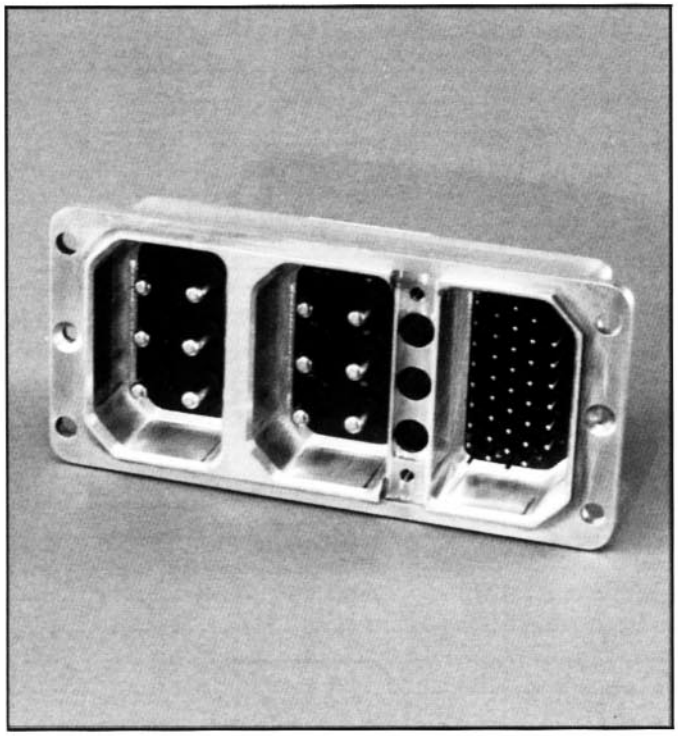
Amphenol® ARINC 404
Rack and Panel Connectors

SL-378-3

Amphenol® Canada Corporation

Amphenol® ARINC 404
rack and panel connectors



Introduction

Amphenol's "AR" Series, ARINC rack and panel connectors are designed to meet or exceed the requirements of MIL-C-81659 and ARINC Specification 404. The "AR" Series is a multi-purpose connector used in aerospace, military and computer periphery applications.

These connectors are available in five shell styles with up to four insert cavities. Inserts in this product line accommodate signal and power contacts in sizes 12, 16, 20 and 22. Coaxial contacts are available in sizes 5 and 9. Insert arrangements are available utilizing a single type contact or a combination of standard and coaxial contacts.

Non-environmental and environmentally sealed connectors are offered. The environmental sealing is accomplished by wire sealing grommets and interfacial seals. Application specific designs, including transient protection, are available from Amphenol. Please ask your local sales engineer or contact Amphenol, Canada Corporation for further information.

Performance Specifications

Amphenol "AR" Series Connectors are designed per ARINC 404 specifications and utilize pin and socket contacts manufactured in conformance with MIL-C-39029B.

Insulation Resistance: . . . . . 5000 megohms @25°C

Dielectric Withstanding Voltage (Sea Level):

	Service Rating A	Service Rating B*
Environmental Sealed	1,500V rms	1,800V rms
Non-environmental, Standard	1,000V rms	1,500V rms

Temperature Range: . . . . . (-55 C to +125 C) -67 F to +257 F

Contact Current Rating:
- Size 22 (#22 AWG Wire) . . . . . 5.0 amps
- Size 20 (#20 AWG Wire) . . . . . 7.5 amps
- Size 16 (#16 AWG Wire) . . . . . 13.0 amps
- Size 12 (#12 AWG Wire) . . . . . 23.0 amps

Contact Retention:
- Size 22 . . . . . 15 lb. (min.)
- Size 20 . . . . . 20 lb. (min.)
- Size 16 . . . . . 25 lb. (min.)
- Size 12 . . . . . 30 lb. (min.)

Durability (Mating and Unmating): . . . . . 500 cycles

Salt Spray: . . . . . MIL-STD-1344, Method 1001, Condition B

Vibration: . . . . . MIL-STD-1344, Method 2005, Condition IV

* Meets service ratings as shown in MS 3157

Material Specifications

Shell:
Die cast aluminum alloy per QQ-A-591/A380; cadmium plated with yellow chromate conversion per QQ-P-416, Type II Class 2.

Insertion Retention Plates:
Aluminum alloy, blue anodized per MIL-A-8625

Screws & Washers: . . . . . Stainless steel, passivated

Dielectric, Hard: . . . . . Epoxy, per MIL-M-24325

Keying Posts and Nuts: . . . . . Stainless steel, passivated

Keying Inserts (Receptacle Only): . . . . . Aluminum alloy

Pin and Socket Body:
- Material . . . . . Copper alloy
- Finish . . . . . Gold over nickel over copper plate

Socket Sleeve: . . . . . Material - passivated stainless steel

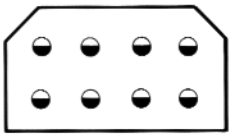
Coaxial Contact Body Components:
- Materials . . . . . Brass & beryllium copper
- Finish . . . . . Gold plated

Coaxial Contact Ferrules:
- Materials . . . . . Annealed copper alloy
- Finish . . . . . Gold plated

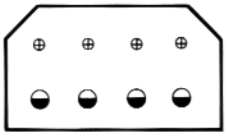
ARINC 404
contact arrangements

Amphenol®"AR" Series Connectors

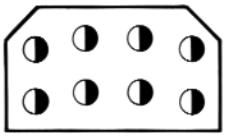
Front face of pin insert shown.



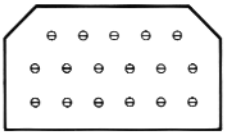
Insert 8
(8) Size 12 Contacts



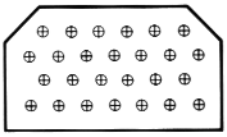
Insert D8
(4) Size 12 Contacts
(4) Size 16 Contacts or
(4) Size 15 Coax Contacts



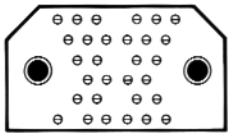
Insert C8
(8) Size 9 Coax Contacts



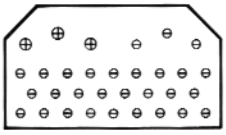
Insert 17
(17) Size 20 Contacts



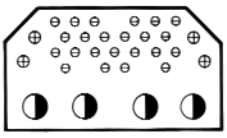
Insert 26
(26) Size 16 Contacts or
(26) Size 15 Coax Contacts



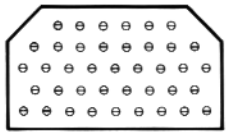
Insert 32C2
(30) Size 20 Contacts
(2) Size 5 Coax Contacts



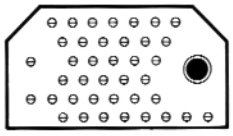
Insert 32
(29) Size 20 Contacts
(3) Size 16 Contacts



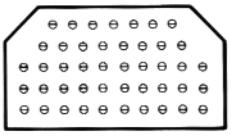
Insert 32C4
(24) Size 20 Contacts
(4) Size 16 Contacts
(4) Size 9 Coax Contacts



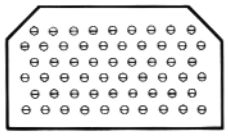
Insert 40
(40) Size 20 Contacts



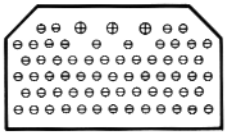
Insert 40C1
(39) Size 20 Contacts
(1) Size 5 Coax Contact



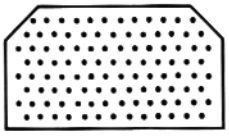
Insert 45
(45) Size 20 Contacts



Insert 57
(57) Size 20 Contacts



Insert 67
(64) Size 20 Contacts
(3) Size 16 Contacts or
(3) Size 15 Coax Contacts



Insert 106
(106) Size 22 Contacts
with metal contact retention clips

Notes:
1. Mating face of pin insert shown. Socket face is mirror image.
2. Some arrangements are not available in all series. Consult Amphenol for more information.
3. Insert 106 has reversed contact sex.
4. For military version, consult Amphenol Canada Corporation.

