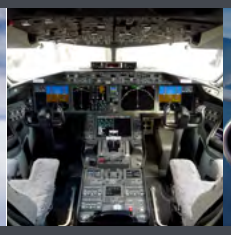
ARINC 404

RACK AND PANEL CONNECTORS









AR

ARINC - Rack & Panel Connector

Amphenol CANADA
MILITARY & AEROSPACE

Amphenol CANADA
MILITARY & AEROSPACE



For more than 50 years, Amphenol Canada Corp. a subsidiary of Amphenol Corporation has been an international leader in the manufacture of Rectangular I/O and EMI Filtered Connectors.

We design, manufacture and test EMI / EMP filter and non-filter connectors, which are used worldwide in military, aerospace, and commercial applications. As part of Amphenol Corporation, we have the advantage of access to technologies and processes of Amphenol's worldwide facilities. Our expertise in understanding and supporting our customers' interconnect needs has earned us a reputation of excellence among the world's leading users of electronic components.

CUSTOMER SERVICE

At Amphenol Canada, customer service is a solid commitment from all our employees. Our product managers, application engineers, product specialists, and sales representatives are able to answer your questions and assist you in choosing the right connectors for your applications.

Whether you need standard or custom designed connectors, our marketing department is your liaison with Amphenol Canada's engineering, quality and manufacturing experts.

QUALITY AND RELIABILITY

Certified to ISO 9001:2015+ AS9100D Amphenol Canada's broad base of customers and the high levels of technology in which they are involved make it essential that Amphenol's own products are of the highest quality and reliability.

Please contact us for RoHS requirements.

ARINC 404 CONNECTORS

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ARINC 404 SERIES

Amphenol's "AR" Series ARINC connectors are designed to meet or exceed the requirements of MIL-C-81659 and ARINC 404, making them ideal for aerospace, military, and computer peripheral applications. These versatile connectors come in multiple shell styles and offer various contact sizes, providing flexible solutions for different design needs.

The "AR" Series is available in both non-environmental and environmentally sealed versions, with advanced sealing features to ensure performance in harsh environments. For more information or to discuss application-specific designs, contact your local Amphenol sales engineer or Amphenol Canada Corporation.

APPLICATIONS



FEATURES

- Mix of standard/coaxial contacts for tailored signals
- Non-environmental and environmental options available
- Offers transient protection, filtering, and application-specific designs
- Proven sealing, durability, and signal integrity for demanding environments
- Five shell styles, up to four insert cavities, accommodating diverse contact sizes (12, 16, 20, 22, 5, and 9)



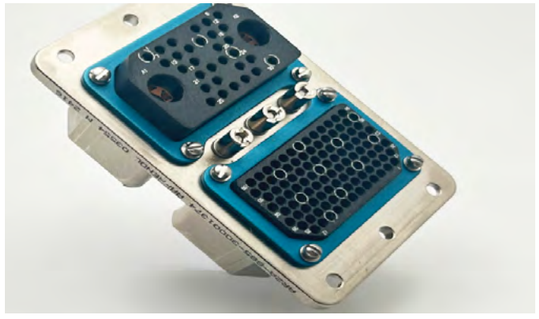


NEED CONNECTOR FILTERING?

Tackle EMI with Amphenol's low-pass filter connectors. Our solderless, space-saving designs ensure top performance and reliability.

Amphenol Canada can filter any connector design that you may need.

See our *EMI Filter Connector Catalog* or contact Amphenol Canada directly for more information



SPECIFICATIONS

Component	Materials	Finish
Shell	Aluminum alloy	» Olive Drab (OD) Cadmium » Electroless Nickel » Yellow Cadmium » Nickel-PTFE (Durmalon) » Chem Film (Anodized)
Insert	» Thermoplastic » Thermoset	N/A
Hardware & Polarizing Keys	» Stainless Steel » Aluminum Alloy	» Passivated » Nickel
Grommets & Face Seal	» Fluorosilicone » Elastomer	N/A
EMI Spring	Copper Alloy	» Nickel » Gold
O-Ring	Fluorosilicone Elastomer	N/A
Contacts	Copper Alloy	Gold over Nickel, Solder Dipping is available in both RoHS and non-RoHS Compliance

PERFORMACE

D.W.V.	1500 Vrms 500 Vrms at 50,000 ft. (15,240m)	
Insulation Resistance	5 GΩ min. at 500 VDC	
Engagement/Separation Force (per insert)	**106 insert:** 65 lbs (289N) max. **All others:** 45 lbs (200N) max.	
Temperature Range	-65° C (-86° F) to 125° C (275° F)	
Fluid Immersion Resistance (Class A only)	**1 -** Hydraulic fluid per MIL-H-5606 **2 -** Lubricanting oil (synthetic) per MIL-L-23699	**3 -** 1:3 mix of isopropyl alcohol & mineral spirits per FED. Specs. TT-I-735 & TT-T-291, respectively
Vibration	MIL-STD-1344, Method 2005.1, condition E: random - 16.4G, minimum severity: 8 hrs in each of 3 mutually perpendicular planes with 100mA electrical load. No visible damage or discontinuities exceeding 1 microsecond.	
Shock	MIL-STD-1344, Method 2004.1, condition A: Three shocks in each direction along each of 3 perpendicular axes. No visible damage or discontinuities exceeding 1 microsecond.	
Durability	500 cycles min. (matting & unmating)	

Contacts

Sizes	Resistance		Continuous Current Rating
	Initial (max.)	Conditioned (max.)	
12	2 mΩ	2.5 mΩ	23 A
16	3.5 mΩ	5 mΩ	13 A
20	7 mΩ	8.5 mΩ	7.5 A
22	8 mΩ	11 mΩ	5 A

ONLINE CONFIGURATOR

Download 2D drawings & 3D models using our *online configurator*



HOW TO ORDER

PART NUMBER KEY

1 RoHS Compliance	2 Series	3 Shell Style	4 Class		5 Insert Layout Designator		6 Shell Type	7 Mounting Modifier	8 Polarizing Position	9 Customer Ordering Code
E	AR	2	A	–	313	–	3	00	01	200

RoHS Compliance (1)

E	RoHS Compliant
	Blank for Non-RoHS

Series (2)

AR	ARINC 404 Series

Shell Style (3)

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

Class (4)

A	Non-environmental, standard commercial connector
C	Environmental-faceseals, no grommets
E	Environmental-grommets and faceseals

Insert Layout * (5)

The connector layout designator number represents the total number of contacts within the layout including wave guides.

See page 12

** For Military style inserts, include an "M" ahead of the Insert Designator Number.*

Shell Type (6)

3	Plug (rack side)
4	Receptacle (box side)

Mounting Modifier * (7)

See page 22

** Consult factory if other modifications are required*

Polarizing Position (8)

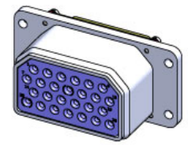
00	Polarization kit not intalled or supplied
XX*	Polarization kit is installed per Amphenol Spec $1023M
DD	Polarization kit is supplied but not installed

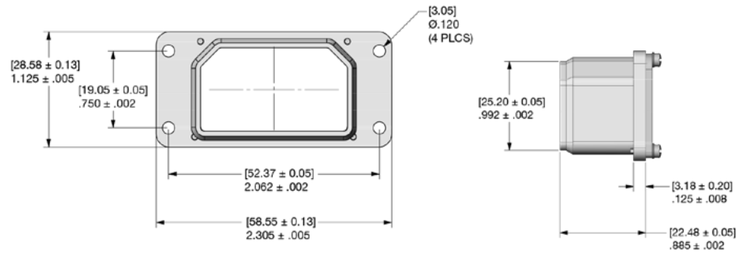
** See **page 24** for Polarization kit Part Number*

Customer Ordering Code (9)

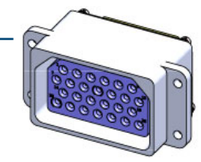
200	Standard connector kit with standard contacts. RF contacts are not supplied with the connector and must be ordered separately
201	Standard connector without contacts supplied. Contacts must be ordered separately
204	Standard connector kit with 3% extra contacts supplied per connector, contact population & contact size
XXX	Custom Designs

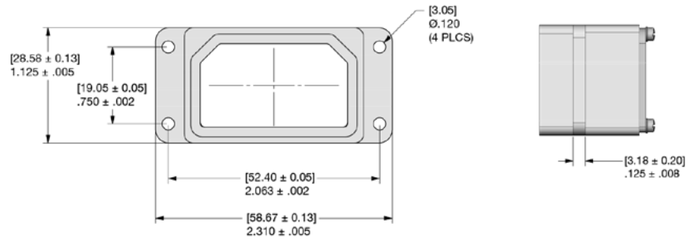
TYPE 3 — SOCKET (PLUG)





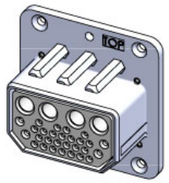
TYPE 4 — PIN (RECEPTACLE)

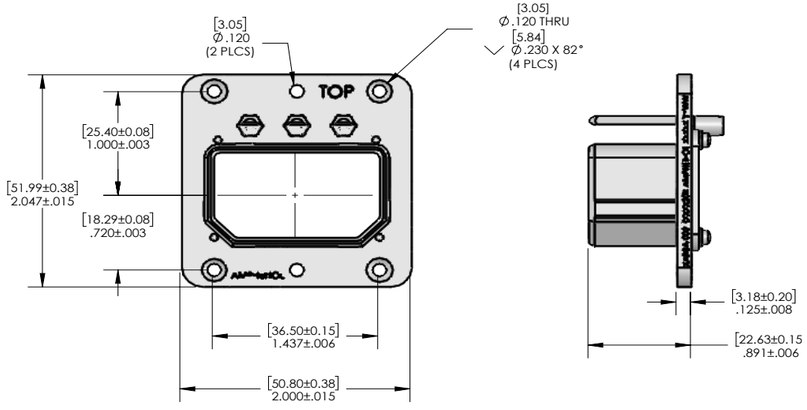




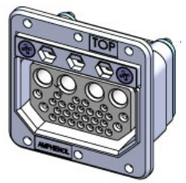
STYLE B — SINGLE BAY, POLARIZED
SHELL DIMENSIONS

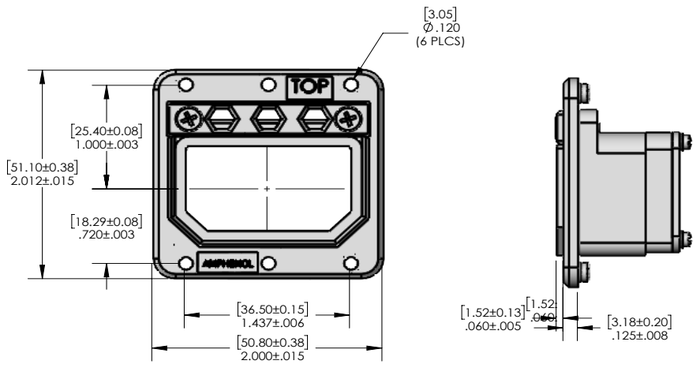
TYPE 3 — SOCKET (PLUG)





