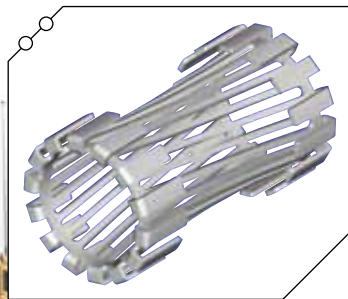


Amphenol TRI-POWER with RADSOK[®] Technology

FEATURES/BENEFITS

The Amphenol Power Connectors incorporate the proven design of the Mil-DTL-38999 Series III Tri-Start connectors with the evolving technology of the High Power RADSOK[®] contacts. This newly designed product is the future of power connectors enabling customers to choose contacts ranging from 70 to 250 amps allowing more power in a smaller connector. Using standard shell sizes for 38999 connectors will allow the Power Connectors to mate to existing mounting holes without changing the customer's original design.

Amphenol will also be incorporating our new alternate to Cadmium Plating called Durmalon. Durmalon is a Nickel-PTFE that is proven to meet Coupling Torque, Shell to Shell Conductivity, and Durability tests required by the MIL-DTL-38999 salt spray requirements.



RADSOK[®] Technology Advantages

- High Reliability**
 Unique RADSOK design and construction technology create an electrical contact interface that exceeds typical interconnect requirements. Applications in aerospace, medical, industrial, automotive, mining, off shore, and other harsh environments.
- Low Contact Engagement/Separation Forces**
 The hyperbolic lamella socket contact construction distributes normal forces over a high percentage of the mating pin surface. This creates a smooth, even engagement effort. This force distribution also contributes to excellent performance in vibration applications with resistance to typical fretting corrosion.

Tri-Power Part Number

PDS-211-1

1.	2.	3.	4.	5.	6.	7.	8.
Connector Type	Shell Style	Service Class	Shell Size	Insert Arrangement	Contact Type	Alternate Positions	Special Variations
MP	00	RF	21	AF	P	B	(XXX)

Consult Amphenol Aerospace, Sidney, NY for variations.

1. Connector Type

MP	Tri-Power
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2. Shell Style

00	Wall Mount Receptacle
06	Plug
07	Jam Nut Receptacle

3. Service Class

RX	Alternate finish, requires special variation suffix. Example: non-conductive, anodic coated aluminum is defined by variation suffix 005. Consult Amphenol, Sidney NY for details, options and availability of non-cadmium or nickel finishes.
RF	Electroless nickel plated aluminum, optimum EMI shielding effectiveness -65dB @ 10 GHz specification min., 48 hours salt spray, 200°C
RW	Corrosion resistant olive drab cadmium plate aluminum, 500 hour extended salt spray, EMI -50db @ 10 GHz specification min., 175°C
DT	Durmalon: Gray non-reflective finish, RoHS® compliant cad & Hexavalent Chromium free. 500 hours extended salt spray, EMI -50db @ 10 GHz specification min., 175°C

4. Shell Size

(MIL-DTL-38999, Size11-37)

11*	MIL Shell Size B
13*	MIL Shell Size C
15*	MIL Shell Size D
17*	MIL Shell Size E
19*	MIL Shell Size F
21	MIL Shell Size G
23*	MIL Shell Size H
25	MIL Shell Size J
33*	-
37*	-

*Consult Amphenol for availability

5. Insert Arrangement

(see drawings to your right)



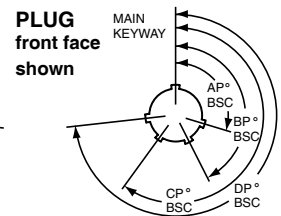
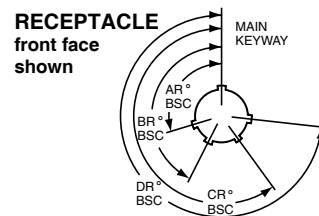
6. Contact Type

P	Pin Contacts
S	Socket Contacts

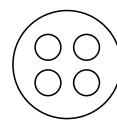
7. Select Alternate Positions

Shell Size	Key & keyway arrangement identification letter	AR° or AP° BSC	BR° or BP° BSC	CR° or CP° BSC	DR° or DP° BSC
11*, 13*, and 15*	N*	95	141	208	236
	A	113	156	182	292
	B	90	145	195	252
	C	53	156	220	255
	D	119	146	176	298
17* and 19*	E	51	141	184	242
	N*	80	142	196	293
	A	135	170	200	310
	B	49	169	200	244
	C	66	140	200	257
21, 23*, and 25	D	62	145	180	280
	E	79	153	197	272
	N*	80	142	196	293
	A	135	170	200	310
	B	49	169	200	244
33*, 37*,	C	66	140	200	257
	D	62	145	180	280
	E	79	153	197	272
	N*	80	142	188	293
	A	135	170	188	310
	B	49	169	188	244
	C	66	140	188	257
	D	62	145	188	280
	E	79	153	188	272

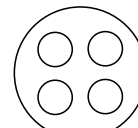
A plug with a given rotation letter will mate with a receptacle with the same rotation letter. The angles for a given connector are the same whether it contains pins or sockets. Inserts are not rotated in conjunction with the master key/keyway.



