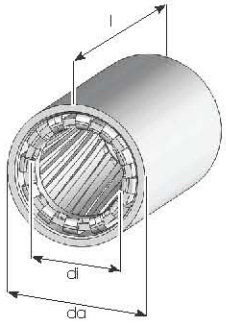
Amphenol
SineSystems

RADSOK® Technology



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 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 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 mating 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.

RTHP RADSOK®	3.6mm	6mm	8mm	10mm
Current (DIN EN 60512)	115A (23°C) 107A (40°C) 86A (80°C) 56A (120°C)	155A (23°C) 148A (40°C) 116A (80°C) 77A (120°C)	240A (23°C) 235A (40°C) 185A (80°C) 120A (120°C)	455A (23°C) 425A (40°C) 342A (80°C) ?A (120°C)
Contact Resistence	= 0.15mΩ	= 0.11mΩ	= 0.08mΩ	n/a
Mating Force	= 10NV	= 20N	= 50N	
m	1.5g	5.6g	14.5g	
l	13.2mm	21.9mm	25.7mm	
di	3.6mm	6mm	8mm	
da	6mm	9.5mm	13.5mm	
Plating	Grid: Silver Sleeve: Silver	Grid: Silver Sleeve: Tinned	Grid: Silver Sleeve: Tinned	Grid: Silver Sleeve: Tinned

Note: The given electrical values correspond to a single contact. With the addition of a housing, an increased number of poles or other modifications, the values must be adjusted downwards accordingly.

Currently available on our **RT360™** Circular Connectors

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