

GENERAL PURPOSE RECTANGULAR CONNECTOR:
A NEW MODULAR CONCEPT

EPX[®] series

EN 4644



RADIALL 
The next connexion

COMPANY Profile

Founded in 1952 in France, RADIALL started as a family owned company making coaxial plugs. Today, RADIALL is an international and global manufacturer of interconnect components including **RF coaxial connectors and cable assemblies, antennas, fiber optic components, microwave components, and multipin connectors** for the Automotive, Civil Aviation, Defense, Industrial, Medical, Space and Telecommunication markets.



QSE (Quality Safety Environment) POLICY

RADIALL maintains a quality management system conforming to international standards, including for environmental protection. Our customers' recognition of our products quality and sustainability of our company, demonstrates the efficiency of our quality system.



CERTIFICATIONS

Certified ISO 9001 since 1994, RADIALL has a pro-active policy in terms of conforming to international standards. Today, all RADIALL sites are certified to **ISO 9001:2000** and some

dedicated activities are AS9100 or TS 16949. Our process approach gives us the tool for continuous improvement in all our activities.



A major step in our environment policy was the **ISO 14001** certification of our Voreppe plant in 2001. RADIALL complies with European directives such as **RoHS** for hazardous substance restrictions and **EuP** for environmentally friendly designs of energy-using products.

Some RADIALL product lines are on **MIL, ESA/SCC** Qualified Product Lists.

RADIALL is therefore proud to be recognized by leading industrial customers for its quality of service and products.



A WORLDWIDE ENGINEERING & MANUFACTURING CAPABILITY

RADIALL has expertise centers and manufacturing locations on 3 continents. Through 9 industrial sites, RADIALL offers customers the proximity they need to obtain the best quality service and delivery performance. Our facilities feature state of the art equipment for the many technologies involved in the design, manufacturing and assembly of interconnect products. This international organization allows RADIALL to offer its outstanding quality products at competitive prices.

Technical information and sales contacts are available on: www.radiall.com

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A smart connector

Radiall is recognized in the Aerospace and Defense industries offering global interconnect solutions. Experience with ARINC connectors facilitated the development of a new concept of rectangular modular connectors that provide more flexibility with improved performance compared to standard circular Mil-spec connectors.

In addition, Radiall EPXB series connectors conform to EN 4644 European standard.

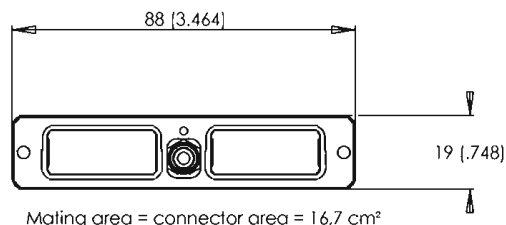
The EPX series offer a wide range of solutions based on two insert sizes with a large variety of shells and contacts. This product range provides an excellent trade-off between the number of available contacts and the space actually used. EPXA inserts are a good option for small wire bundles while EPXB inserts offer twice the capacity. Moreover, the concept is completely modular and expandable.

A versatile solution suitable for disconnect panels or equipment with three mounting styles:

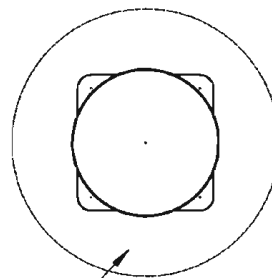
- rack and Panel
- cable to cable
- panel mounting

A high density solution compared to circular connectors:

- slim shell design with high contact density
- stackable shells that do not require additional space for locking and unlocking the connectors
- uses three times less space



EPXB2 fitted with 80 x size 22 contacts



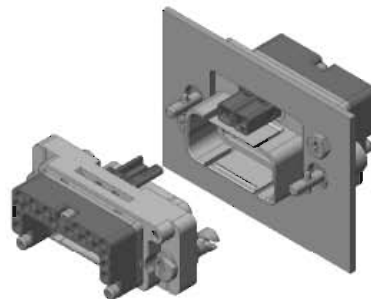
MIL-C-38999 21-35 fitted with 79 x size 22 contacts

A modular concept with a large variety of options:

- shell can accommodate a wide variety of inserts for signal, power, coax, data bus and fiber optic contacts
- optional ground blocks (to meet the FAAHIRF requirements)
- pin and socket inserts can be mounted on either plug or receptacle shells (pin contacts are always fitted in the pin insert)

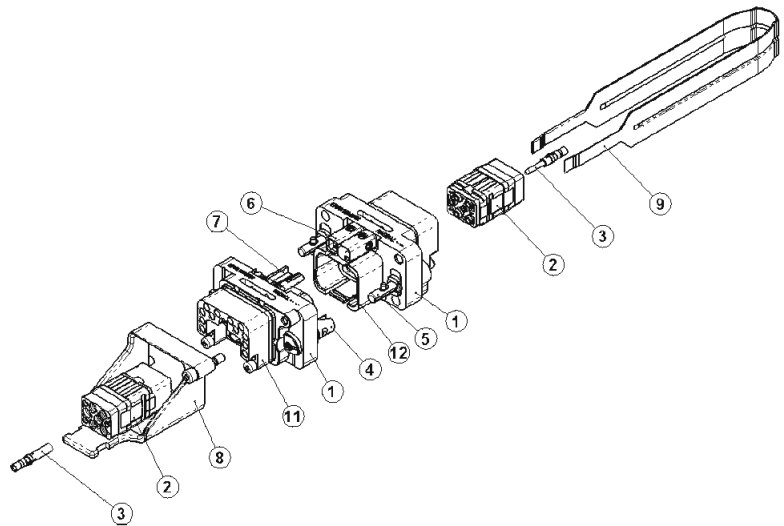
A cost savings and user friendly solution:

- inserts can be wired in the workshop and later installed in the shells
- a common panel cut out eases the connector installation
- inserts can be easily installed and removed from the shell
- inserts and shells are keyed to prevent mismatching
- standard Mil tools for contact crimping and contact insertion / extraction
- field replaceable sub assemblies
- vibration resistant self-locking threads



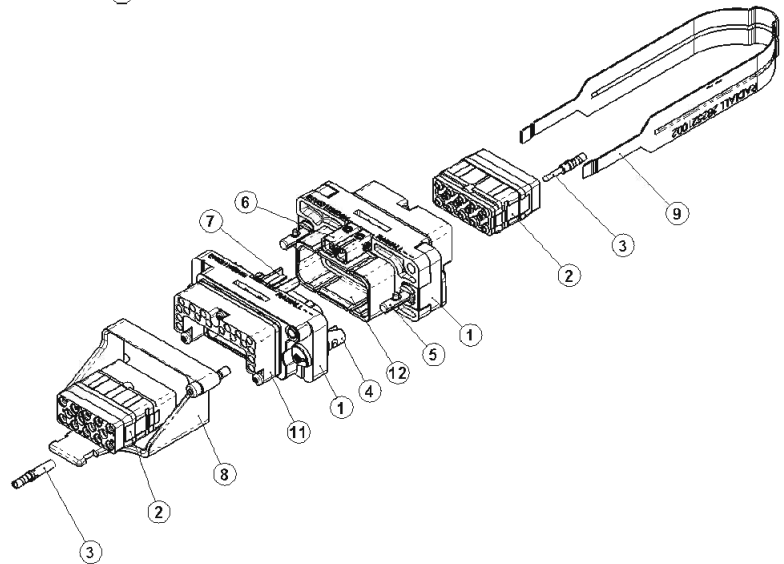
EPXA

- 2 quarter-turn fasteners
- 16 keying positions
- max. density: 20 x size 22 contacts



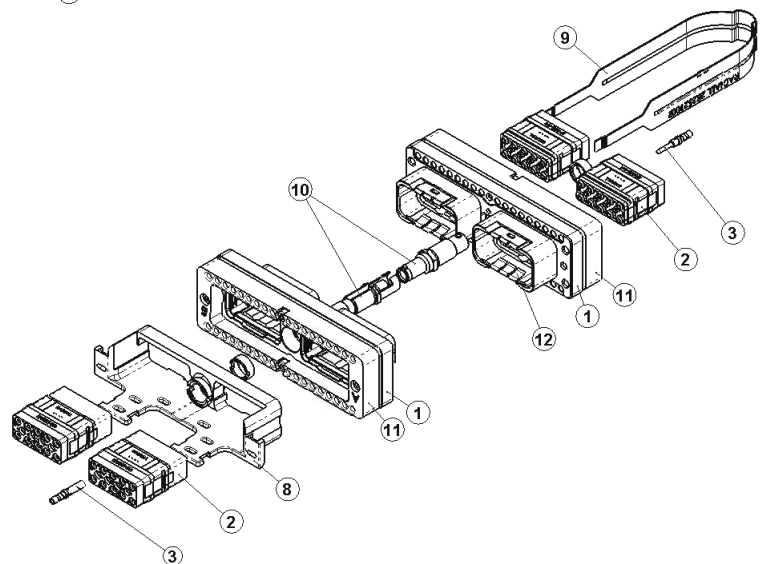
EPXB1

- 2 quarter-turn fasteners
- 16 keying positions
- max. density: 40 x size 22 contacts



EPXB2

- 1 central jackscrew/jacknut
- 12 keying positions
- max. density: 80 x size 22 contacts



- | | | | |
|------------------|---------------------------|---------------------------------|--------------------|
| ① Shell | ④ & ⑤ Locking | ⑨ Insert extraction tool | ⑪ Grounding block |
| ② Insert | ⑥ & ⑦ Polarization device | ⑩ Locking & polarization device | ⑫ Grounding device |
| ③ Contact device | ⑧ Strain relief backshell | | |

Contacts are per EN3155-76 and EN3155-77. Electrical characteristics conform to SAE AS 39029 (MIL-C-39029 type A)

GROUND BLOCK CONTACT

	Contact with wire size	Max Current Amps
Contact to contact	Contact + AWG20	7.5
Contact to mounting surface	Contact + AWG20	7.5

CONTACTS

Contact size	Wire size	Max Current Amps
22	AWG22	5
	AWG24	3
	AWG26	2
20	AWG20	7.5
	AWG22	5
	AWG24	3
16	AWG16	13
	AWG18	10
	AWG20	7.5
12	AWG12	23
	AWG14	17
	AWG16	13
8	AWG8	46
	AWG10	33
5	AWG8	80 – See Note 1
	AWG10	33

Note 1: Size 5 contacts are not part of SAE AS 39029 (MIL-C-39029 type A). They are qualified by Radiall to 80 Amps.

EMI SHIELDING EFFECTIVENESS

Frequency (MHz)	Leakage attenuation (dB)
100	65
200 & 300	63
400	62
500 & 600	60

DIELECTRIC WITHSTANDING VOLTAGE EIA 364-20 (MIL-STD-1344 / Method 3001.1) with leakage current < 1 mΩ

Level	Environmental inserts Voltage (VRMS)	Non-environmental Voltage (VRMS)
Sea level	1500	1500
50 000 feet	800	600
70 000 feet	800	300

INSULATION RESISTANCE EIA 364-21 (MIL-STD-1344 / Method 3003.1)

Temperature	Insulation resistance
Ambient temperature	> 5 000 MΩ
175 °C (+347 °F)	> 200 MΩ

OTHER CHARACTERISTICS

Shell to shell conductivity < 2.5 mΩ, operating voltage: 400 Vrms or 500 Vdc at sea level.
 Voltage stability (ground block): maximum variation 4 mV SAE AS 81714 (MIL-T-81714).
 Magnetic permeability < 2 μ and comparative tracking index = 250 V.

MECHANICAL CHARACTERISTICS

- **Mating/Unmating characteristics**

Mating / unmating: 100 cycles for EPXA, EPXB1 and EPXB2.

Mating / unmating: 500 cycles for EPXB2 if lubricant is applied on jackscrew.

For aluminum, mating torque for EPXB2 jackscrew: 1.2 Nm (11 in-lbs).

- **Vibration and shock**

Shell type	Material	Vibration	Shock
		for 8 hours in each of the 3 axis/ interruption < 1µs EIA 364-28 (MIL-STD-1344 /Method 2005.1)	3 shocks in each axis EIA 364-27 (MIL-STD-1344 /Method 2004.1) condition A
EPXA	Aluminum	acceleration 27,8 g (test condition 6 letter G)	Shock amplitude 50 g / duration 11 ms
EPXB1	Aluminum		
EPXB1	Composite		
EPXB2	Composite		
EPXB2	Aluminum	acceleration 41,7 g (test condition 6 letter J)	Shock amplitude 300 g / duration 3 ms

- **Retention characteristics**

Contact retention EIA 364-29 (MIL-STD-1344 / Method 2007.1) on terminated connectors.