CONTACT LEGEND

5 Coax	9 Coax	12	16	20	22

ARINC 404
insert availability and identification

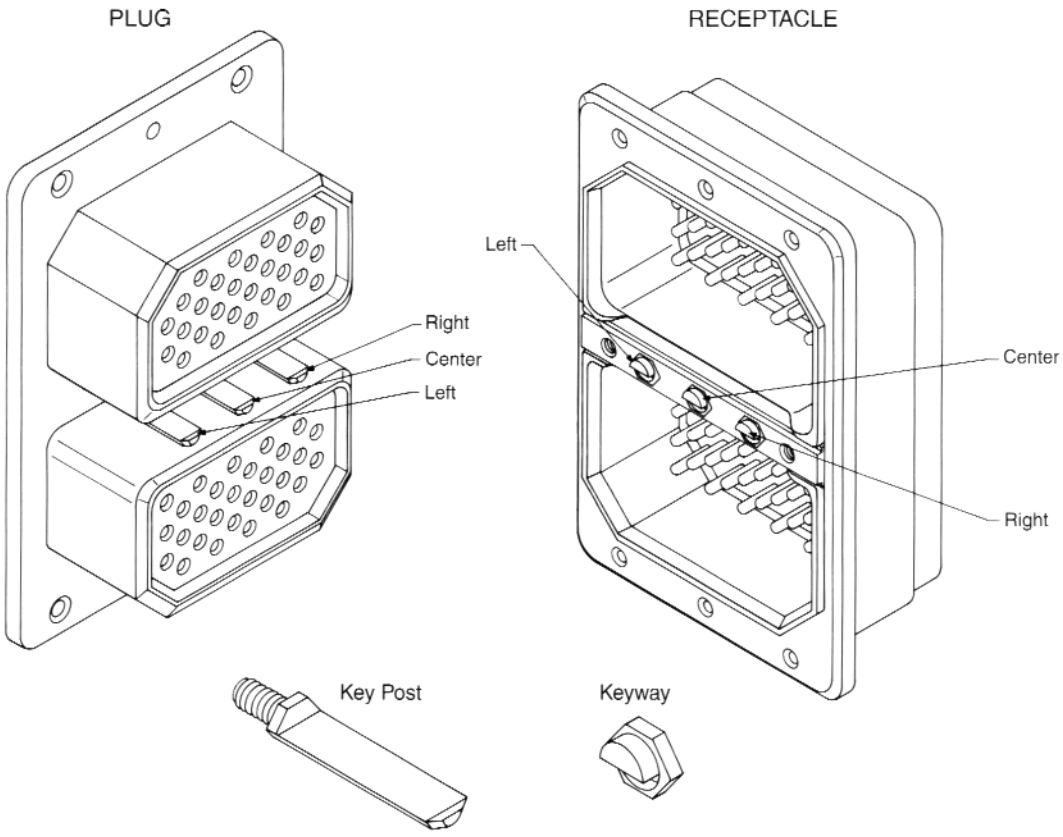
Insert Arrangement	Type	Class	Pin (X designates available)	Socket (X designates available)
7		A	X	X
7		E		
7		B		
8		A	X	X
8		E	X	X
8		B	X	X
D8		A	X	X
D8		E	X	X
D8		B		
C8		A	X	X
C8		E	X	X
C8		B	X	X
17	LD	A	X	X
17	LD	E		
17	LD	B		
26		A	X	X
26		E	X	X
26		B	X	X
32C2*	HD	A	X	X
32C2*	HD	E	X	X
32C2*	HD	B		
32C2	LD	A	X	X
32C2	LD	E		
32C2	LD	B	X	X
32	LD	A	X	X
32	LD	E		
32	LD	B		
32C4*	HD	A	X	X
32C4*	HD	E	X	X
32C4*	HD	B		
32C4	LD	A	X	X
32C4	LD	E	X	X
32C4	LD	B	X	X
33C4*	HD	A	X	X
33C4*	HD	E	X	X
33C4*	HD	B		

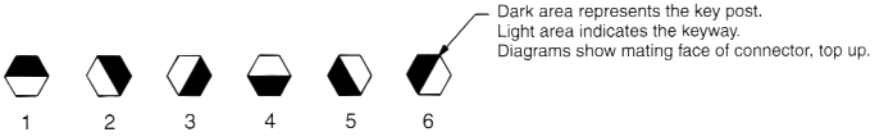
Insert Arrangement	Type	Class	Pin (X designates available)	Socket (X designates available)
36C7*		A	X	X
36C7*		E	X	X
36C7*		B		
40*	HD	A	X	X
40*	HD	E	X	X
40*	HD	B		
40	LD	A	X	X
40	LD	E	X	X
40	LD	B	X	X
40C1*	HD	A	X	X
40C1*	HD	E	X	X
40C1*	HD	B		
40C1	LD	A	X	X
40C1	LD	E	X	X
40C1	LD	B	X	X
45*	HD	A	X	X
45*	HD	E	X	X
45*	HD	B		
45	LD	A	X	X
45	LD	E	X	X
45	LD	B	X	X
57*	HD	A	X	X
57*	HD	E	X	X
57*	HD	B		
57	LD	A	X	X
57	LD	E	X	X
57	LD	B	X	X
67	HD	A	X	X
67	HD	E	X	X
67	HD	B	X	X
106		A	X	X
106		E	X	X
106		B		X

For availability of other arrangements, consult Amphenol Canada Corporation.
LD designates Low Density size 20 contacts.
HD designates High Density size 20 contacts.
* designates Military style inserts

ARINC 404
keying

Keying





Keying Components

Key post Kit	3 posts, 3 nuts (for Plug)	AC-040020-P01
Keyway Kit	3 keyways, 1 plate, 2 screws (for Receptacle)	AC-040020-K01

NOTES: 1. If polarizing position code is (- -), posts and keys will not be installed, but supplied with connector.
2. If the last two digits are designated 00, it means that polarizing posts are not supplied.

See page 5 for polarizing positions.

ARINC 404
polarizing positions

The following chart lists the polarizing position codes that will describe the keying positions available.
See how to order procedure on page 12 for incorporating these polarizing codes into part numbers.

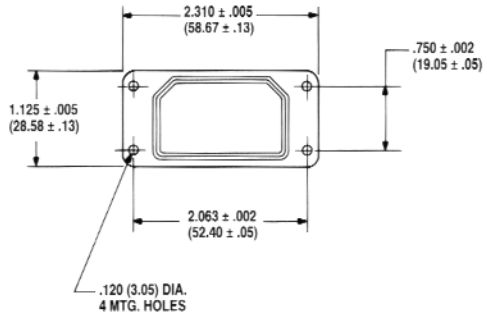
Plug				Receptacle			
CODE	POSITIONS			CODE	POSITIONS		
	Left Key Post	Center Key Post	Right Key Post		Left Key Post	Center Key Post	Right Key Post
00	-	-	-	00	-	-	-
01	1	1	1	01	4	4	4
02	2	1	1	02	4	4	3
03	3	1	1	03	4	4	2
04	4	1	1	04	4	4	1
05	5	1	1	05	4	4	6
06	6	1	1	06	4	4	5
07	1	1	6	07	5	4	4
08	2	1	6	08	5	4	3
09	3	1	6	09	5	4	2
10	4	1	6	10	5	4	1
11	5	1	6	11	5	4	6
12	6	1	6	12	5	4	5
13	1	1	5	13	6	4	4
14	2	1	5	14	6	4	3
15	3	1	5	15	6	4	2
16	4	1	5	16	6	4	1
17	5	1	5	17	6	4	6
18	6	1	5	18	6	4	5
19	1	1	4	19	1	4	4
20	2	1	4	20	1	4	3
21	3	1	4	21	1	4	2
22	4	1	4	22	1	4	1
23	5	1	4	23	1	4	6
24	6	1	4	24	1	4	5
25	1	1	3	25	2	4	4
26	2	1	3	26	2	4	3
27	3	1	3	27	2	4	2
28	4	1	3	28	2	4	1
29	5	1	3	29	2	4	6
30	6	1	3	30	2	4	5
31	1	1	2	31	3	4	4
32	2	1	2	32	3	4	3
33	3	1	2	33	3	4	2
34	4	1	2	34	3	4	1
35	5	1	2	35	3	4	6
36	6	1	2	36	3	4	5
37	1	2	1	37	4	3	4
38	2	2	1	38	4	3	3
39	3	2	1	39	4	3	2
40	4	2	1	40	4	3	1
41	5	2	1	41	4	3	6
42	6	2	1	42	4	3	5
43	1	2	6	43	5	3	4
44	2	2	6	44	5	3	3
45	3	2	6	45	5	3	2
46	4	2	6	46	5	3	1
47	5	2	6	47	5	3	6
48	6	2	6	48	5	3	5
49	1	2	5	49	6	3	4

