 160 - 04A06 | 3.81                  |                      |         |
|              |              | 8660 - 420 - 160 - 01A06 | 6.35                  |                      |         |
|              |              | 8660 - 420 - 160 - 02A06 | 9.52                  |                      |         |
|              |              | 8660 - 420 - 160 - 03A06 | 12.7                  |                      |         |
| #12          | Gold plated  | 8660 - 420 - 120 - 04AMJ | 3.81                  | 2.05 min<br>2.11 max |         |
|              |              | 8660 - 420 - 120 - 01AMJ | 6.35                  |                      |         |
|              |              | 8660 - 420 - 120 - 02AMJ | 9.52                  |                      |         |
|              |              | 8660 - 420 - 120 - 03AMJ | 12.7                  |                      |         |
|              | Tin plated   | 8660 - 420 - 120 - 04A06 | 3.81                  |                      |         |
|              |              | 8660 - 420 - 120 - 01A06 | 6.35                  |                      |         |
|              |              | 8660 - 420 - 120 - 02A06 | 9.52                  |                      |         |
|              |              | 8660 - 420 - 120 - 03A06 | 12.7                  |                      |         |

### For equipment receptacle: male power contacts - rear release

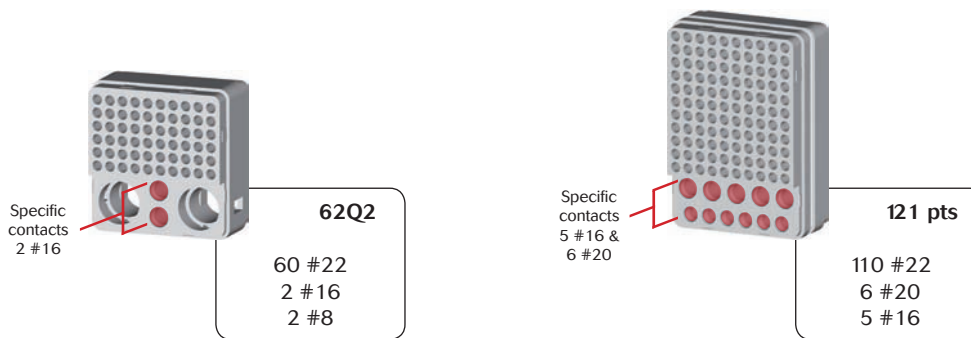
| Contact size | Contact type | Part number | L = Length spill (mm) | Ø spill (mm)         | Profile |
|--------------|--------------|-------------|-----------------------|----------------------|---------|
| #20          | Gold plated  | 8660 - 543  | 2.98                  | 0.81 min<br>0.88 max |         |
|              | Tin plated   | 8660 - 6148 |                       |                      |         |
| #16          | Gold plated  | 8660 - 546  | 2.38                  | 1.27 min<br>1.33 max |         |
|              | Tin plated   | 8660 - 6149 |                       |                      |         |
| #12          | Gold plated  | 8660 - 549  | 2.98                  | 2.05 min<br>2.11 max |         |
|              | Tin plated   | 8660 - 6150 |                       |                      |         |

# Arinc 600 series



## PC Tail Contacts

Specific contacts for 62Q2 & 121 pts inserts



| Contact Size | Contact type | Part number        | L = Length spill (mm) | Ø spill (mm)         | Profile |
|--------------|--------------|--------------------|-----------------------|----------------------|---------|
| #20          | Tin plated   | 8660 - 42020005A06 | 6.35                  | 0.81 min<br>0.88 max |         |
| #16          | Tin plated   | 8660 - 42016005A06 | 6.35                  | 1.27 min<br>1.33 max |         |

## Wire Wrap Contacts - Front release

| Contact Size | Contact type | Part number | L = Length spill (mm) | mm                   | Profile |
|--------------|--------------|-------------|-----------------------|----------------------|---------|
| #22          | Gold plated  | 8660 - 223  | 6.35                  | 0.82 min<br>0.90 max |         |
|              |              | 8660 - 224  | 9.52                  |                      |         |
|              |              | 8660 - 225  | 12.7                  |                      |         |

## Twinax Contacts

| Contact size | Contact type                       | Part number | Cable        | Profile |
|--------------|------------------------------------|-------------|--------------|---------|
| #8 twinax    | Female<br>(For Rack plug)          | ETH2-1105A  | ABS0386WF24  |         |
|              |                                    | ETH2-1107A  | ASNE0272TK22 |         |
|              |                                    | ETH2-1103A  | ASNE0272TK24 |         |
|              |                                    | ETH2-1101A  | ASNE0807WX26 |         |
|              | Male<br>(For equipment receptacle) | ETH2-1104A  | ABS0386WF24  |         |
|              |                                    | ETH2-1106A  | ASNE0272TK22 |         |
|              |                                    | ETH2-1102A  | ASNE0272TK24 |         |
|              |                                    | ETH2-1100A  | ASNE0807WX26 |         |




# Arinc 600 series




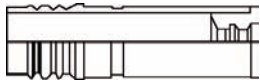


## Triax Contacts

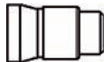





For equipment receptacle: front release

| Contact size | Contact type | Part number | L = Length spill (mm) | Profile   |
|--------------|--------------|-------------|-----------------------|---|
| #8 triax     | Tin plated   | 8660 - 6046 | 6.35                  |  |

## Quadrax Contacts

| Contact size | Contact type | Part number  | Version                       | Class    | Release | Profile   |
|--------------|--------------|--------------|-------------------------------|----------|---------|---|
| #8 quadrax   | Male         | ETH1 - 1100A | Crimp                         | Unsealed | Rear    |   |
|              | Female       | ETH1 - 1101A |                               |          |         |  |
|              | Male         | ETH1 - 1110A | PC Tail<br>L = 6.35 mm        | Unsealed | Front   |  |
|              |              | ETH1 - 1123A | Tinned PC tail<br>L = 6.35 mm |          |         |   |
| -            | -            | 8660 - 6053  | Sealing boot                  | Sealed   | -       |  |