Contact size	Retention force	Max displacement
Ground block	88N (20 lbs)	0.30 mm (.012 in.)
22	53.4N (12 lbs)	0.38 mm (.015 in.)
20	89N (20 lbs)	0.38 mm (.015 in.)
16	111.2N (25 lbs)	0.38 mm (.015 in.)
12	133.45N (30 lbs)	0.38 mm (.015 in.)
8	133.45N (30 lbs)	0.38 mm (.015 in.)
5	133.45N (30 lbs)	0.38 mm (.015 in.)

Insert retention: 400N (90 lbs) (EIA 364-35 = MIL-STD-1344 /Method 2010.1).

Max displacement: 0.30 mm (.012 in.).

ENVIRONMENTAL CHARACTERISTICS

- **Temperature**

Temperature range: -65 °C / +175 °C.

Temperature life: 1000 H at 155 °C.

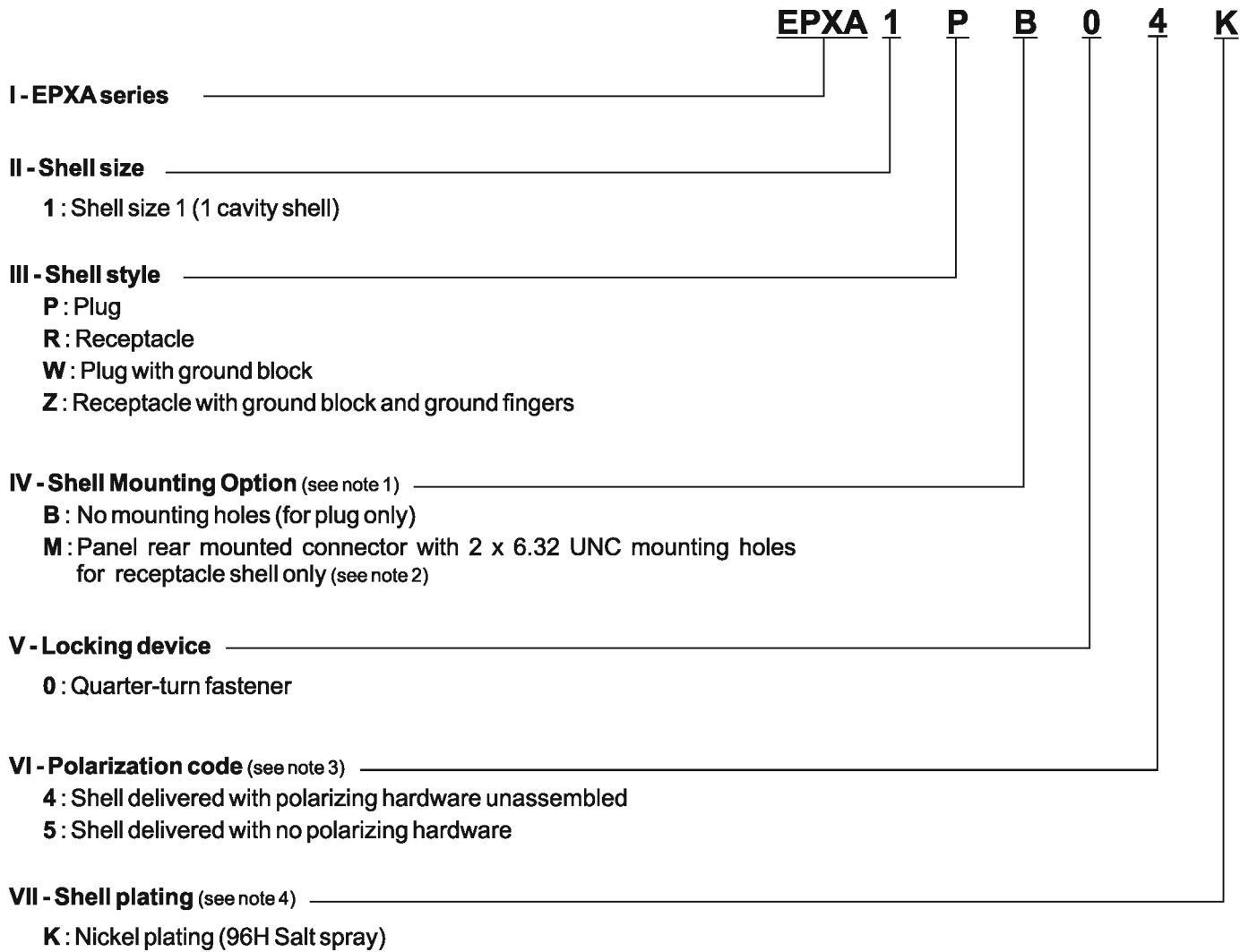
- **Other characteristics**

Salt spray: 96 hours (nickel plating) EIA 364-26 (MIL-STD-1344 / Method 1001.1) test condition A.

Humidity: 10 days with temperature variation from -10°C to +65°C EIA 364-31 Method 4, test condition B

(MIL-STD-1344 /Method 1002.2, type II test condition).

Altitude immersion: 3 cycles at 50 000 feet EIA 364-03 (MIL-STD-1344 /Method 1004.1).



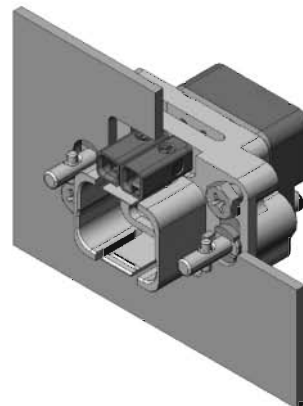
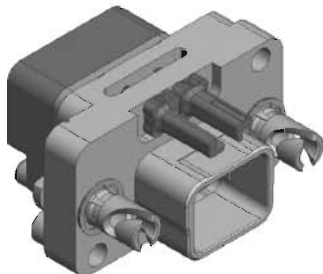
Note 1: Recommended locking torque: 1,6 Nm (14.161 in-lbs).

Note 2: Self-locking mounting holes are designed for rear panel mounting.

Note 3: Please see page 15 on how to use the coding device.

Note 4: **N** is not intermtable with K.

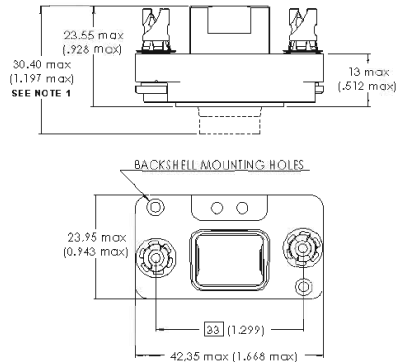
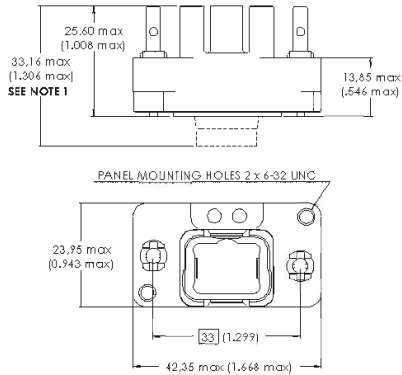
N version corresponds to: EPXA plug = BACC65AN1A and BACC65AN1B
 EPXA Receptacle = BACC65AP1A and BACC65AP1B



RECEPTACLE

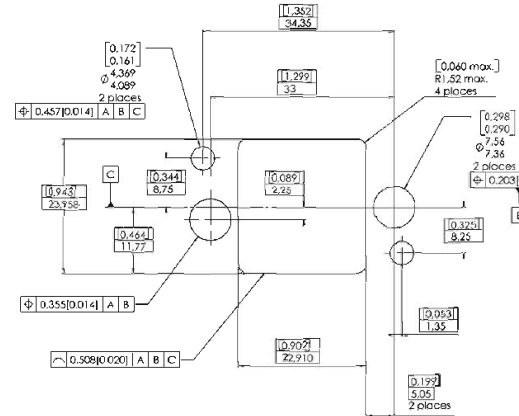
PLUG

Without grounding block

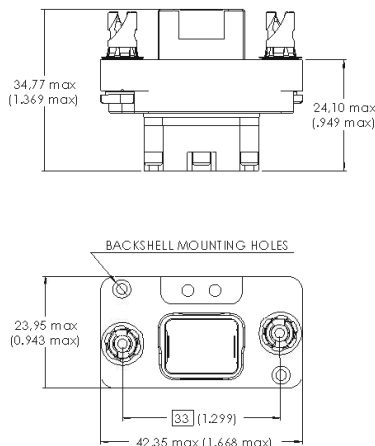
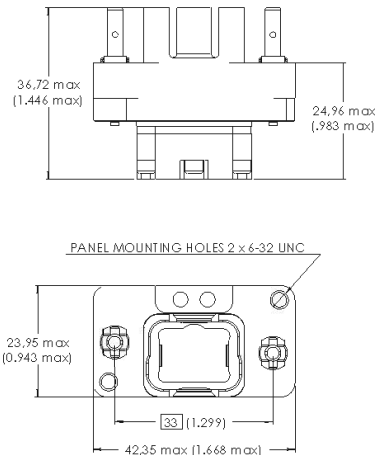


Single panel cut out

See Note 2

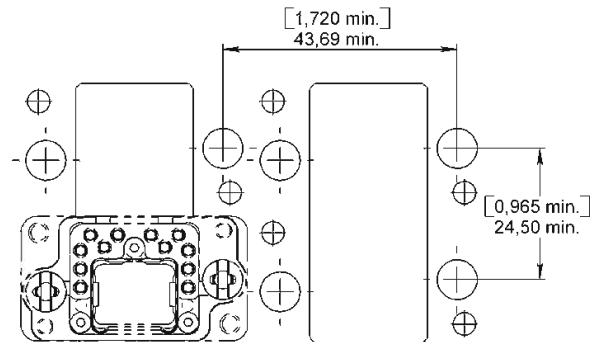


With grounding block



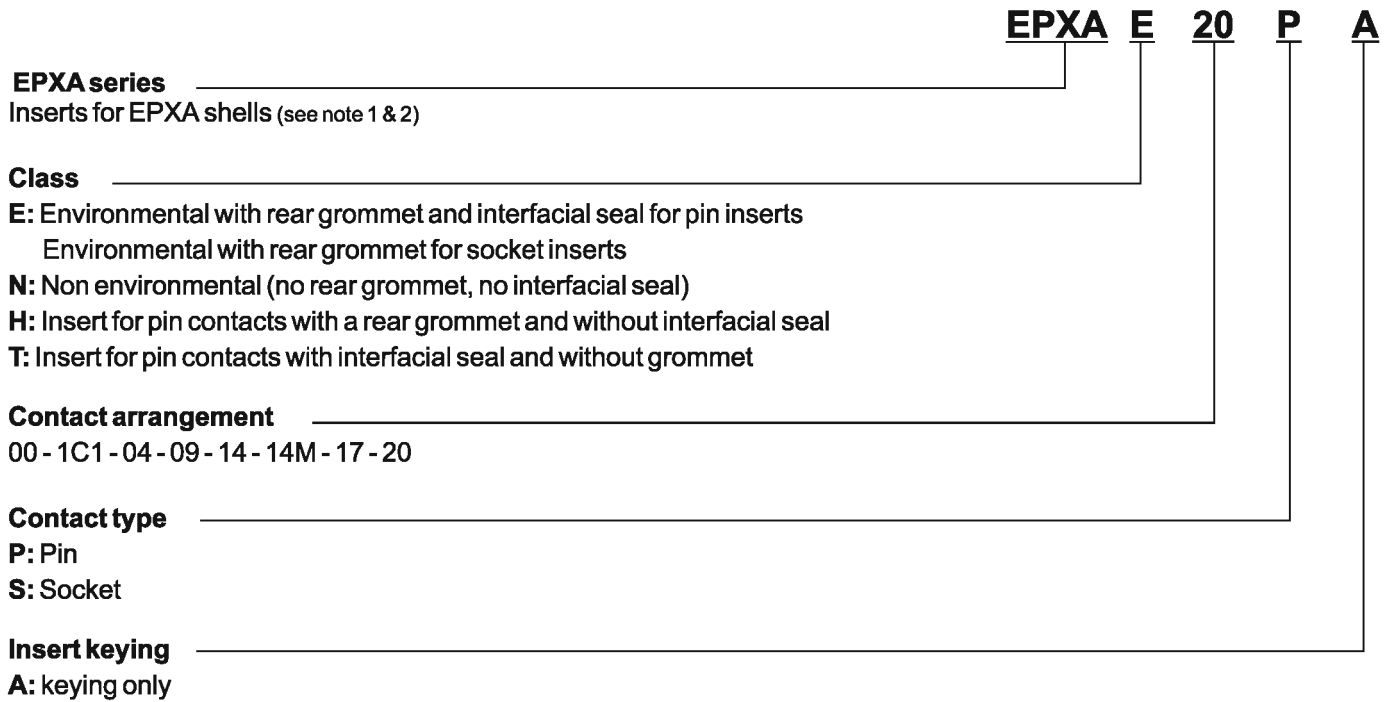
Multiple panel cut out

See Note 2



Note 1: Maximum dimension for inserts with grommets (part number: EPXAE and EPXAH).
For inserts without grommets max. dimensions will be for the receptacle 25,55 mm - 1.006 in. and for the plug 23,52 mm - .926 in. (part number: EPXAN).

