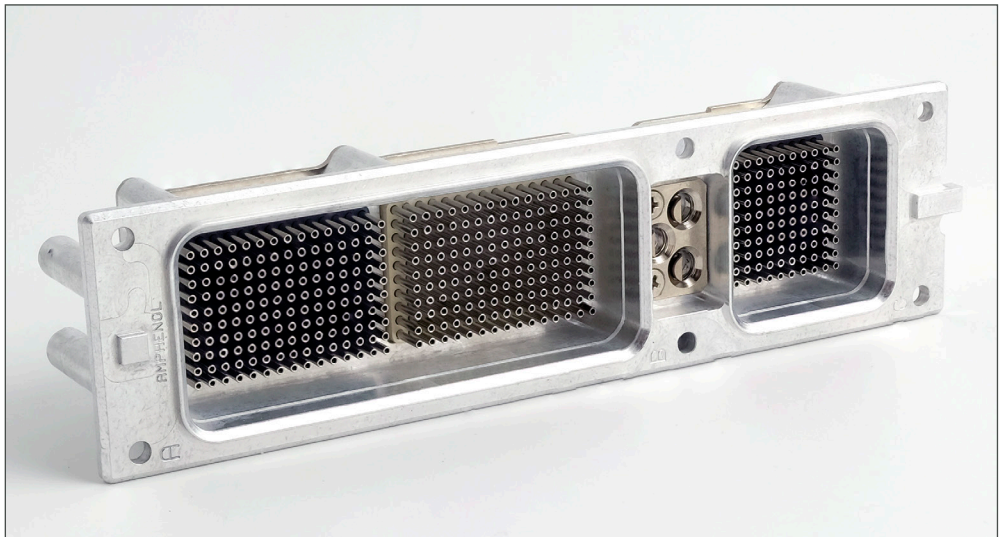


Next Gen ARINC 600 Stamped & Formed Contacts

Introduction

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



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

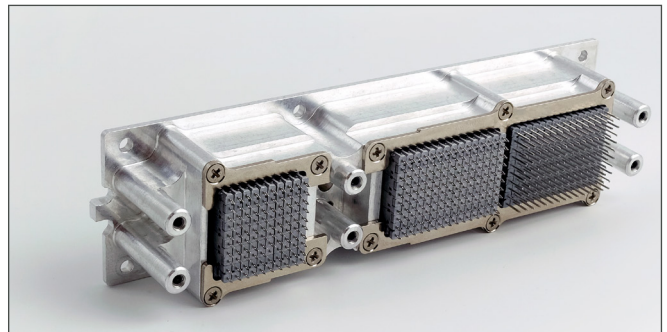
These inserts and contacts are fully tested and in compliance with all ARINC 600 specifications and RoHS compliant. The contacts are designed using stamped and formed method with overmolding technology. They are completely inter-changeable and mateable with all existing Size 22 contacts. Contact Amphenol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

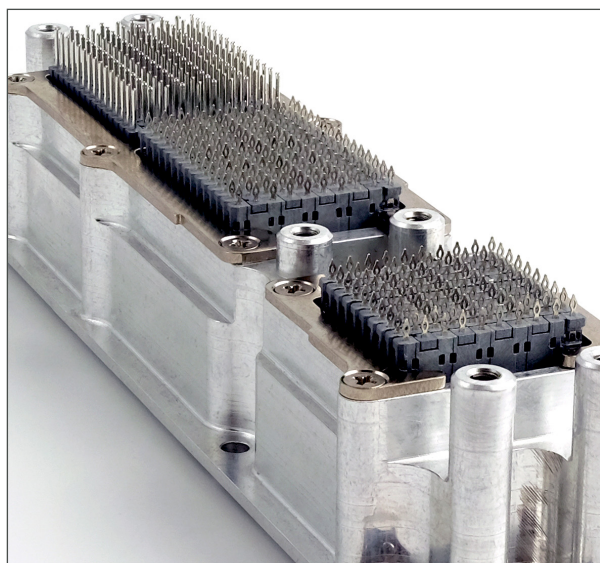
PRODUCT FEATURES

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

CUSTOMIZATION

Consult Amphenol Canada for additional information on custom applications.





FEATURES

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

MECHANICAL

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

ENVIRONMENTAL

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

ELECTRICAL

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

APPLICATIONS

Commercial

- Navigation/Radar
- Engine Controls
- Airframe & Landing Gear
- In-Flight Entertainment (IFE)

Military

- Tactical/Mission Systems
- Power Distribution & Control
- Weapons Systems
- Avionics Mission Systems
- Radar
- Engine Controls
- Airframe & Landing Gear
- Weapons Systems



How to Order - Next Generation Board Mount Receptacle's

For Plugs and Standard Receptacles, please see page 9

PART NUMBER KEY

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



STEPS

PART # DESCRIPTION

1. CONNECTOR SERIES	A	ARINC 600
----------------------------	----------	-----------

2. CLASS	L	PC Tail
	M	PC Tail & Rear Removable Crimp Contacts (Typically RF or power)

3. SHELL SIZE	1	Max. contact capacity - 160
	2	Max. contact capacity - 400
	3	Max. contact capacity - 800

4. INSERT LAYOUT PAGE 15-21	PAGES 15-21	The connector layout designator number represents the total number of contacts within the layout including waveguides. Consult Amphenol Canada Corporation for further availability of insert combinations. See pages 15-21.
------------------------------------	--------------------	--

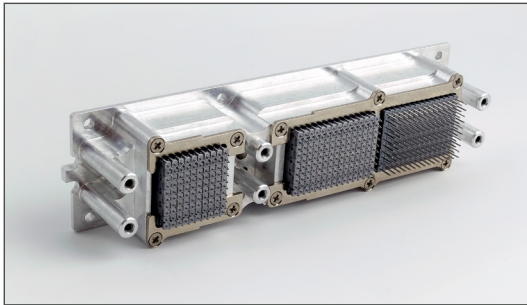
5. SHELL TYPE	4	Receptacle
	5	Receptacle W/ Integral Stand-Offs
Required for Press-Fit designs but can also be used on PC Tail Contacts		

6. MOUNTING MODIFIER PAGE 22-24	PAGES 22-24	See charts on pages 22- 24. Consult factory if other modifications are required.
--	--------------------	---

7. POLARIZING POSITION PAGE 25-27	PAGES 25-27	Polarizing posts or keys not installed but supplied with connector see pages 25-27.
--	--------------------	---

8. CONTACT MODIFIER MATERIAL	NGX	S&F TAIL EXTENSION
	NGA	.250" PC TAIL, ALL CONTACTS INCLUDED EXCEPT RF
	NGB	.375" PC TAIL, ALL CONTACTS INCLUDED EXCEPT RF
	G & T Options require Shell Type '5 w/ Integrated Stand-Offs'	
	NGG	.040" (1.02MM) Press Fit - GOLD, ALL CONTACTS INCLUDED, EXCEPT RF
	NGT	.040" (1.02MM) Press-Fit - TIN, ALL CONTACTS INCLUDED, EXCEPT RF

RECEPTACLE



Panel Cut-Out
see page 28