TYPE 4 — PIN (RECEPTACLE)

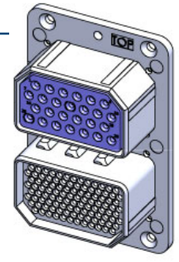


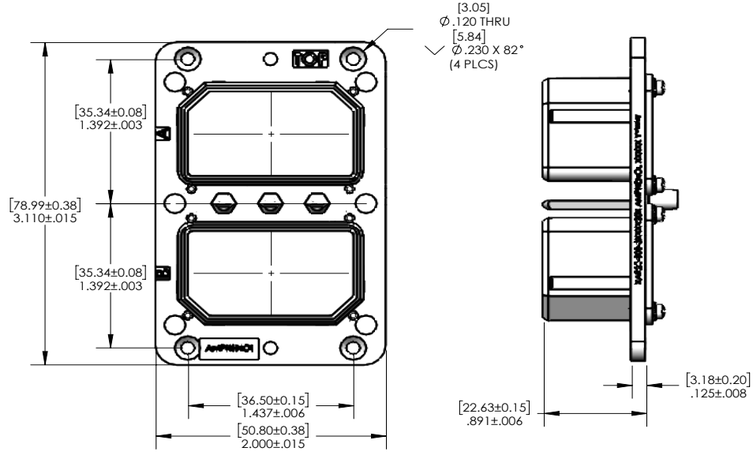


STYLE 2 — DOUBLE BAY, POLARIZED
SHELL DIMENSIONS

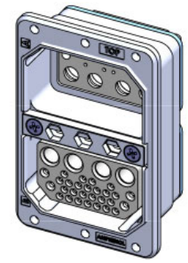
Amphenol CANADA
MILITARY & AEROSPACE

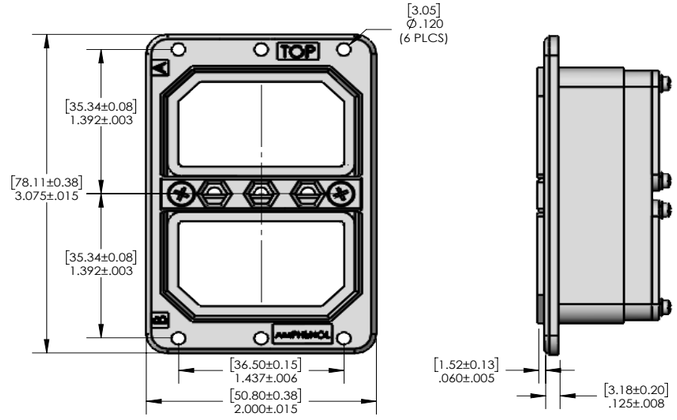
TYPE 3 — SOCKET (PLUG)





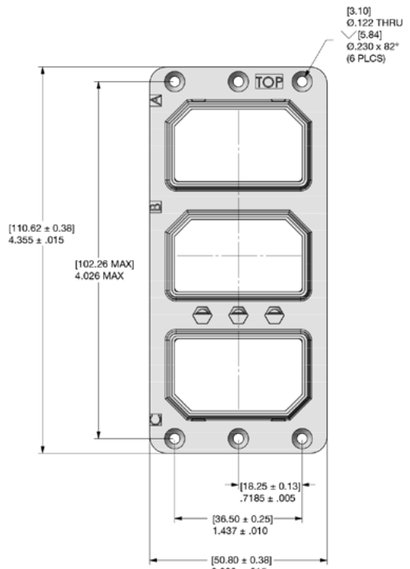
TYPE 4 — PIN (RECEPTACLE)

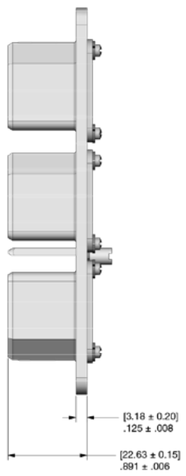


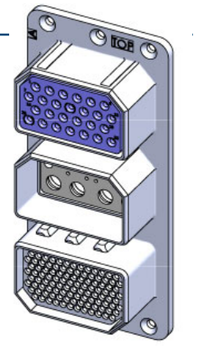


STYLE 3 — TRIPLE BAY, POLARIZED
SHELL DIMENSIONS

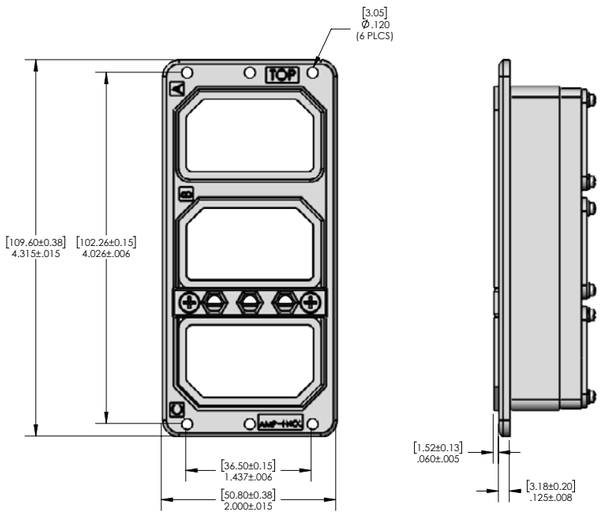
TYPE 3 — SOCKET (PLUG)

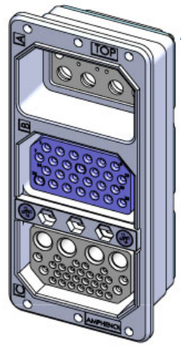






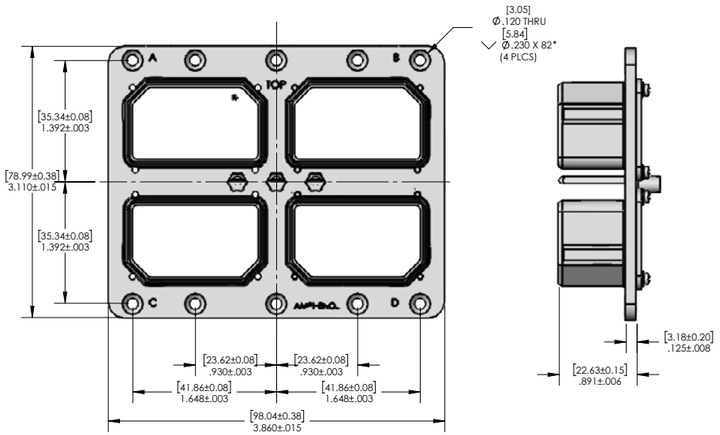
TYPE 4 — PIN (RECEPTACLE)

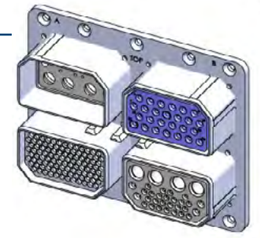




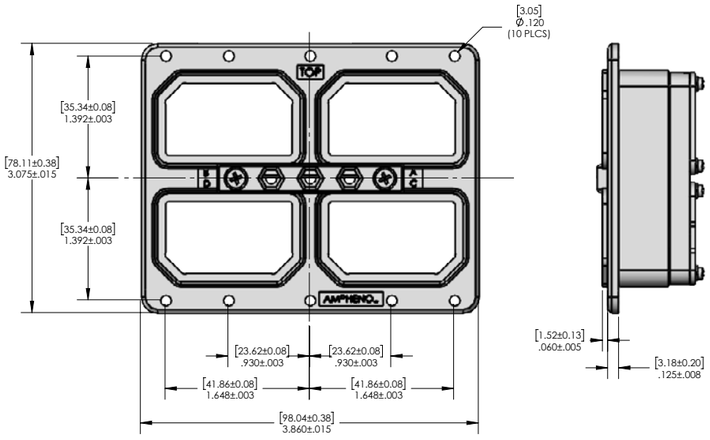
STYLE 4 — FOUR BAY, POLARIZED
SHELL DIMENSIONS

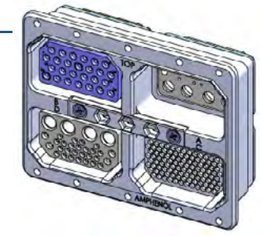
TYPE 3 — SOCKET (PLUG)



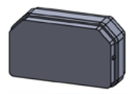


TYPE 4 — PIN (RECEPTACLE)

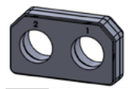




INSERT LAYOUTS



0	DUMMY



2	C2	
Qty.	Size	
2	1	C T F Q



3	C3A	
Qty.	Size	
3	9	C T F Q



4	4F2C2	
Qty.	Size	
2	8	C T F Q
2	16	C T F Q



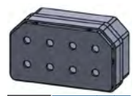
5	C5	
Qty.	Size	
5	5	C T F Q



6	C6	
Qty.	Size	
6	9	C T F Q



7	7	
Qty.	Size	
7	8	C T F Q



8	8	
Qty.	Size	
8	12	C T F Q



8	C8	
Qty.	Size	
8	9	C T F Q



8	D8	
Qty.	Size	
4	16	C T F Q
4	16/15	C T F Q



10	10	
Qty.	Size	
8	20	C T F Q
2	8	C T F Q



10	A10	
Qty.	Size	
8	16	C T F Q
2	8	C T F Q



10	10C3	
Qty.	Size	
7	20	C T F Q
3	11	C T F Q



13	13	
Qty.	Size	
13	16	C T F Q



14	14T3Q3	
Qty.	Size	
8	20	C T F Q
3	8	C T F Q
3	8	C T F Q



17	17	
Qty.	Size	
17	20	C T F Q



25	25C15	
Qty.	Size	
14	22	C T F Q
14	12	C T F Q



26	26	
Qty.	Size	
26	16	C T F Q
14	15	C T F Q



32	32	
Qty.	Size	
29	20	C T F Q
3	16	C T F Q



32	32C4	
Qty.	Size	
24	20	C T F Q
4	16	C T F Q
4	8	C T F Q



32	32C2	
Qty.	Size	
30	20	C T F Q
2	5	C T F Q



33	33C4	
Qty.	Size	
25	20	C T F Q
4	16	C T F Q
4	5	C T F Q



33	33Q4F4	
Qty.	Size	
25	20	C T F Q
4	16	C T F Q
4	8	C T F Q



36	36C7	
Qty.	Size	
29	22	C T F Q
7	5	C T F Q



40	40	
Qty.	Size	
40	20	C T F Q



40	40C1	
Qty.	Size	
39	20	C T F Q
1	5	C T F Q



45	45	
Qty.	Size	
45	20	C T F Q



57	57	
Qty.	Size	
57	20LD	C T F Q



67	67	
Qty.	Size	
64	20	C T F Q
3	16/15	C T F Q



73	71F2	
Qty.	Size	
67	22	C T F Q
4	16	C T F Q
2	16	C T F Q



88	88	
Qty.	Size	
79	22	C T F Q
6	20	C T F Q
3	16	C T F Q



106	106	
Qty.	Size	
106	22	C T F Q

C COAX
T TWINAX OR TRIAX
F FIBER
Q QUADRAX

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 gender.
4. For military version, consult Amphenol Canada Corporation.