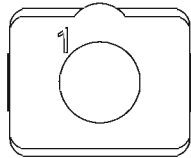
Note 2: Rear mounting side view with key post oriented to the upper side (receptacle only).



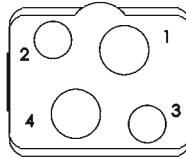
Note 1: Inserts are designed for rear release contacts.
 Note 2: Pin and socket inserts can be installed in either plug or receptacle shell.



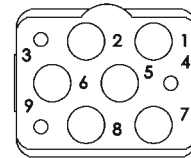
00
 Dummy insert



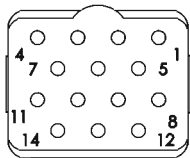
1C1
 1 x size 5 contacts



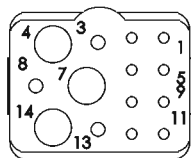
04
 2 x size 15 or 16 contacts
 2 x size 12 contacts



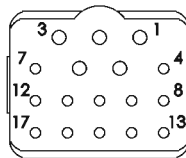
09
 3 x size 20 contacts
 6 x size 15 or 16 contacts



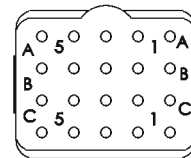
14
 14 x size 20 contacts



14M
 8 x size 22 contacts
 3 x size 20 contacts
 3 x size 15 or 16 contacts



17
 12 x size 22 contacts
 5 x size 20 contacts

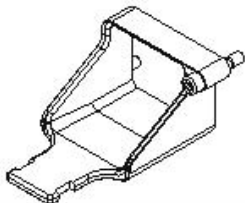
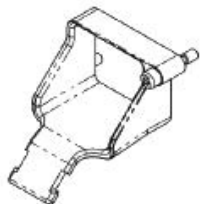
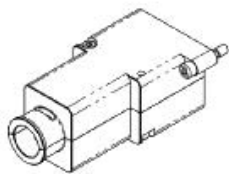


20
 20 x size 22 contacts

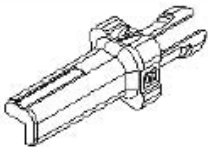
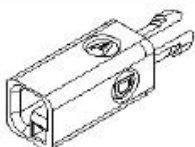

Remarks: Only "A" keyed inserts are available.
 For pin inserts: mating faces are shown above.

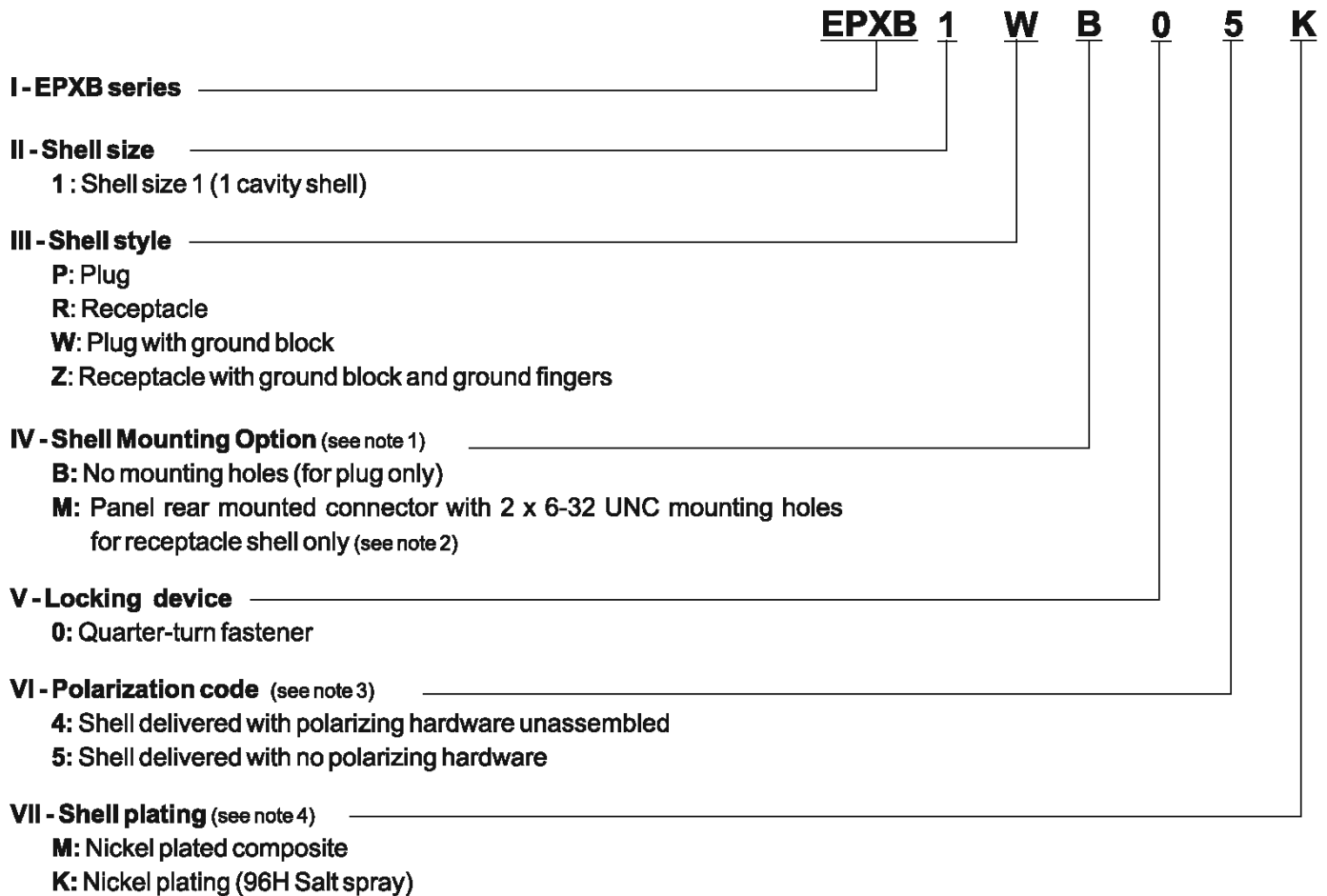
Strain Reliefs and EMI Backshells

Locking torque for 4-40 UNC backshell fixture screw: 0.8 Nm (7.08 in-lbs)

	Part number	Description
	617 921 030	Straight strain relief (composite)
	617 921 032	45° strain relief (composite)
	617 927 006	Straight EMI backshell (aluminum nickel plated)

Spare parts and dust caps

	Part number	Description
	617 980 024	Polarization key Pin (composite)
	617 980 025	Polarization key Socket (composite)
	617 954 006	Dust cap for plug shell
	617 954 007	Dust cap for receptacle shell



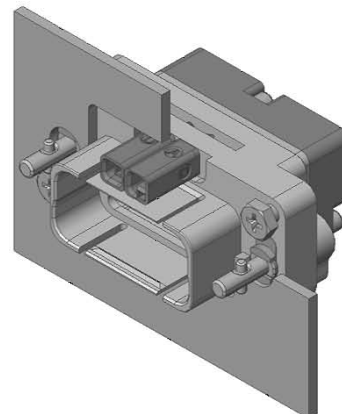
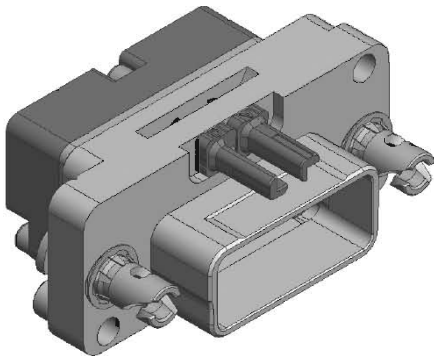
Note 1: Recommended locking torque: 1,6 Nm (14.161 in-lbs) for metallic shell and 1Nm (8.85 in-lbs) min., 1,1 Nm (9.73 in-lbs) max. for composite shell.

Note 2: Self-locking mounting holes are designed for rear panel mounting.

Note 3: Please see page 15 on how to use the coding device.

Note 4: N is not intermatable with K and M.

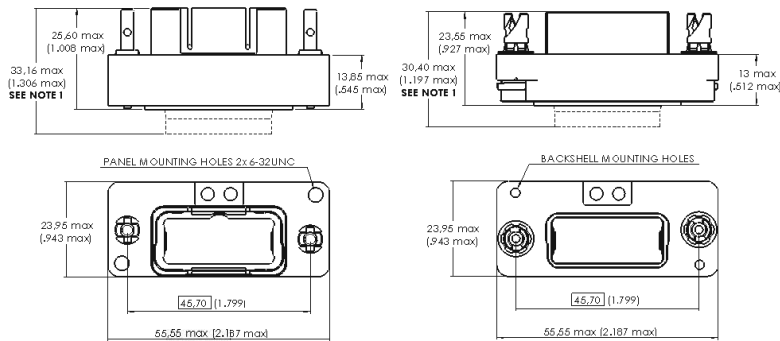
N version corresponds to: EPXB1 plug = BACC65AN2A and BACC65AN2B.
EPXB1 Receptacle = BACC65AP2A and BACC65AP2B.



RECEPTACLE

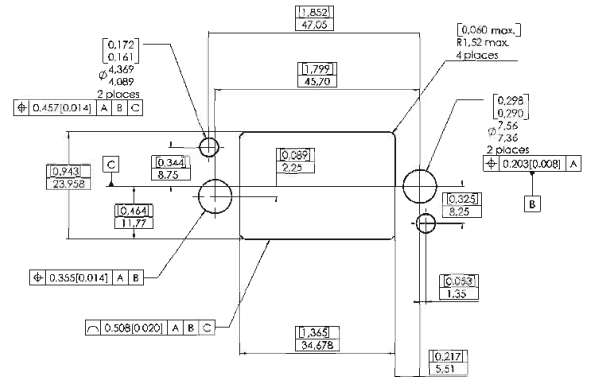
PLUG

Without grounding block

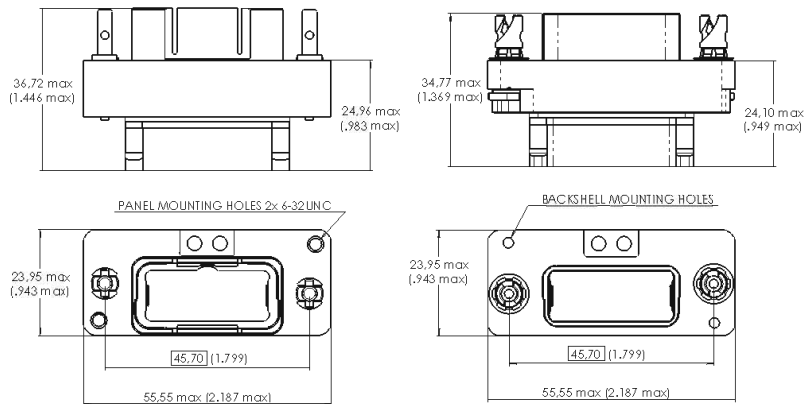


Single panel cut out

See Note 2

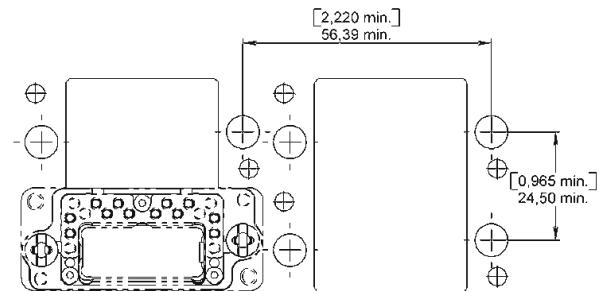


With grounding block



Multiple panel cut out

See Note 2



Note 1: Maximum dimension for inserts with grommets (part number: EPXBE and EPXBH).