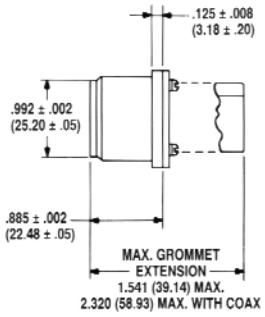
Plug				Receptacle			
CODE	POSITIONS			CODE	POSITIONS		
	Left Key Post	Center Key Post	Right Key Post		Left Key Post	Center Key Post	Right Key Post
50	2	2	5	50	6	3	3
51	3	2	5	51	6	3	2
52	4	2	5	52	6	3	1
53	5	2	5	53	6	3	6
54	6	2	5	54	6	3	5
55	1	2	4	55	1	3	4
56	2	2	4	56	1	3	3
57	3	2	4	57	1	3	2
58	4	2	4	58	1	3	1
59	5	2	4	59	1	3	6
60	6	2	4	60	1	3	5
61	1	2	3	61	2	3	4
62	2	2	3	62	2	3	3
63	3	2	3	63	2	3	2
64	4	2	3	64	2	3	1
65	5	2	3	65	2	3	6
66	6	2	3	66	2	3	5
67	1	2	2	67	3	3	4
68	2	2	2	68	3	3	3
69	3	2	2	69	3	3	2
70	4	2	2	70	3	3	1
71	5	2	2	71	3	3	6
72	6	2	2	72	3	3	5
73	1	3	1	73	4	2	4
74	2	3	1	74	4	2	3
75	3	3	1	75	4	2	2
76	4	3	1	76	4	2	1
77	5	3	1	77	4	2	6
78	6	3	1	78	4	2	5
79	1	3	6	79	5	2	4
80	2	3	6	80	5	2	3
81	3	3	6	81	5	2	2
82	4	3	6	82	5	2	1
83	5	3	6	83	5	2	6
84	6	3	6	84	5	2	5
85	1	3	5	85	6	2	4
86	2	3	5	86	6	2	3
87	3	3	5	87	6	2	2
88	4	3	5	88	6	2	1
89	5	3	5	89	6	2	6
90	6	3	5	90	6	2	5
91	1	3	4	91	1	2	4
92	2	3	4	92	1	2	3
93	3	3	4	93	1	2	2
94	4	3	4	94	1	2	1
95	5	3	4	95	1	2	6
96	6	3	4	96	1	2	5
97	1	3	3	97	2	2	4
98	2	3	3	98	2	2	3
99	3	3	3	99	2	2	2

ARINC 404 Single Bay Connectors

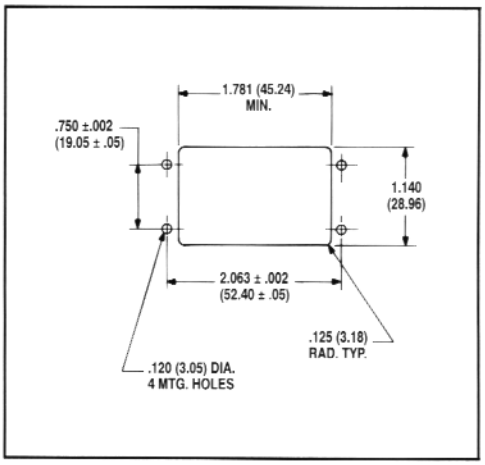
Single Bay Connectors - Dimensional Drawings

PLUG
"A" STYLE, NON-POLARIZED





PANEL CUTOUT



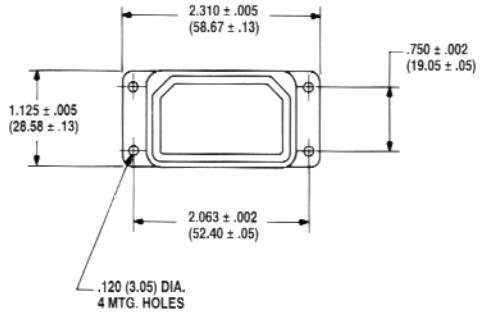
PLUG

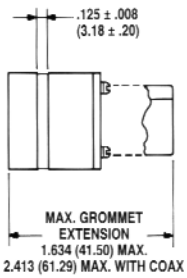
AR A (*) (**) 3 (***)

Designates Single Bay Non-Polarized — Designates Plug

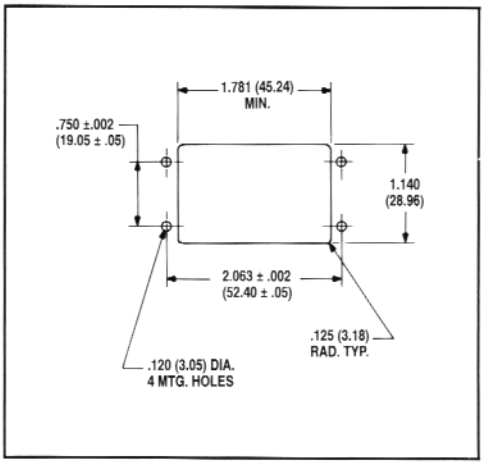
– See coding below and pages 12 - 15 to complete order number.

RECEPTACLE
"A" STYLE, NON-POLARIZED





PANEL CUTOUT



RECEPTACLE

AR A (*) (**) 4 (***)

Designates Single Bay Non-Polarized — Designates Receptacle

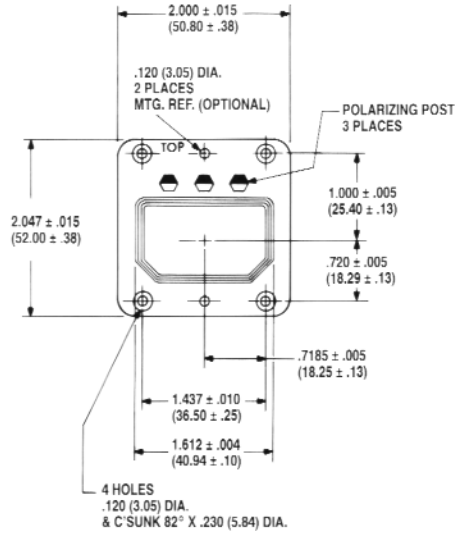
– See coding below and pages 12 - 15 to complete order number.

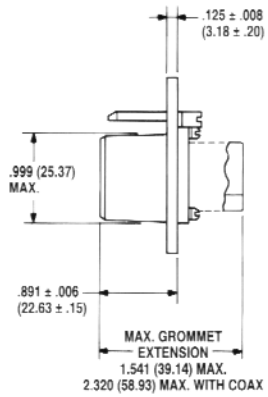
(*) Class
(**) Insert Arrangement
(***) Modification code, polarization position and customer ordering code.
Dimensions are shown in inches and (mm). All dimensions are for reference only.

ARINC 404 Single Bay Connectors

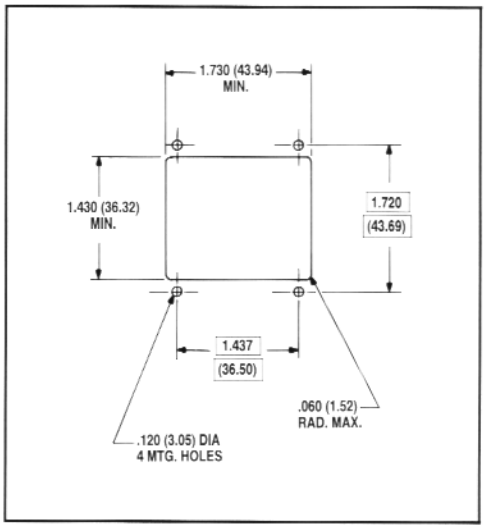
Single Bay Connectors - Dimensional Drawings

PLUG
"B" STYLE, POLARIZED





PANEL CUTOUT



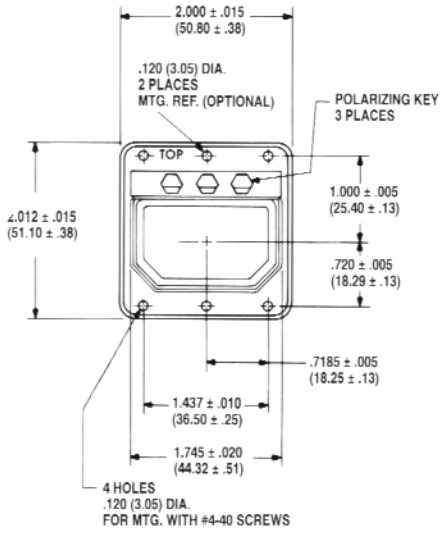
PLUG

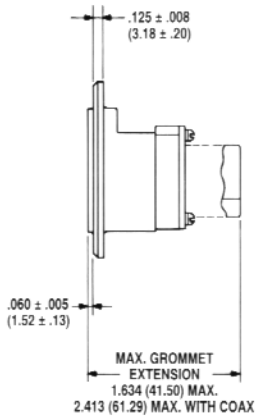
AR B (*) (**) 3 (***)

