

# Galley Connectors

Intermateable and interchangeable with other ARINC 810 galley connectors, Amphenol Pcd's APeX Galley Connector, Rectangular is a reliable, robust, connector that uses overmold technology to set it apart from the rest.



## Key Features and Benefits

### Intermateable and Interchangeable

Ability to mate with other ARINC 810 galley connectors in the market

### Blind-Mate Connection

Guide pin feature enables quick and simple mating

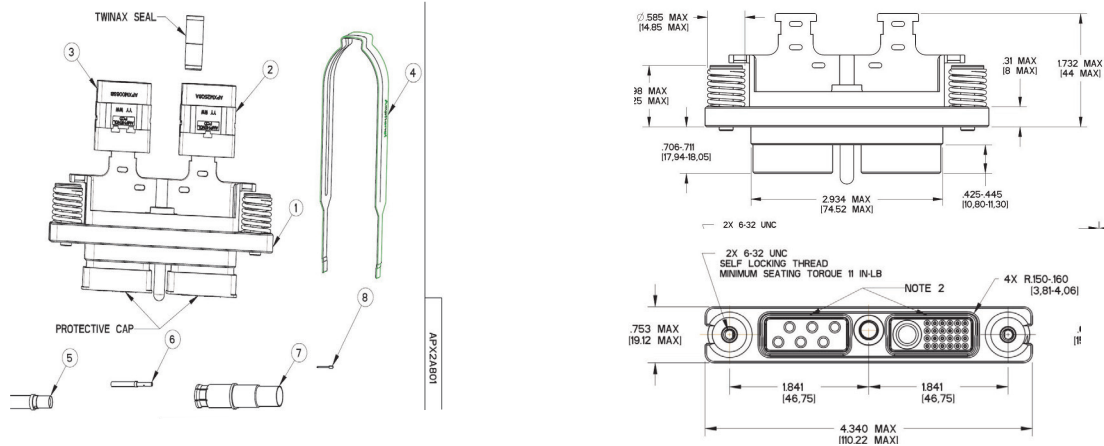
### Overmold Technology

Enables exceptional sealing that improves safety and reliability

### Intuitive and Ergonomic

Smooth, low insertion force to mate connector

# APeX Galley Connector, Rectangular Plug

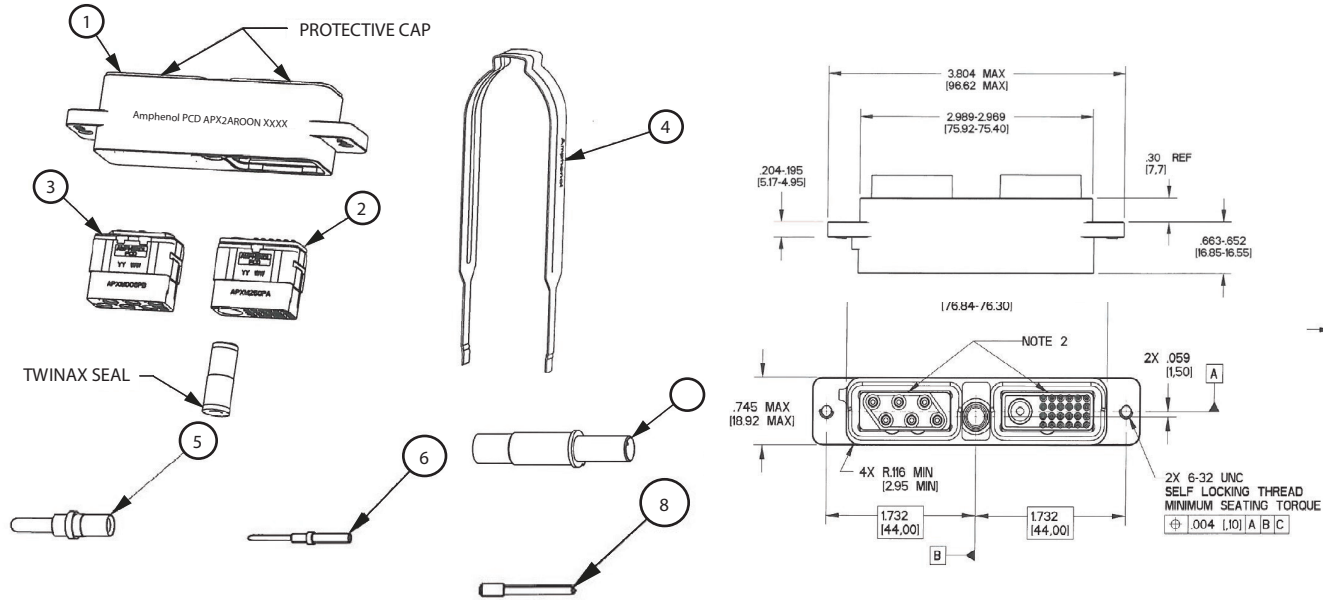


Item	Part	Material
1 Plug shell assembly	Strain relief	PEI thermoplastic 40% carbon fiber
	Retention nut	Stainless steel per AISI 316, passivated
	Male fastener body	Stainless steel per AISI 316, passivated
	Insert retention clip	Copper alloy per ASTM B194
	Float -mounted eyelet	Stainless steel per AISI 316, passivated
	Float -mounted spring	Stainless steel per AISI 302, passivated
	Shell	Aluminum allow 6061T651 per AMS-QQ -A-250/11, electroless nickel per Mil-C-26074 0.001 inch min
	Protective cap	EPDM elastomer per ASTM D3568
2 & 3 25 socket insert with twinax seal 6 socket insert	Housing	Polyetherimide thermoplastic per ASTM D5205
	Retention clips	PEEK thermoplastic per Mil-P-46183
	Grommet	Silicone elastomer per ASTM-D-2000
	Twinax seal housing	Polyetherimide thermoplastic per ASTM D5205
	Twinax seal grommet	Silicone elastomer per A -A-59588A class 3B
4 Insertion/Removal tool	Tool	Stainless steel per AISI 301
5 & 6 Socket contact size 12 Socket contact size 22	Body	Copper alloy per ASTM B196, gold plate per AMS2422, 50 micro-inches min. over nickel plate, 40 to 200 microinches per QQ -N-290
	Sleeve	Stainless steel per AISI 305 per ASTM A 580, passivated
7 Socket twinax contact size 8	Outer and Inner contacts	Copper alloy per ASTM B196, gold plated per Mil-G -45204, 50 microinch min. over nickel plate per QQ -N-290, 50 microinch min
	Shield ferrule	Brass per ASTM B453, gold plated per Mil -G -45204, 50 microinch min. over nickel plate per QQ -N-290, 50 microinch min