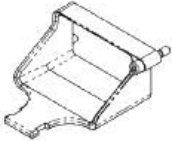
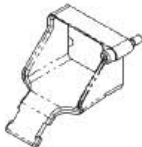
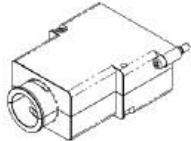
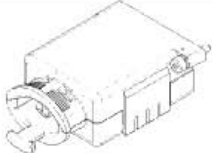
For inserts without grommets max. dimensions will be for the receptacle 25,55 mm - 1.006 in. and for the plug 23,52 mm - .926 in. (part number: EPXBN).

For inserts with optical contacts F12 and 12F6 the max. dimensions will be for the receptacle 38.70 mm - 1.524 in. and for the plug 36.00 mm - 1.418 in.

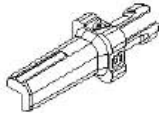
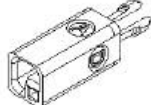

Note 2: Rear mounting side view with key post oriented to the upper side (receptacle only).

Strain Reliefs and EMI Backshells

Locking torque for 4-40 UNC backshell fixture screw: 0,8 Nm (7.08 in-lbs)

	Part number	Description
	617 921 029	Straight strain relief (composite)
	617 921 031	45° strain relief (composite)
	617 924 008	Straight EMI backshell (aluminum nickel plated)
	617 928 002	Straight EMI backshell (composite nickel plated)

Spare parts and dust caps

	Part number	Description
	617 980 024	Polarization key Pin (composite)
	617 980 025	Polarization key Socket (composite)
	617 954 008	Dust cap for plug shell
	617 954 009	Dust cap for receptacle shell
	617 954 028	ESD dust cap receptacle shell
	617 954 034	ESD dust cap plug shell

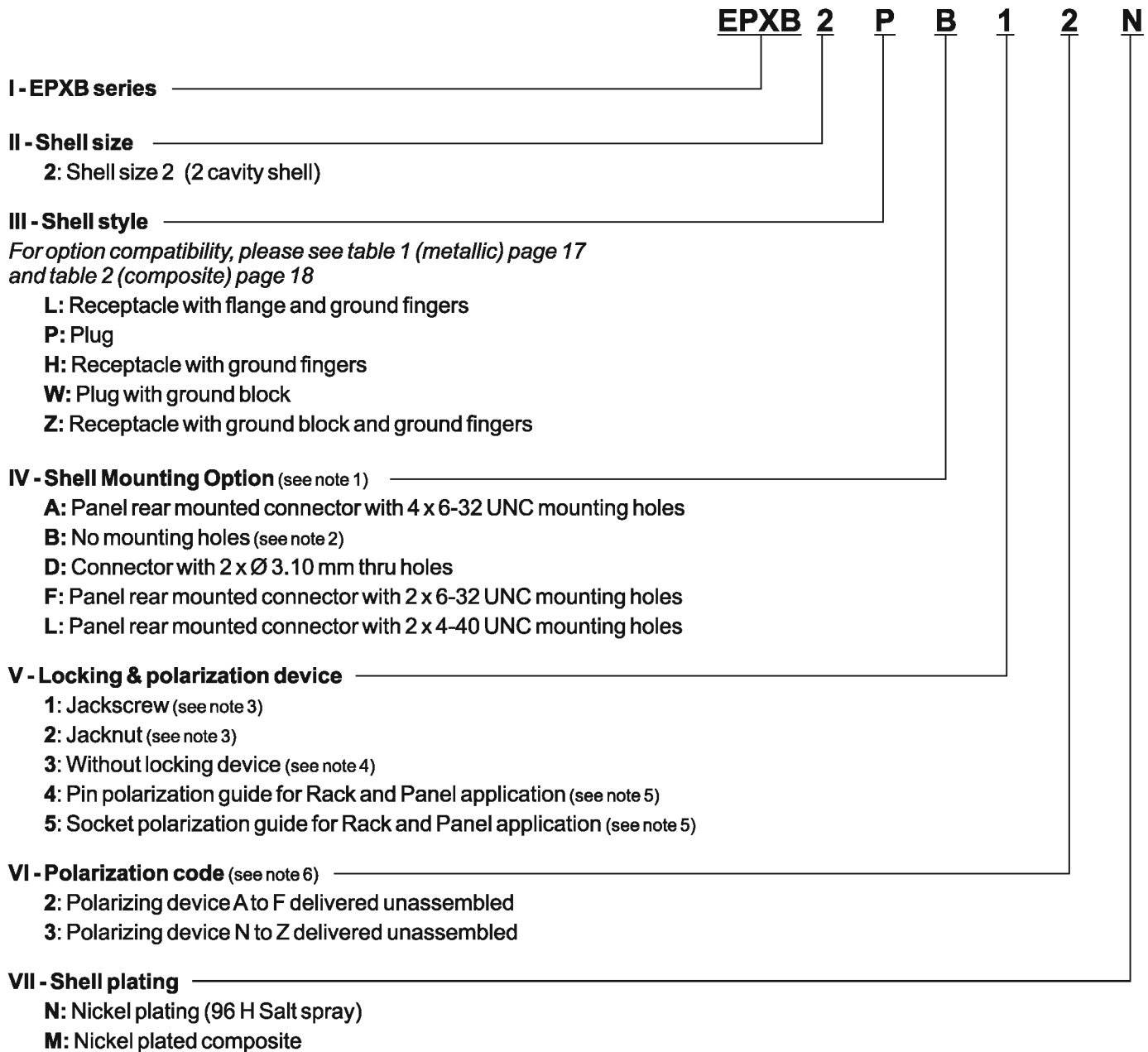
Easy reading of polarization code

Polarization code is added at the end of the part number and can be seen on the polarization keys as shown below. **Caution:** read the polarization code according to the part number marking on the connector and not upside down.

	PLUG	RECEPTACLE
EPXA		
EPXB1		
Coding device	<p>View shows A & B View shows C & D</p>	<p>View shows A & D View shows C & B</p>

There are 16 possible codings:

Key position ①	A	A	A	A	B	B	B	B	C	C	C	C	D	D	D	D
Key position ②	A	B	C	D	A	B	C	D	A	B	C	D	A	B	C	D



Note 1: Metallic shell for A and F shell options: locking torque 1,6 Nm (14.161 in-lbs) and for L shell option, 1,2 Nm (10.62 in-lbs)
Composite shell for F shell option: locking torque 1 Nm (8.85 in-lbs) min., 1,1 Nm (9.73 in-lbs) max.
Composite shell for L shell option: locking torque 0,8 Nm (7.08 in-lbs) min., 0,9 Nm (7.96 in-lbs) max.

Note 2: Option 4 & 5 in paragraph V are not available for modification code B in paragraph IV.

Note 3: Jackscrew / Jacknut can be mounted on either plug or receptacle shell. However, the standard options are:
- Jackscrew for plug shells.
- Jacknut for receptacle shells.

Note 4: Cancels the polarization code paragraph VI, i.e. the shell is delivered with no polarizing device.

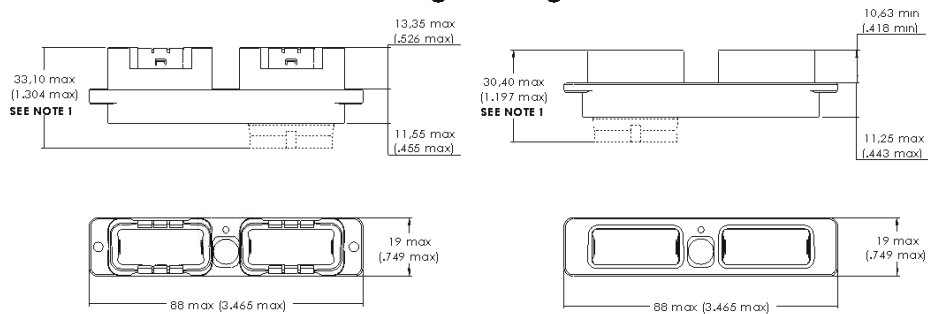
Note 5: Pin/Socket polarization guides can be mounted on either plug or receptacle shells. However, the standard options are:
- Pin polarization guide for plug shells.
- Socket polarization guide for receptacle shells.

Note 6: Please see page 20 & page 21 on how to use the coding device. If no polarizing device is required, omit this step and go to paragraph VII.

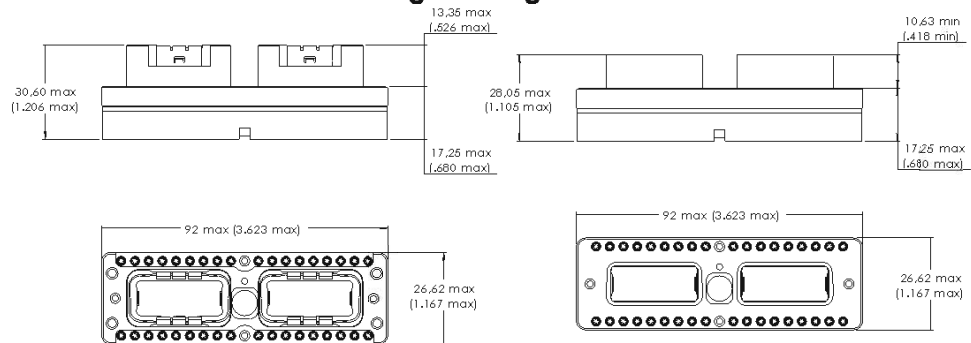
RECEPTACLE

PLUG

Without grounding block

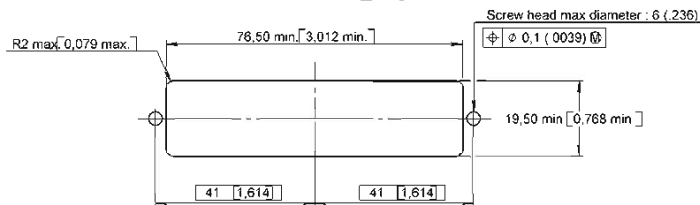


With grounding block

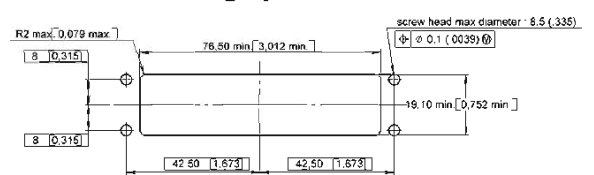


Panel cut out

Shell mounting options D and L

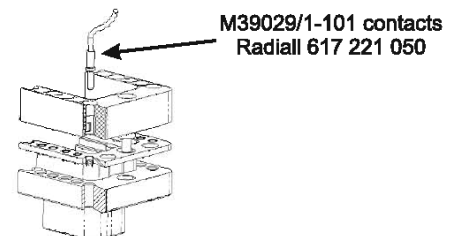


Shell mounting option A



Grounding block

Radiall provides a unique patented feature by integrating a ground block directly on the shell. This option permits very short ground terminations.



