

DATA BUS CONTACT SOLUTIONS

QUADRAX CONTACTS CONCENTRIC TWINAX CONTACTS

Radiall is recognized in the Aerospace industry for its global offering of interconnect solutions. It now includes a wide range of QUADRAX and TWINAX contacts for a variety of Data Bus Applications.

Radiall Data Bus contacts can be used in a variety of connectors, including ARINC 600, ARINC 404, EN3545, EN2997, MIL-C-81659B, MIL-C-38999, MIL-C-83527, NAS1599, JN1123 or Radiall EPX series.

Designed according to the latest ARINC600 Ethernet specification, Quadrax contacts have 4 center contacts (TX+, TX-, RX+ & RX-) and a grounding shield.

Common to Mil-STD-1553, ARINC 629 and ARINC 664 applications, our concentric Twinax contacts consist of three concentric conductors.

QUADRAX

- **Contacts**

Radiall developed a range of size 8 crimp and PC tails contacts:

Connector Series	Gender	Part number	Type
ARINC 600 ARINC 404 EN 3545 EN 2997 NAS 1599	Socket	620075010	Rear Release/Rear Removable Crimp version - Draka Fileca cable F4703-3 (100Ω)
	Pin	620175010	
ARINC600	Pin	620176008	Front Release/Front Removable PC tail version

- **Crimping tools**

	Crimping tool	Die or Positioner
Inner contacts	M22520/2-01	M22520/2-37
Outer contacts	M22520/5-01	M22520/5-45

- **Extraction tool**

M81969/28.03 (Radiall P/N: 282549001).

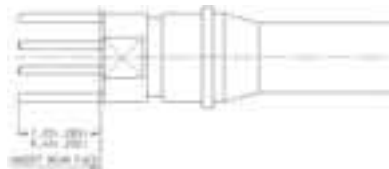
- **Inserts**

Since Quadrax contacts have to be oriented, specific ARINC600 inserts are required.

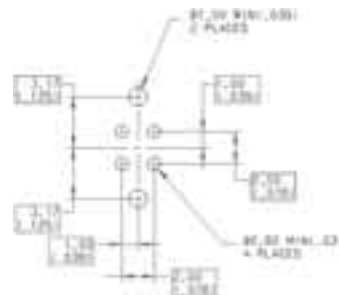


Size 2 ARINC 600, with 2 x 11Q11 and 1 x 24T4 inserts Quadrax and Twinax contacts

PC tail Quadrax contact



Printed Circuit Board drill pattern for PC tail Quadrax contact

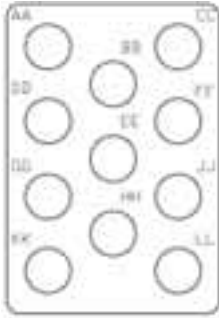


ISO 9001 APPROVED



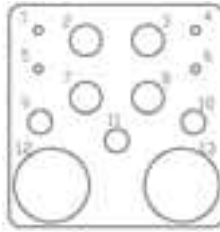
www.radiall.com

11Q11 insert (1)



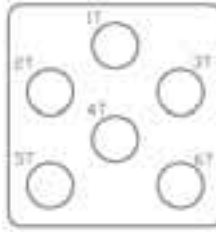
11 Quadrax contacts

11Q2 insert (2)



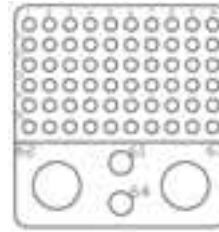
2 Quadrax contacts
4x #12 contacts
3x #16 contacts
4x #20 contacts

6Q6 insert (1)



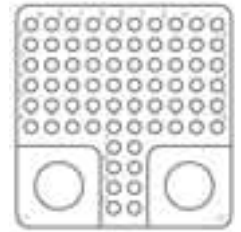
6 Quadrax contacts

62Q2 insert (2)



2 Quadrax contacts
2x #16 contacts
60x #22 contacts

68Q2 insert (2)



2 Quadrax contacts
68x #22 contacts

(1) Receptacle inserts: front mating face shown - Grounding continuity on all cavities
(2) Receptacle inserts: front mating face shown - Grounding continuity on size 8 cavities

CONCENTRIC TWINAX CONTACTS

These contacts may be used in standard inserts (size 5, 8, 9 or 12), or in the specific inserts designed for the quadrax contacts.

For MIL-STD-1553B data bus applications:

Connector Series	Socket Contact P/N	Pin Contact P/N	Comments	Contact Size	Cable Type
EPX (BACC65) / EPXB	617090010	617190010	Non environmental contacts	12	EUROCOPTER ECS0700 DRAKA FILECA F2703-72
	617050*	617150*	/		
MIL-C-81659B ARINC 404	616095001	616195001	For non environmental inserts: 32C2, 33C4, 40C1, 36C7, 36T7	5	MIL-C-17/176-00002
	616095009	616195009	For environmental inserts: 32C2, 33C4, 40C1		
		616195012	For environmental inserts: 36C7, 36T7		
	616095005	616195005	For non environmental inserts: 32C2, 33C4, 40C1, 36C7, 36T7	9	PANAVIA 6421
	616096003	616196003	For non environmental inserts: C8, 32C4		
	616096004	616196004	For non environmental inserts: 32C4, 30C4		
	616096006	For environmental insert: C8			
ARINC 600	619069001	619169001	/	8	MIL-C-17/176-00002
MIL-C-83527A EN 3682	618060*	618160*	/		EN3375-004 & -005
	618061*	618161*	/		MIL-C-17/176-00002 EN3375-003
	618062*	618162*	/		MIL-C-17/176-00002 EN 3375-003,-004,-005
	618072	618172	/		EUROCOPTER ECS0700 DRAKA FILECA F2703-72
JN 1123	626061	626161	/	12	MIL-C-17/176-00002
MIL-C-38999 Series I,III,IV	670050	670150	For 11-1, 17-2, 17-98, 9-3, 19-4, 19-18, 21-5, 21-26, 25-8, 25-20 inserts	8	MIL-C-17/176-00002 EN 3375-003
MIL-C-38999 Series II	670060001	670160001	/	12	EUROCOPTER ECS0700 DRAKA FILECA F2703-72

For ARINC629 data bus applications:

Connector Series	Socket Contact P/N	Pin Contact P/N	Comments	Contact Size	Cable Type
ARINC 600	619166	619065	Front release / rear removable	8	BOEING S280W502-1
		619165	Rear release/rear removable		

(*) For environmental contacts, add the suffix 001 at the end of the 6-digit P/N

For further information, please contact your nearest Radiall representative:

RADIALL (France)	+33 1 49 35 35 35
RADIALL S.F. (Finland)	+358 9 34 89 657
RADIALL G.m.b.H. (Germany)	+49 6 074 910 70
RADIALL Elettronica S.R.L. (Italy)	+39 02 48 85 121
RADIALL B.V. (Netherlands)	+31 33 253 40 09
RADIALL A.B. (Sweden)	+46 8 444 34 10
RADIALL Ltd (U.K.)	+44 20 8991 7700
RADIALL JERRIK INC. (USA)	+1 480 730 5700
RADIALL do Brasil (Brasil)	+55 21 558 05 76
SHANGHAI RADIALL Ltd (China)	+86 21 66 52 37 88
NIHON RADIALL KK (Japan)	+81 3 3866 2390
RADIALL Electronics Ltd (Asia)	+852 29 59 38 33
RADIALL PROTECTRON (India)	+91 80 83 95 271

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