Designates Single Bay Polarized — Designates Plug

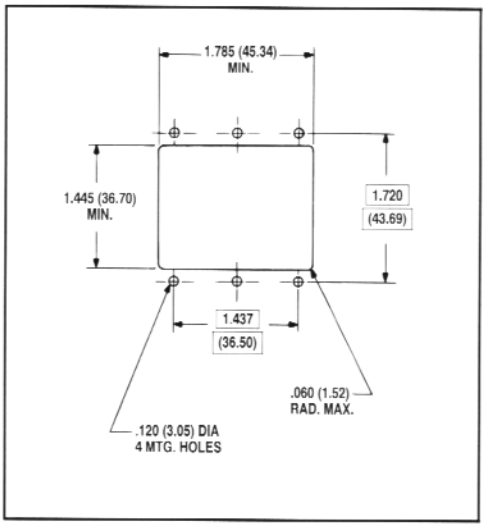
– See coding below and pages 12 - 15 to complete order number.

RECEPTACLE
"B" STYLE, POLARIZED





PANEL CUTOUT



RECEPTACLE

AR B (*) (**) 4 (***)

Designates Single Bay Polarized — Designates Receptacle

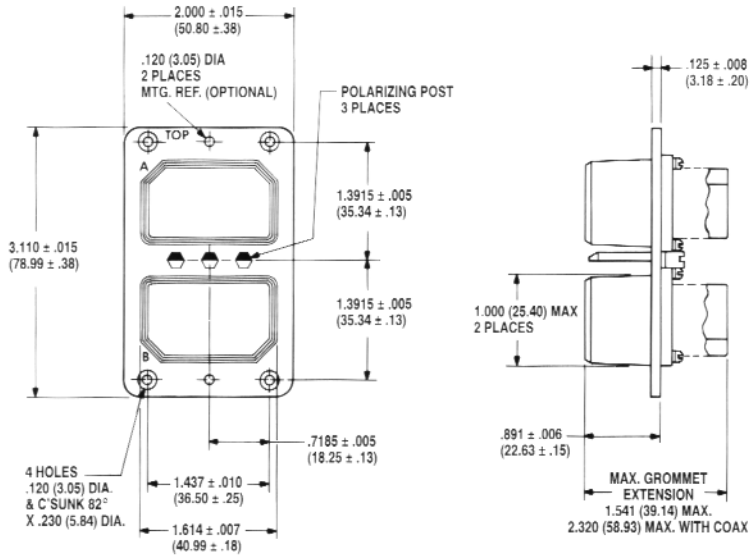
– See coding below and pages 12 - 15 to complete order number.

(*) Class
(**) Insert Arrangement
(***) Modification code, polarization position and customer ordering code.
Dimensions are shown in inches and (mm). All dimensions are for reference only.

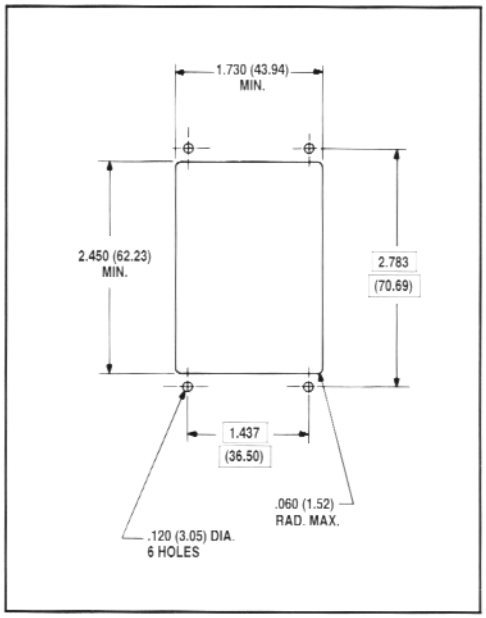
ARINC 404 Double Bay Connectors

Double Bay Connectors - Dimensional Drawings

PLUG



PANEL CUTOUT



PLUG

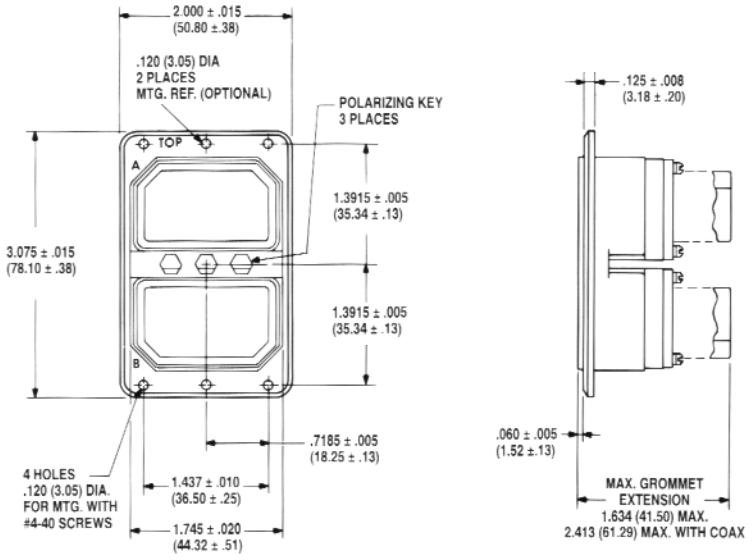
AR 2 (*) (**) 3 (***)

Designates Double Bay Polarized

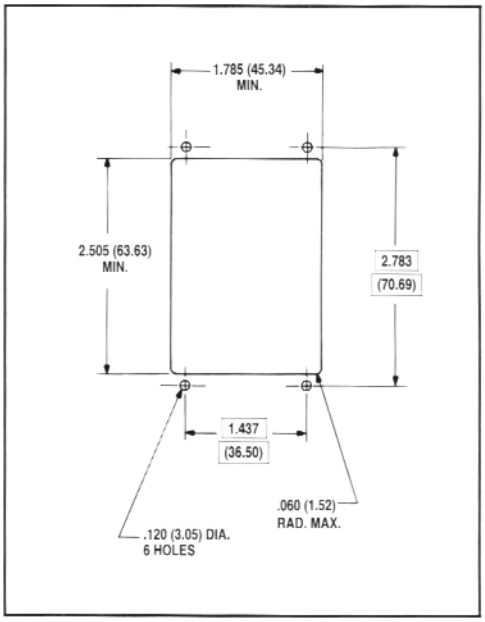
Designates Plug

– See coding below and pages 12 - 15 to complete order number.

RECEPTACLE



PANEL CUTOUT



RECEPTACLE

AR 2 (*) (**) 4 (***)

Designates Double Bay Polarized

Designates Receptacle

– See coding below and pages 12 - 15 to complete order number.

(*) Class

(**) Insert Arrangement

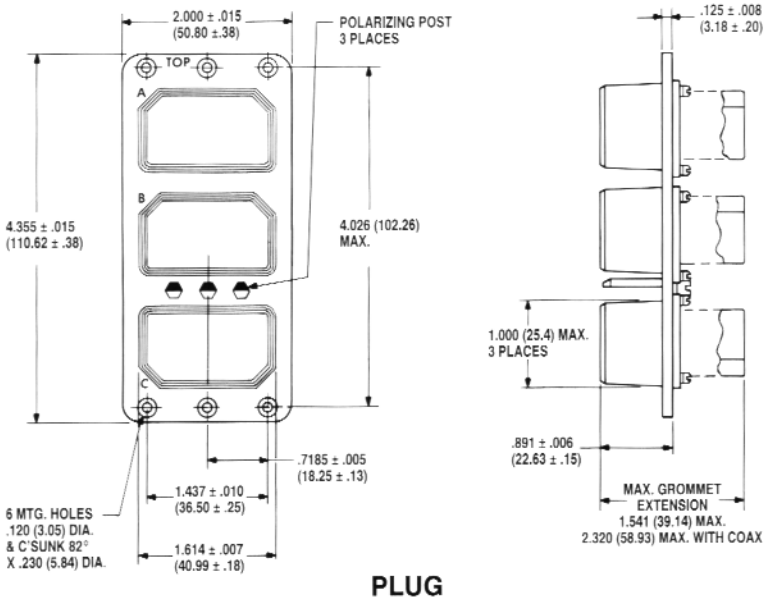
(***) Modification code, polarization position and customer ordering code.