## Cavity Reducers

|   | For equipment receptacle |   | For rack plug |   |
|---|--------------------------|---|---------------|---|
|   | Part number              | Profile   | Part number   | Profile   |
| From size 5 cavities to size 12 contacts              | 8660 - 343               |  | 8660 - 344    |  |
| From size 8 cavities to size 12 contacts              | 8660 - 537               |  | 8660 - 536    |  |
| From size 8 cavities to size 16 contacts (38999 type) | 8660 - 3134              |  | 8660 - 3133   |  |

used for rear release insert only

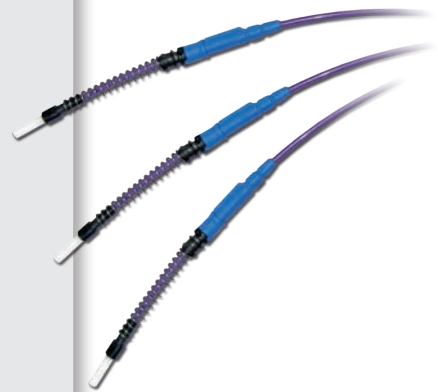
# Arinc 600 series



## Elio® Fiber Optic Contacts

### Elio Contacts Ordering Information

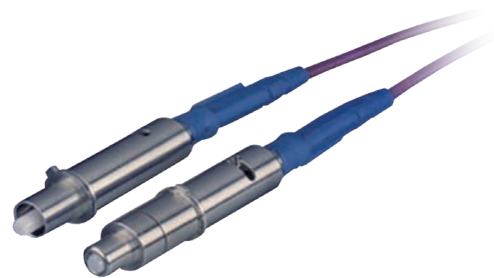
|   | Elio | 09 | N | G | L | A |
|---|------|----|---|---|---|---|
| <b>Cable external diameter:</b>                               |      |    |   |   |   |   |
| 09: 0.9 mm or cable wider than 1.9mm with 0.9mm jacket inside |      |    |   |   |   |   |
| 18: from 1.5mm to 1.9mm                                       |      |    |   |   |   |   |
| <b>Contact sealing:</b>                                       |      |    |   |   |   |   |
| W: waterproof (1.8mm +/- 0.1mm cable only)                    |      |    |   |   |   |   |
| N: non sealed   |      |    |   |   |   |   |
| <b>Fiber type:</b>  |      |    |   |   |   |   |
| G: 50 or 62,5/125 µm  |      |    |   |   |   |   |
| E: 9/125 µm (PC ferrule)                                      |      |    |   |   |   |   |
| D: 100/140 µm   |      |    |   |   |   |   |
| <b>Boot type:</b>   |      |    |   |   |   |   |
| L: long boot  |      |    |   |   |   |   |
| S: short boot   |      |    |   |   |   |   |
| N: no boot (non sealed version only)                          |      |    |   |   |   |   |
| <b>Contact version index</b>                                  |      |    |   |   |   |   |



### Elio AQ: Adaptor for Quadrax #8 Cavities

ELIO® AQ is an adaptor for the ELIO® contact to fit any size 8 Quadrax cavities. Therefore, any layout including size 8 Quadrax cavities can be implemented with the ELIO® fiber optic contact.

| Part number                  | Adaptor type  | Profile |
|------------------------------|---------------|---------|
| ELIO - AQOP<br>Rear release  | Male Insert   |         |
| ELIO - AQ1P<br>Front release |               |         |
| ELIO - AQOS<br>Rear release  | Female insert |         |

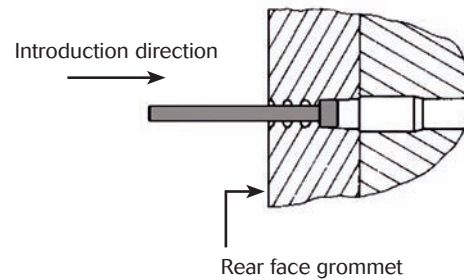


# Arinc 600 series



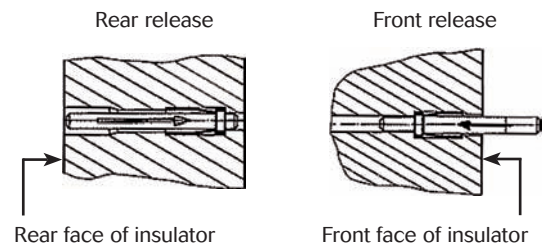
## Filler Plug (sealed version)

| Cavities size | Part number  | Color  |
|---------------|--------------|--------|
| # 22          | 8660 - 212   | Black  |
| # 20          | 8522 - 389 A | Red    |
| # 16          | 8522 - 390 A | Blue   |
| # 12          | 8522 - 391A  | Yellow |
| # 8           | 8660 - 3035  | Red    |
| # 5           | 8660 - 726   | White  |



## Dummy Contacts (unsealed version)

| Cavity size              | Part number                  | Color     |
|--------------------------|------------------------------|-----------|
| #22 Rear release         | 8660 - 500                   | Black     |
| #22 Front release        | 8660 - 499                   | Aluminium |
| #20                      | 8660 - 501                   | Red       |
| #16                      | 8660 - 502                   | Blue      |
| #12                      | 8660 - 503                   | Yellow    |
| #8                       | 8660 - 3131 for plug         | Red       |
|                          | 8660 - 3132 for receptacle   |           |
| #8 Quadrax Front release | 8660 - 6045                  | Metal     |
| #8 Rear release          | 8660 - 6108 for receptacle   |           |
| #5                       | 8660 - 505 for plug          | White     |
|                          | 8660 - 504 for receptacle    |           |
| #5 Front release         | 8660 - 942 for receptacle    | Metal     |
| #1 For TCAS insert       | 8660 - 6145 A for receptacle | White     |



