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UPCOMING EVENTS
AUSA 2018
Walter E. Washington Convention Center
Washington D.C.
October 8-10, 2018

Item # AD1-125-3000000, ARINC 600 - Rack and Panel Connectors

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 + more

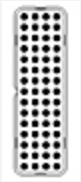
Specifications | Cavity A | Cavity B | Cavity C | Connector Layout Arrangements | Polarizing Position | Performance Specifications | Material Specifications

Specifications

Connector Series	Amphenol ARINC 600
Shell Style	Plug (rack 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	Chemical Conversion, Class 3
Mounting Modifier	00 - .148 dia. mounting holes, standard 
Modifier (Contact, Material)	Rear release, crimp, signal and power contacts supplied with connector (when applicable)
Custom Requirement	No

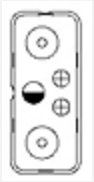
Cavity A

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

Cavity B

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

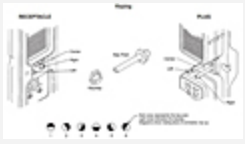
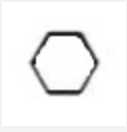
Cavity C

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

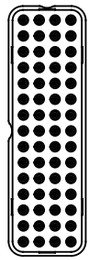
Dielectric withstanding voltage (DWV)	1500Vrms 500 Vrms at 50,000 ft. (15,240m)
Contact resistance Size 22:	8.0 milliohms, initial (max.) 11.0 milliohms, conditioned (max.)
Contact resistance Size 20:	7.0 milliohms, initial (max.) 8.5 milliohms,conditioned (max.)
Contact resistance Size 16:	7.0 milliohms, 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)
Vibration:	MIL-STD-1344, Method 2005.1, condition value E: random - 16.4G minimum 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

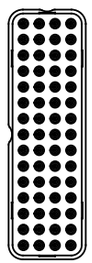
Shells	Aluminum alloy, See Connector Mounting Modifier for Plating

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

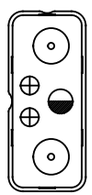
Cavity	Height
A	1.102[27.99]
B	1.102[27.99]
C (max)	1.201[30.51]



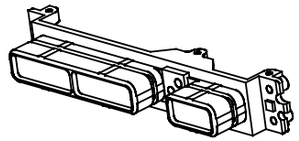
Insert 60
(60) Size 22 Contacts

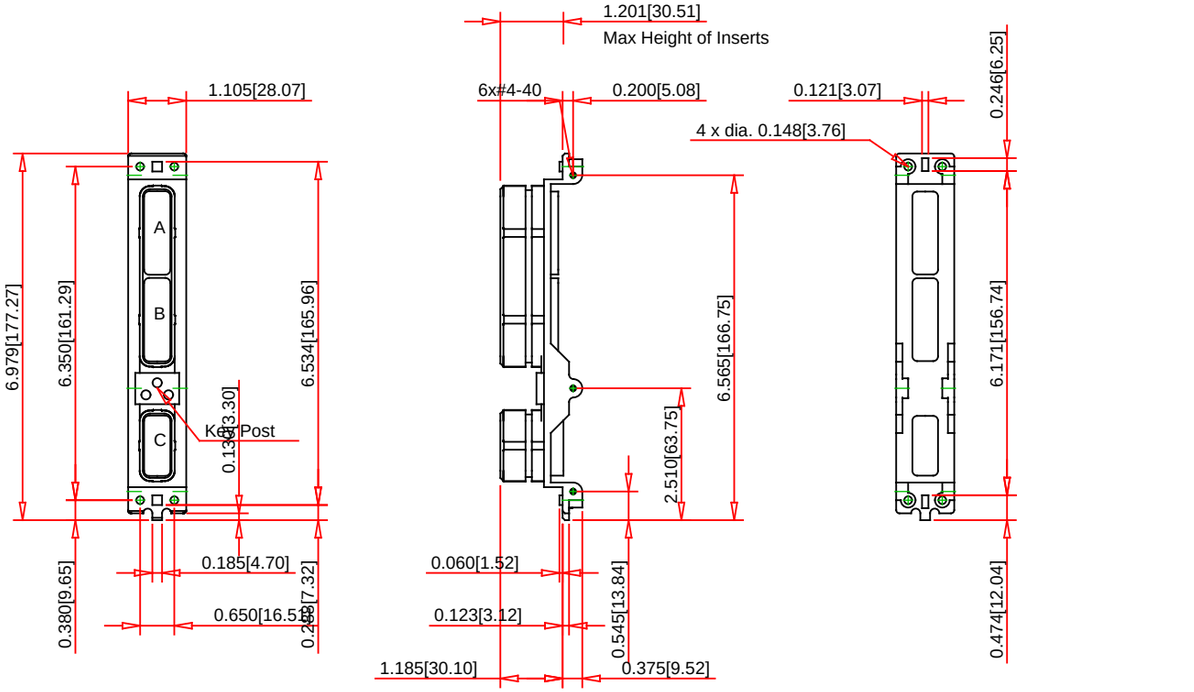


Insert 60
(60) Size 22 Contacts



Insert 5C2
(2) Size 16 Contacts
(1) Size 12 Contacts
(2) Size 5 Coax Contacts





Contact Legend:

- Size 22
- Size 16
- Size 12
- Size 8 Coax/Twinax
- Size 8 Quadrax
- Size 1 Coax
- Size 20
- Size 16 Fiber
- Size 12 Coax
- Size 8 Twinax
- Size 5 Coax

Performance Specifications	
Dielectric withstanding voltage (DWV)	0
Contact resistance Size 22:	0
Contact resistance Size 20:	0
Contact resistance Size 16:	0
Contact resistance Size 12:	0
Insulation Resistance	0
Durability	0
Temperature Range	0
Vibration:	0
Shock	0
Material Specifications	
Shells	0
Retaining plates	0
Polarizing keys	0
Insulator material	0
Inserts, grounded	0
Screws, lockwashers, washers	0
Contact bodies	0
Contact retention clips	0
Seals & grommets	0
O-Rings	0
EMI springs	0

Note :
- Drawing not to Scale
- Dimensions subject to change.
- Dimensions are in Inches [mm]
- Nominal Dimensions Shown

Part No. :

AD1-125-30000OO

Description :

ARINC 600 - Rack and Panel Connectors

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MILITARY & AEROSPACE

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