Dimensions are shown in inches and (mm). All dimensions are for reference only.

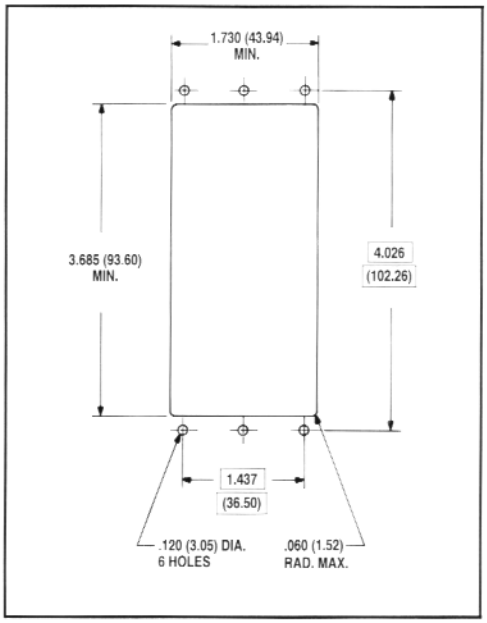
ARINC 404 Triple Bay Connectors

Triple Bay Connectors - Dimensional Drawings

PLUG



PANEL CUTOUT



PLUG

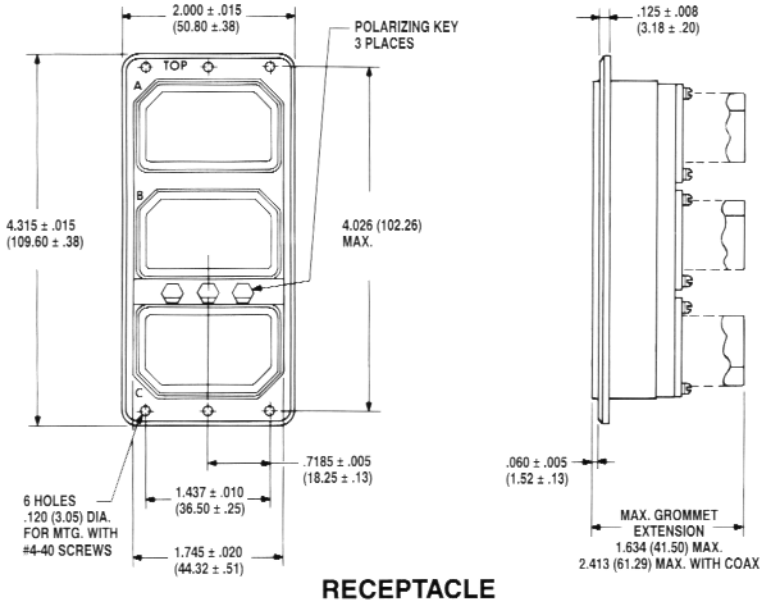
AR 3 (*) (**) 3 (***)

Designates Triple Bay Polarized

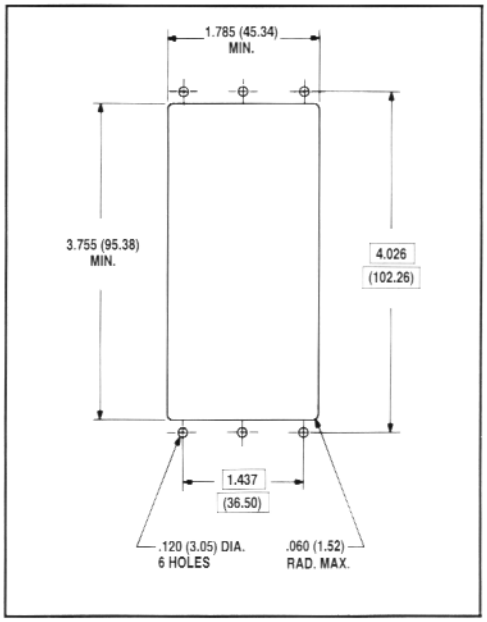
Designates Plug

– See coding below and pages 12 - 15 to complete order number.

RECEPTACLE



PANEL CUTOUT



RECEPTACLE

AR 3 (*) (**) 4 (***)

Designates Triple Bay Polarized

Designates Receptacle

– See coding below and pages 12 - 15 to complete order number.

(*) Class

(**) Insert Arrangement

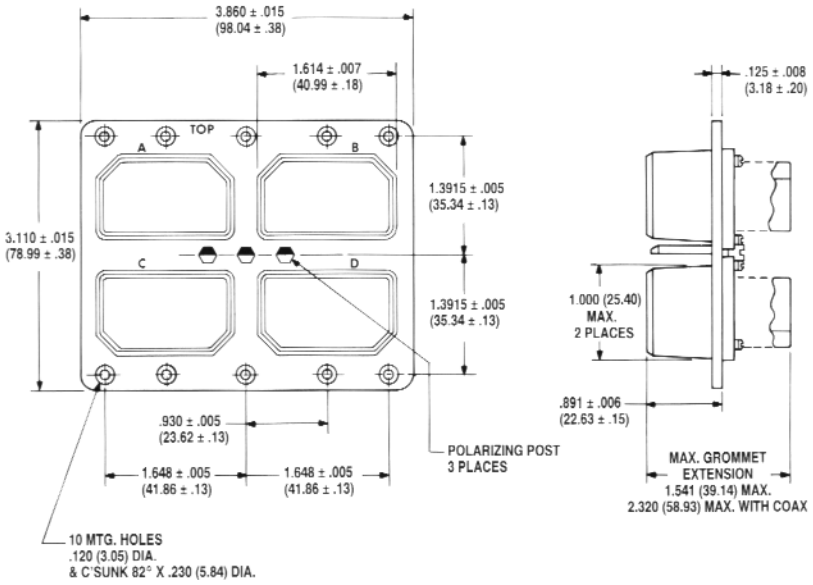
(***) Modification code, polarization position and customer ordering code.

Dimensions are shown in inches and (mm). All dimensions are for reference only.

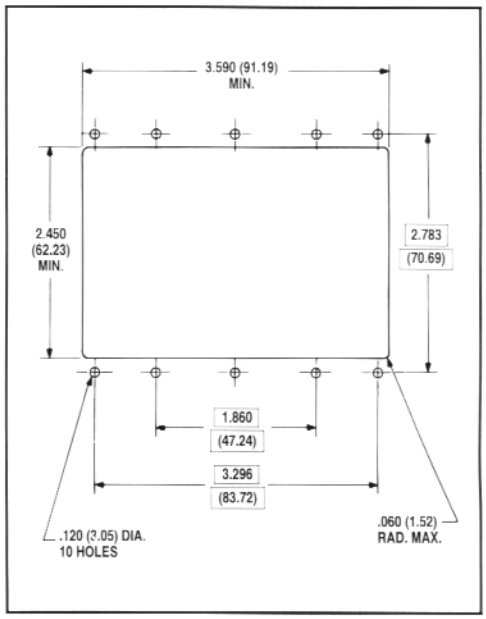
ARINC 404 Four Bay Connectors

Four Bay Connectors - Dimensional Drawings

PLUG



PANEL CUTOUT



PLUG

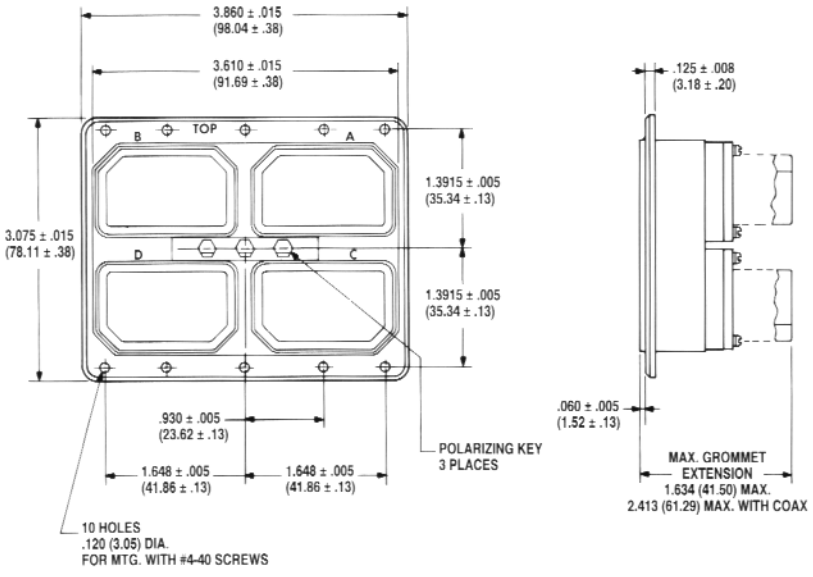
AR 4 (*) (**) 3 (***)

