



*Our Most Important  
Connection is with You.™*



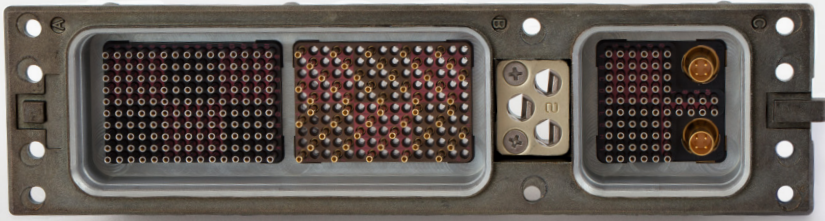
# NSX ARINC 600

## Power and Performance

NSX ARINC 600



## NSX (ARINC 600)



*Radiall's NSX Arinc 600 series has been used for more than 30 years to connect high performance aeronautical equipment.*

*To address new challenges, strong competition and changing regulations, Radiall has designed a new generation of Arinc 600 connectors to meet aerospace market demands without compromising performance or reliability.*

*Radiall's expanded product offering of cost effective RoHS compliant NSX Arinc 600 connectors includes new selectively plated contacts and cost effective inserts. Fully qualified under Arinc 600 specifications and integrated to the widest range of Arinc 600 connectors on the market these lightweight high performance solutions are environmentally friendly and reduce cost up to 20%.*

*For any additional information, please contact your local Radiall representative.*

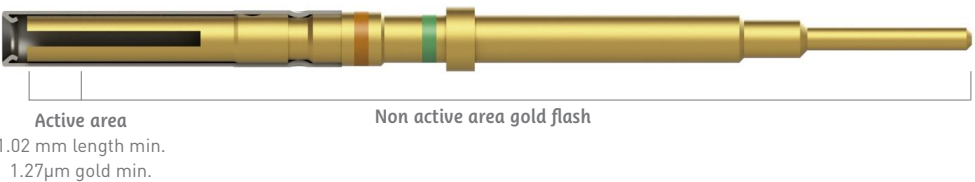
## High performance at a reduced cost

Discover Radiall's wide range of Arinc 600 connectors with proven technology at a reduced cost.

### Drop in replacement with selectively plated gold contacts

With up to 800 size 22 contacts per connector, the first step in achieving connector cost savings while keeping contact removability is to reduce the amount of gold used on non-active areas. Gold Selective Plating provides the same level of conductivity and performance as fully plated contacts while improving price stability.

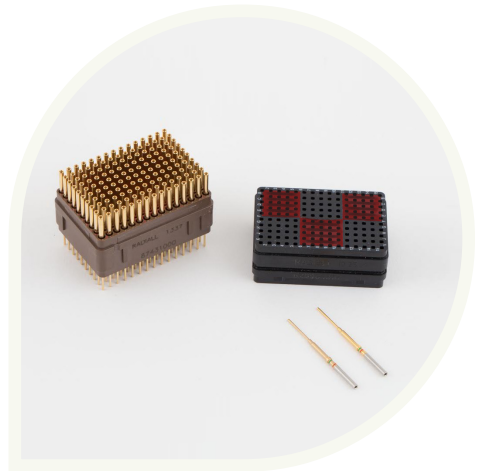
Offering up to 10% connector savings vs the same connector configuration with standard contacts, this solution is available for replacement of front release, front removable #22 PC tail socket contacts, in 4 standard lengths and on any insert.



### Re-designed with monoblock inserts and non-removable selectively plated gold contacts

Taking connector cost savings one step further with a design to cost option. This solution offers new clip-free, monoblock inserts fitted with non-removable contacts. By making the contacts non-removable the manufacturing process is simplified, which reduces connector cost by up to 20% and weight up to 10%.

Available for 100 and 150 insert configurations fully populated with size #22 PC tail socket contacts, in 4 standard lengths.



### Key Benefits

- Mix and match selective plated contacts and cost effective inserts within the same connector provide additional cost savings
- Immediate cost savings without requiring any process change or PCB modification
- Compatible with any connector configuration, including RoHS
- Qualified and flying since 2012

The insert's unique design support basic movement of the contact inside the cavity to provide mechanical play and ensure the same level of performance than standard Arinc 600 connectors.



## Radiall's re-designed NSX Arinc 600 offers high speed connection and RoHS compliance at a competitive price.

*Power and Performance*

### *A high performance green connector series*

Surtec™ 650V is QPL qualified per MIL-DTL-81706B, type II, class 3 and of hexavalent chromium, which is part of substances banned by RoHS directives. This unique solution is fully intermateable with existing Alodine® connectors while maintaining the same level of performance.

**Surtec™ 650 V provides a unique blue-grey coloring which guarantees proper RoHS plating.**



### **Materials & Environmental Performance**

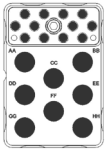
Radiall's complete NSX connector range includes cost savings and RoHS options which meet and exceed Arinc 600 standard requirements.

- *Temperature range:* - 65°C/+125°C
- *Temperature life:* 1000 hours at 125 °C
- *Salt spray:* MIL-STD-1344 method 1001.1 test condition B (48 hours)
- *Moisture resistance:* MIL-STD-1344 method 1002.1 test condition II (10 times 24 hours)
- *Sealing:* environment resistant to running water (environmental version only)
- *Fluid resistance:* resistance to MIL-STD-1344 method 1016 (fluids a, e, i)
- *Durability:* 500 mating and unmating cycles
- *Random vibration:* conforming to MIL-STD-1344 method 2005.1 test condition 5 letter E. (16.4g, from 50 to 2000 Hz, 8 hours per direction)
- *Shock:* 50g 11 ms half sine, MIL-STD-1344 method 2004.1, 3 impacts per direction.
- *Mating force:*
  - connector size 1 : 27 pounds (120 N) max
  - connector size 2 : 60 pounds (267 N) max
  - connector size 3 : 105 pounds (467 N) max

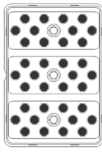
# Wide product range designed for high speed connection

Radiall offers a large range of NSX (Arinc 600) connector solutions.

