



# PRM Series™

## Panel Rack Mount Power Connectors

Available in 2 position



Amphenol Sine Systems' **PRM Series™ (Panel Rack Mount) Connectors**, available in both Plugs and Receptacles, are a quick-connect power connector solution for use in panel rack mount network applications. **Our quick-connect design enables denser installations, faster deployments and upgrades.**

**Quick-Connect Design**  
Simple Plug & Play  
Stackable Footprint  
Optimal Wire Management



Vs.



**Ring Terminal Design**  
Multi-Step Install Process  
Time Consuming  
Non-Optimal Wire Management

**Market Applications:** Telecommunications Infrastructure, Data Centers, Broadband

### Features & Benefits

- Field Installable w Standard Crimpers
- Stackable / Reduced Footprint / In-Line Wire Design
- Faster Installations / Replacements
- Keyed to prevent mis-mating/reverse polarity
- RADSOK®\* and SureSocket™ Contacts
- Panel receptacles can be customized to your specific application

### Technical Specifications

Operating Temperature	-40°C to +125°C
Current (Amperage)	Up to 70A
Maximum Voltage	250V
Minimum Mating Cycles	>500
Contact Sizes	2.4mm: 0.216 (5.5mm); 4.0mm: 0.315 (8mm)
Number/Size of Contacts	2/ 2.4mm (SureSocket™) or 4.0mm (RADSOK®)
Contacts	SureSocket™ Spring: Copper Alloy, Gold-Plated RADSOK® Spring: Copper Alloy, Silver-Plated
Contact Barrel Range	2.4mm: 10-20AWG; 4.0mm: 6-16AWG
Housing Body	GF PA 6/6
Flame Rating	UL94 V-0



\*RADSOK Male 4.0mm are Touch-Proof for added safety



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Customer Service +1 800 394 7732

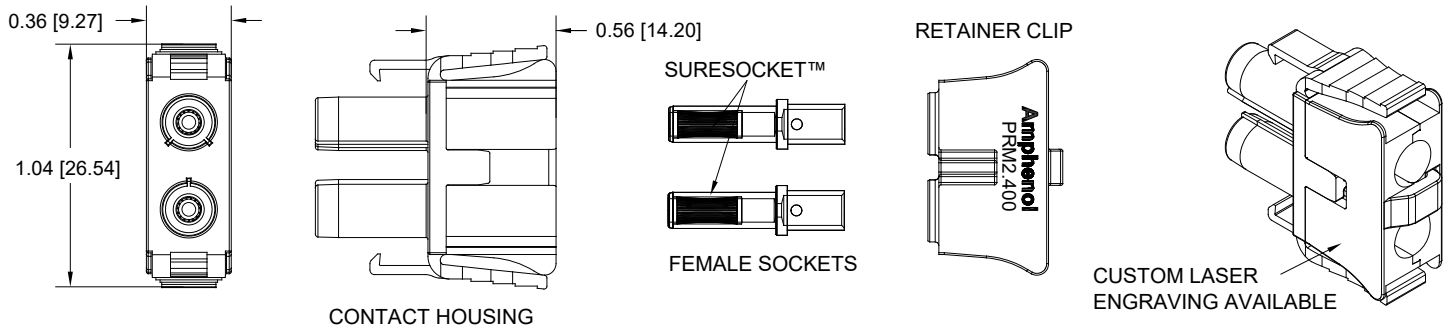
PRM Series™, 2.4mm

Image	Part Number	Description	Size	Amp	Voltage
	PRM2400-G2-PLG	Kit, 2 Position, Female Plug, Socket, PRM Series™, 10-12AWG SureSocket™ Machined Contacts Mates with: PRM2400-G2-PNL	2.4mm	Up to 32A	250
	PRM2400-G3-PLG	Kit, 2 Position, Female Plug, Socket, PRM Series™, 14-16AWG SureSocket™ Machined Contacts Mates with: PRM2400-G2-PNL	2.4mm	Up to 20A	250
	PRM2400-G4-PLG	Kit, 2 Position, Female Plug, Socket, PRM Series™, 18-20AWG SureSocket™ Machined Contacts Mates with: PRM2400-G2-PNL	2.4mm	Up to 12A	250
	PRM2400-G2-PNL	Kit, 2 Position, Male Receptacle, Pin, PRM Series™, 12-14AWG Machined Contacts Mates with: PRM2400-GX-PLG	2.4mm	Up to 32A	250
	PL000733	2.4mm, Male Receptacle Housing, PRM Series™	2.4mm	N/A	N/A
	PL000734	2.4mm, Female Plug Housing for use with PL000735, PRM Series™	2.4mm	N/A	N/A
	PL000735	2.4mm, Retainer Clip for use with PL000734, PRM Series™	2.4mm	N/A	N/A
	SC000565	2.4mm, Contact, Pin, 4-40 UNC Thread	2.4mm	30A Max	N/A
	SC000611	2.4mm, Contact, Pin, 10-12AWG	2.4mm	30A Max	N/A
	SC000612	2.4mm, Female SureSocket™ Machined Contact, 10-12AWG	2.4mm	30A Max	N/A
	SC000692	2.4mm, Female SureSocket™ Machined Contact, 14-16AWG	2.4mm	20A Max	N/A
	SC000706	2.4mm, Female SureSocket™ Machined Contact, 18-20AWG	2.4mm	10A Max	N/A