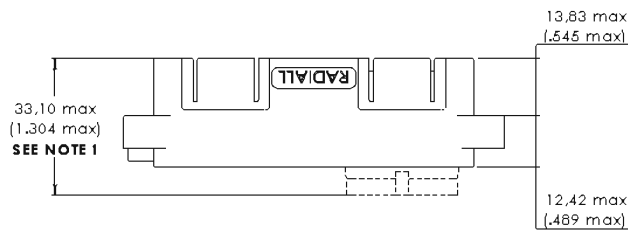
Note 1: Maximum dimension for inserts with grommets (part number: EPXBE & EPXBH). Insert (EPXBN) is flush to the shell. For inserts with optical contacts F12 and 12F6 the max. dimensions will be for the receptacle 38.70 mm - 1.524 in. and for the plug 36.00 mm - 1.418 in

Table 1: Compatibility shell mounting option versus shell style

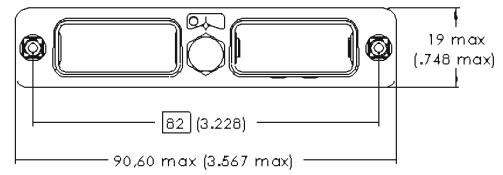
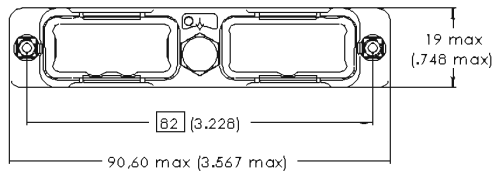
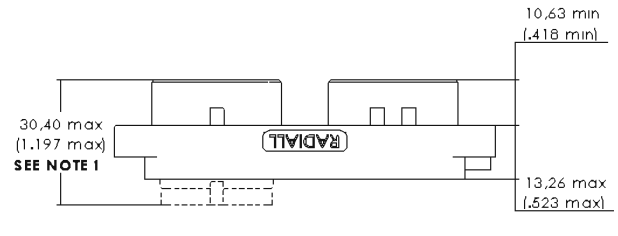
		Shell mounting option Metallic				
		A (4 x 6-32 UNC)	B (no holes)	D (2 x (φ 3.10mm))	F (2 x 6-32 UNC)	L (2 x 4-40 UNC)
Shell Style	H		X	X	X	X
	L			X	X	X
	P		X	X		X
	W	X	X			
	Z	X	X			

RECEPTACLE

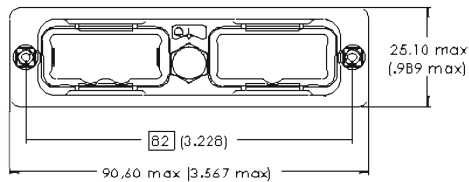
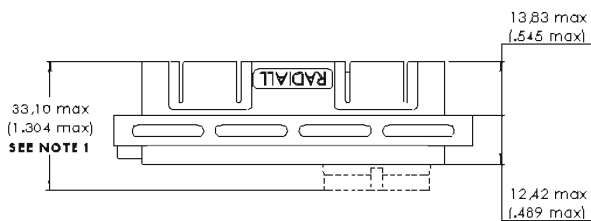
Without mounting flange



PLUG

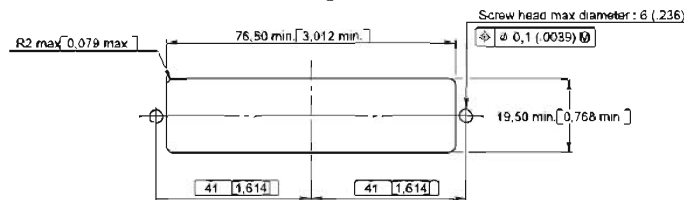


With mounting flange



Panel cut out

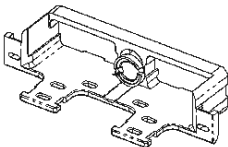
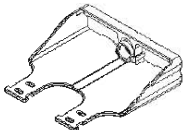
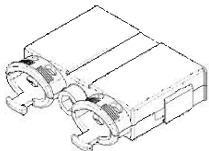
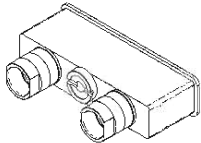
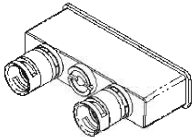
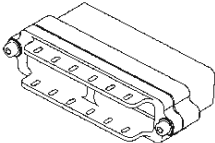

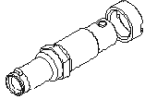
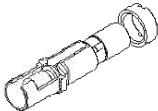
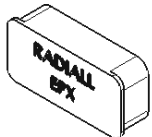
Shell mounting options D, F and L

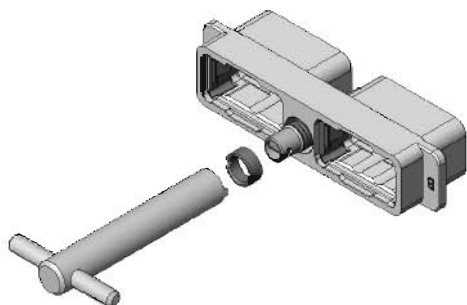


Note 1: Maximum dimension for inserts with grommets (part number: EPXBE & EPXBH). Insert (EPXBN) is flush to the shell.
For inserts with optical contacts F12 and 12F6 the max. dimensions will be for the receptacle 38.70 mm - 1.524 in. and for the plug 36.00 mm - 1.418 in.

Table 2: Compatibility modification code versus shell style

		Shell mounting option Composite				
		A (4 x 6-32 UNC)	B (no holes)	D (2 x (ϕ 3.10mm))	F (2 x 6-32 UNC)	L (2 x 4-40 UNC)
Shell Style	H	N/A	X	X	X	X
	L		X	X	X	X
	P		X	X	X	X

	Part number	Description	Assembly torque
	617 922 007	Straight strain relief (composite)	0,8 Nm (7.08 in-lbs)
	617 922 014	Straight strain relief for fiber optic cable (aluminum anodized)	
	617 928 100	Straight EMI backshell (composite nickel plated)	
	617 925 052	EMI backshell for braid shield termination (aluminum nickel plated)	1,2 Nm (10.62 in-lbs)
	617 925 054	EMI backshell for screened twisted pair cables (aluminum nickel plated)	
	617 925 056	EMI backshell for large sized wire harnesses (aluminum nickel plated) This backshell is not compatible with a jackscrew	
	617 954 101	Grounding spring (EPXB2 aluminum only)	
	617 980 009	Jacknut – A/B/C/D/E/F	N/A
	617 980 011	Jacknut – N/R/W/X/Y/Z	
	617 980 022	Universal Jacknut	
	617 980 012	Jackscrew – A/B/C/D/E/F	
	617 980 013	Jackscrew – N/R/W/X/Y/Z	
	617 980 023	Universal Jackscrew	
	617 954 002	Dust cap for plug shell	
	617 954 003	Dust cap for receptacle shell	
	617 954 004	ESD dust cap plug shell	
	617 954 005	ESD dust cap receptacle shell	



Jackscrew and jacknut can be mounted onto either plug shell or receptacle shell.

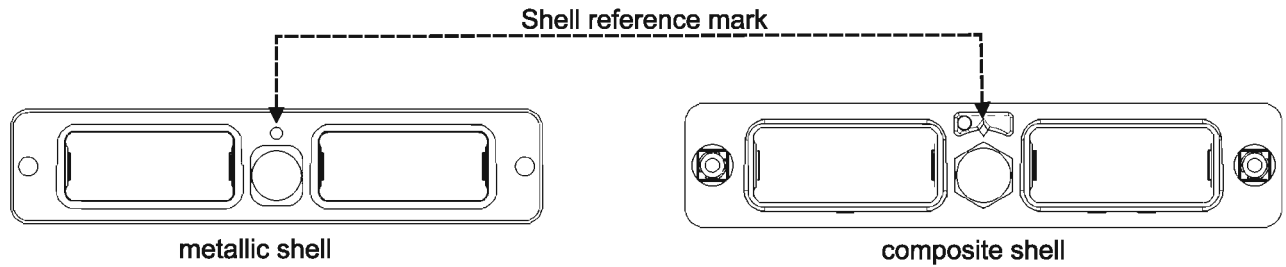
Polarizing device must be locked at 1,2 Nm (10.62 in-lbs) for metallic shells.

For composite shells, please contact us.

It is recommended to use the spigot wrench to affix the nut of the jackscrew or the jacknut (P/N 282 665)
The nut can also be affixed with your automatic screwdriver and a provided tool bit (P/N 282 664)

Designation	Type	Coding device key	Part number	
Jackscrew	From A to F		617 980 012	
	From N to Z <i>30° offset compared to the key of jackscrew PN 617980012</i>		617 980 013	
	Universal		617 980 023	
Jacknut	From A to F		617 980 009	
	From N to Z <i>30° offset compared to the key of jacknut PN 617980009</i>		617 980 011	
	Universal		617 980 022	

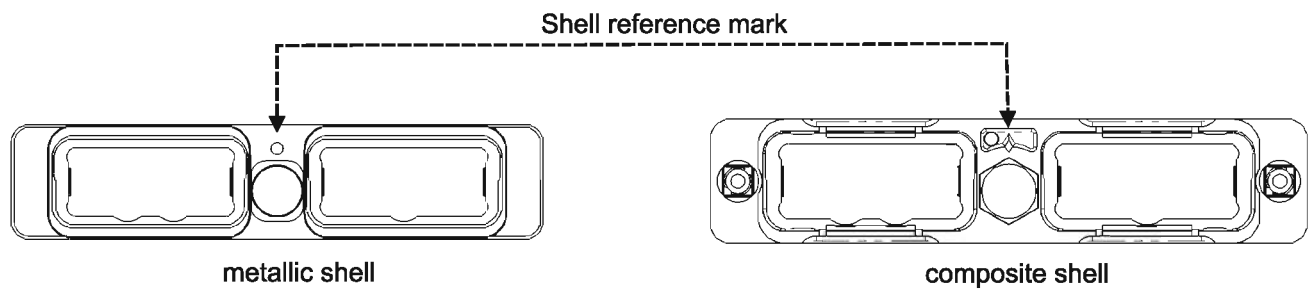
PLUG SHELL



Shell reference mark Coding device key

A	B	C	D	E	F
N	R	W	X	Y	Z

RECEPTACLE SHELL



Shell reference mark Coding device key

A	B	C	D	E	F
N	R	W	X	Y	Z

EPXB2 GALLEY EQUIPMENT CONNECTOR PER ARINC 810

Radiall is very proud to announce that its new EPXB2 galley equipment connector was selected as the ARINC 810 industry standard.

The ARINC 810 standardization activity was initiated for:

- Global electrical power management control of the aircraft by means of a CAN data bus connection to the galley equipment.
- Creation of a robust and reliable standardized electrical interface between the galley cabinet and the galley equipment.

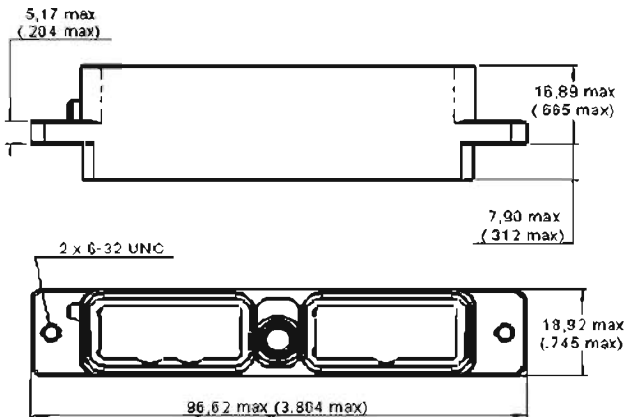


Galley equipment, such as ovens and coffee makers, are some of the aircraft's largest consumers of power. Usually, the amount of electrical power generation installed on an aircraft largely depends on the amount of electrical power required by the galley equipment. The new standardized electrical CAN bus connection allows global power control and management of the galley equipment on the aircraft. This management system will be able to sequence galley power consumption over the entire aircraft. The use of the ARINC 810 standard, with the EPXB2 galley connector, will lead to overall weight savings due to the reduction of electrical power generators required on an aircraft.

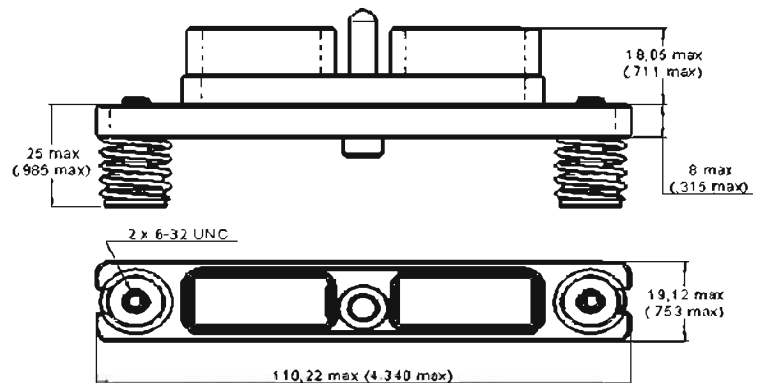
The new EPXB2 galley connector was specially designed for the severe conditions typical of galley equipment. A floating mechanism was developed to avoid any risk of the connector jamming and to guarantee a fully sealed connection.