## Dummy Inserts

| Shell Size | Cavity     | Material   | Part Number              |
|------------|------------|------------|--------------------------|
| 1          | A, B       | Polyamide* | 8660 - 31A - 100 - 01AAA |
|            | C          | Polyamide* | 8660 - 31A - 100 - 02AAA |
| 2 & 3      | A, B, D, E | Polyamide* | 8660 - 31A - 100 - 01AAA |
|            |            | Alodine    | 8660 - 34A - 200 - 01AF3 |
|            |            | Nickel     | 8660 - 34A - 200 - 01ASW |
|            | C, F       | Polyamide* | 8660 - 31A - 100 - 02AAA |
|            |            | Alodine    | 8660 - 34A - 200 - 02AF3 |
|            |            | Nickel     | 8660 - 34A - 200 - 02ASW |

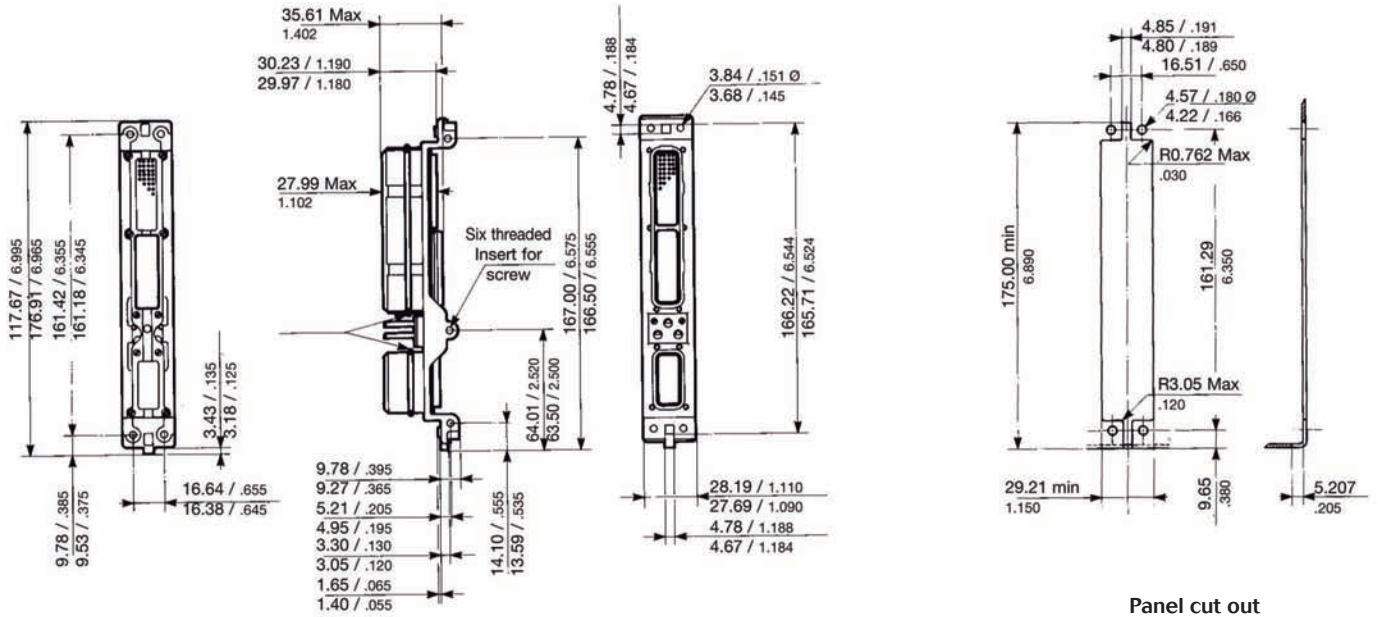
\* Standard version

# Arinc 600 series

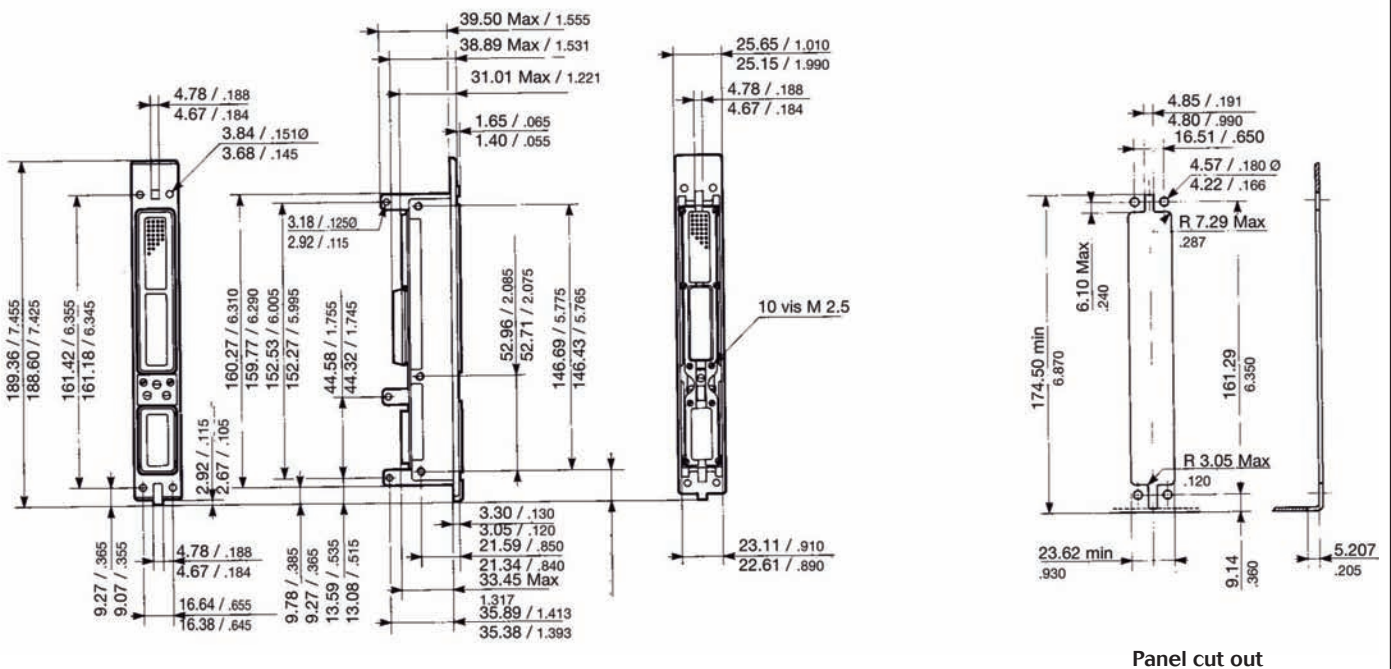


## Dimensions Shell Size 1

### Rack Plug (mm/inch)



### Equipment Receptacle (mm/inch)



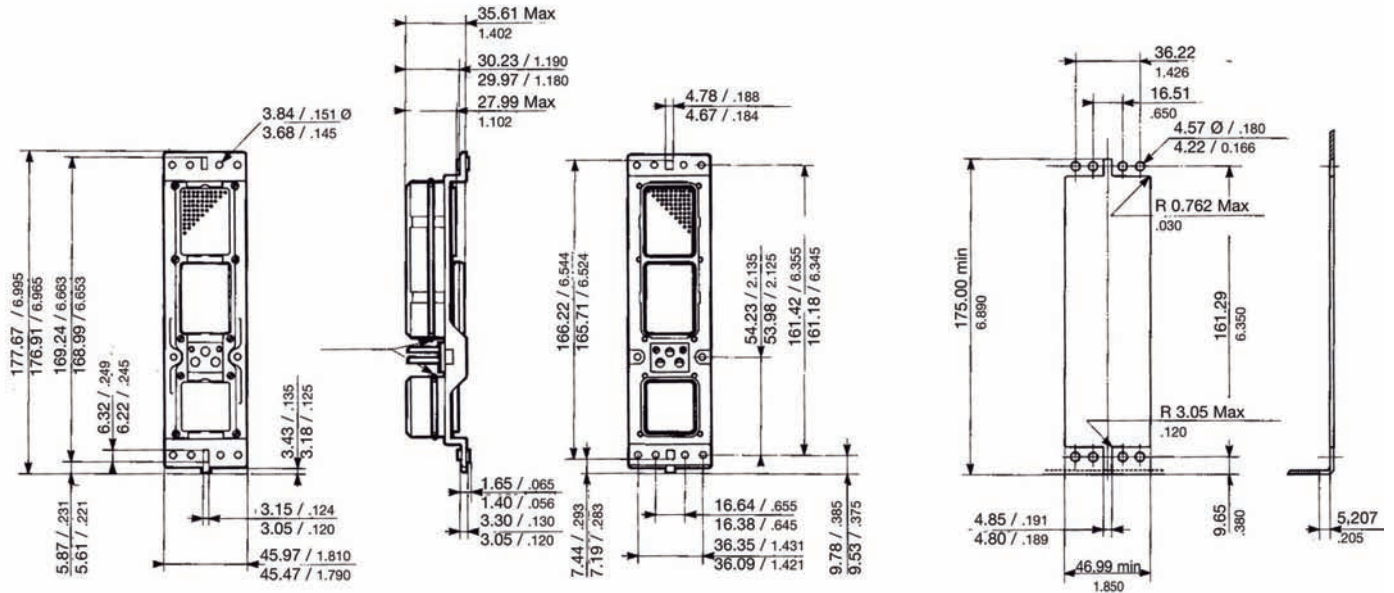


# Arinc 600 series



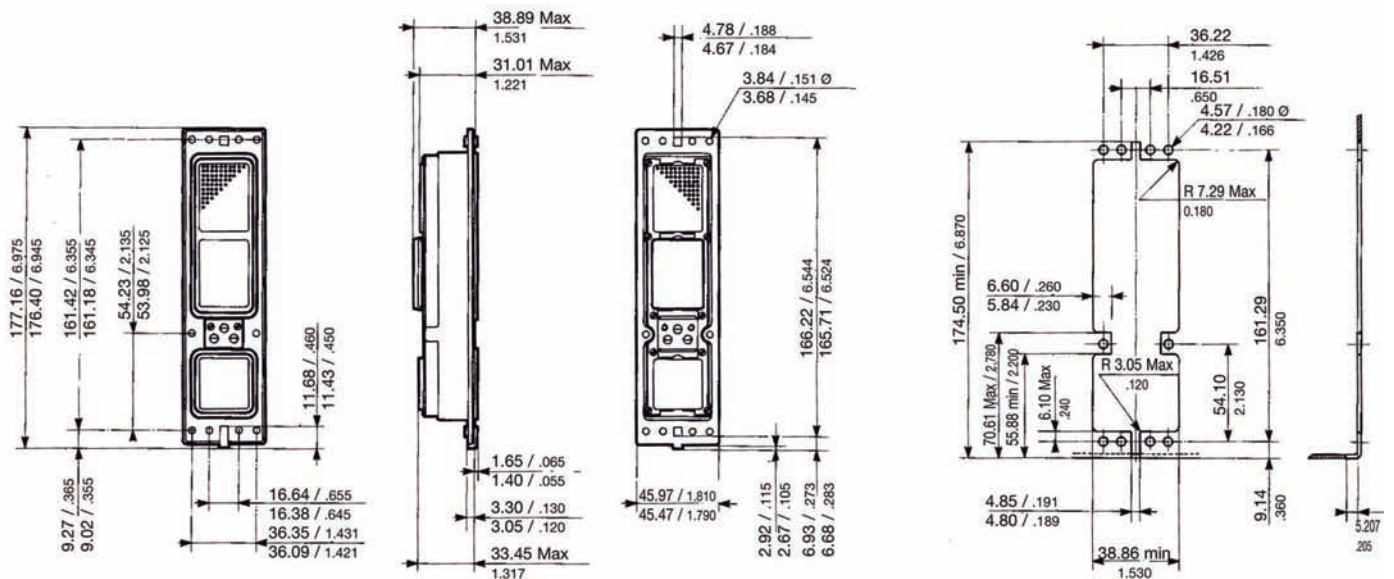