INSERT LAYOUT DESIGNATOR

Amphenol CANADA
MILITARY & AEROSPACE

PART NUMBER KEY

1 RoHS Compliance	2 Series	3 Shell Style	4 Class		5 Insert Layout Designator		6 Shell Type	7 Mounting Modifier	8 Polarizing Position	9 Customer Ordering Code
E	AR	2	A	–	313	–	3	00	01	200

Insert Layout Designator	Insert Arrangements / Cavity			
	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	–	–
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	–	–	–

Insert Layout Designator	Insert Arrangements / Cavity			
	A	B	C	D
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	–	–
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	–

INSERT LAYOUT DESIGNATOR

Amphenol CANADA
MILITARY & AEROSPACE

Insert Layout Designator	Insert Arrangements / Cavity			
	A	B	C	D
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	–	–
111	C2P	57P	–	–
112	C2S	57S	–	–
113	C3P	67P	–	–
114	C3S	67S	–	–
115	C3P	106S	–	–

Insert Layout Designator	Insert Arrangements / Cavity			
	A	B	C	D
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	–	–

Insert Layout Designator	Insert Arrangements / Cavity			
	A	B	C	D
156	C8S	32C4S	–	–
157	106S	106S	32C4P	–
158	106P	106P	32C4S	–
159	32C4P	C8P	–	–
160	32C4S	C8S	–	–
161	67C3P	106S	32C4P	–
162	67C3S	106P	32C4S	–
163	C8P	C8P	–	–
164	26P	26P	–	–
165	C8P	26P	–	–
166	C8S	26S	–	–
167	C7AAP	26P	–	–
168	C7AAS	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
177	C7AAP	26P	–	–
178	C7AAS	26S	–	–
180	32C4S	32C2S	–	–
181	32C4P	32C2P	–	–
182	106S	8S	–	–
183	106P	8P	–	–
184	C2S	67S	–	–
185	C2P	67P	–	–
186	106S	D8S	A10S	–
187	106P	D8P	A10P	–
188	106S	D8S	–	–
189	106P	D8P	–	–
190	A10S	D8S	–	–
191	A10P	D8P	–	–
192	67S	8S	7S	–
193	67P	8P	7P	–
194	C7AAS	A10S	106S	–
195	C7AAP	A10P	106P	–
200	40S	26S	8S	C6S
201	40P	26P	5P	C6P
297	26P	32C4P	–	–

Insert Layout Designator	Insert Arrangements / Cavity			
	A	B	C	D
298	26S	32C4S	–	–
299	8P	8P	8P	8P
400	32C2S	32C2S	57S	–
401	32C2P	32C2P	57P	–
402	45S	33C4S	–	–
403	Q6S	67S	32C2S	–
499	3S	3S	–	–
500	C8P	C6P	–	–
501	C8S	C6S	–	–
502	C6P	C8P	–	–
503	C6S	C8S	–	–
504	106P	DUMMY	106P	DUMMY
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	–	–
530	32C4P	106P	–	–
531	40S	D8S	–	–
532	67S	D8S	–	–

INSERT LAYOUT DESIGNATOR

Amphenol CANADA
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Insert Layout Designator	Insert Arrangements / Cavity			
	A	B	C	D
533	26P	45P	–	–
534	26S	57S	–	–
535	40S	57S	–	–
536	C8P	C8P	–	–
537	C8S	C8S	–	–
538	C2P	8P	–	–
539	106S	106S	C8P	–
540	106P	106P	C8S	–
541	106S	106S	26P	–
542	8P	26P	–	–
543	45P	8P	–	–
544	45S	8S	–	–
545	DUMMY	67P	–	–
546	78S	C5P	–	–
547	106P	32C4S	32C4S	–
548	106S	32C4P	32C4P	–
549	33C4S	33C4S	–	–
550	32C4P	32C4P	–	–
551	C8P	C6P	–	–
552	C8S	C6S	–	–
553	40S	32C2S	–	–
554	40P	32C2P	–	–
555	32C4P	45P	–	–
556	C8S	67S	–	–
557	32C4S	45S	–	–
558	C12	–	–	–
559	106S	106S	106P	–
560	32C2P	26P	–	–
561	32C2S	26S	–	–
562	40C1S	40C1S	–	–
563	8P	26P	67P	67P
564	57S	C2S	–	–
565	8S	26S	67S	67S
566	40S	C8S	–	–
567	32C2S	26S	–	–
568	106P	106P	106S	–
569	106P	91C1P	–	–
570	106S	91C1S	–	–
572	DUMMY	DUMMY	–	–
573	8S	–	–	–

Insert Layout Designator	Insert Arrangements / Cavity			
	A	B	C	D
574	C2S	C2S	57S	D8S
575	C2P	C2P	57P	D8P
576	33C4P	40C1P	–	–
577	DUMMY	57P	–	–
578	57S	C8S	–	–
579	57P	C8P	–	–
580	C8S	DUMMY	–	–
581	26S	C8S	–	–
582	26P	C8P	–	–
583	67S	C8S	–	–
584	67P	C8P	–	–
585	A10S	67S	–	–
586	106S	40C1P	–	–
587	106P	D8S	67S	67S
588	36C7S	36C7S	–	–
589	30C4P	106S	–	–
590	C6P	C6P	40P	
591	C8S	106P	–	–
592	C6S	C6S	40S	–
593	106P	57P	106P	–
594	26P	57P	57P	–
595	106S	57S	106S	–
596	26S	57S	57S	–
597	106P	40C1S	–	–
598	8S	8S	–	–
599	45S	C8S	–	–
600	A10S	67S	–	–
601	26S	D8S	–	–
602	D8P	D8S	–	–
603	10C3S	–		
604	8P	–	–	–
605	8S	–	–	–
606	57P	33C4S	–	–
607	57S	33C4P	–	–
608	36C7S	8P	–	–
609	36C7P	8S	–	–
610	C3S	67S	–	–
611	32C2S	–	–	–
612	106S	45S	–	–
613	106P	45P	–	–

Insert Layout Designator	Insert Arrangements / Cavity			
	A	B	C	D
614	45P	8S	–	–
615	45S	8P	–	–
616	106P	45S	–	–
617	106S	45P	–	–
618	C2S	C2S	C2S	C2S
619	67S	32C2S	–	–
620	32C4S	106P	67S	
621	26P	8P	–	–
622	45P	45P	D8P	–
623	45S	45S	D8S	–
624	106S	67S	–	–
625	106P	67P	–	–
626	106S	32C4S	–	–
627	106P	32C4P	–	–
628	67S	26S	–	–
629	67P	26P	–	–
630	67S	40C1S	–	–
631	67P	40C1P	–	–
632	32C4S	D8S	–	–
633	32C4S	D8P	–	–
634	32C4S	32C4S	–	–
635	32C4P	32C4P	–	–
636	106S	C8S	–	–
637	106P	C8P	–	–
638	26S	32C2S	–	–
639	26P	32C2P	–	–
640	D8S	32C4S	–	–
641	D8P	32C4P	–	–
642	40C1S	67S	–	–
643	40C1P	67P	–	–
644	32S	32S	–	–
645	32P	32P	–	–
646	30C4P	36W7S	–	–
647	32C4S	32C4S	32C4S	–
648	67P	32C2P	–	–
649	Special			
650	Special			
651	45S	45S	26S	26S
652	45P	45P	26P	26P
653	106P	106P	57S	–

Insert Layout Designator	Insert Arrangements / Cavity			
	A	B	C	D
654	106S	106S	57P	–
655	36C7S	106S	–	–
656	33C4P	67P	–	–
657	33C4S	67S	–	–
658	106P	40S	–	–
659	26P	57P	–	–
660	36C7S	31C4S	–	–
661	26S	45S	–	–
662	67P	67S	32C2P	–
663	67S	67P	32C2S	–
664	45S	106P	–	–
665	67P	106P	32C2S	–
666	67S	106S	32C2P	–
667	57S	45S	–	–
668	57P	C1	–	–
669	88P	106P	106P	–
670	88S	106S	106S	–
671	C3P	26P	67P	–
672	33C4S	D8S	–	–
673	33C4P	D8P	–	–
674	C2P	C2P	C2P	C2P
675	36C7P	32C4P	–	–
676	26S	26S	106P	106P
677	33C4P	40C1P	–	–
678	106P	26S	C8S	–
679	106P	106P	26S	–
680	13S		–	–
681	57P	C5P	–	–
682	57S	C5S	–	–
683	106S	36C7S	–	–
684	8P	8P	17P	–
685	8S	8S	17S	–
686	32C4P	40P	–	–
687	32C4S	40S	–	–
688	17P	C3P	C3P	C3P
689	17S	C3S	C3S	C3S
690	45S	45S	26S	26S
691	45P	45P	26P	26P
692	C8S	C8S	–	–
693	32S		–	–

INSERT LAYOUT DESIGNATOR

Amphenol CANADA
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Insert Layout Designator	Insert Arrangements / Cavity			
	A	B	C	D
694	DUMMY	57S	–	–
695	DUMMY	67S	–	–
696	26S	8S	–	–
697	C2S	57S	–	–
698	45S	40S	–	–
699	26S	DUMMY	106P	DUMMY
700	32C4P F/R	106S FR	–	–
701	67P	106S	106S	–
702	67S	106P	106P	–
703	8S	26S	–	–
704	8P	8P	57P	–
705	8S	8S	57S	–
706	57S	DUMMY	–	–
707	67P	8P	–	–
708	67S	8S	–	–
709	67S	67S	C8S	DUMMY
710	26P	7P	–	–
711	32C2P	32C2P	–	–
712	32C2S	32C2S	–	–
713				
714	40S	67S	67S	–
715	40P	67P	67P	–
716	106S	106S	36W7S	–
717	106P	106P	67P	67P
718	106S	106S	67S	67S
719	67P	67P	26P	C8P
720	67S	67S	26S	C8S
721	106P	106P	67P	26P
722	106S	106S	67S	26S
723	106P	67P	67P	67P
724	106S	67S	67S	67S
725	25C15S	73Q1S	–	–
726	25C15P	73Q1P	–	–
727	106P	25C15S	106S	–
728	106S	25C15P	106P	–
729	36W7S	106P	–	–
730	106P	36W7S	–	–
731	106P	32C4S	–	–
732	106S	32C4P	–	–
733	67S	36W7S	–	–