## Optical inserts



**20F12Q8**  
8#8 Quadrax  
12#16 LuxCis



**36F36**  
36 LuxCis



**12F12**  
12#16 LuxCis



**17F12Q2**  
2#8 Quadrax  
3#16 Contacts  
12#16 Luxcis

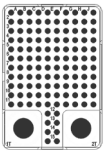


**62F12**  
50#22  
12#16 LuxCis

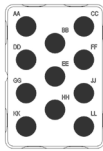


**12F5C2**

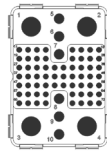
## Quadrax inserts



**118Q2**  
2#8 Quadrax  
3#16 Contacts  
12#16 Luxcis



**Q11**  
11#8 Quadrax



**68Q4**  
4#8 Quadrax  
52#22  
6#16



**11Q2**  
4#20  
3#16  
4#12  
2#8G



**11WQ2**  
4#20  
3#16  
4#12  
2#8G



**46Q2**  
40#22  
2#16  
2#8G



**62Q2**  
2#8 Quadrax  
60#22  
4#12



**68Q2**  
2#8 Quadrax  
68#22 Contacts  
2#16 Contacts



**15T6Q2**  
2#8 Quadrax  
7#16 Contacts  
6#10 Contacts



**20Q4**  
20#20  
4#8 Quadrax



**Q6**  
6#8 Quadrax

## Quadrax – Fiber Optic Adapters

Size 8 Adapters will allow to turn any quadrax cavity into a Fiber Optic link.

### Quadrax LuxCis Adapters



**620946001**  
Pin FR



**620946002**  
Pin RR



**620946003**  
Socket RR



**620946004**  
Sleeve holder



**620946005**  
Pin RR



**620946006**  
Socket RR

### EN 4531-101 for Quadrax size 8 cavity

## Backshell

Whether it's a need for strain relief or EMI shielding, Radiall's new NSX Arinc 600 backshells compliments the comprehensive range of existing Arinc 600 connectors.

- Available for size 1, 2 and 3 connectors,
- Unique adapter plate allows for a perfect adaptation on your Arinc 600 connector
- Standard round output or cable clamps available.



Our most  
important  
connection  
is with you.™

It's not just a slogan. It's a statement of our earnest desire to put you at the forefront of all our business practices. As part of Radiall's mission to be available and accessible, we make it a priority to have local offices around the globe ready and able to assist you – wherever you are, whenever you need us.

## Europe

Address	PHONE / FAX	EMAIL
<b>FINLAND</b> - Radiall Finland PO Box 202 - 90101 Oulu	P: +358 407522412	infofi@radiall.com
<b>FRANCE</b> - Radiall SA 25 Rue Madeleine Vionnet - 93300 Aubervilliers	P: +33 (0)1 49 35 35 35	info@radiall.com
<b>GERMANY</b> - Radiall GmbH Carl-Zeiss Str. 10 - D 63322 Rödermark	P: +49 60 74 91 07 0 F: +49 60 74 91 07 10	infode@radiall.com
<b>ITALY</b> - Radiall Elettronica S.R.L. Via Della Resistenza 113 - 20090 Buccinasco Milano	P: +39 02 48 85 121 F: +39 02 48 84 30 18	infode@radiall.com
<b>NETHERLANDS</b> - Radiall Nederland BV Hogebrinkerweg 15b - 3871 KM Hoevelaken	P: +31 (0)33 253 40 09 F: +31 (0)33 253 45 12	infonl@radiall.com
<b>SWEDEN</b> - Radiall AB Sollentunavägen 63 - 191 40 Sollentuna	P: +46 8 444 34 10	infose@radiall.com
<b>UNITED KINGDOM</b> - Radiall Ltd Profile West - 950 Great West Rd Brentford, Middlesex TW8 9ES	P: +44 (0)1895 425000 F: +44 (0)1895 425010	infouk@radiall.com

## Asia

Address	PHONE / FAX	EMAIL
<b>CHINA</b> - Shanghai Radiall Electronics CO, Ltd N° 390 Yong He Rd SHANGHAI 200072 P.R.C	P: +86 21 66523788 F: +86 21 66521177	infozh@radiall.com
<b>HONG KONG</b> - Radiall Electronics (Asia) Ltd Flat D, 6/F, Ford Glory Plaza, 37-39 Wing Hong Street - Cheung Sha Wan - Kowloon - Hong Kong	P: +852 29593833 F: +852 29592636	infohk@radiall.com
<b>INDIA</b> - Radiall India Pvt. Ltd 25.D.II phase Peenya Industrial Area. Bangalore-560058	P: +91 80 283 95 271 F: +91 80 283 97 228	infoin@radiall.com
<b>JAPAN</b> - Nihon Radiall Shibuya-Ku Ebisu 1-5-2, Kougetsu Bldg 405 - Tokyo 150-0013	P: +81 3 34406241 F: +81 3 34406242	infojp@radiall.com

## Americas

Address	PHONE / FAX	EMAIL
<b>USA &amp; CANADA</b> - Radiall USA, Inc. 8950 South 52nd Street Ste 401 Tempe, AZ 85284	P: +1 480-682-9400 F: +1 480-682-9403	infousa@radiall.com

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AUSTRALIA	AUSTRIA	BELGIUM	BRAZIL	CZECH REPUBLIC	DENMARK	ESTONIA	GREECE	HUNGARY
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