## Dimensions Shell Size 2

### Rack Plug (mm/inch)



Panel cut out

### Equipment Receptacle (mm/inch)



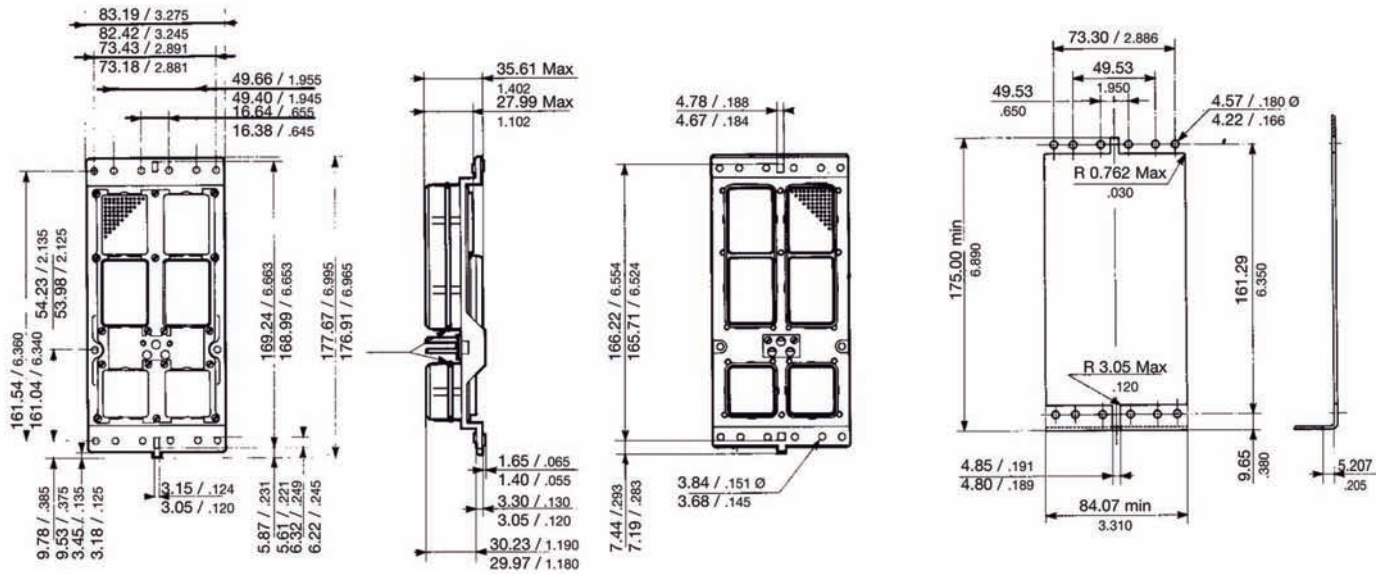
Panel cut out

# Arinc 600 series



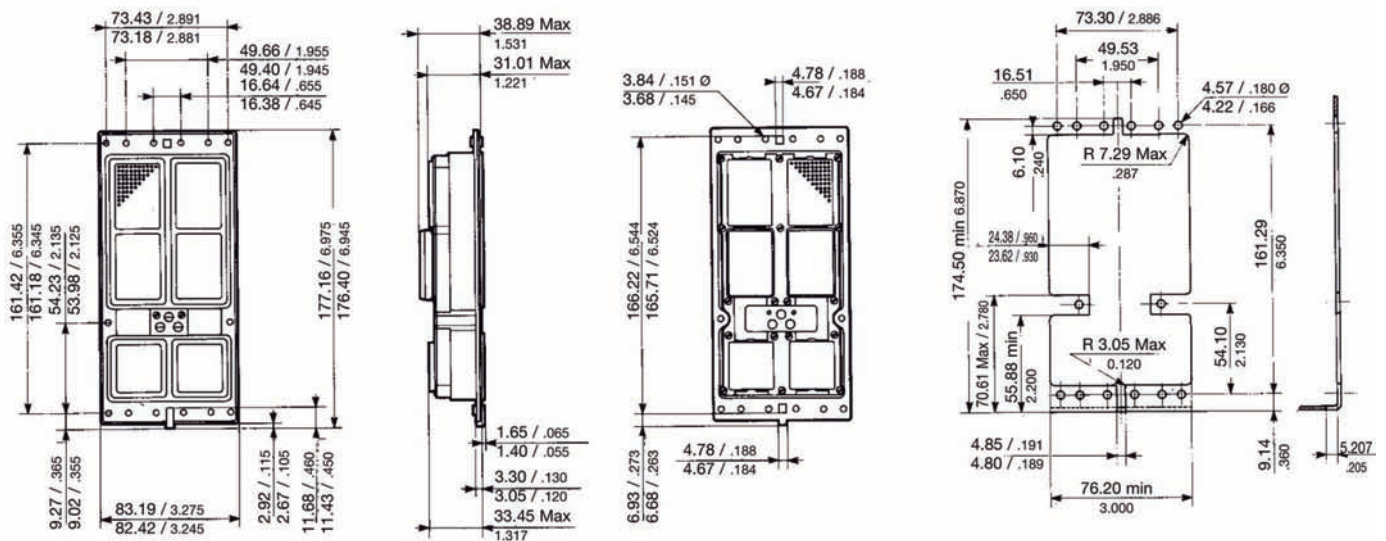
## Dimensions Shell Size 3

### Rack Plug (mm/inch)



Panel cut out

### Equipment Receptacle (mm/inch)



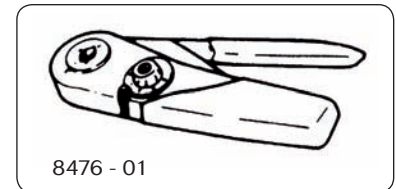
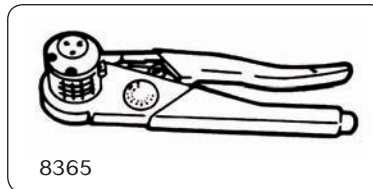
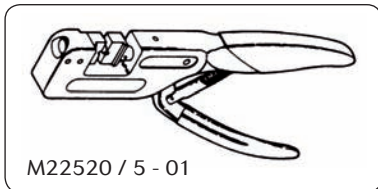
Panel cut out