Insert Layout Designator	Insert Arrangements / Cavity			
	A	B	C	D
734	67P	36W7P	–	–
735	30C4S	106P	–	–
736	106S	40S	–	–
737	106P	40P	–	–
738	26S	26S	45S	45S
739	26P	26P	45P	45P
740	40S	106P	–	–
741	40P	106S	–	–
742	40S	26S	–	–
743	40P	26P	–	–
744	57P	106P	–	–
745	57S	106S	–	–
746	D8S	106S	106S	106S
747	D8P	106P	106P	106P
748	26P	DUMMY	–	–
749	26S	DUMMY	–	–
750	26S	40S	–	–
751	26P	40P	–	–
752	67P	36C7S	–	–
753	67S	36C7P	–	–
754	106P	67P	C8P	67P
755	106S	67S	C8S	67S
756	67P	C8P	8P	DUMMY
757	67S	C8S	8S	DUMMY
758	26P	40C1P	–	–
759	26S	40C1S	–	–
760	32C2S	67S	32C2S	–
761	32C2P	67P	32C2P	–
762	106P	26P	–	–
763	106S	26S	–	–
764	33C4P	45P	–	–
765	33C4S	45S	–	–
766	33C4P	DUMMY	–	–
767	33C4S	DUMMY	–	–
768	26P	26P	26P	67P
769	26S	26S	26S	67S
770	57P	DUMMY	–	–
771	57S	DUMMY	–	–
772	32P		–	–
773	106P	DUMMY	–	–

Insert Layout Designator	Insert Arrangements / Cavity			
	A	B	C	D
774	106S	DUMMY	–	–
775	57P	57S	–	–
776	57S	57P	–	–
777				
778				
779	8P	D8P	–	–
780	8S	D8S	–	–
781	32P	57P	–	–
782	32S	57S	–	–
783	33C4P	33C4P	–	–
784	32C4P	D8P	–	–
785	32C4S	D8S	–	–
786	45P	106S	–	–
787	45S	106P	–	–
788	40S	8S	–	–
789	D8P	106S	–	–
790	D8S	106P	–	–
791	26S	106P	–	–
792	26P	106S	–	–
793	Q8P	Q8P	–	–
794	Q8S	Q8S	–	–
795	32C4P	26P	–	–
796	32C4P	C8S	33C4S	–
797	36W7P	36W7P	–	–
800	67P	67P	40P	–
801	67P	67P	67P	–
802	36W7P	106P	–	–
803	30C4P	106P	–	–
804	106P	22Q2S	–	–
805	106S	22Q2P	–	–
806	C2P	C2P	–	–
807	C2S	C2S	–	–
808	106P	36C7P	–	–
809	25T15	106P	–	–
810	67S	26S	C3S	–
811	36W7S	36W7S	–	–
812	106P	T8S	106P	–
813	106S	T8P	106S	–
814	C8P	C8P	36W7S	–
815	C8S	C8S	36W7P	–

Insert Layout Designator	Insert Arrangements / Cavity			
	A	B	C	D
816	DUMMY	33C4S	–	–
817	40P	57P	–	–
818	D8P	45P	–	–
819	D8S	45S	–	–
820	26P	26P	–	–
821	26S	26S	45S	–
824	106P	106S	–	–
825	67P	67S	–	–
826	106S	106P	–	–
827	67S	67P	–	–
828	8S	8S	26S	
829	8P	8P	26P	
830	106P	33C4S	----	----
831	106P	14T3Q3P		
832	106S	14T3Q3S		
833	106S	67S	32C4S	67P
834	67P	67S	106S	C8S
835	106P	106S	67S	67P
836	106P	106S	67S	26S
837	8S	8S	8S	----
838	8P	8P	8P	----
839	26P	32C4P	106P	
840	26S	32C4S	106S	
841	88S	88S	----	----
842	88P	88P	----	----
843	67S	57S	–	–
844	67P	57P	–	–
845	106S	106P	67P	26P
846	106P	67P	32C4P	67S
847	67S	67P	106P	C8P
848	26S	106S	–	–
849	106S	106P	67P	67S
850	40P	45P	45P	–
851	106S	67P	67P	–
852	106S	40P	C8	–
853	106P	40S	C8	–
854	67P	106P	–	–
855	67S	106S	–	–
856	26P	106P	–	–
857	33C4P	67S	–	–

INSERT LAYOUT DESIGNATOR

Amphenol CANADA
MILITARY & AEROSPACE

Insert Layout Designator	Insert Arrangements / Cavity			
	A	B	C	D
858	33C4S	67P	–	–
859	106S	33C4S	–	–
860	67S	33C4S	–	–
861	67P	33C4P	–	–
862	106P	45P	8P	–
863	8P	8P	–	–
864	32C4P	106P	–	–
865	32C4S	106S	–	–
866	C8P	57P	8P	–
867	26S	67S	–	–
868	33C4S	67S	–	–
869	57P	67P	–	–
870	106S	4F2C2P	–	–
871	106P	4F2C2S	–	–
872	8P	26P	40P	–
873	8S	26S	40S	–
876	57P	C5P	–	–
877	106S	34C2Q1S	–	–
878	106P	34C2Q1P	–	–
879	106S	33C2S	–	–
880	106P	33C2P	–	–
881	45S	40S	40S	45S
882	43C1S	43C1S	–	–
883	43C1P	43C1P	–	–
884	32C2P	106P	–	–
885	32C2S	106S	–	–
886	45FS	106S	–	–
887	45FP	106P	–	–
888	106S	33C4P	106S	33C4P
889	106P	33C4S	106P	33C4S
890	106S	4F2C2S	106S	–
891	106P	4F2C2P	106P	–
892	73F6s	8Q6s	73F6s	8Q6s
893	73F6p	8Q6p	73F6p	8Q6p
894	26S	40S	–	–
895	33C4S	D8S	-	-
896	81C3S	–	–	–
897	40s	8s	26s	–
898	40S	67S	–	–
899	40P	67P	–	–

Insert Layout Designator	Insert Arrangements / Cavity			
	A	B	C	D
902	17s	–	–	–
903	17p	–	–	–
904	67P	106P	106P	106P
905	67S	106S	106S	106S
906	40P	36C7S	106S	–
907	106P	8P	–	–
908	13P	–	–	–
909	32C4P	D8S	–	–
910	32C4P	40P	26P	–
911	32C4S	40S	26S	–
912	40S	D8P	26S	–
913	40P	D8S	26P	–
914	57P	40P	–	–
915	57S	40S	–	–
916	17P	17P	–	–
917	17S	17S	–	–
918	26P	26P	32C4P	
919	26S	26S	32C4S	–
920	32C4P	32C4P	26P	–
921	32C4S	32C4S	26S	–
922	D8P	D8P	40P	–
923	D8S	D8S	40S	–
924	C2P	–	–	–
925	32A	–	–	–
926	26P	67P	40P	–
927	8S	32C4S	–	–
928	8P	32C4P	–	–
929	106p	D8s	67s	8s
930	45S	26S	106S	–
931	45P	26P	106P	–
932	C8S	C8S	DUMMY	–
933	C8P	C8P	DUMMY	–
934	C8S	C8S	DUMMY	67S
935	C8P	C8P	DUMMY	67P
936	26S	26P	–	–
937	26P	26S	–	–
938	32C4S	32C4P	–	–
939	32C4P	32C4S	–	–
940	40p	8s	26p	–
941	C8S	106p	26s	–

Insert Layout Designator	Insert Arrangements / Cavity			
	A	B	C	D
942	C8P	106S	26P	–
943	26P	67P	C3P	67P
944	C3S	26S	67S	67S
945	26S	67S	40S	–
946	40C1P	40C1S	–	–
947	62F2P	–	–	–
948	62F2S	–	–	–
949	106s	84C3s	–	–
950	106s	106s	C6S	–
951	57s	57s	26p	–
952	57s	5F5s	–	–
953	57p	5F5p	–	–
954	106s	12Q4p	5F5p	–
955	106p	12Q4s	5F5s	–
956	32C4P	67P	17P	106P
957	32C4S	67S	17S	106S
958	26P	67P	17P	106P
959	26S	67S	17S	106S
960	106s	106s	106s	32Q2s
961	106p	106p	106p	32Q2p
962	106P	106P	6FQ	–
963	81C3P	–	–	–
964	A10S	–	–	–
965	A10P	–	–	–
966	Q6P	67P	32C2P	
967	106P	C2	–	–
968	40C1P	42B2P	–	–
969	40C1S	42B2S	–	–
970	C8P	8P	–	–
971	40S	Q8S	40S	67P
972	40P	Q8P	40P	67S
973	12Q4P	–	–	–
974	32C4P	57P	–	–
975	32C4S	57S	–	–
976	33C4P	33Q3C1P	–	–
977	T8S	T8S	T8S	T8S
978	T8P	T8P	T8P	T8P
979	T8S	106S	Q8S	–
980	T8P	106P	Q8P	–
981	8P	36C7S	–	–

Insert Layout Designator	Insert Arrangements / Cavity			
	A	B	C	D
982	106S	32C2S	C8S	–
983	106P	32C2P	C8P	–
984	106S	32C4S	C8S	–
985	106P	32C4P	C8P	–
986	106S	26P	106S	3Q3P
987	106P	26S	106P	3Q3S
988	C8S	26P	26P	–
989	C8P	26S	26S	–
990	C8P	C8P	106S	106S
991	C8S	C8S	106P	106P
992	C8P	26P	–	–
993	C8S	26S	–	–
994	106P	14C7P	–	–
995	106S	14C7P	–	–
996	106P	45S	106P	–
997	106S	45P	106S	–
998	106P	67S	106P	67S
999	106S	33C4P	–	–
202	D8P	40P	67P	67P
M716	106P	106S	36W7S	–
059C	C26P	106S		
060C	C26S	106P		
716T	A106P	A106S	36T7	
683T	A106S	36T7		
1000	36C7S	36C7S	DUMMY	

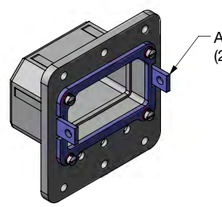
PART NUMBER KEY

1 RoHS Compliance	2 Series	3 Shell Style	4 Class		5 Insert Layout Designator		6 Shell Type	7 Mounting Modifier	8 Polarizing Position	9 Customer Ordering Code
E	AR	2	A	–	313	–	3	00	01	200