Designates Four Bay Polarized

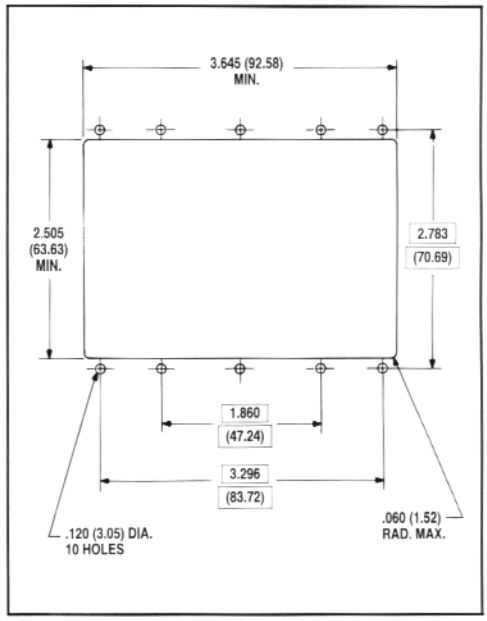
Designates Plug

– See coding below and pages 12 - 15 to complete order number.

RECEPTACLE



PANEL CUTOUT



RECEPTACLE

AR 4 (*) (**) 4 (***)

Designates Four Bay Polarized

Designates Receptacle

– See coding below and pages 12 - 15 to complete order number.

(*) Class

(**) Insert Arrangement

(***) Modification code, polarization position and customer ordering code.

Dimensions are shown in inches and (mm). All dimensions are for reference only.

ARINC 404
contact data, protective dust covers

Contacts for Amphenol® ARINC 404 Rack and Panel Connectors can be ordered separately.
Use part numbers shown in the charts below for ordering contacts and applicable tools.
For further information consult Amphenol® Canada Corporation.

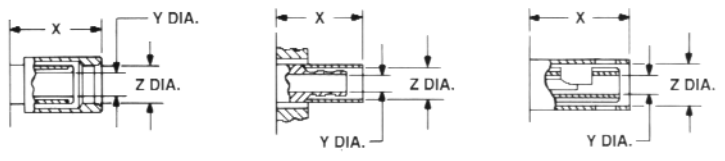
ARINC 404 Power/Signal Contacts

Contact Size/Type	Pin		Socket		Insertion/ Removal Tool	Crimping Tool	Positioner	Wire Accom.	Layout Usage
	Military Part Number	Amphenol Part Number	Military Part Number	Amphenol Part Number					
22-22 Crimp	M39029/11-144	AC-752222-079	M39029/12-148	AC-762222-079	M81969/1-01	M22520/2-01	M22520/2-23	22 24 26	106
20-20 Crimp High Density	M39029/11-145	AC-752020-081	M39029/12-149	AC-762020-081	M81969/1-02	M22520/2-01MS-3191-1	M22520/2-08 Standard	20 22 24	17 32 32C2 32C4 40 40C1 45 57
20-20 Crimp Low Density		AC-772020-080		AC-782020-080					
16-16 Crimp	M39029/11-146	AC-751616-076	M39029/12-150	AC-761616-076	M81969/1-03	M22520/1-01 MS-3191-1	M22520/1-02 Standard	16 18 20	D8 26 32 32C4 67
12-12 Crimp	M39029/11-147	AC-751212-078	M39029/12-151	AC-761212-078	M81969/14-04	M22520/1-01	M22520/1-11	12 14	8 D8

ARINC 404 Coax Contacts

Contact Size/Type	Pin Amphenol Part Number	Socket Amphenol Part Number	Layout Usage	Cable Accommodation	Style	Dimension (See drawings below)		
						X Max.	Y Dia.	Z Dia.
Coax - Size 5	AC-600002-001	AC-600003-001	32C2	RG-59/U, RG-62/U	A	.760 (19.30)	.153 ± .005 (3.89 ± .127)	.252 ± .005 (6.40 ± .127)
	AC-600002-002	AC-600003-002	32C2	RG-58/U	B	.760 (19.30)	.123 ± .005 (3.12 ± .127)	.206 ± .005 (5.23 ± .127)
	AC-600002-005	AC-600003-005	32C2 40C1	RG-58/U	J	0.798 (20.27)	.125 ± .005 (3.18 ± .127)	.268 ± .005 (6.81 ± .127)
Coax - Size 9	AC-600002-003	AC-600003-003	C8 32C4	RG-58/U	G	.500 (12.70)	.125 ± .005 (3.18 ± .127)	.206 ± .005 (5.23 ± .127)
	AC-600002-003A	AC-600003-003A	C8 32C4	RG-142/U	G	.500 (12.70)	.125 ± .005 (3.18 ± .127)	.206 ± .005 (5.23 ± .127)
	AC-600002-004	AC-600003-004	C8 32C4	RG-174/U, RG-179/U, RG-187/U, RG-188/U	H	0.592 (15.04)	.067 ± .005 (1.70 ± .127)	.116 ± .005 (2.95 ± .127)

Coax Contacts Dimensional Data



ARINC Protective Dust Covers (Conductive)

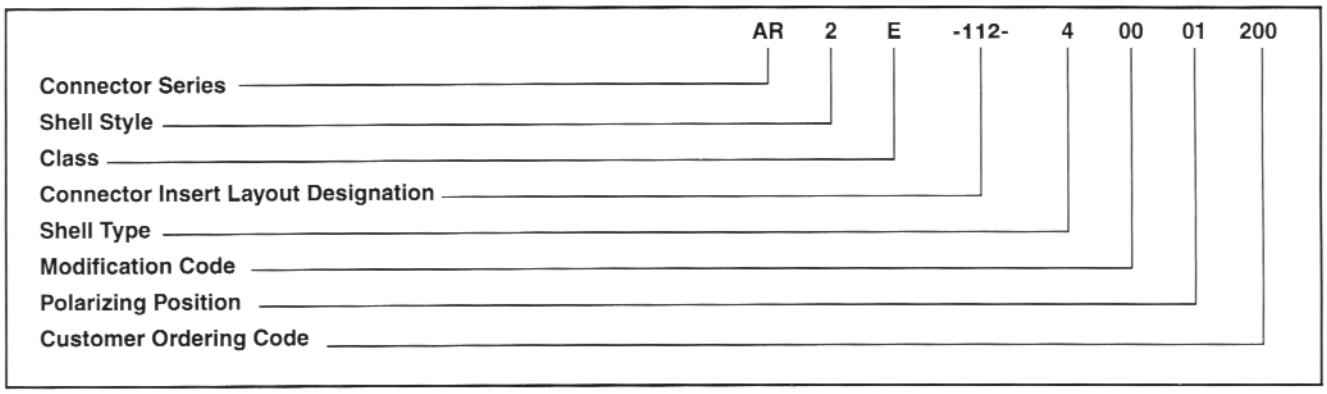
Plug	Receptacle
AC-100000-591	AC-100000-601

Ampheno' part numbers meet MIL specifications, but are nof MIL qualified. Military part numbers are for reference only.
For further information on cable terminations, tooling or accessories consult Amphenol® Canada Corporation.
Dimensions are shown in inches and (mm).

ARINC 404
how to order

Amphenol® "AR" Series Connectors

To more easily illustrate ordering procedure for ARINC 404, "AR" Series connectors, part number AR2E-112-40001200 is shown as follows:



Connector Series
AR designates Amphenol ARINC 404

Shell Style
- A Single Bay, non-polarized
- B Single Bay, polarized
- 2 Double Bay, polarized
- 3 Triple Bay, polarized
- 4 Four Bay, polarized

Class
- A - Non-environmental, standard commercial connector
- E - Environmentally sealed connector
- B - Non-environmental standard commercial connector with wire separators

Connector Insert Layout Designation
See charts on pages 13 and 14. Choose desired insert layout arrangements; then enter the connector insert arrangement designation from the charts. For military style inserts, include an 'M' ahead of the Insert Designator number.

Shell Type
- 4 - Receptacle (box side)
- 3 - Plug (rack side)

Modification Code
See page 16 for illustration and description of codes.