# Arinc 600 series



## Tooling & Accessories

### Crimping Tools



### Sizes 22, 20, 16, 12 and 8 Quadrax Contacts

| Contact size     | Contact type | Pliers                           |                         |           |                              |            | Cables          |                   |
|------------------|--------------|----------------------------------|-------------------------|-----------|------------------------------|------------|-----------------|-------------------|
|                  |              | M22520 / 5 - 01                  | 8365<br>M22520 / 1 - 01 |           | 8476 - 01<br>M22520 / 2 - 01 |            |                 |                   |
|                  |              | P / N locator                    |                         |           |                              |            | mm <sup>2</sup> | AWG               |
|                  |              | Norm / Spec                      | Norm / Spec             | Souriau   | Norm / Spec                  | Souriau    |                 |                   |
| #22              | F & M        | -                                | -                       | -         | M22520 / 2 - 23              | 8660 - 216 | 0.15 to 0.38    | 26 - 24 - 22      |
| #20              | F & M        | -                                | -                       | -         | M22520 / 2 - 08              | 8476 - 08  | 0.21 to 0.60    | 24 - 22 - 20      |
| #16              | F & M        | -                                | M22520 / 1 - 02         | 8365 - 02 | -                            | -          | 0.60 to 1.34    | 20 - 18 - 16      |
| #16 small barrel | F & M        | -                                | M22520 / 1 - 02         | 8365 - 02 | -                            | -          | 0.21 to 0.93    | 24 - 22 - 20 - 18 |
| #12              | F & M        | -                                | M22520 / 1 - 02         | 8365 - 02 | -                            | -          | 1.91 to 3.18    | 14 - 12           |
| #12 small barrel | F & M        | -                                | M22520 / 1 - 02         | 8365 - 02 | -                            | -          | 0.21 to 0.93    | 24 - 22 - 20 - 18 |
| #8 Quadrax       | Outer        | M22520 / 5 - 45 die set repere B | -                       | -         | -                            | -          | -               | -                 |
|                  | Central      | K709, setting number 5           | -                       | -         | -                            | -          | -               | -                 |

### Size 5 Coaxial Contacts

| Contact part numbers |                    | Pliers                       |                 |
|----------------------|--------------------|------------------------------|-----------------|
|                      |                    | Inner contact                | Body (ferrule)  |
| Sealed connector     | Unsealed connector | 8476 - 01<br>M22520 / 2 - 01 | M22520 / 5 - 01 |
|                      |                    | locator                      | Hex dies        |
| 8660 - 2480 / 2485   | 8660 - 2280 / 2285 | M22520 / 2 - 14              | M22520/ 5 - 45B |
| 8660 - 2481 / 2486   | 8660 - 2281 / 2286 |                              | M22520/ 5 - 37B |
| 8660 - 2482 / 2487   | 8660 - 2282 / 2287 |                              | M22520/ 5 - 45B |
| 8660 - 2483 / 2488   | 8660 - 2283 / 2288 |                              | M22520/ 5 - 37B |
| 8660 - 2484 / 2489   | 8660 - 2284 / 2289 |                              | M22520/ 5 - 43B |

**Size 1 Coaxial Contacts:** do not require assembly tooling.

**Size 8 Triaxial Contacts:** consult wiring instruction

**TCAS Contact:** 8660 - D21 - 100 - 01A / 05

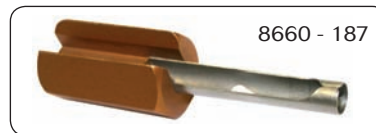
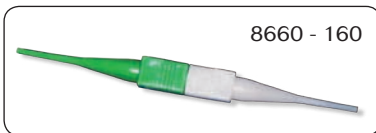
| Contact          | Pliers              |                 | Cables          |
|------------------|---------------------|-----------------|-----------------|
|                  | M22520 / 1 - 01     | M22520 / 5 - 01 |                 |
| P / N locator    |                     |                 |                 |
| Inner contact    | M22520 / 13 SEL - 8 | -               | FILOTEX E0406WD |
| External contact | -                   | M22520 / 5 - 61 | FILOTEX 50MFCFB |

# Arinc 600 series



## Insertion and Extraction Tools

| Contact size | Release              | Material | Part number    |            | Insertion / Extraction tools |            | Note               |
|--------------|----------------------|----------|----------------|------------|------------------------------|------------|--------------------|
|              |                      |          | Spec           | Souriau    | Insertion                    | Extraction |                    |
| #22          | Rear release         | Metal    | M81969 / 1 01  | 8660 - 160 | Green                        | White      | -                  |
| #20          |                      | Metal    | M81969 / 1 02  | 8660 - 188 | Red                          | White      | -                  |
| #16          |                      | Plastic  | M81969 / 14 03 | 8522 - 16  | Blue                         | White      | -                  |
| #12          |                      | Plastic  | M81969 / 14 04 | 8522 - 12  | Yellow                       | White      | -                  |
| #5           |                      | Metal    | M81969 / 28 01 | 8660 - 187 | -                            | Yellow     | -                  |
| #8           | Front & rear release | Metal    | -              | 8660 - 197 | -                            | -          | Insertion = manual |
| #22 WW       | Front release        | Metal    | -              | 8660 - 162 | Red                          | White      | -                  |
| PC Tail #22  |                      |          |                |            |                              |            | -                  |



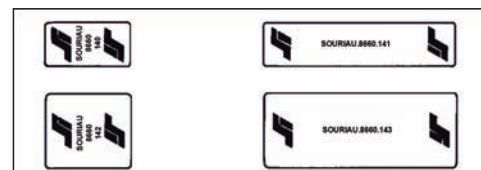
## Covers

Standard covers are supplied with connector (may be supplied separately)

### Plug Covers

Yellow color.

| Shells | Designation      | Part number |
|--------|------------------|-------------|
| 1      | For power block  | 8660 - 140  |
|        | For signal block | 8660 - 141  |
| 2 & 3  | For power block  | 8660 - 142  |
|        | For signal block | 8660 - 143  |

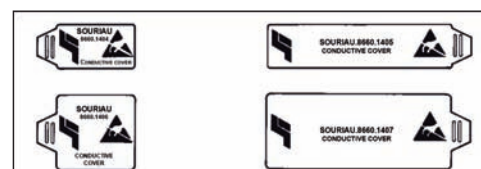


### Antistatic Receptacle Covers

Black color.