STANDARD MOUNT

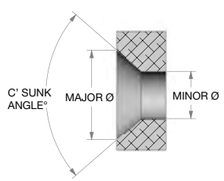
Features	Shell Type	Shell Sizes	Thru Holes			C'Sunk Holes					Part Number per Plating			
			Qty.	Location	Dia. Ø +/- .003 (.076)	Qty.	Location	Dia. Ø +/- .003 (.076) Minor	Dia. Ø +/- .003 (.076) Major	Angle	Yellow Cadmium	Electroless Nickel	Olive Drab	Nickel-PTFE/ Durmalon™
-	Receptacle	All	All	Corners	0.12 (3.05)	-	-	-	-	-	00	AA	DA	NA
	Plug	A	-	Corners		-	-	-	-	-				
		B / 2	2	Middle		4	Corners	0.12 (3.05)	0.23 (5.84)	82°				
		3	-	-		6	All							
		4	0	-		10								
Attaching Tabs	Receptacle	All	All	Corners	0.12 (3.05)						02	AC	DC	NC
	Plug	A	-	Corners										
		B / 2	2	Middle		4	Corners	0.12 (3.05)	0.23 (5.84)	82°				
		3	-	-		6	All							
		4	0	-		10								





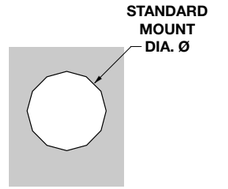
COUNTER SUNK MOUNT HOLES

Features	Shell Sizes	C'Sunk Holes					Part Number per Plating			
		Qty.	Location	Dia. Ø +/- .003 (.076) Minor	Dia. Ø +/- .003 (.076) Major	Angle	Yellow Cadmium	Electroless Nickel	Olive Drab	Nickel-PTFE/ Durmalon™
-	ALL	4	Corners	0.12 (3.05)	0.23 (5.84)	100	03	AD	DD	ND
				0.135 (3.43)		82	08	AF	DF	NF
				0.12 (3.05)		82	26	AS	DS	NS
	B, 2, 3, 4	ALL	ALL	0.12 (3.05)		100	A3	A1	D1	N1
Attaching Tabs	All	4	Corners	0.12 (3.05)	0.23 (5.84)	100	04	AE	DE	NE
	4	6	Corners & Middle			90	74	A2	D2	N2



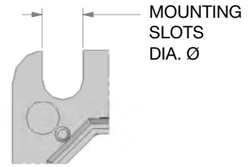
MOUNTING HOLE MODIFICATIONS

Shell Sizes	Thru Holes			Part Number per Plating			
	Qty.	Location	Dia. Ø	Yellow Cadmium	Electroless Nickel	Olive Drab	Nickel-PTFE/ Durmalon™
All	4	Corners	0.154 (3.91)	25	AR	DR	NR
B / 2 / 3	6	All		20	AM	DM	NM
4		Corners & Middle					



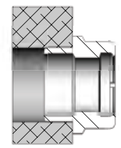
MOUNTING SLOTS

Shell Sizes	Slots			Part Number per Plating			
	Qty.	Location	Dia. Ø	Yellow Cadmium	Electroless Nickel	Olive Drab	Nickel-PTFE/ Durmalon™
B / 2 / 3	4	Corners	0.208 (5.28)	12	AG	DG	NG
			0.208 (5.28)	13	AH	DH	NH



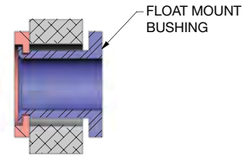
CLINCH NUTS

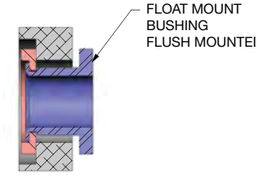
Features	Shell Sizes	Clinch Nuts			Part Number per Plating			
		Qty.	Location	Type	Yellow Cadmium	Electroless Nickel	Olive Drab	Nickel-PTFE/ Durmalon™
-	All	4	Corners	#4-40UNC-3B	01	AB	DB	NB
	B, 2, 3	6	All		18	AK	DK	NK
	4		Corners & Middle					
		8	All except Middle		42	AY	DY	NY
		10	All		43	A4	D3	N3
Attaching Tabs	All	4	Corners	#4-40UNC-3B	17	AJ	DJ	NJ
	B, 2, 3	6	All		19	AL	DL	NL
	4		Corners & Middle					
		10	All		44	A5	D4	N4

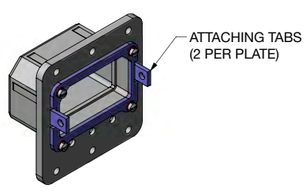


FLOAT MOUNT

Features	Shell Sizes	Float Mount		Part Number per Plating			
		Qty.	Location	Yellow Cadmium	Electroless Nickel	Olive Drab	Nickel-PTFE/ Durmalon™
-	All	4	Corners	23	AP	DP	NP
Flush Mount	B, 2, 3	6	All	33	AV	DV	NV
-	4		Corners & Middle	29	AT	DT	NT
		10	All	45	A6	D5	N5
Attaching Tabs	All	4	Corners	22	AN	DN	NN
	B, 2, 3	6	All	30	AU	DU	NU
	4		Corners & Middle				



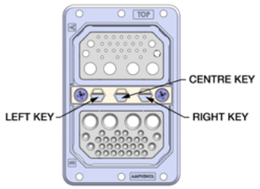


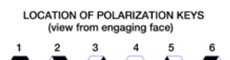


POLARIZING POSITIONS

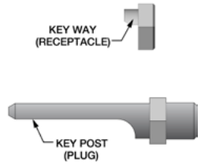
PART NUMBER KEY

1 RoHS Compliance	2 Series	3 Class	4 Shell Style		5 Insert Layout Designator		6 Shell Type	7 Mounting Modifier	8 Polarizing Position	9 Contact Mod. Material
E	A	A	P	–	313	–	3	00	01	OO









The following table lists the polarizing positions of available keying positions. See how to order procedure of page 6 and 9 for incorporation these polarizing positions into part numbers.

Part Number	Key Position					
	Receptacle Shell			Plug Shell		
	Left	Center	Right	Left	Center	Right
00	-	-	-	-	-	-
01	4	4	4	1	1	1
02	4	4	3	2	1	1
03	4	4	2	3	1	1
04	4	4	1	4	1	1
05	4	4	6	5	1	1
06	4	4	5	6	1	1
07	5	4	4	1	1	6
08	5	4	3	2	1	6
09	5	4	2	3	1	6
10	5	4	1	4	1	6
11	5	4	6	5	1	6
12	5	4	5	6	1	6
13	6	4	4	1	1	5
14	6	4	3	2	1	5
15	6	4	2	3	1	5
16	6	4	1	4	1	5
17	6	4	6	5	1	5
18	6	4	5	6	1	5
19	1	4	4	1	1	4
20	1	4	3	2	1	4
21	1	4	2	3	1	4
22	1	4	1	4	1	4
23	1	4	6	5	1	4
24	1	4	5	6	1	4
25	2	4	4	1	1	3
26	2	4	3	2	1	3
27	2	4	2	3	1	3
28	2	4	1	4	1	3
29	2	4	6	5	1	3
30	2	4	5	6	1	3
31	3	4	4	1	1	2
32	3	4	3	2	1	2
33	3	4	2	3	1	2
34	3	4	1	4	1	2
35	3	4	6	5	1	2
36	3	4	5	6	1	2
37	4	3	4	1	2	1
38	4	3	3	2	2	1

Part Number	Key Position					
	Receptacle Shell			Plug Shell		
	Left	Center	Right	Left	Center	Right
39	4	3	2	3	2	1
40	4	3	1	4	2	1
41	4	3	6	5	2	1
42	4	3	5	6	2	1
43	5	3	4	1	2	6
44	5	3	3	2	2	6
45	5	3	2	3	2	6
46	5	3	1	4	2	6
47	5	3	6	5	2	6
48	5	3	5	6	2	6
49	6	3	4	1	2	5
50	6	3	3	2	2	5
51	6	3	2	3	2	5
52	6	3	1	4	2	5
53	6	3	6	5	2	5
54	6	3	5	6	2	5
55	1	3	4	1	2	4
56	1	3	3	2	2	4
57	1	3	2	3	2	4
58	1	3	1	4	2	4
59	1	3	6	5	2	4
60	1	3	5	6	2	4
61	2	3	4	1	2	3
62	2	3	3	2	2	3
63	2	3	2	3	2	3
64	2	3	1	4	2	3
65	2	3	6	5	2	3
66	2	3	5	6	2	3
67	3	3	4	1	2	2
68	3	3	3	2	2	2
69	3	3	2	3	2	2
70	3	3	1	4	2	2
71	3	3	6	5	2	2
72	3	3	5	6	2	2
73	4	2	4	1	3	1
74	4	2	3	2	3	1
75	4	2	2	3	3	1
76	4	2	1	4	3	1
77	4	2	6	5	3	1

Part Number	Key Position					
	Receptacle Shell			Plug Shell		
	Left	Center	Right	Left	Center	Right
78	4	2	5	6	3	1
79	5	2	4	1	3	6
80	5	2	3	2	3	6
81	5	2	2	3	3	6
82	5	2	1	4	3	6
83	5	2	6	5	3	6
84	5	2	5	6	3	6
85	6	2	4	1	3	5
86	6	2	3	2	3	5
87	6	2	2	3	3	5
88	6	2	1	4	3	5
89	6	2	6	5	3	5
90	6	2	5	6	3	5
91	1	2	4	1	3	4
92	1	2	3	2	2	4
93	1	2	2	3	3	4
94	1	2	1	4	3	4
95	1	2	6	5	3	4
96	1	2	5	6	3	4
97	2	2	4	1	3	3
98	2	2	3	2	3	3
99	2	2	2	3	3	3
A0	2	2	1	4	3	3
A1	2	2	6	5	3	3
A2	2	2	5	6	3	3
A3	3	2	4	1	3	2
A4	3	2	3	2	3	2
A5	3	2	2	3	3	2
A6	3	2	1	4	3	2
A7	3	2	6	5	3	2
A8	3	2	5	6	3	2
A9	4	1	4	1	4	1
B0	4	1	3	2	4	1
B1	4	1	2	3	4	1
B2	4	1	1	4	4	1
B3	4	1	6	5	4	1
B4	4	1	5	6	4	1
B5	5	1	4	1	4	6
B6	5	1	3	2	4	6