Polarizing Position
- 01 thru 99 (per ARINC 404) See chart on page 5.
- 00 - Polarizing posts or keys not supplied with connector.
- – – Two dashes designate that the posts and keys will be supplied with the connector but not installed.

Customer Ordering Code
- 200 - Standard connector kit with standard contacts. Coaxial contacts are not supplied with the connector and must be ordered separately by Amphenol part number.
- 201 - 200 customer ordering code without contacts. Contacts must be ordered separately by Amphenol part number.
- 202 - 201 customer ordering code with keys unassembled and packaged in a separate container.
- 203 - 201 customer ordering code with inserts and retainer plates unassembled.

Customer Ordering Code, cont.
- 204 - 200 customer ordering code with spare contacts equal to 3% of contact population per connector per contact size.
- 205 - 200 customer ordering code with size #22 contacts having a wire range of 28 - 30 AWG.
- 206 - 200 customer ordering code with keying unassembled and packaged separately within the connector container.
- 207 - 200 customer ordering code except connector to be supplied less signal contacts and with coaxial contacts.
- 210 - 200 customer ordering code with special contacts per customer specifications.
- 211 - 200 customer ordering code except connector is built less the polarizing keys. Keys must be ordered separately by Amphenol part number.
- 212 - 206 & 204 customer ordering codes with special contacts per customer specification.
- 216 - 200 customer ordering code with special contacts as per customer specification.
- 220 - 200 customer ordering code with connector kit unassembled.
- 221 - 200 customer ordering code with Low Insertion Force (LIF) contacts.
- 230 - Special modification per customer request.
- 231 - Special modification per customer request less contacts.
- 234 - Special modification per customer request with spare contacts - 3% of contact population per connector per contact size.
- 250 - Standard connector kit, except shell and retainer plates plated electroless nickel.
- 251 - 250 customer ordering code with assembled connector only; contacts must be ordered separately by Amphenol part number.
- 254 - 250 customer ordering code with spare contacts - 3% of contact population per connector per contact size.
- 255 - 250 customer ordering code with size #22 contacts having a wire range of 28 - 30.
- 6xx - Use the 6xx to designate connectors supplied with insertion/removal tools (MIL-I-81969/1) and the 200 series guide for other variations by substituting a 6 for a 2.
- 8xx - Use 8xx to designate the inclusion of dust caps and the 200 series guide for other variations. (example: code 203 becomes 803).

ARINC 404
how to order, cont.
connector insert layout designations

Common available ARINC 404 configurations are listed below and on page 14. The connector layout designator number represents the desired inserts in the order of shell cavities used - A, B, C and D, as applicable (as shown in the following charts). Consult Amphenol Canada Corporation for further availability of insert combinations.

Insert Designator	Shell Cavity Insert Position			
	A	B	C	D
001	26P	–	–	–
002	26S	–	–	–
003	26P	26P	–	–
004	26S	26S	–	–
005	26P	26P	26P	–
006	26S	26S	26S	–
007	26P	26P	26P	26P
008	26S	26S	26S	26S
009	40P	–	–	–
010	40S	–	–	–
011	40P	40P	–	–
012	40S	40S	–	–
013	40P	40P	40P	–
014	40S	40S	40S	–
015	40P	40P	40P	40P
016	40S	40S	40S	40S
017	45P	–	–	–
018	45S	–	–	–
019	45P	45P	–	–
020	45S	45S	–	–
021	45P	45P	45P	–
022	45S	45S	45S	–
023	45P	45P	45P	45P
024	45S	45S	45S	45S
025	57P	–	–	–
026	57S	–	–	–
027	57P	57P	–	–
028	57S	57S	–	–
029	57P	57P	57P	–
030	57S	57S	57S	–
031	57P	57P	57P	57P
032	57S	57S	57S	57S
033	67P	–	–	–
034	67S	–	–	–
035	67P	67P	–	–
036	67S	67S	–	–
037	67P	67P	67P	–
038	67S	67S	67S	–
039	67P	67P	67P	67P
040	67S	67S	67S	67S
041	106P	–	–	–
042	106S	–	–	–
043	106P	106P	–	–
044	106S	106S	–	–
045	106P	106P	106P	–
046	106S	106S	106S	–
047	106P	106P	106P	106P
048	106S	106S	106S	106S
057	106S	26P	–	–
058	106P	26S	–	–
059	26P	106S	–	–

Insert Designator	Shell Cavity Insert Position			
	A	B	C	D
060	26S	106P	–	–
061	26P	26P	26P	26S
062	26S	26S	26S	26P
063	10C3P	10C3P	C8P	67P
064	10C3S	10C3S	C8S	67S
065	C8P	C8P	C8P	–
066	C8S	C8S	C8S	–
067	C8P	C8P	106S	–
068	C8S	C8S	106P	–
069	C8P	33C4P	–	–
070	C8S	33C4S	–	–
071	67P	106S	–	–
072	67S	106P	–	–
073	67P	67P	C8P	–
074	67S	67S	C8S	–
075	67P	67P	106S	–
076	67S	67S	106P	–
077	67P	106S	33C4P	–
078	67S	106P	33C4S	–
079	67P	106S	67P	–
080	67S	106P	67S	–
081	67P	67P	33C4P	33C4P
082	67S	67S	33C4S	33C4S
083	D8P	–	–	–
084	D8S	–	–	–
085	C8P	C8P	67P	67P
086	C8S	C8S	67S	67S
087	106S	C8P	–	–
088	106P	C8S	–	–
089	106S	67P	–	–
090	106P	67S	–	–
091	106S	106S	67P	–
092	106P	106P	67S	–
093	106S	106S	33C4P	–
094	106P	106P	33C4S	–
095	106S	C8P	106S	106S
096	106P	C8S	106P	106P
097	106S	67P	106S	C8P
098	106P	67S	106P	C8S
099	106S	67P	C8P	C8P
100	106P	67S	C8S	C8S
101	106S	106S	67P	67P
102	106P	106P	67S	67S
103	33C4P	–	–	–
104	33C4S	–	–	–
105	33C4P	106S	–	–
106	33C4S	106P	–	–
107	33C4P	C8P	–	–
108	33C4S	C8S	–	–
109	C2P	40C1P	–	–
110	C2S	40C1S	–	–

ARINC 404

how to order, cont.

connector insert layout designations, cont.

Insert Designator	Shell Cavity Insert Position			
	A	B	C	D
111	C2P	57P	–	–
112	C2S	57S	–	–
113	C3P	67P	–	–
114	C3S	67S	–	–
115	C3P	106S	–	–
116	C3S	106P	–	–
117	C3P	106S	–	–
118	C3S	106P	–	–
119	10C3P	32C2P	–	–
120	10C3S	32C2S	–	–
121	32C2P	40C1P	–	–
122	32C2S	40C1S	–	–
123	32C2P	45P	–	–
124	32C2S	45S	–	–
125	32C2P	57P	–	–
126	32C2S	57S	–	–
127	32C2P	67P	–	–
128	32C2S	67S	–	–
129	32C2P	106S	–	–
130	32C2S	106P	–	–
131	40C1P	40C1P	–	–
132	40C1S	40C1S	–	–
133	57P	106S	–	–
134	57S	106P	–	–
135	C8P	–	–	–
136	C8S	–	–	–
137	10C3P	–	–	–
138	10C3S	–	–	–
139	32C2P	–	–	–
140	32C2S	–	–	–
141	40C1P	–	–	–
142	40C1S	–	–	–
143	67C3P	–	–	–
144	67C3S	–	–	–
145	C8P	57P	–	–
146	C8S	57S	–	–
147	57P	26P	–	–
148	57S	26S	–	–
149	32C4P	–	–	–
150	32C4S	–	–	–
151	32C4P	106S	–	–
152	32C4S	106P	–	–
153	67C3P	67C3P	32C4P	32C4P
154	67C3S	67C3S	32C4S	32C4S
155	C8P	32C4P	–	–
156	C8S	32C4S	–	–
157	106S	106S	32C4P	–
158	106P	106P	32C4S	–
159	32C4P	C8P	–	–
160	32C4S	C8S	–	–