These covers are designed to protect equipments against electrostatic discharge risks. They are in self-extinguishing polyphenylene with graphite filler.

| Shells | Designation      | Part number |
|--------|------------------|-------------|
| 1      | For power block  | 8660 - 1404 |
|        | For signal block | 8660 - 1405 |
| 2 & 3  | For power block  | 8660 - 1406 |
|        | For signal block | 8660 - 1407 |





# Arinc 600 series

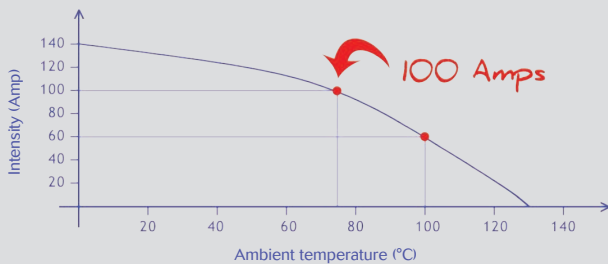


## Products Range Extension

### Power Contact

- . Up to 100 Amps at a temperature of 75°C
- . Integration of 38999 power contact within #8 cavities
- . Available in crimped contacts for plug and receptacle

Derating curve on Arinc 600 equipped with power #8 contacts

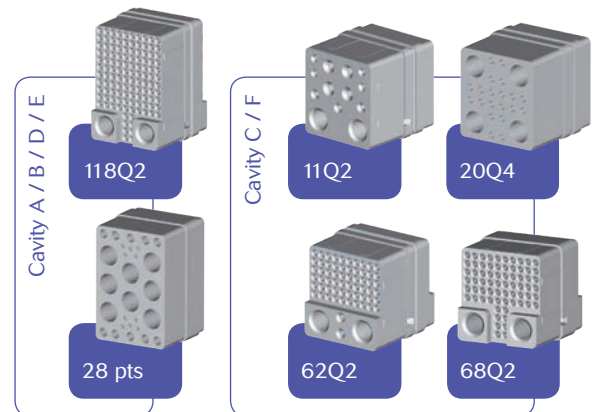


- . At 100 Amps, the allowed maximum ambient temperature is 75°C
- . At 60 Amps, the allowed maximum ambient temperature is 100°C

#8 Power contact



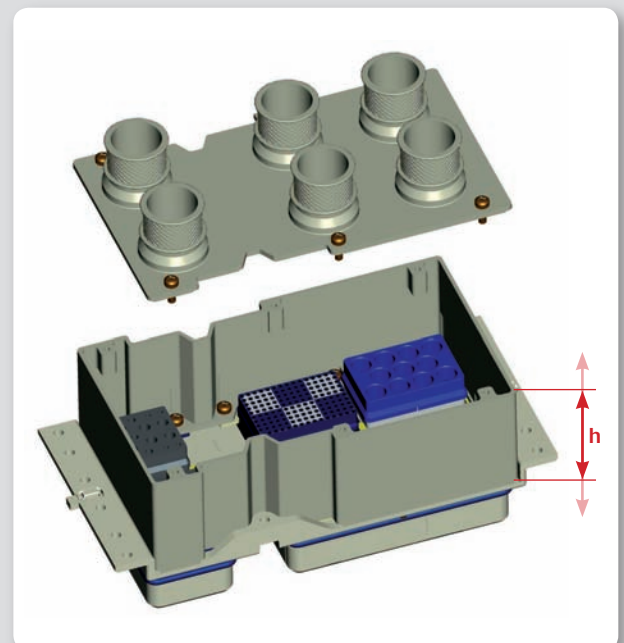
Integration inside Souriau wide range of #8 insert in both cavity A/B/D/E and cavity C/F



### Backshells

EMI / RFI shielding solution for Arinc 600

- . Aluminium alloy with nickel plating for a better continuity
- . PTFE inner lining for cable protection
- . Intermediate plate
  - Height (h) customizable to adapt to your own cabling requirements
  - Integration of grommet for sealed version
- . Outing backshells customisation
  - Circular screw interface for MIL-DTL-38999 and EN2997 backshells
  - Bend it solution for direct cable connection: one interface less = better protection
  - Right angle orientation possibility



# Arinc 600 series



## Products Range Extension

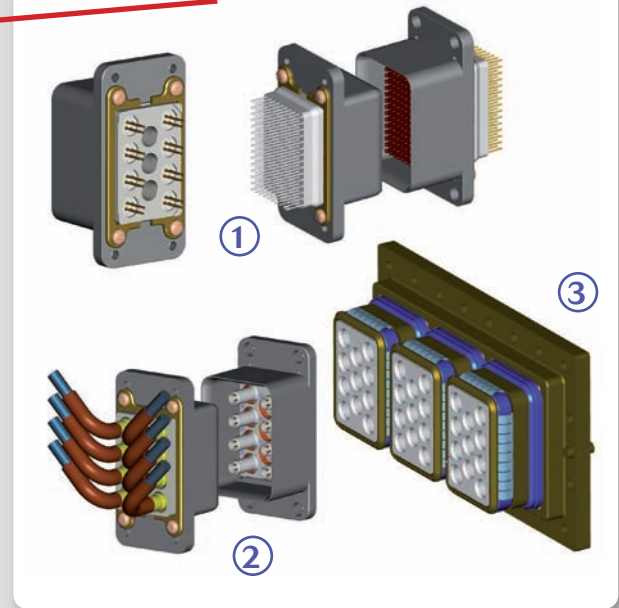
### Custom Product

Souriau is offering a high development capability for your specific needs

- ① . **Specific monocavity**
  - available for any Souriau insulators (pictures: Q11 and 150pts layouts)
- ② . **Space saving solution**
  - With right angle cable orientator
  - 35mm outing length
- ③ . **Specific machined shells for customized needs**