Part Number	Key Position					
	Receptacle Shell			Plug Shell		
	Left	Center	Right	Left	Center	Right
B7	5	1	2	3	4	6
B8	5	1	1	4	4	6
B9	5	1	6	5	4	6
C0	5	1	5	6	4	6
C1	6	1	4	1	4	5
C2	6	1	3	2	4	5
C3	6	1	2	3	4	5
C4	6	1	1	4	4	5
C5	6	1	6	5	4	5
C6	6	1	5	6	4	5
C7	1	1	4	1	4	4
C8	1	1	3	2	4	4
C9	1	1	2	3	4	4
D0	1	1	1	4	4	4
D1	1	1	6	5	4	4
D2	1	1	5	6	4	4
D3	2	1	4	1	4	3
D4	2	1	3	2	4	3
D5	2	1	2	3	4	3
D6	2	1	1	4	4	3
D7	2	1	6	5	4	3
D8	2	1	5	6	4	3
D9	3	1	4	1	4	2
E0	3	1	3	2	4	2
E1	3	1	2	3	4	2
E2	3	1	1	4	4	2
E3	3	1	6	5	4	2
E4	3	1	5	6	4	2
E5	4	6	4	1	5	1
E6	4	6	3	2	5	1
E7	4	6	2	3	5	1
E8	4	6	1	4	5	1
E9	4	6	6	5	5	1
F0	4	6	5	6	5	1
F1	5	6	4	1	5	6
F2	5	6	3	2	5	6
F3	5	6	2	3	5	6
F4	5	6	1	4	5	6
F5	5	6	6	5	5	6
F6	5	6	5	6	5	6
F7	6	6	4	1	5	5
F8	6	6	3	2	5	5
F9	6	6	2	3	5	5
G0	6	6	1	4	5	5
G1	6	6	6	5	5	5
G2	6	6	5	6	5	5
G3	1	6	4	1	5	4
G4	1	6	3	2	5	4
G5	1	6	2	3	5	4
G6	1	6	1	4	5	4
G7	1	6	6	5	5	4
G8	1	6	5	6	5	4

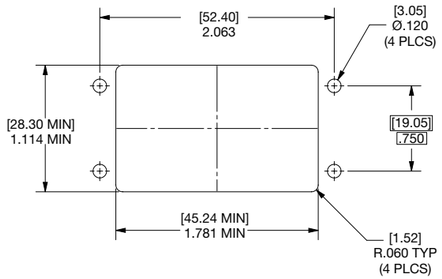
Part Number	Key Position					
	Receptacle Shell			Plug Shell		
	Left	Center	Right	Left	Center	Right
G9	2	6	4	1	5	3
H0	2	6	3	2	5	3
H1	2	6	2	3	5	3
H2	2	6	1	4	5	3
H3	2	6	6	5	5	3
H4	2	6	5	6	5	3
H5	3	6	4	1	5	2
H6	3	6	3	2	5	2
H7	3	6	2	3	5	2
H8	3	6	1	4	5	2
H9	3	6	6	5	5	2
J0	3	6	5	5	5	2
J1	4	5	4	1	6	1
J2	4	5	3	2	6	1
J3	4	5	2	3	6	1
J4	4	5	1	4	6	1
J5	4	5	6	5	6	1
J6	4	5	5	6	6	1
J7	5	5	4	1	6	6
J8	5	5	3	2	6	6
J9	5	5	2	3	6	6
K0	5	5	1	4	6	6
K1	5	5	6	5	6	6
K2	5	5	5	6	6	6
K3	6	5	4	1	6	5
K4	6	5	3	2	6	5
K5	6	5	2	3	6	5
K6	6	5	1	4	6	5
K7	6	5	6	5	6	5
K8	6	5	5	6	6	5
K9	1	5	4	1	6	4
L0	1	5	3	2	6	4
L1	1	5	2	3	6	4
L2	1	5	1	4	6	4
L3	1	5	6	5	6	4
L4	1	5	5	6	6	4
L5	2	5	4	1	6	3
L6	2	5	3	2	6	3
L7	2	5	2	3	6	3
L8	2	5	1	4	6	3
L9	2	5	6	5	6	3
M0	2	5	5	6	6	3
M1	3	5	4	1	6	2
M2	3	5	3	2	6	2
M3	3	5	2	3	6	2
M4	3	5	1	4	6	2
M5	3	5	6	5	6	2
M6	3	5	5	6	6	2

PANEL CUTOUT

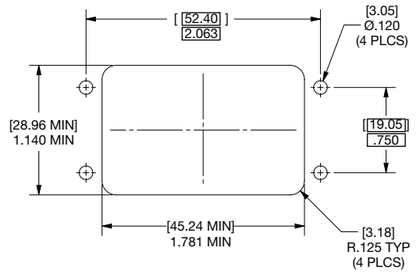
Amphenol CANADA
MILITARY & AEROSPACE

SIZE A

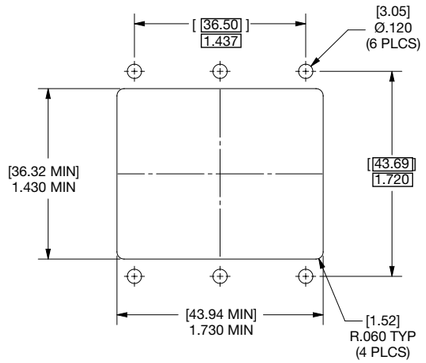
PLUG

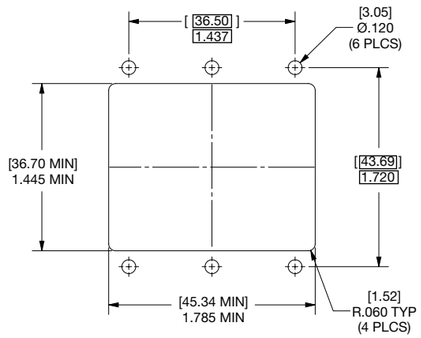


RECEPTACLE

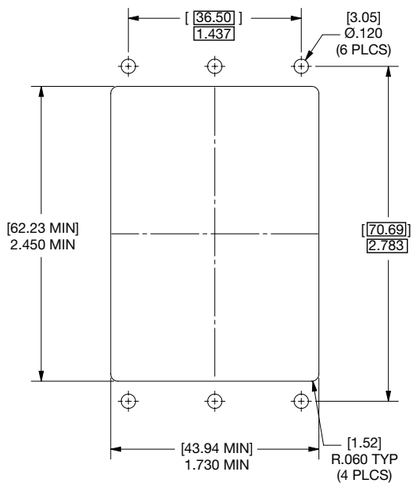


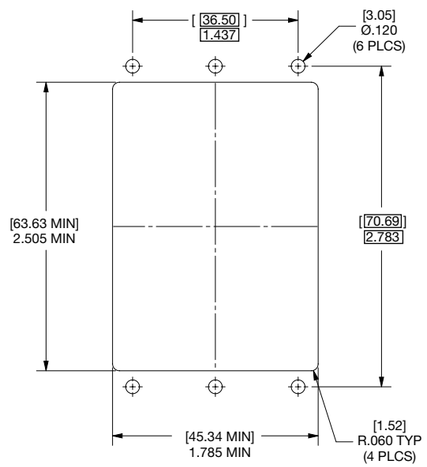
SIZE B





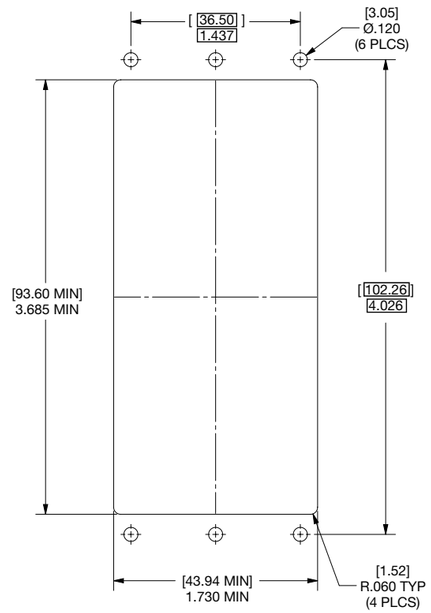
SIZE 2



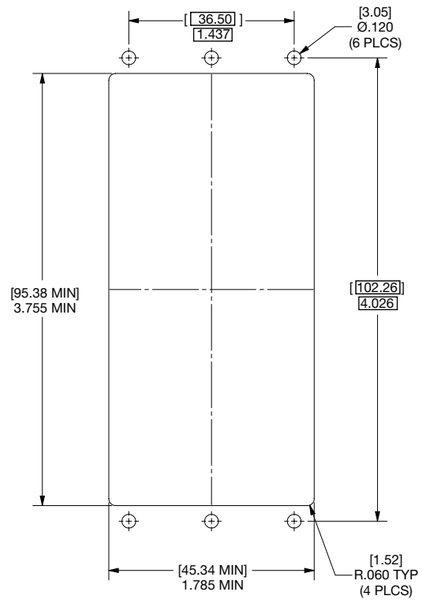


SIZE 3

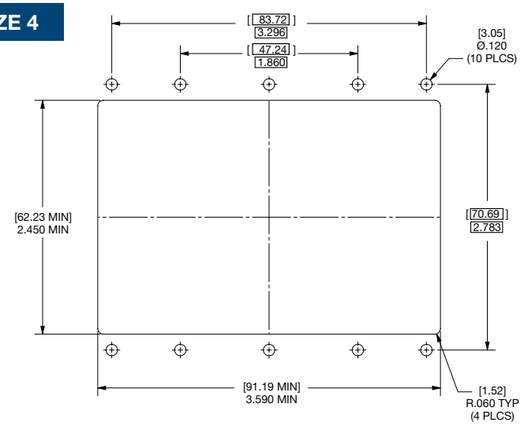
PLUG

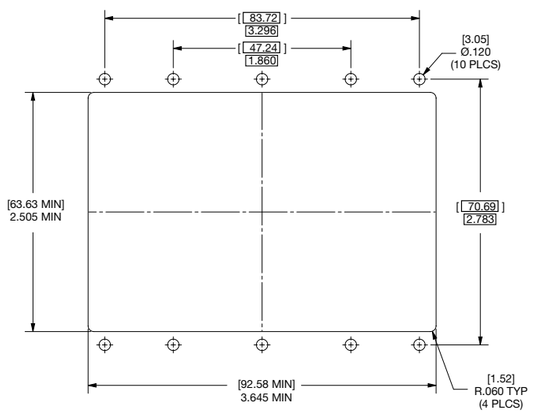


RECEPTACLE



SIZE 4





Contacts for ARINC 404 Rack and Panel Connectors can be ordered separately. Use the part numbers in the charts below for ordering contacts. When ordering contacts individually, please add a 'BP' suffix to the part number. This is for packaging and shipping reasons only. For further information consult Amphenol Canada Corporation.