The EPXB2 galley connector is used on ovens, beverage makers, refrigerators, microwave ovens and other equipment that fit within the new standardized galley layouts. The connector is modular and provides extra contact density to add new contacts such as the size 8 Twinax CAN data bus contact. Backshell accessories are also available.

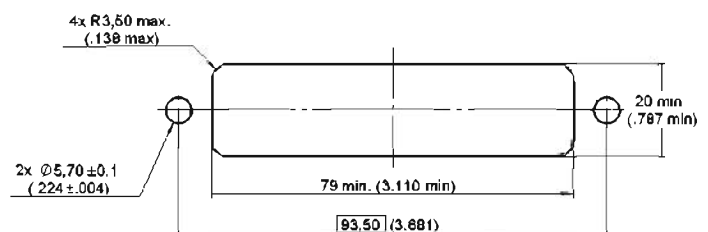
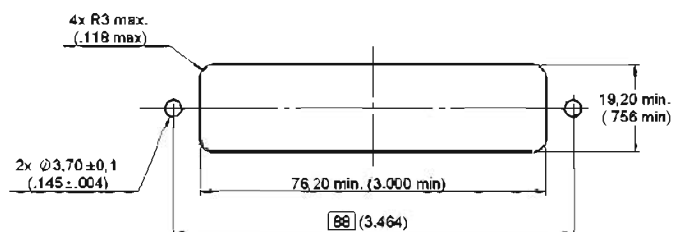
RECEPTACLE



PLUG



Panel cut out



RECEPTACLE AND PLUG ASSEMBLED KIT

Part number	Description
617 610 188	Receptacle assembled kit (*)
617 610 189	Plug assembled kit (*)

(*) Part numbers for assembled kits include: plug or receptacle shell, inserts, contacts, sealing plugs and dust caps.

Each element to compose a kit is indicated in the table below and can be ordered separately

RECEPTACLE KIT CONTENTS

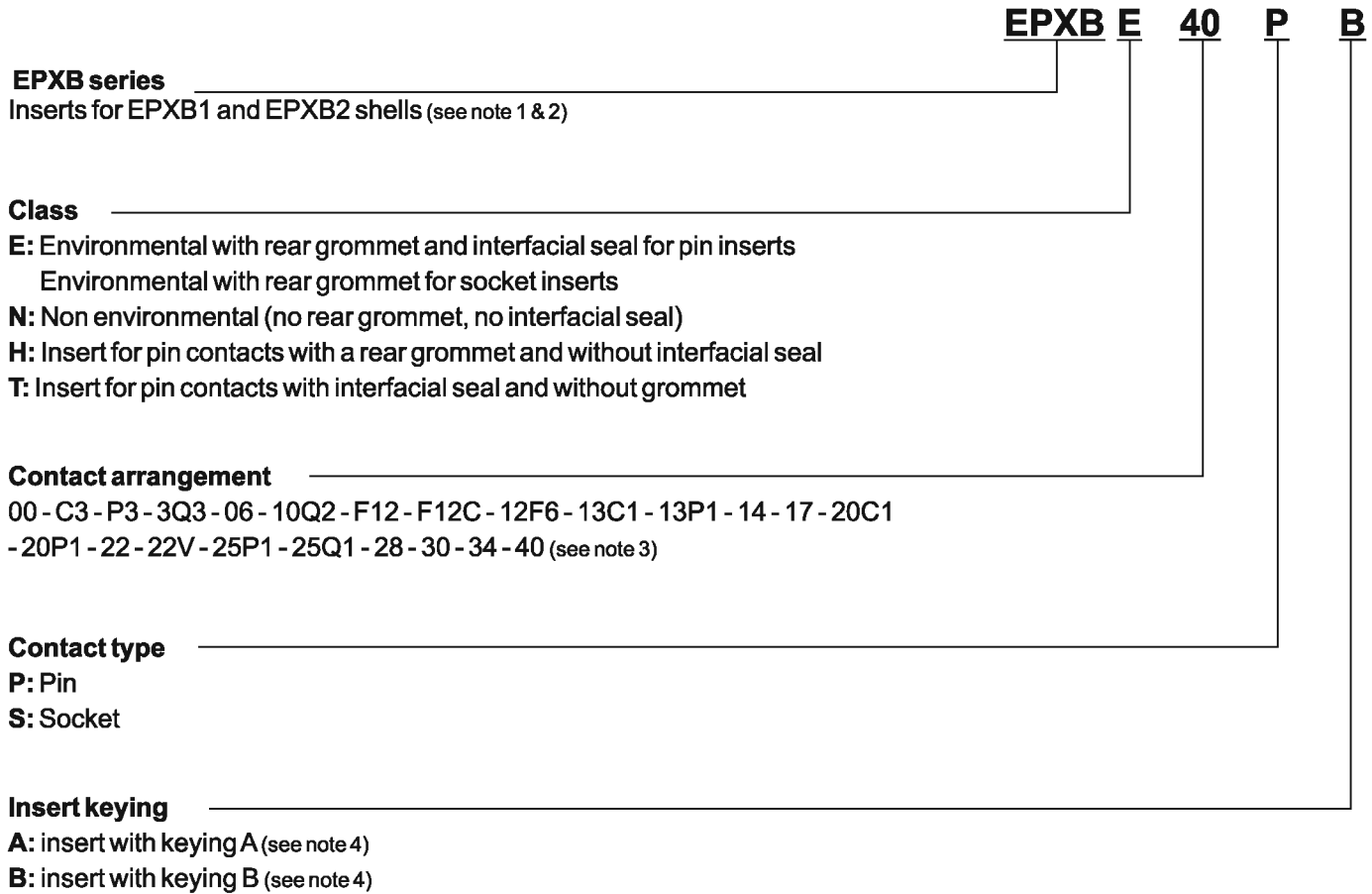
Part number	Description	Quantity per kit
617 610 212	Receptacle shell	1
EPXBE25Q1PA	Insert for cavity A	1
EPXBE06PB	Insert for cavity B	1
617 200	Pin crimp contacts / Size 22	15
617 250	Pin crimp contacts / Size 12	6
616 910	Sealing cap	9

PLUG KIT CONTENTS

Part number	Description	Quantity per kit
617 610 213	Plug shell	1
EPXBE25Q1SA	Insert for cavity A	1
EPXBE06SB	Insert for cavity B	1
617 300	Socket crimp contacts / Size 22	15
617 350	Socket crimp contacts / Size 12	6
616 910	Sealing cap	9
617 922 007	Strain relief	1

OPTIONAL CAN DATA BUS CONTACTS

Part number	Description
617 165 011	Size 8 Twinax pin contact
617 065 011	Size 8 Twinax socket contact



Note 1: Inserts are designed for rear release contacts.

Note 2: Pin and socket inserts can be installed in either plug or receptacle shell.

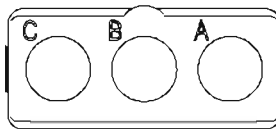
Note 3: F12, F12C and 12F6 inserts available only in E and T class 00 insert is only available in E & N class.

Note 4: For EPXB2 shells, use one insert keyed A and one insert keyed B.
 For EPXB1 shells, use one insert keyed A only.

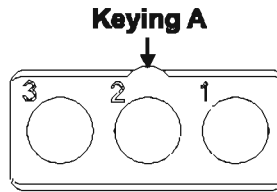
EPXB RANGE OF INSERTS



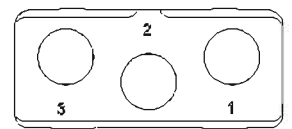
00
Dummy Insert



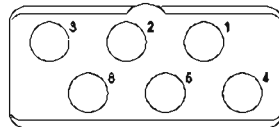
C3
3 x size 5 contacts



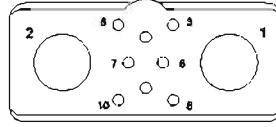
P3
3 x size 5 Power contacts



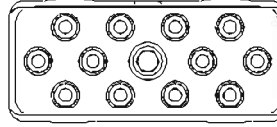
3Q3
3 x size 8 Quadrax contacts



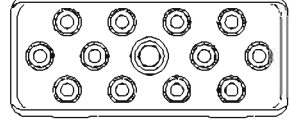
06
6 x size 12 contacts



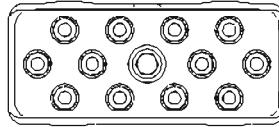
10Q2
8 x size 20 contacts
2 x size 8 Quadrax contacts



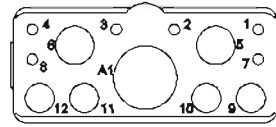
12F6
6 x size 16 Optical LuxCis termini
6 x size 16 special electrical contacts



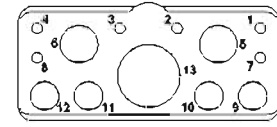
F12 (aluminum)
12 x size 16
Optical LuxCis termini



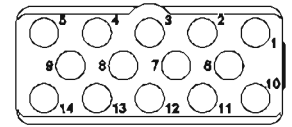
F12C
(high grade thermoplastic)
12 x size 16
Optical LuxCis termini



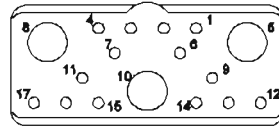
13C1
6 x size 20 contacts
4 x size 15 or 16 contacts
2 x size 12 contacts
1 x size 5 contacts



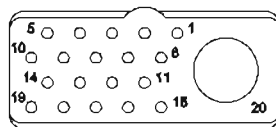
13P1
6 x size 20 contacts
4 x size 15 or 16 contacts
2 x size 12 contacts
1 x size 5 Power contacts



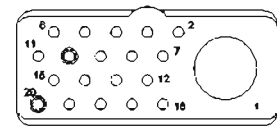
14
14 x size 15 or 16 contacts



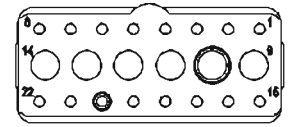
17
14 x size 20 contacts
3 x size 12 contacts



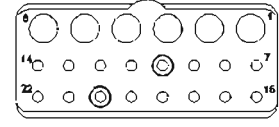
20C1
19 x size 20 contacts
1 x size 5 contacts



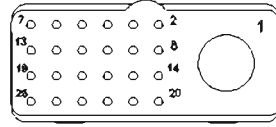
20P1
19 x size 20 contacts
1 x size 5 Power contacts



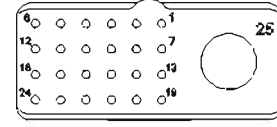
22
16 x size 20 contacts
6 x size 15 or 16 contacts



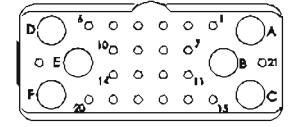
22V
16 x size 20 contacts
6 x size 16 contacts



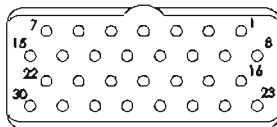
25P1
24 x size 22 contacts
1 x size 8 Power contacts



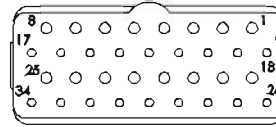
25Q1
24 x size 22 contacts
1 x size 8 Quadrax contacts



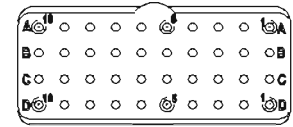
28
22 x size 22 contacts
6 x size 15 or 16 contacts



30
30 x size 20 contacts

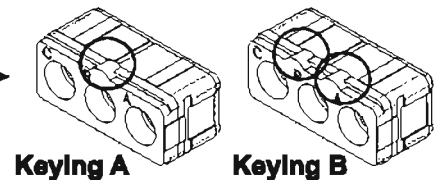


34
18 x size 22 contacts
16 x size 20 contacts



40
40 x size 22 contacts

Remarks:
in an EPXB2 shell, one insert must be "A" keyed and the other one must be "B" keyed
In an EPXB1 shell only inserts with keying "A" can be used
For pin inserts: mating faces are shown above



Serie	Inserts	Total Contacts	Contact Size & Type										
			22	20	15 or 16	16		12	8	5			
			Signal	Signal	Medium Power or Coax	LuxCis Fiber optic	Power in Fiber Optic cavity	Medium Power or Coax	Power	Quadrax or Twinax	Coax or Triax	Power	
EPXA	1C1	1										1	
	04	4			2			2					
	09	9		3	6								
	14	14		14									
	14M	14	8	3	3								
	17	17	12	5									
	20	20	20										
EPXB	C3	3										3	
	P3	3											3
	3Q3	3								3			
	06	6						6					
	10Q2	10		8						2			
	12F6	12				6	6						
	F12	12				12							
	F12C	12				12							
	13C1	13		6	4			2				1	
	13P1	13		6	4			2					1
	14	14			14								
	17	17		14				3					
	20C1	20		19								1	
	20P1	20		19									1
	22	22		16	6								
	22V	22		16	6								
	25P1	25	24						1				
	25Q1	25	24							1			
	28	28	22		6								
	30	30		30									
34	34	18	16										
40	40	40											

Please note Radiall recommends plastic extraction tool for environmental cavities 22-20-16 and 12 (metallic extraction tool leads to damage risk of triple silicon web). For cavities 5 and 8, the extraction tool is metallic. However, you can order a plastic extraction tool for the cavity 8 with the PN M81969/14-06.