	Front insulator and spacer insulator	TFE thermoplastic per AMS 3651
8 Sealing plug	Sealing plug	PTFE thermoplastic per ASTM - D1710

## Plug Part Numbers and Description

Item	Amphenol Pcd P/N	Description	Amphenol Pcd KIT P/N						
			APX2A801K	APX2A801C	APX2A801G	APX2A801S1	APX2A801S2	APX2A801S3	APX2A801S2K
			QTY/Assy	QTY/Assy	QTY/Assy	QTY/Assy	QTY/Assy	QTY/Assy	QTY/Assy
1	APX2BL00N	Plug Shell Assembly with Protective Cap	1	1	1	1	1	1	1
2	APXM25QSA	25 Socket Insert Polarization A with Twinax Seal	1	1	1	1	0	1	0
3	APXM006SB	6 Socket Insert Polarization B	1	1	1	1	1	1	1
4	APXIN 0001	Blank Insert	0	0	0	0	1	0	1
5	CNS812100	APeX Socket Contact Size 12	0	6	6	6	6	6	0
6	CNS822100	APeX Socket Contact Size 22	0	15	15	0	0	24	0
7	CNS882100	APeX Socket Twinax Contact Size 8	0	1	0	0	0	0	0
8	CNA032401	Sealing Plug Size 22	0	9	9	0	0	0	0

# APeX Galley Connector, Rectangular Receptacle



Item	Part	Material
1 Receptacle shell assembly	Shell	Aluminum alloy 6061T651 per AMS -QQ -A-250/11 electroless nickel per MIL-C-26074 .001 inch min
	Retention nut	Stainless steel per AISI 316, passivated
	Guide sleeve	Stainless steel per AISI 316, passivated
	Insert retention clip	Copper alloy per ASTM B194
	Protective cap	EPDM elastomer per ASTM D3568
2 & 3 25 pin insert with twinax seal 6 pin insert	Housing	Polyetherimide thermoplastic per ASTM D5205
	Retention clips	Peek thermoplastic per MIL-P-46183
	Grommet	Silicone elastomer per ASTM-D-2000
	Twinax seal housing	Polyetherimide thermoplastic per ASTM D5205
	Twinax seal grommet	Silicon elastomer per A-A-59588A class 3B
4 Insertion/removal tool	Tool	Stainless steel per AISI 301
5 & 6 Pin contact size 12 Pin contact size 22	Contact	Copper alloy C97, gold plate per AMS 2422 50 microinches min over nickel per AMS 2403 40-200 microinches min
7 Pin twinax contact size 8	Outer & inner contacts	Copper alloy per ASTM B196, gold plated per Mil-G -45204 50 microinch min. over nickel plate per QQ -N-290 50 microinch min.
	Shield ferrule	Brass per ASTM B453, gold plated per MIL-G -45204 50 microinch min. over nickel plate per QQ -N-290 50 microinch min.
	Front insulator & spacer insulator	TFE thermoplastic per AMS 3651
8 Sealing plug	Sealing plug	PTFE thermoplastic per ASTM -D1710