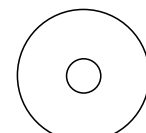
Insert Arrangements



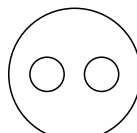
21-AH
(4) Size 8 Contacts



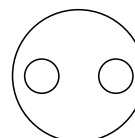
25-AF*
(4) Size 4 Contacts



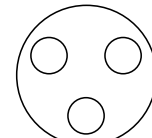
25-AG*
(1) Size 1/0 Contacts



25-AH
(2) Size 4 Contacts



33-02*
(2) Size 1/0 Contacts



37-03*
(3) Size 1/0 Contacts

RADSOK[®] Technology Advantages

• HIGH RELIABILITY

Unique RADSOK[®] design and construction technology create an electrical contact interface that exceeds typical interconnect requirements. Applications in aerospace, medical, industrial, automotive, mining, offshore, and other harsh environments depend on high reliability of the Amphenol RADSOK[®] technology.

• LOW CONTACT ENGAGEMENT/SEPARATION FORCES

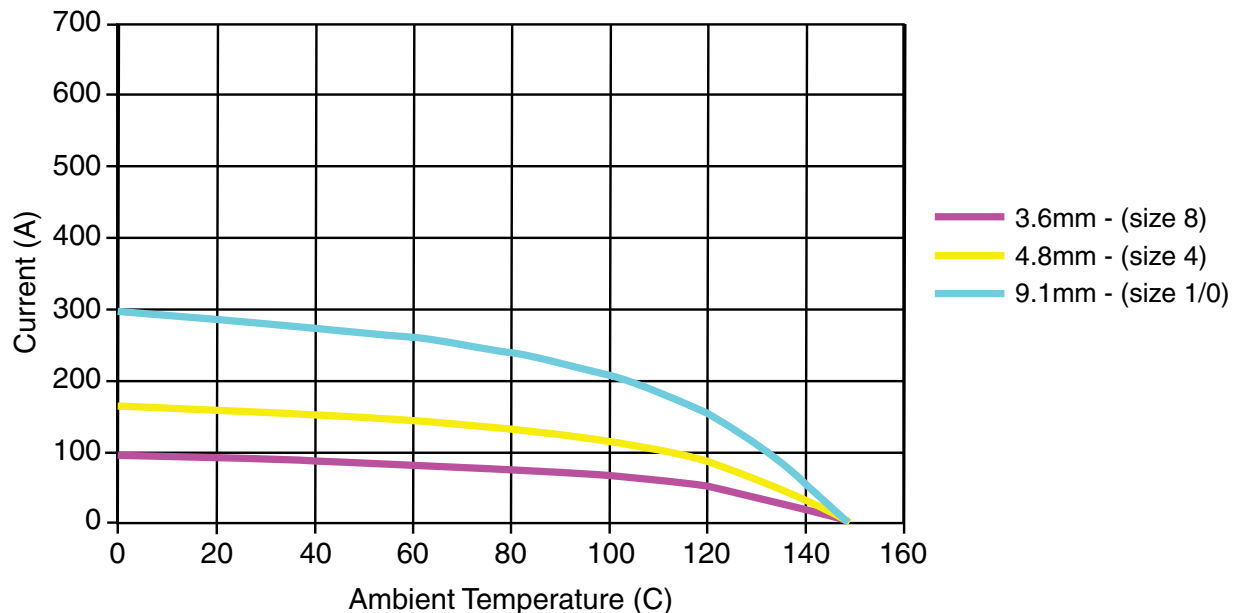
The hyperbolic lamella socket contact construction distributes normal forces over a high percentage of the mating pin surface. This creates a smooth, even engagement effort. This force distribution also contributes to excellent performance in vibration applications with resistance to typical fretting corrosion.

• LOW CONTACT RESISTANCE

The large interface area between the socket lamella and pin surface result in very low contact resistance, enabling the RADSOK[®] contacts' high current ratings compared to traditional power contact designs.

• HIGH MATING CYCLE DURABILITY

RADSOK[®] contacts with typical silver plating finishes have demonstrated survival of 20,000 mating cycles. Specialized plating and contact lubricants can extend cycle life to 200,000 matings or higher. Even with continuous exposure to harsh environmental abuse (salt, sand, and high humidity), RADSOK[®] contacts have been tested to maintain low contact resistance beyond 10,000 mating cycles.



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