CRIMP CONTACTS

Contact Type	Size	Pin		Socket		Installation/ Removal Tool	Crimp Tool	Positioner	AWG
		Military PN	Amphenol PN	Military PN	Amphenol PN				
Signal	22	M39029/11-144	AC-752222-079	M39029/12-148	AC-762222-079	M81969/1-01	M22520/2-01	M22520/2-23	22, 24 & 26
Power	20	M39029/11-145	AC-752020-081	M39029/12-149	AC-762020-081	M81969/1-02	M22520/2-01	M22520/2-08	20, 22 & 24
	16	M39029/11-146	AC-751616-076	M39029/12-150	AC-761616-076	M81969/1-03	M22520/1-01	M22520/1-02	16, 18 & 20
	12	M39029/11-147	AC-751212-078	M39029/12-151	AC-761212-078	M81969/28-02	M22520/1-01	M22520/1-11	12 & 14

Contacts are rear release



Pin



Socket

COAX CONTACTS

Size	Amphenol Part Number		Layout Usage	Cable Accommodation
	Pin	Socket		
5	AC-600002-001	AC-600003-001	32C2 (1.4)	RG-59/U, RG-62/U
	AC-600002-002	AC-600003-002	32C2	RG-58/U
	AC-600002-005	AC-600003-005	32C2 40C1	RG-58/U
9	AC-600002-003	AC-600003-003	C8 32C4	RG-58/U
	AC-600002-003A	AC-600003-003A	C8 32C4	RG-142/U
	AC-600002-004	AC-600003-004	C8 32C4	RG-174/U, RG-179/U, RG-187/U, RG-188/U

For RoHS compliance add "E" in front of contact part number

RF CONTACTS

Type	Size	Part Number		Cable Type			Removal Tool
		Receptacle (Pin)	Plug (Socket)				
Coax	1	AC-4C01PC05-01	AC-4C01SC05-03	RG-214/U			N/A
	5	AC-4C05PC01-01 X	EAC-4C05SC01-01 X	RG-58/U			M81969/28-01
		AC-4C05PC01-02 X	EAC-4C05SC01-02 X	RG-142, RG-400			
		AC-4C05PC01-03 X	EAC-4C05SC01-03 X	RG-188/U, RG-316/U			
		AC-4C05PC01-05 X	EAC-4C05SC01-05 X	RG-400			
		AC-4C05PC01-06 X	EAC-4C05SC01-06 X	RG-141			
		AC-4C05PC01-07 X	EAC-4C05SC01-07 X	RG-223			
	9	AC-600002-003	AC-600003-003	RG-58/U			ATC 2281
		AC-600002-003A	AC-600003-003A	RG-142/U			
		AC-600002-004	AC-600003-004	RG-174/U, RG-179/U, RG-187/U, RG-188/U			
		AC-4C09PC01-01 X	AC-4C09SC01-01 X	RD-316, RG-316			
	15	AC-401060-2	AC-401060-1	RG-179			M81969/1-03
	16	EAC-401060-5	EAC-401060-4	RG-178			
Twinax	5	AC-4T05PC02-01 X	AC-4T05SC02-01 X	M17/176-00002			M81969/28-01
	12	AC-4T12PC01-01	AC-4T12SC01-01	M17/176-00002			M81969/28-02
Quadrax	8	AC-6Q08PC01-01 X	AC-6Q08SC01-01 X	**DRAKA FILECA** F4703-3, F4704-4	**NEXANS FILOTEX** ABS1503KD24/ET2PF870		"485-952 (MODIFIED M81969/14-12)"
		AC-6Q08PC01-02 X	AC-6Q08SC01-02 X	NF24Q100, 24443/03130X-4(LD) 24443/9P025X-4(LD)	**TENSOLITE** S280W502-4	**BOEING** MX100Q-24	
		AC-6Q08PC01-03 X	AC-6Q08SC01-03 X	**TENSOLITE** 26473/02006X-4(LD)	**GORE** RCN8328		
		AC-6Q08PC01-04 X	AC-6Q08SC01-04 X	**TENSOLITE** NF22Q100 NF22Q100-01	**DRAKA FILECA** 4704-5		
		AC-6Q08PC01-05 X	AC-6Q08SC01-05 X	JSFY02-1			

Boot Type "X"

A = Non-Environmental with Alignment Boot

N = Non-Environmental without Alignment Boot (NO BOOT)

E = Environmental with Sealing & Alignment Boot

T = Environmental for Tight Spacing with Sealing & Alignment Boot

B = Environmental for Sealing to the insert without Grommet with Sealing Boot



Socket



Pin

FILLER PLUGS



Contact Cavity Size	Amphenol Part Numbers	EMI Electroless Nickel Plated
22	AC-660022-701	AC-660022-E01
20	AC-660020-701	AC-660020-E01
16	AC-660016-701	AC-660016-E01
16 Fiber	AC-660016F-701	AC-660016F-E01
12	AC-660012-701	AC-660012-E01
9 Coax	AC-660008-701	AC-660008-E01
5 Coax (Plug)	AC-660005-701	AC-660005-E01
5 Coax (Recept.)	AC-660004-701	AC-660004-E01

Filler plugs are for non-environmental connectors

SEALING PLUGS

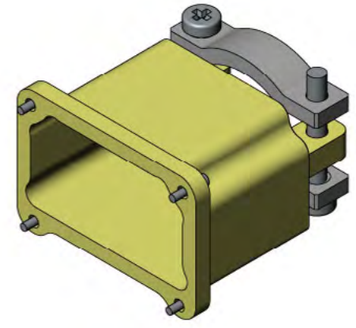


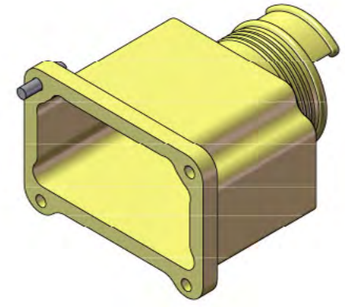
Contact Cavity Size	Amphenol Part Numbers	Color
22	AC-660022-801-2	●
20	AC-660020-801-2	●
16	AC-660016-801-2	●
12	AC-660012-801-2	●
8 Coax	AC-660008-801	●

For RoHS compliance add "E" in front of contact part number

PROTECTIVE DUST COVERS
(CONDUCTIVE)

Part Number	
Plug	Receptacle
AC-100000-591	AC-100000-601





PART NUMBER KEY

1 RoHS Compliance	2 Connector Series	3 Backshell		4 Shell Size	5 Backshell Style	6 Plating		7 Deviation Code
E	404	B	-	2	E	1	-	000

1 RoHS Compliance

E	RoHS Compliant
	Blank for Non-RoHS

2 Series

404	ARINC 404

3 Backshell

B	Backshell indicator

4 Shell Size

A	2	4
1	3	

5 Backshell Style

A	Split, Saddle Clamp
B	Split, EMI Band
C	Sealed, EMI Band
D	Threaded Adapter
E	Sealed/One piece, EMI band, oval exit

6 Shell Finish

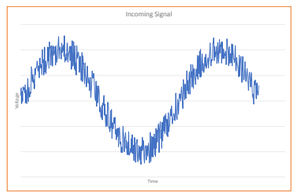
1	Electroless Nickel
2	OD Chromate
3	Tin
4	Gold
5	Zinc Nickel
6	Yellow CAD
7	Chem Film
8	Nickel Fluorocarbon Polymer (Durmalon)

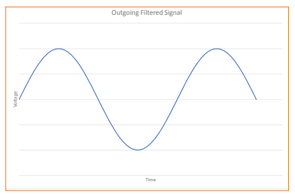
7 Deviation Code

000	Standard
XXX	Custom Shell, number assigned by the factory

Filter connectors play a crucial role in the ongoing battle against electromagnetic interference (EMI), particularly in challenging domains such as military and aerospace applications. For over three decades, industry pioneers like Amphenol Canada have been at the forefront of crafting sophisticated and compact solutions to address intricate EMI challenges.

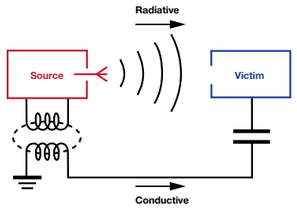
At its core, a filter connector functions as a vital component by filtering out noise and cleaning signals through a low pass filter. These connectors permit low-frequency signals to pass through while effectively filtering out higher-frequency signals and noise/EMI. This capability is paramount in ensuring the integrity of signals in complex systems.





Understanding the types of electromagnetic interference (EMI) is essential in appreciating the importance of filter connectors. EMI can manifest in two main types: conducted and radiated.

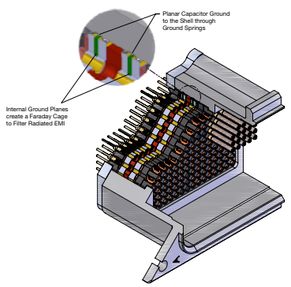
- **Conducted EMI** travels through physically connected lines, often caused by other electronic devices in the system.
- **Radiated EMI** travels through airwaves, potentially affecting physically isolated lines.



WHY USE AN ACC FILTER CONNECTOR?

Amphenol Canada excels in electromagnetic compatibility, evident in connectors designed to surpass technological requirements. ACC's stress-isolated planar array, using retention clips instead of solder, ensures a robust design, outperforming discrete filters by blocking radiated and filtering conducted EMI.

Innovative features, like the ground plate or internal ground electrodes, showcase Amphenol Canada's commitment to new connectivity standards, influencing space utilization, weight distribution, and assembly processes. This forward-thinking approach positions Amphenol Canada as a leader in delivering connectors meeting the stringent demands of aerospace applications.



ADVANTAGES

- Cost-Effective with Fewer Components
- Space Efficiency on PCB
- Reliability through Solder-less Designs
- Versatility for Retrofit or Late Design-In
- Dual Defense Against Radiated and Conducted EMI

FILTER CONNECTOR DESIGN

For military or avionics applications, two capacitor types are commonly used in filter connectors: planar arrays and tubular capacitors. Both capacitor types are efficient filters at high frequencies (> 1 GHz) and have been proven to be extremely reliable when assembled suitably into a connector. The unique solderless construction of both planar and tubular designs reduces stress on the ceramic elements and results in superior physical and thermal shock capabilities, which is a hallmark of Amphenol Canada's approach.

PLANAR ARRAY

Amphenol Canada's planar design consists of planar ceramic capacitor arrays with optional ferrites assembled concentrically over the contacts and into the connector shell. The planars are compressed between rubber gaskets and have contact springs in each position which form a stress isolated connection with the contact body. The planars are grounded to the shell via a ground spring.

TUBULAR CAPACITOR

Amphenol Canada's tubular design consists of a ceramic tubular capacitor assembled onto a machined contact. The filter tube is connected to the contact with conductive rubber washers to provide a stress-isolated contact assembly. Grounding is achieved via a ground plate.

FILTER CONNECTOR SELECTION

Choosing the right filter circuit involves aligning insertion loss characteristics with the system's source and load impedances. Combining capacitive and inductive elements creates diverse equivalent circuits, and our ferrite elements are strategically placed on the low impedance side. Amphenol Canada provides versatile filter variants with a wide range of capacitance and voltage values, offering flexibility in connector insert selection.

Beyond filter contacts, Amphenol Canada also offers insulated contacts, ground contacts, and sealing plugs. This comprehensive product range ensures tailored solutions for diverse application requirements while adhering to professional standards.

The following factors may affect the filter performance, and should be considered when selecting a filter connector and Amphenol Canada takes these into account when designing your filter solution

OPERATING CURRENTS

Operating currents induce magnetic saturation in filter ferrites, shifting their behavior towards a capacitor as currents rise, typically above 0.1 A. Selecting a filter connector requires careful consideration of operating currents to prevent saturation issues and ensure optimal performance.