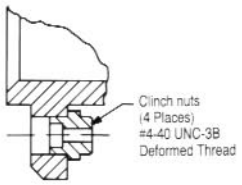
Insert Designator	Shell Cavity Insert Position			
	A	B	C	D
161	67C3P	106S	32C4P	–
162	67C3S	106P	32C4S	–
163	C8P	C8P	–	–
164	26P	26P	–	–
165	C8P	26P	–	–
166	C8S	26S	–	–
170	57S	32C2S	–	–
171	57P	32C2P	–	–
173	106P	106P	106P	67S
174	106S	106S	106S	67P
175	106S	106S	32C4P	26P
176	106P	106P	32C4S	26S
180	32C4S	32C2S	–	–
181	32C4P	32C2P	–	–
200	40S	26S	8S	C6S
201	40P	26P	5P	C6P
297	26P	32C4P	–	–
298	26S	32C4S	–	–
400	32C2S	32C2S	57S	–
401	32C2P	32C2P	57P	–
500	C8P	C6P	–	–
501	C8S	C6S	–	–
502	C6P	C8P	–	–
503	C6S	C8S	–	–
504	106P	BLANK	106P	BLANK
505	26S	67S	–	–
506	26P	67P	–	–
507	C8P	106P	–	–
508	C8S	106S	–	–
509	18P	57P	–	–
510	18S	57S	–	–
511	8P	45P	–	–
512	8S	45S	–	–
513	26P	67P	67P	–
514	26S	67S	67S	–
515	106P	C2S	–	–
516	106S	C2P	–	–
517	C8P	106P	106P	106P
518	C8S	106S	106S	106S
519	106P	106P	106P	26P
520	106S	106S	106S	26S
521	67S	67S	106P	106P
522	67P	67P	106S	106S
523	67P	26P	C3P	–
524	32C4P	32C4P	32C4P	–
525	67P	D8P	–	–
526	40S	32C4S	–	–
527	40P	32C4P	–	–
528	8P	17P	–	–
529	8S	17S	–	–

ARINC 404
how to order, cont.
modification codes

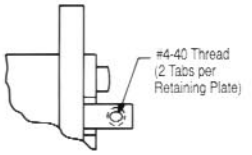
The modification codes illustrated on this page apply to both ARINC 404 plugs and receptacles unless otherwise indicated. How to order, page 12, shows how to incorporate these codes into the connector ordering number. Additional modifications may be available; consult Amphenol Canada Corporation for further information.

Standard Housing
with .120 (3.05) Dia.
Mounting Holes

MODIFICATION 00



MODIFICATION 01



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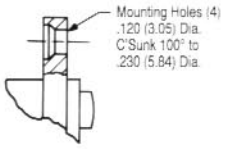
(Attaching Tabs)



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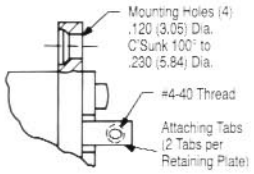

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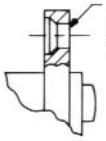

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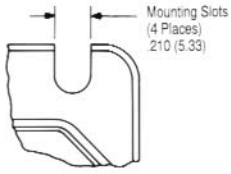

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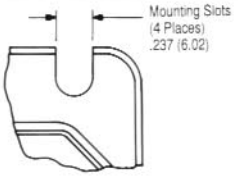
(Receptacle Only)



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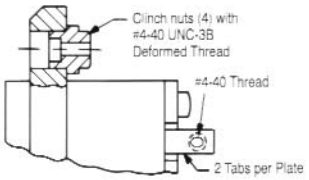

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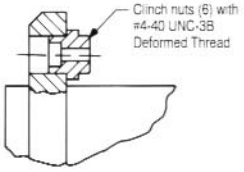

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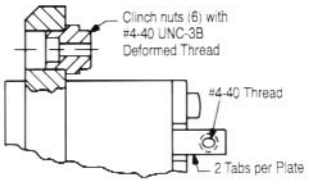

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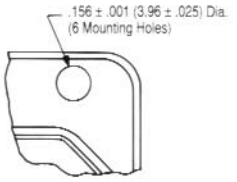

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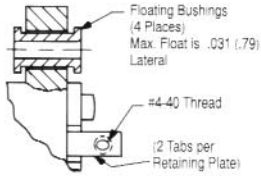

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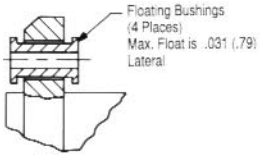

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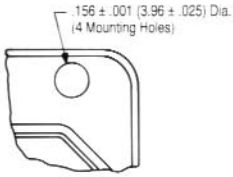

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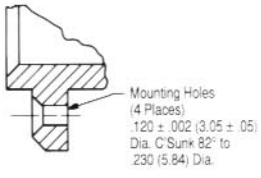

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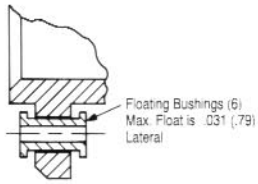

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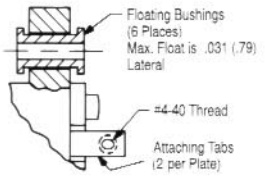

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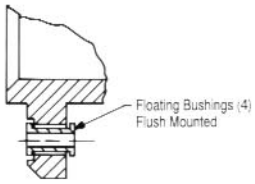

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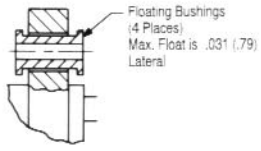
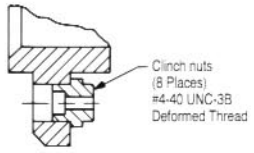
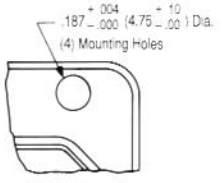


MODIFICATION 39
(Plug Only)



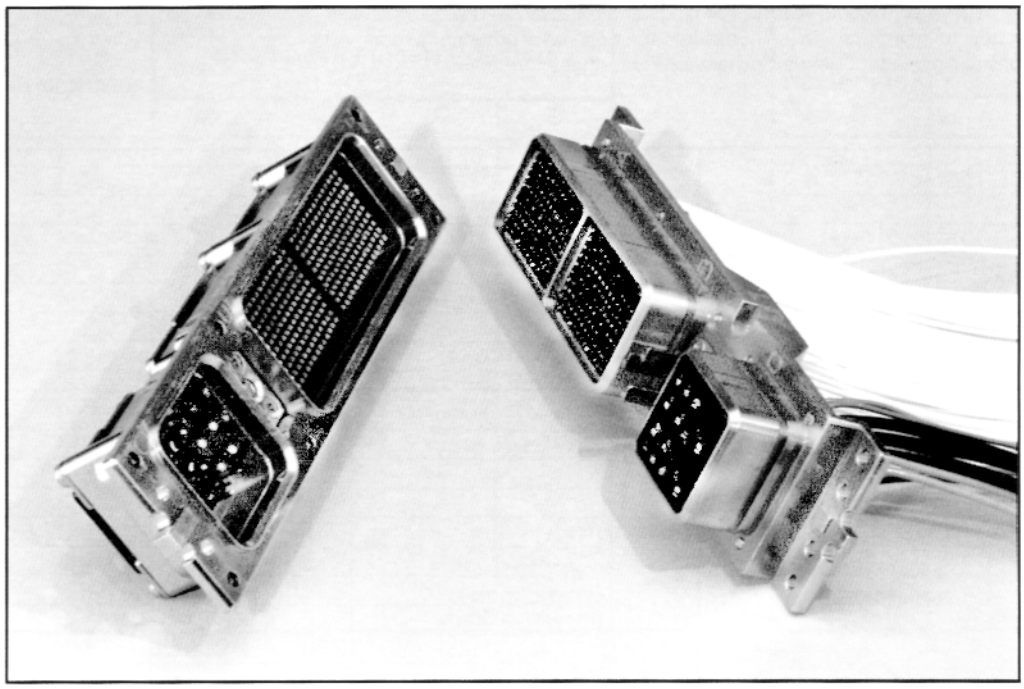
MODIFICATION 42
(Four Bay Shells Only)



MODIFICATION 46

Dimensions are shown in inches and (mm).
All dimensions for reference only.

Additional ARINC Products
ARINC 600



ARINC 600 Series

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 ARINC 600 series meets all relevant ARINC 600 connector specifications. Design features of thls series include:

- Low insertion force contacts
- Three shell styles with up to six insert cavities
- Inserts accommodate signal and power contacts, sizes 12, 16, 20 and 22
- Coaxial, printed circuit board and wire wrap contact options available
  Field replaceable inserts for size 22 and power contacts
- Front removable keying posts
- Up to 800 size 22 contact positions in one connector
- Waveguide connections available

For detailed information on ARINC 600 Connectors ask for brochure SL-379.

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