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Item # AD1-125-40100FO, ARINC 600 - Rack and Panel Connectors

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ARINC 600 Connectors are a recognized standard rack and panel connector for aircraft applications. The ARINC 600 is the successor to the ARINC 404 for many of the new avionic designs. Compared to the ARINC 404, the ARINC 600 features lower mating force contacts, increased contact count and a front release, floating keying system. Amphenol's extensive product offering will meet the most demanding needs of our customers. At the design-in stage, Amphenol's sales engineers will work with you to select a connector from our standard product line or coordinate the design of an application specific connector. Amphenol's ARINC 600 rack and panel connectors are designed to meet all relevant ARINC 600 connector specifications.

- Amphenol ARINC 600 Connectors offer:**
- Low insertion force contacts
 - Both environmental and non-environmental versions
 - Front removable keying posts
 - Field replaceable inserts for size 22 and power contacts
 - Up to 800 size 22 contact positions in one connector
 - Crimp, coaxial, power, printed circuit, and wire wrap contacts
 - Waveguide connections

[Specifications](#) | [Cavity A](#) | [Cavity B](#) | [Cavity C](#) | [Connector Layout Arrangements](#) | [Polarizing Position](#) | [Performance Specifications](#) | [Material Specifications](#)

Specifications	
Connector Series	Amphenol ARINC 600
Shell Style	Receptacle (box side)
Class: Environmental/Non-Environmental and Termination	Non-environmental (rear release, crimp contacts)
Shell Size	Size 1 (Max. contact capacity - 160)
Mating force	20 lbs. (89 N) max.
Plating	Chem Conversion, Class 3
Mounting Modifier	01 - #6-32 clinch nuts (see popup, dev. 01)
Modifier (Contact, Material)	Contacts not supplied with connector (FO not stamped on connector)
Custom Requirement	No

Cavity A	
Insert	
First Contact Size	#22
Number of First Contacts	60

Cavity B	
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VIEW CAD DRAWING

3D



2D Front View



2D Right Side View



2D Back View

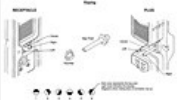


2D Sales Drawing

Insert	
	
60	
First Contact Size	#22
Number of First Contacts	60

Cavity C	
Insert	
	
5C2	
First Contact Size	#16
Number of First Contacts	2
Second Contact Size	#12
Number of Second Contacts	1
Third Contact Size	#5 Coax
Number of Third Contacts	2

Connector Layout Arrangements	
Layout Designator Number	125

Polarizing Position	
Polarizing Position 	00 
Left Post	 None
Center Post	 None
Right Post	 None

Performance Specifications	
Dielectric withstanding voltage (DWW)	1500Vrms 500 Vrms at 50,000 ft. (15,240m)
Contact resistance Size 22:	8.0 milliohms, initial (max.) 11.0 milliohms, conditioned (max.)
Contact resistance Size 20:	7.0 milliohms, initial (max.) 8.5 milliohms,conditioned (max.)
Contact resistance Size 16:	7.0 milliohms, initial (max.) 8.5 milliohms,conditioned (max.)
Contact resistance Size 12:	2.0 milliohms, initial (max.) 2.5 milliohms, conditioned (max.)
Insulation Resistance	5.0 gigaohms min. at 500 VDC
Durability	500 cycles min. - mating & unmating
Temperature range	-65°C (-86° F) to +125°C (+275° F)
MIL-STD-1344, Method 2005.1, condition value E: random - 16.4G minimum	

Vibration:	severity: 8 hours in each of 3 mutually perpendicular planes with 100mA electrical load. No visible damage, breakage, cracking or loosening of parts and no discontinuities exceeding 1 microsecond.
Shock	MIL-STD-1344, Method 2004.1, test condition A: Three shocks in each direction along each of 3 axes, mutually perpendicular to each other. No visible damage, breakage, cracking or loosening of parts and no discontinuities exceeding 1 microsecond.

Material Specifications	
Shells	Aluminum alloy, See Connector Mounting Modifier for Plating
Retaining plates	Aluminum alloy, electroless nickel plated
Polarizing keys	Aluminum alloy, electroless nickel plated
Insulator material	Thermoset/Thermoplastic
Inserts, grounded	Aluminum alloy, electroless nickel plated
Screws, lockwashers, washers	Stainless steel, passivated
Contact bodies	Copper alloy, gold plated
Contact retention clips	Copper, gold plated
Seals & grommets	Silicone/fluorosilicone elastomer
O-Rings	Silicone/fluorosilicone rubber, colored blue
EMI springs	Copper alloy, electroless nickel plated

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