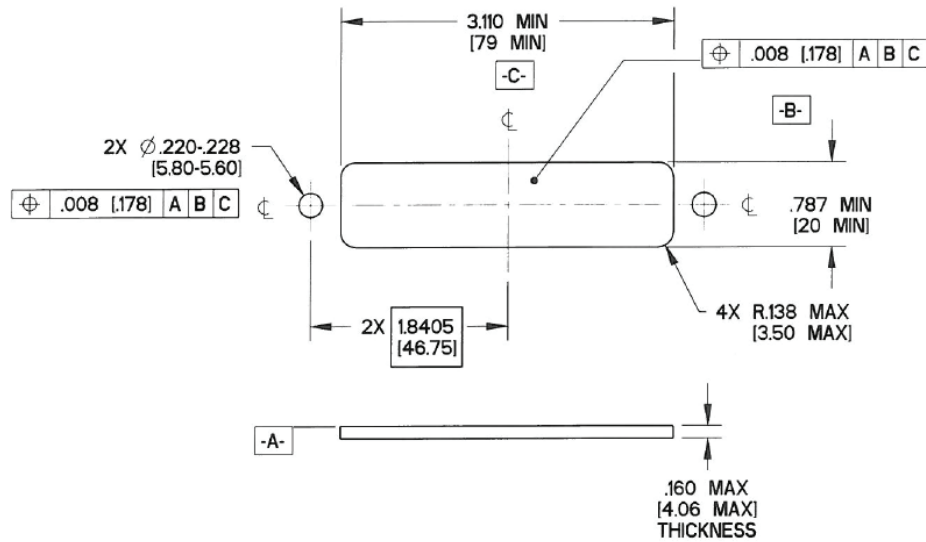
## Receptacle Part Numbers and Description

Item	Amphenol Pcd P/N	Description	Amphenol Pcd KIT P/N					
			APX2B801K	APX2B801C	APX2B801G	APX2B801S1	APX2B801S2	APX2B801S3
			QTY/Assy	QTY/Assy	QTY/Assy	QTY/Assy	QTY/Assy	QTY/Assy
1	APX2AR00N	Receptacle Shell Assembly with Protective Cap	1	1	1	1	1	1
2	APXM25QPA	25 Pin Insert Polarization A with Twinax Seal	1	1	1	1	0	1
3	APXM006PB	6 Pin Insert Polarization B	1	1	1	1	1	1
4	APXIN0001	Blank Insert	0	0	0	0	1	0
5	CNP812100	APeX Pin Contact Size 12	0	6	6	6	6	6
6	CNP822100	APeX Pin Contact Size 22	0	15	15	0	0	24
7	CNP882100	APeX Pin Twinax Contact Size 8	0	1	0	0	0	0
8	CNA032401	Sealing Plug Size 22	0	9	9	0	0	0

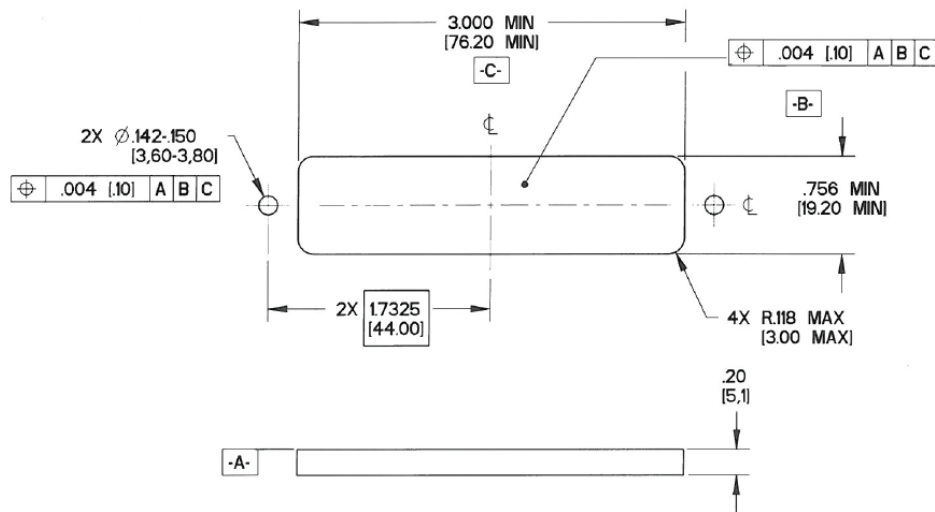
# APex Galley Connector, Rectangular

## Cable Accommodations

### Recommended Plug Panel Cutout Dimensions



### Recommended Receptacle Panel Cutout Dimensions



Contact Size	Wire Size (AWG)	Crimping Tool	Positioner	Installing Tool	Removal Tool
22	26	M22520/2-01	M22520/2-23	M81969/ 14-01	M81969/14-01
	24				
	22				
12	16	M22520/1-01	M22520/1-02	M81969/14-04	M81969/14-04
	14				
	12				
8	24	Center Contacts: M22520/2-01; Outer Body M22Metal Band Material520/5-01	Center Contacts: Daniels K709; Outer Body M22520/5-45	M81969/14-12	M81969/14-12