CRIMP CONTACTS

Contact size	Wire size	Type	Part number	Crimping tool	Positioner	Ins/ext tool
22	22-24-26	Pin	617 200	M22520/2-01 282 281	M22520/2-23 282 970	M81969/14-01 282 522
		Socket	617 300			
22 reduced crimp barrel	28-30	Pin	617 201 - See Note 1	M22520/2-01 282 281	M22520/2-23 282 970	M81969/14-01 282 522
		Socket	617 301 - See Note 1			
20	20-22-24	Pin	617 221	M22520/2-01 282 281	M22520/2-08 282 971	M81969/01-02 282 886
		Socket	617 320			
20 reduced crimp barrel	22-24-26	Pin	617 224 001 - See Note 1	M22520/2-01 282 281	M22520/2-08 282 971	M81969/01-02 282 886
		Socket	617 324 001 - See Note 1			
16	16-18-20	Pin	617 240	M22520/1-01 282 291	M22520/1-02 282 972	M81969/14-03 282 515
		Socket	617 340			
16 reduced crimp barrel	20-22-24	Pin	617 241 - See Note 1	M22520/1-01 282 291	M22520/1-02 282 972	M81969/14-03 282 515
		Socket	617 341 - See Note 1			
16 for ground block	20	Pin	617 221 050	M22520/2-01 282 281	M22520/2-11	M81969/01-02 282 886
		Socket	N/A			
16 for optical electrical insert	16-18-20	Pin	617 235 003 - See Note 2	M22520/1-01 282 291	282 581 013	M81969/14-03 282 515
16 reduced crimp barrel for optical electrical insert	20-22-24	Pin	617 235 002 - See Note 1 & 2	M22520/1-01 282 291	282 581 013	M81969/14-03 282 515
12	12-14-16	Pin	617 250	M22520/1-01 282 291	M22520/1-02 282 972	M81969/14-04 282 549 004
		Socket	617 350			
8	8-10	Pin	617 291 002 - See Note 3 & 4	M22520/23-01 or R282 600 000 + Die set M22520/23-02 or R282 650 000	282 588	M81969/28-03 282 549 001
		Socket	617 391 002 - See Note 3 & 4			
5	8-10	Pin	617 280 - See Note 3 & 5	M22520/23-01 + Die set M22520/23-2	282 557 021	M81969/28-01 282 946
		Socket	617 390 - See Note 3 & 5			
5	12	Pin	617 260 001 - See Note 3 & 5	282 613	282 586 003	M81969/28-01 282 946
		Socket	617 360 001 - See Note 3 & 5			

Note 1: When smaller wire sizes are used on contacts with reduced crimp barrel, the wire won't provide sealing to the grommet. If sealing is required, please contact Radiall.

Note 2: Electrical contacts for optical insert are always pin contacts (hermaphrodite).

Note 3: In order to make these contacts environmental, it is necessary to add a sealing boot. Please contact us for additional information.

Note 4: These power contacts can be used in power inserts only (25P1).

Note 5: These power contacts can be used in power inserts only (P3, 13P1, 20P1).

FIBER OPTIC TERMINI

LuxCis[®] termini have been selected as the international standard and comply with ARINC 801 and EN 4639 standards.

LuxCis[®] inserts F12 & 12F6 are compatible with LuxCis[®] termini for monomode and multimode.

For more information, please ask for our LuxCis[®] product catalogue.



PC TAIL CONTACTS

PC tail contacts with straight or right angle termination are also available.

PC tail contacts are RR/RR (rear release / rear removable).

Feel free to contact us for more information.

COAXIAL CRIMP CONTACTS

Contact size	Cable type	Type	Part number	Center conductor		Outer conductor		Ins / ext tool
				Crimping tool	Positioner	Crimping tool	Die set	
15-16	RG174 RG179 RG188 RG316	Pin	617 130	M22520/2-01	282 578	M22520/4-01	282 556	282 512
		Socket	617 030	282 281	282 292			
15-16	RG178	Pin	617 131	M22520/2-01	282 578	M22520/4-01	282 556	282 512
		Socket	617 031	282 281	282 292			
15-16	GORE/AXON P812817 FILECA F1703-134 FILOTEX SP132868	Pin	617 132	M22520/2-01	282 578	M22520/4-01	282 556	282 512
		Socket	617 032	282 281	282 292			
15-16	RG178 DT	Pin	617 133	M22520/2-01	282 578	M22520/4-01	282 556	282 512
		Socket	617 033	282 281	282 292			
15-16	UT .047	Pin	617 135	M22520/2-01	282 578	M22520/4-01	282 556	282 512
		Socket	617 035	282 281	282 292			
12	UT.085 RG405	Pin	617 160	N/A solder termination				M81969/14-04
		Socket	617 060					282 549 004
5	RG58 RG141	Pin	617 101 See Note 1	M22520/2-01	282 572	M22520/5-01	M22520/5-05	M81969/28-01
		Socket	617 001 See Note 1	282 281	282 293	282 246	282 946	
5	RG142 RG223 RG400	Pin	617 102 See Note 1	M22520/2-01	282 572	M22520/5-01	M22520/5-05	M81969/28-01
		Socket	617 002 See Note 1	282 281	282 293	282 246	282 946	
5	RG174 RG316 RG188	Pin	617 103 See Note 1	M22520/2-01	282 572	M22520/5-01	M22520/5-05	M81969/28-01
		Socket	617 003 See Note 1	282 281	282 293	282 246	282 946	
5	RG178 RG196	Pin	617 104 See Note 1	M22520/2-01	282 572	M22520/5-01	M22520/5-05	M81969/28-01
		Socket	617 004 See Note 1	282 281	282 293	282 246	282 946	
5	RG180	Pin	617 105 See Note 1	M22520/2-01	282 572	M22520/5-01	M22520/5-05	M81969/28-01
		Socket	617 005 See Note 1	282 281	282 293	282 246	282 946	

Note 1: In order to make these contacts environmental, it is necessary to add a sealing boot: please contact us for additional information.

QUADRAX CONTACTS

Contact size	Cable type	Type	Part number	Center conductor		Outer conductor		Ins / ext tool
				Crimping tool	Positioner	Crimping tool	Die set	
8	Ethernet cable ABS0972 & ABS1503	Pin	620 175 010	M22520/2-01	Daniels K709	M22520/5-01	M22520/5-45	282 549 001
		Socket	620 075 010	282 281	282 581 010	282 293	282 236	
8	TENSOLITE NF24Q100	Pin	620 175 050	M22520/2-01	Daniels K709	M22520/5-01	M22520/5-45	282 549 001
		Socket	620 075 050	282 281	282 581 010	282 293	282 236	

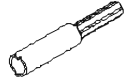
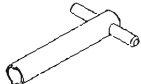


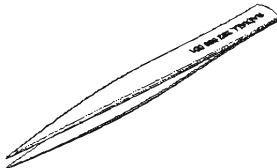
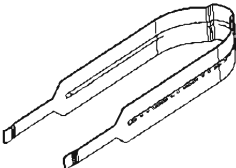
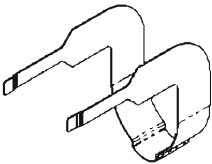
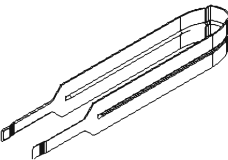
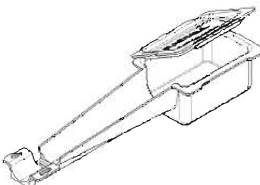
These Quadrax contacts have been tested per ARINC 600 supplement 14.

In order to make these contacts environmental, it is necessary to add a sealing boot. Please contact us for additional information.

CONTACTS FOR TWINAX CABLE

Contact size & type	Cable type	Type	Part number	Center conductor		Outer conductor		Ins / ext tool
				Crimping tool	Positioner	Crimping tool	Die set	
12 Triax	ECS0700	Pin	617 190 010	M22520/2-01	282 581 004	M22520/31-01	282 581 005	M81969/14-04
		Socket	617 090 010	282 281		282 297		282 549 004
12 Triax	M17/176-00002	Pin	617 190 012	M22520/2-01	282 581 004	M22520/31-01	282 581 005	M81969/14-04
		Socket	617 090 012	282 281		282 297		282 549 004
5 Triax	TENSOLITE 24473/03159X-2	Pin	617 152 See note 1	M22520/2-01	282 560	M22520/5-01	M22520/5-05	M81969/28-01
		Socket	617 052 See note 1	282 281		282 293	282 236	282 946
8 Triax	WHITMOR W26751575	Pin	617 165 See note 1	M22520/5-01		M22520/5-01	M22520/5-01	
		Socket	617 065 See note 1	282 293		282 293	282 293	
8 Twinax	ABS0386WF24	Pin	620 165 010 See note 1	M22520/2-01	Daniels K709	M22520/5-01	M22520/5-45	282 549 001
		Socket	620 065 010 See note 1	282 281	282 581 010	282 293	282 236	
8 Twinax	TYCO 1726A1424A	Pin	617 165 014 See note 1	M22520/2-01	Daniels K709	M22520/5-01	M22520/5-45	282 549 001
		Socket	617 065 014 See note 1	282 281	282 581 010	282 293	282 236	
5 Triax	M17/176-0002	Pin	617 150 See note 1	M22520/2-01	282 560	M22520/5-01	M22520/5-05	M81969/28-01
		Socket	617 050 See note 1	282 281		282 293	282 246	282 946
5 Triax	PAN6421	Pin	617 151 See note 1	M22520/2-01	282 560	M22520/5-01	M22520/5-05	M81969/28-01
		Socket	617 051 See note 1	282 281		282 293	282 246	282 946

Note 1: In order to make these contacts environmental, it is necessary to add a sealing boot. Please contact us for additional information.

	Part number	Description	To be used with		
			EPXA	EPXB1	EPXB2
	282 664	1/4 inch hex. screwdriver bit to affix the nut of the jackscrew or the jacknut			X
	282 665	Spigot wrench to affix the nut of the jackscrew or the jacknut			X
	282 666	Allen wrench for quarter turn fastener (3/32 inch)	X	X	
	282 666 001	Allen wrench for jackscrew (9/64 inch)			X
	282 668 001	Tweezers for polarization key release	X	X	
	282 521 002	Insert extraction tool		X	X
	282 521 004	Right angle insert extraction tool		X	X
	282 521 005	Insert extraction tool	X		
	617 954 020	Plastic box to protect wired inserts during handling	X	X	X

The EPX connector series offers a comprehensive range of standard components that allow the users to build a connector to meet their requirements. However, standard shells might not be compatible with the user's applications. Radiall has developed a variety of solutions to meet the customer's specific requirements with limited investment offering standard inserts and contacts. The EPX connector concept is fully expandable. Radiall is willing to develop the right solution for your application. Some of these solutions are shown below.

CUSTOM MULTICAVITY SHELLS

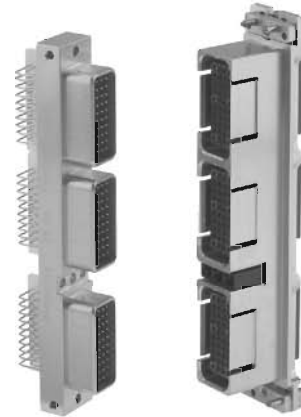
EPXB shells can be built in any format. Radiall has designed shells from 4 to 20 cavities for either panel or rack applications, with and without grounding blocks. These shells accommodate standard inserts.



SOLUTION FOR IMA (Integrated Modular Avionics)

Radiall has developed an EPXB3 connector.

This connector has been included in the EN4644 standard. The plug connectors fit directly onto printed circuit boards and the receptacle can be directly connected to the aircraft wiring. It is equipped with special rack features: float mount and shell as well as 3 polarization posts with 64 combinations.



