

RADSOK® RadFin™

The Amphenol Industrial Products Group offers a line of high current low profile board power connectors. Our RadFin™ power connectors use patented RADSOK® contact technology to meet the increasing power requirements of printed circuit boards and the need for smaller board footprints. Offered in right angle mating planes as single-point contact terminals, the RadFin product line gives the versatility needed when component placement decisions are crucial. Delivering up to 300A in less than one linear inch of PCB card edge, the RadFin offers superior current density compared to traditional power connectors. Available in solder tail, compliant pin and screw attach.

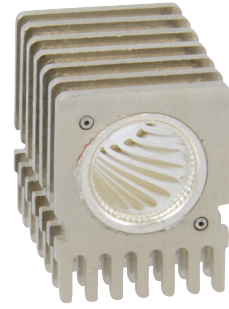
Features:

- RADSOK® sizes 6mm, 8mm and 10mm
- 150A, 200A and 300A rated single point of contact
- Low profile right angle exit less than 1 inch mated height
- Board to board, busbar to board or wire to board mating options
- RADSOK® Socket and pin / silver over nickel plating
- Unique heat dissipating design



Technical Data

RADSOK® Size	6mm	8mm	10mm
Current Rating	150A	200A	300A
Wire Gauge	4 AWG	1/0 AWG	2/0 AWG



RADSOK® Technology Advantages

RADSOK'S twisted grid configuration allows for 50% more current to pass through the same size pin, while providing increased reliability, ampacity and cycle durability as well as lower insertion force, T-rise and voltage drop.

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 the high reliability of Amphenol's 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

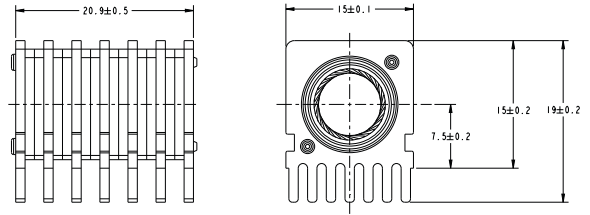
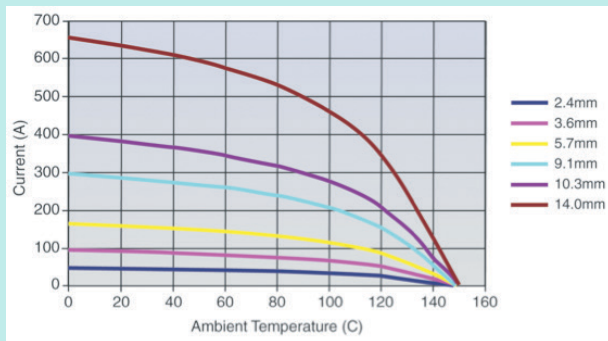
The large interface area between the socket lamella and pin surface result in very low contact resistance, enabling the RADSOK® contacts' high current ratings compared to traditional power contact designs.

• HIGH MATING CYCLE DURABILITY

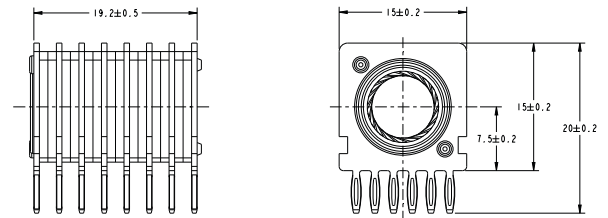
RADSOK® contacts with typical silver plating finishes have demonstrated survival of 20,000 mating cycles. Specialized plating and contact lubricants can extend cycle life to 200,000 matings or higher. Even with continuous exposure to harsh environmental abuse (salt, sand, and high humidity), RADSOK®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

RADSOK® Derating Chart – Temperature vs. Current

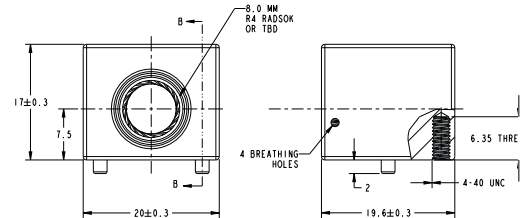
Based on single conductors in free air. Wire cross-section same size as pin contact cross-sectional area.



10-729255-000
8mm solder tail receptacle



10-729842-000
8mm compliant pin receptacle



10-730246-000
8mm direct attach receptacle

Part Number	Description
10-729255-000	8mm solder tail receptacle
10-729842-000	8mm compliant pin receptacle
10-730246-000	8mm direct attach board mount receptacle
6mm and 10mm versions available upon request	

Notice: Specifications are subject to change without notice. Contact your nearest Amphenol Corporation Sales Office for the latest specifications. All statements, information and data given herein are believed to be accurate and reliable but are presented without guarantee, warranty, or responsibility of any kind, expressed or implied. Statements of suggestions concerning possible use of our products are made without representation or warranty that any such use is free of patent infringement and are not recommendations to infringe any patent. The user should assume that all safety measures are indicated or that other measures may not be required. Specifications are typical and may not apply to all connectors.

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