Consult us:  
[contactmilaero@souriau.com](mailto:contactmilaero@souriau.com)

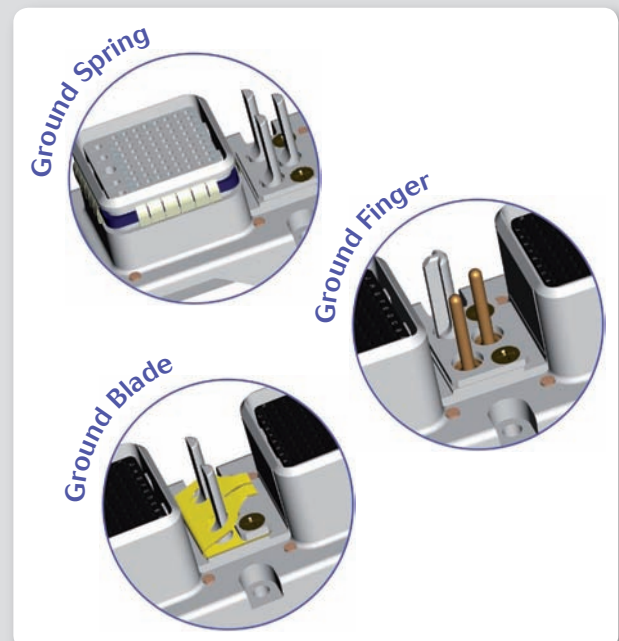
**ON DEMAND**

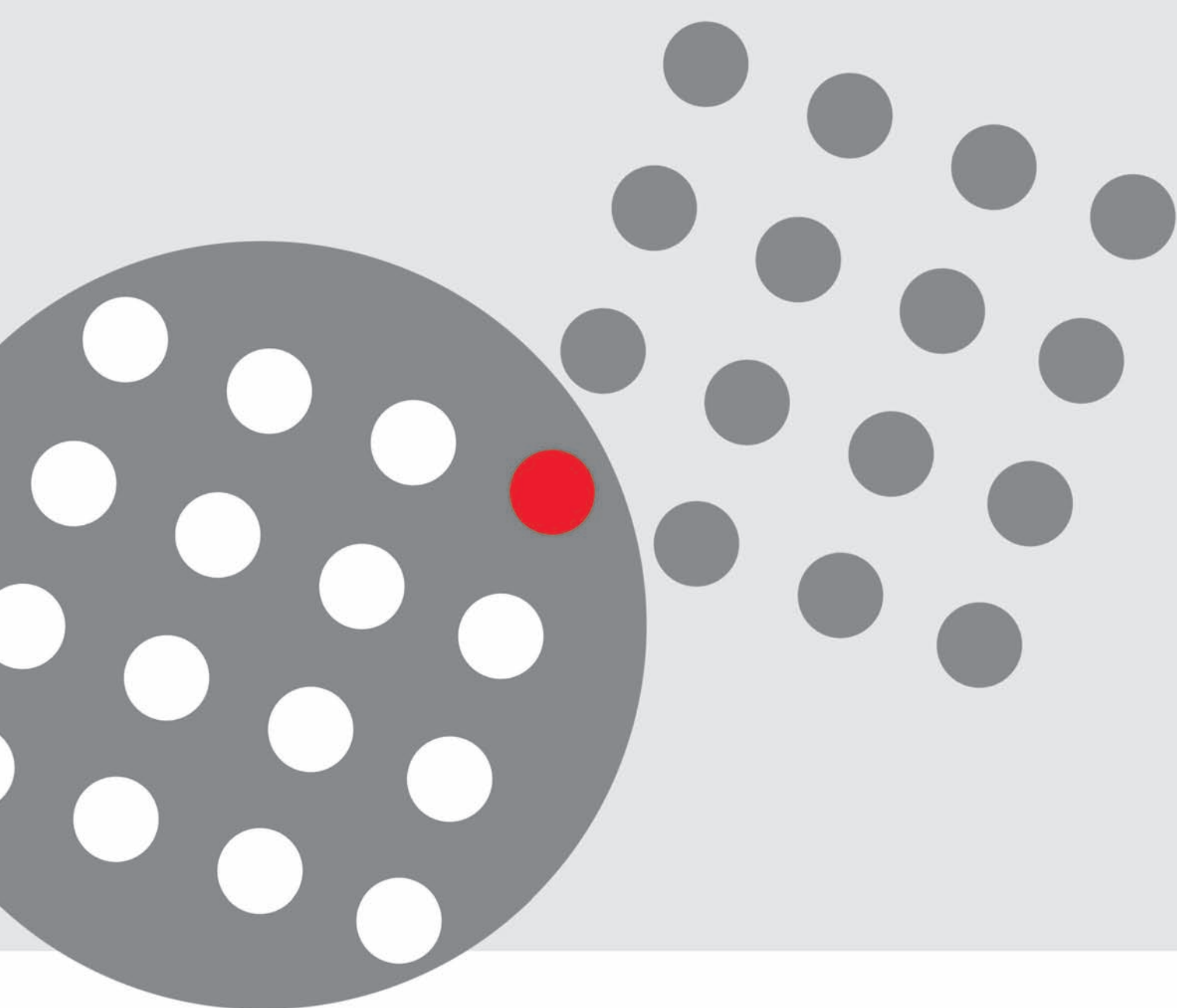


### Grounding

#### Three solutions for shell continuity

- . **Ground spring: Best continuity performance**
  - Spring associated with a nickel plating plug
  - The fixing of the connector ensures the shell continuity
  - Available in shell sizes 2 & 3
  - Sealed and unsealed versions available
- . **Ground finger: Cost effective solution**
  - Connection is ensured by a cable on the equipment
  - Available in shell sizes 1, 2 & 3
  - Sealed and unsealed versions available
- . **Ground blade: Cost effective solution**
  - Enables continuity between plug and receptacle
  - Available in shell sizes 2 & 3
  - Sealed and unsealed versions available





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[contactmilaero@souriau.com](mailto:contactmilaero@souriau.com)