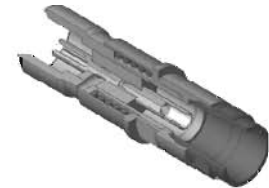
CONNECTORS FOR SIZE 3 COAXIAL CONTACTS

Radiall has developed a high reliability design to meet the demand for high specification RF requirements.



SOLUTIONS FOR HIGH FREQUENCIES CONNECTIONS

Radiall offers a high performance Coax contact SMPM size 12 and BMA size 8 for the frequency range up to 40Ghz which fits in the EPX connector.



SOLUTIONS FOR WIRING

Inserts may be fitted with internal bussed bars. This solution replaces junction blocks and simplifies the connector cabling.



HIGH DENSITY INSERT

To save space and weight and to accommodate density demand in electronic equipment.



Part Number	Description	Pages
282 236	Die set	29
282 246	Die set	28-29
282 281	Crimping tool	27-28-29
282 291	Crimping tool	27
282 292	Crimping tool	28
282 293	Crimping tool	28-29
282 297	Crimping tool	29
282 512	Insertion / extraction tool for contact size 15-16	28
282 515	Insertion / extraction tool for contact size 16	27
282 521 002	EPXB1 and EPXB2 insert extraction tool	30
282 521 004	EPXB1 and EPXB2 right angle insert extraction tool	30
282 521 005	EPXA insert extraction tool	30
282 522	Insertion / extraction tool for contact size 22	30
282 549 001	Insertion / extraction tool for contact size 8	27-29
282 549 004	Insertion / extraction tool for contact size 12	27-28-29
282 549 029	Insertion / extraction tool	27
282 556	Die set	28
282 557 021	Positioner	27
282 560	Positioner	29
282 572	Positioner	28
282 578	Positioner	28
282 581 004	Positioner	29
282 581 005	Die set	29
282 581 010	Positioner	29
282 581 013	Positioner	27
282 586 003	Positioner	27
282 588	Positioner	27
282 613	Crimping tool	27
282 664	EPXB2 spigot wrench (1/4 inch hex.)	30
282 665	EPXB2 spigot wrench	30
282 666	EPXA & EPXB1 allen wrench	30
282 666 001	EPXB2 allen wrench	30
282 668 001	EPXA & EPXB1 tweezers for polarization key release	30
282 886	Insertion / extraction tool for contact size 20 (reduced crimp barrel)	27
282 946	Insertion / extraction tool for contact size 5	27-28-29
282 970	Positioner	27
282 971	Positioner	27
282 972	Positioner	27
616 910	Sealing cap	23
617 001	Socket coaxial crimp contact size 5	28
617 002	Socket coaxial crimp contact size 5	28
617 003	Socket coaxial crimp contact size 5	28
617 004	Socket coaxial crimp contact size 5	28
617 005	Socket coaxial crimp contact size 5	28
617 030	Socket coaxial crimp contact size 15-16	28
617 031	Socket coaxial crimp contact size 15-16	28
617 032	Socket coaxial crimp contact size 15-16	28
617 033	Socket coaxial crimp contact size 15-16	28
617 035	Socket coaxial crimp contact size 15-16	28
617 050	Socket triax contact size 5 (twinax cable)	29
617 051	Socket triax contact size 5 (twinax cable)	29
617 052	Socket triax contact size 8 (twinax cable)	29
617 060	Socket coaxial crimp contact size 12	28

Part Number	Description	Pages
617 065	Socket triax contact size 8 (twinax cable)	29
617 065 011	Socket twinax contact size 8	23
617 065 014	Socket twinax contact size 8 (twinax cable)	29
617 090 010	Socket triax contact size 12 (twinax cable)	29
617 090 012	Socket triax contact size 12 (twinax cable)	29
617 101	Pin coaxial crimp contact size 5	28
617 102	Pin coaxial crimp contact size 5	28
617 103	Pin coaxial crimp contact size 5	28
617 104	Pin coaxial crimp contact size 5	28
617 105	Pin coaxial crimp contact size 5	28
617 130	Pin coaxial crimp contact size 15-16	28
617 131	Pin coaxial crimp contact size 15-16	28
617 132	Pin coaxial crimp contact size 15-16	28
617 133	Pin coaxial crimp contact size 15-16	28
617 135	Pin coaxial crimp contact size 15-16	28
617 150	Pin triax contact size 5 (twinax cable)	29
617 151	Pin triax contact size 5 (twinax cable)	29
617 152	Pin triax contact size 8 (twinax cable)	29
617 160	Pin coaxial crimp contact size 12	28
617 165	Pin triax contact size 8 (twinax cable)	29
617 165 011	Pin twinax contact size 8	23
617 165 014	Pin twinax contact size 8 (twinax cable)	29
617 190 010	Pin triax contact size 12 (twinax cable)	29
617 190 012	Pin triax contact size 12 (twinax cable)	29
617 200	Pin crimp contact size 22	23-27
617 201	Pin crimp contact size 22	27
617 221	Pin crimp contact size 20	27
617 221 050	Pin crimp contact size 16	27
617 224 001	Pin crimp contact size 20	27
617 235 002	Pin crimp contact size 16	27
617 235 003	Pin crimp contact size 16	27
617 240	Pin crimp contact size 16	27
617 241	Pin crimp contact size 16	27
617 250	Pin crimp contact size 12	23-27
617 260 001	Pin crimp contact size 5	27
617 280	Pin crimp contact size 5	27
617 291 002	Pin crimp contact size 8	27
617 300	Socket crimp contact size 22	23-27
617 301	Socket crimp contact size 22	27
617 320	Socket crimp contact size 20	27
617 324 001	Socket crimp contact size 20	27
617 340	Socket crimp contact size 16	27
617 341	Socket crimp contact size 16	27
617 350	Socket crimp contact size 12	27
617 360 001	Socket crimp contact size 5	27
617 390	Socket crimp contact size 5	27
617 391 002	Socket crimp contact size 8	27
617 610 188	EPXB2 receptacle assembled kit for Galley	23
617 610 189	EPXB2 plug assembled kit for Galley	23
617 610 212	EPXB2 Galley receptacle shell	23
617 610 213	EPXB2 Galley plug shell	23
617 921 029	EPXB1 straight strain relief	14
617 921 030	EPXA straight strain relief	11
617 921 031	EPXB1 45° strain relief	14
617 921 032	EPXA 45° strain relief	11

Part Number	Description	Pages
617 922 007	EPXB2 straight strain relief	19-23
617 922 014	EPXB2 straight strain relief for fiber optic cable	19
617 924 008	EPXB1 straight EMI backshell	14
617 925 052	EPXB2 EMI backshell for braid shield termination	19
617 925 054	EPXB2 EMI backshell for screened twisted pair cables	19
617 925 056	EPXB2 EMI backshell for large sized wire harnesses	19
617 927 006	EPXA straight EMI backshell	11
617 928 002	EPXB1 straight EMI backshell	14
617 928 100	EPXB2 straight EMI backshell	19
617 954 002	EPXB2 dust cap for plug shell	19
617 954 003	EPXB2 dust cap for receptacle shell	19
617 954 004	EPXB2 ESD dust cap for plug shell	19
617 954 005	EPXB2 ESD dust cap for receptacle shell	19
617 954 006	EPXA dust cap for plug shell	11
617 954 007	EPXA dust cap for receptacle shell	11
617 954 008	EPXB1 dust cap for plug shell	14
617 954 009	EPXB1 dust cap for receptacle shell	14
617 954 020	Plastic box (tool for EPX series)	30
617 954 028	EPXB1 ESD dust cap for plug shell	14
617 954 034	EPXB1 ESD dust cap for receptacle shell	14
617 954 101	EPXB2 grounding spring	19
617 980 009	EPXB2 jacknut A/B/C/D/E/F	19-20
617 980 011	EPXB2 jacknut N/R/W/X/Y/Z	19-20
617 980 012	EPXB2 jackscrew A/B/C/D/E/F	19-20
617 980 013	EPXB2 jackscrew N/R/W/X/Y/Z	19-20
617 980 022	EPXB2 universal jacknut	19-20
617 980 023	EPXB2 universal jackscrew	19-20
617 980 024	EPXA & EPXB1 polarization key pin	11-14
617 980 025	EPXA & EPXB1 polarization key socket	11-14
620 065 010	Socket twinax contact size 8 (twinax cable)	29
620 075 010	Socket quadrax contact size 8	29
620 075 050	Socket quadrax contact size 8	29
620 165 010	Pin twinax contact size 8 (twinax cable)	29
620 175 010	Pin quadrax contact size 8	29
620 175 050	Pin quadrax contact size 8	29
EPXBE06PB	Insert for cavity B / EPXB insert for pin contact	23
EPXBE06SB	Insert for cavity B / EPXB insert for socket contact	23
EPXBE25Q1PA	Insert for cavity A	23
EPXBE25Q1SA	Insert for cavity A	23
R282 600 000	Crimping tool	27
R282 650 000	Crimping tool	27

A global range

To meet your needs



ANTENNAS

RADIALL develops and produces antennas for frequencies from 27 MHz to 6 GHz.

- Technologies used: wire, patch, printed, wire-plate, PIFA
- Numerous types of antennas: single pole, dipole, network, passive or active (with LNA), adaptable and intelligent, outdoor or integrated.



MICROWAVE COMPONENTS

Wide range of coaxial terminations and attenuators using standard interfaces (SMA, QMA, N, QN...) from low (1W) to high power (100W) and new cable load solution, chip terminations up to 18 GHz, hybrid or directional SMT couplers up to connectorized couplers, lightning protectors, detectors, rotary joints, phase shifters, DC Blocks...



AEP CONNECTORS

AEP, a RADIALL US subsidiary, design RF connectors for the demanding requirements of military field radio and avionics systems:

- Coaxial waterproof connectors with a unique system of sealing.
- MIL-PRF-39012 QPL connectors
- SSMB and SSMC superior connectors
- SLB Self Aligning connector system.



MULTIPIN CONNECTORS

The range includes rack and panel connectors (Arinc 404 & MIL-C-81659B DSX, Arinc 600 NSX & S280W551 BPX, EN3682/MIL-C-83527 MPX JN1123 TCX), modular connector (EPX® series), compatible with a large variety of contacts: signal, power, RF, data bus, fiber optic, quadax and twinax.

A range of wire to wire and wire to board connectors is also available: B & MCSR heavy duty connectors, M, MM, MB, MBC rectangular miniature, MMC series.



FIBER OPTIC CONNECTORS

Wide range of interconnect solutions, including standard connector interfaces for multimode and singlemode fiber (LC, SC, FC, ST...) as well as connectors and terminations contacts (MIL-T-29504, ARINC 801) for harsh environment applications (aeronautic, military, naval, medical, railway...). Great flexibility for custom design.



MICROWAVE SUB-SYSTEMS

We design Filters, Duplexers, Splitters and Combiners, Switching matrix, interconnection racks and enclosures, Custom assemblies, ... Our expertise includes Microwave passive systems design, Mechanical integration to customer environment, Thermal management, Cabling, wiring, harnessing, ...



HARNESSES

The combination of design and manufacturing of RF and microwave cables as well as multipin connectors (EPX®, ARINC 404 and 600) allows RADIALL to be a specialist of harnesses for on-board (aeronautic, navy...) or land (railways, removed antenna...) equipment or communications systems. All types of contacts can be used and mixed such as signal, power, RF, quadax, fiber optic...



RF & MICROWAVE CABLE ASSEMBLIES

RG, Eco-Friendly, Handformable, Semi-rigid, SHF Ultra-low loss (General Interconnect, Outdoor, Airframe phase matching large choice of interfaces, Lightweight), ...



RF & MICROWAVE SWITCHES

Wide range of coaxial switching products for commercial, military and instrumentation applications. Available with a large choice of interfaces (SMA, QMA, N, ...), from DC to 40 GHz.

Main products:

- Standard RAMSES series.
- PLATINUM series with high repeatability (0.03 dB) on insertion loss during 10 million actuations.
- Subminiature SPnT up to 26.5 GHz.
- SMT high power micro-SPDT.



RF COAXIAL CONNECTORS

The widest range of coaxial connectors in the world from microminiature (UMP) to standard connectors (7/16) covering the frequency range of DC to 65 GHz mixing standardized and custom interfaces (UMP, IMP, MMS, MMT, QMA, QN, MMBX).



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D72010CE - 2008 June Edition

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Printed in France

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