OPERATING TEMPERATURE RANGE

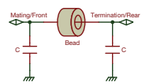
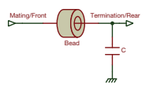
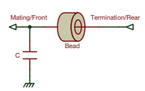
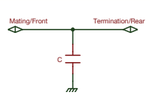
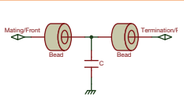
Operating temperature impacts connector performance in capacitance and insertion loss. Common dielectrics remain stable within +/- 15% from -55°C to +125°C. Choose a filter connector mindful of this range for consistent performance in various conditions.

OPERATING VOLTAGE

Operating/working voltage is specified for the normal signal line voltage. Dielectric Withstanding Voltage (DWV) is specified for the transient voltage surges.

TRANSIENT VOLTAGE REQUIREMENTS

Some transient voltage suppression requirements such as lightning strikes may necessitate the addition of diodes or MOV's to the PCB or in the connector.

FILTER TYPES	FILTER CIRCUIT	BEST FILTERING APPLICATION
PI		Unknown or medium source and load Impedance
LC		Low impedance on mating side, high impedance on termination side
CL		High impedance on mating side, low impedance on termination side
C		High source and high load impedance
T		Low source and low load impedance

High source/load impedance > 100Ω | *Low source/load impedance < 100Ω*

FILTER TYPES

T FILTER (L-C-L)

- 20 dB per frequency decade typical increase in attenuation slope
- Used where applications contain low source and load impedance
- Switch-mode power supplies are typical applications

L FILTER (L-C)

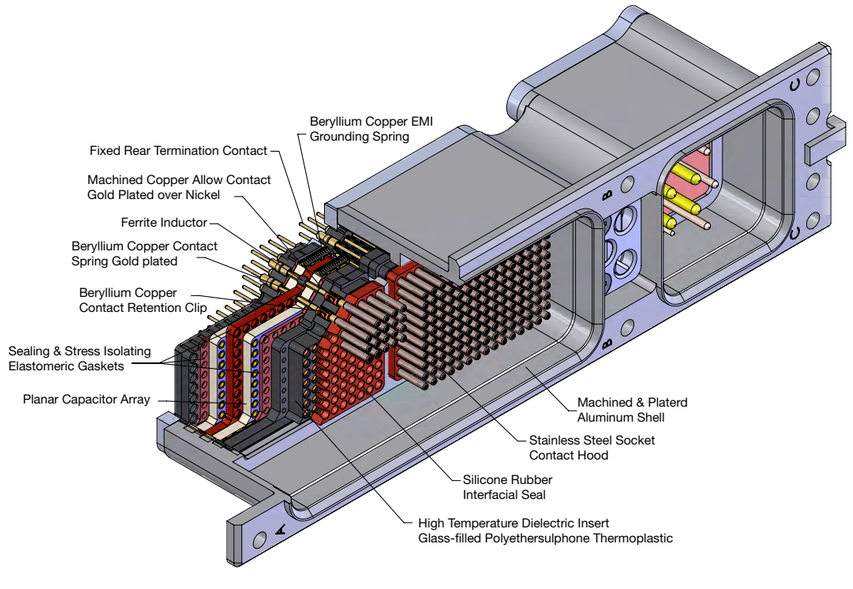
- 20 dB per frequency decade typical increase in attenuation slope
- Used where source and load impedance are dissimilar
- Ferrite side of filter is connected to lower impedance side of circuit
- Capacitor side to higher impedance side

PI FILTER (C-L-C)

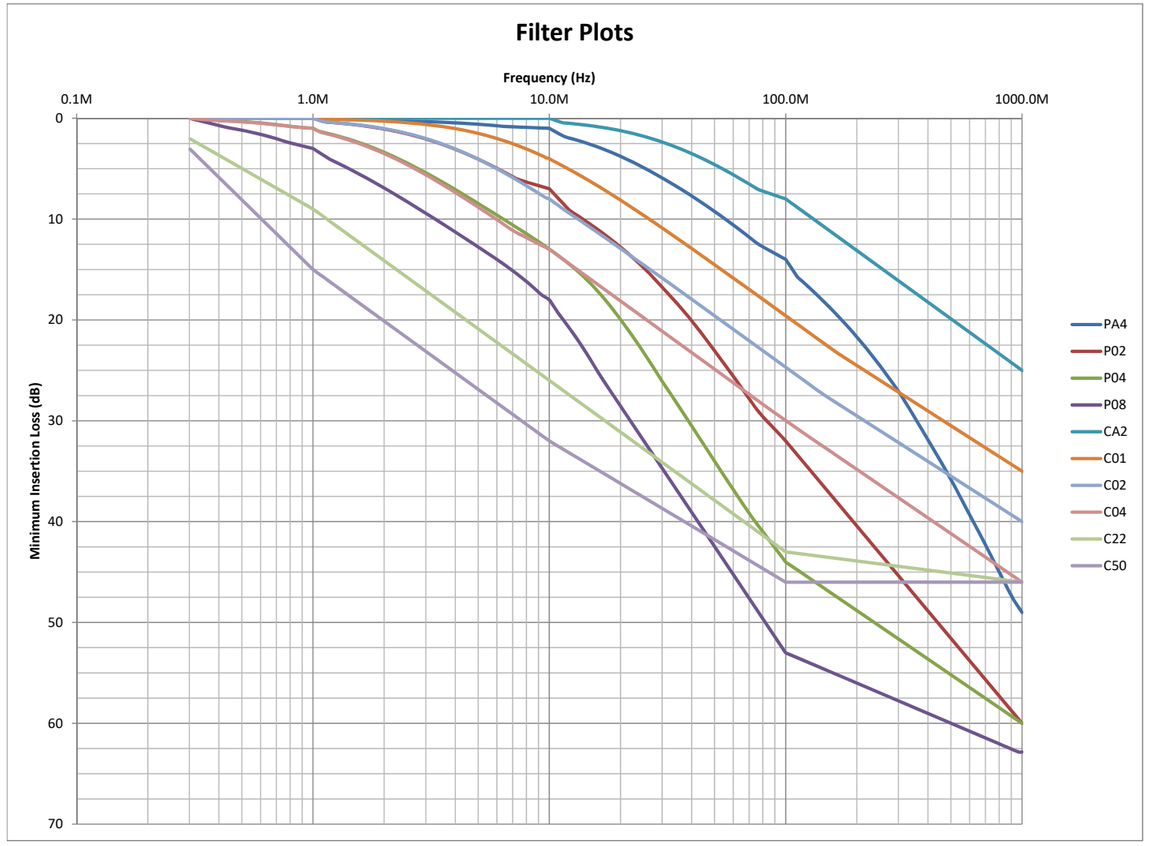
- 40 dB per frequency decade typical increase in attenuation slope
- Used where applications contain relatively higher source and load impedance

CAPACITOR FILTER (C)

- 20 dB per frequency decade typical increase in attenuation slope
- Used mainly for high frequency noise
- With high source and load impedance



Specs. \ Filter Type		PI				C, LC, CL, T					
		PA4	P02	P04	P08	CA2	C01	C02	C04	C22	C50
Capacitance (nF)		0.4 - 0.8	1.8 - 3.6	4.0 - 8.0	8.0 - 16.0	0.2 - 0.4	0.9 - 1.8	1.8 - 3.6	4.0 - 8.0	22.0 - 40.0	50.0 - 100.0
Insertion Loss (dB)	300 KHz	-	-	-	-	-	-	-	-	2	3
	1 MHz	-	-	1	3	-	-	-	1	9	15
	10 MHz	1	7	13	18	-	4	8	13	26	32
	100 MHz	14	32	44	53	8	20	25	30	43	46
	1 GHz	49	60	60	63	25	35	40	46	46	46
Working voltage (VDC) @ 25° & sea level		200									
Dielectric Withstand voltage (VDC) 25°C & 50 mA max charging current		500									
Insulation Resistance (Gohms) (min) @ 25°C & working voltage		10									
Current Rating by Contact Size continuous max, DC amperes		#12 = 23 A		#16 = 13 A		#20 = 7.5 A			#22 = 23 A		
Dissipation Factor @ 1kHz		3% Max									



PART NUMBER KEY

1 Filter Series		2 Connector Series	3 Class	4 Shell Style	5 Termination Style	6 Connector Size	7 Polarizing Position		8 Deviation Code
485	-	4	2	R	S	1	00	-	XXX

1 Filter Series

485	Filter Connector

2 Connector Series

6	ARINC 600

3 Class

1	Unsealed	2	Sealed

4 Shell Style

A	Adapter
P	Plug
R	Receptacle

5 Termination Style

B	PCB
S	Solder Cup
T	Crimp

6 Connector Size

A	Size 1 Non-Polarized
1	Size 1 Polarized
2	Size 2
3	Size 3
4	Size 4

7 Polarizing Position

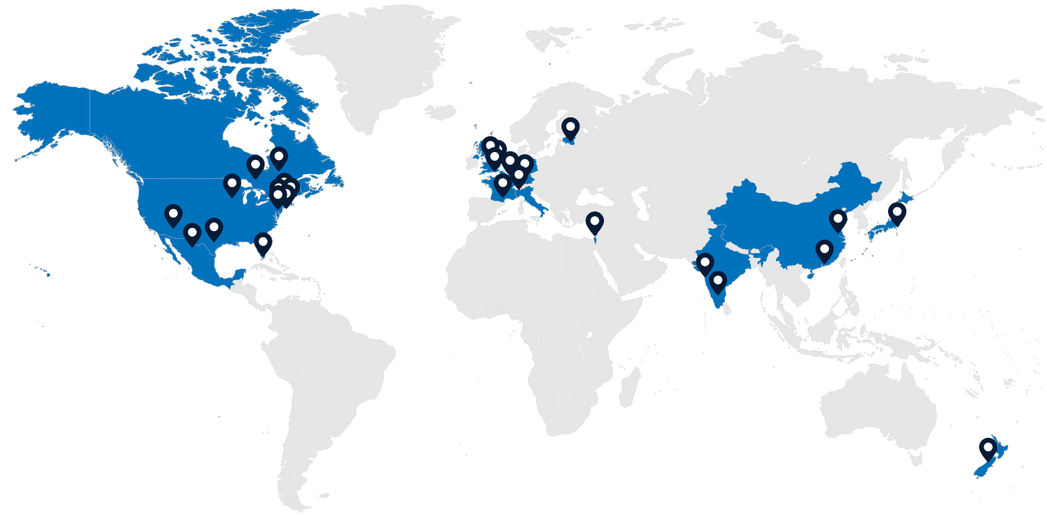
00	N/A
01-M6	Per ARINC Specs

8 Deviation Code

XXX	Customer Number

www.amphenolcanada.com

Amphenol



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Micro-D Connectors Catalog



Product Overview Brochure



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