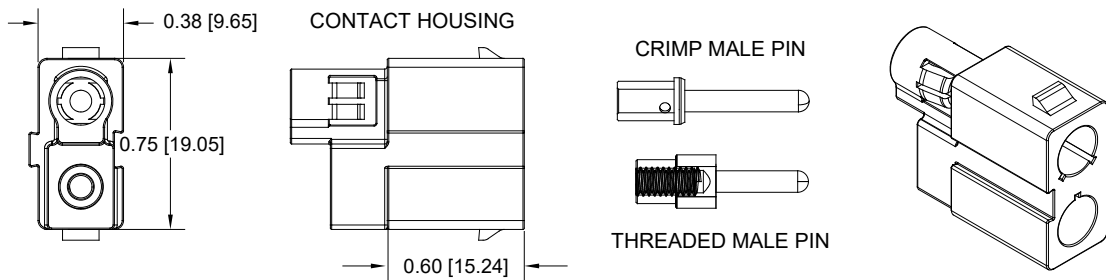
PRM Series™, 4.0mm

Image	Part Number	Description	Size	Amp	Voltage
	PRM0400-G1-PLG	Kit, 2 Position, Female Plug, Socket, PRM Series™, 14-16AWG Machined RADSOK® R8S Contacts, Retainer Clip Mates with: PRM0400-G1-PNL	4.0mm	Up to 43A	250
	PRM0400-G2-PLG	Kit, 2 Position, Female Plug, Socket, PRM Series™, 10-12AWG Machined RADSOK® R8S Contacts, Retainer Clip Mates with: PRM0400-G3-PNL	4.0mm	Up to 43A	250
	PRM0400-G4-PLG	Kit, 2 Position, Female Plug, Socket, PRM Series™, 6-8AWG Machined RADSOK® R8S Contacts, Retainer Clip Mates with: PRM0400-G2-PNL	4.0mm	70A Max	250
	PRM0400-G3-PNL	Kit, 2 Position, Male Receptacle, Pin, PRM Series™, 1 X 8AWG Machined Contact and 1 X 8-32 Threaded Bus Bar Contact Mates with: PRM0400-GX-PLG	4.0mm	70A Max	250
	PL000727	4.0mm, Male Receptacle, Panel Side Contact Housing, PRM Series™	4.0mm	70A Max	N/A
	PL000728	4.0mm, Female Plug Housing for use with PL000729, PRM Series™	4.0mm	N/A	N/A
	PL000729	4.0mm, Contact Retainer Clip for use with PL000728, PRM Series™	4.0mm	N/A	N/A
	SC000530	4.0mm Male Pin, 8-32 UNC Thread used with PL000727	4.0mm	70A Max	N/A
	SC000531-8	4.0mm, Male Pin, 8-10AWG	4.0mm	70A Max	N/A
	SC000532-6-R4	4.0mm Female Socket, 6-8AWG Machined RADSOK® R8S Contact	4.0mm	70A Max	N/A
	SC000532-10-R4	4.0mm Female Socket, 10-12AWG Machined RADSOK® R8S Contact	4.0mm	70A Max	N/A
	SC000532-14-R4	4.0mm Female Socket, 14-16AWG Machined RADSOK® R8S Contact	4.0mm	70A Max	N/A
	50-80639	4.0mm, Extraction Tool	4.0mm	N/A	N/A

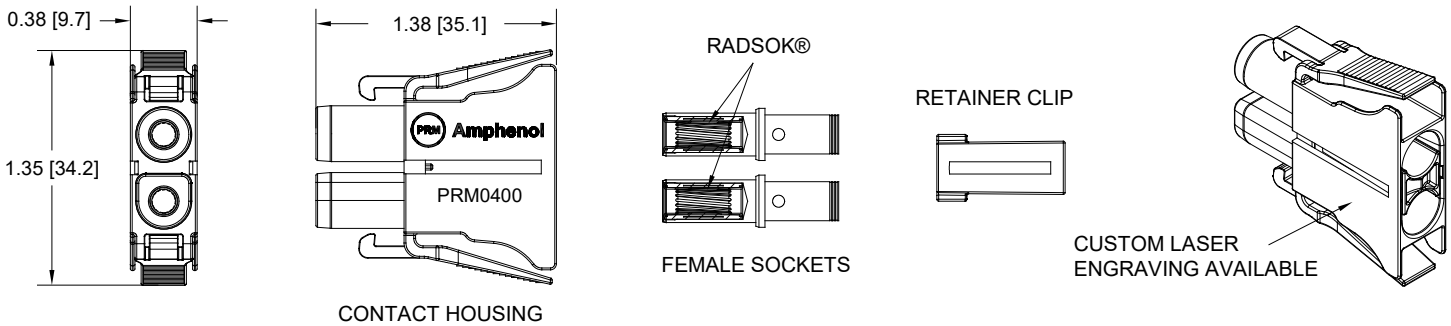
PRM Series™ 2.4mm Plug Dimensions



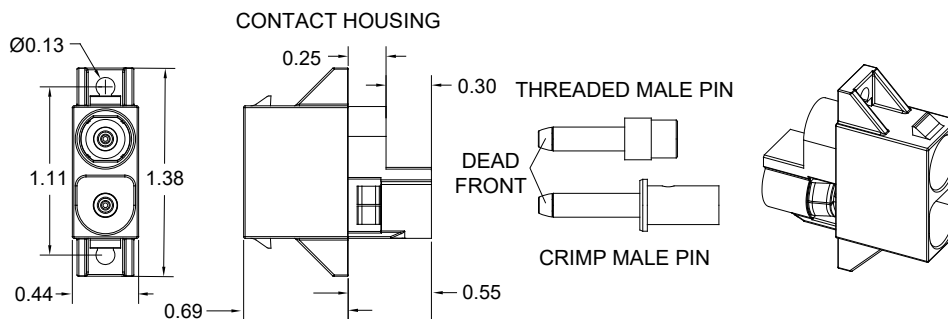
PRM Series™ 2.4mm Panel Dimensions



PRM Series™ 4.0mm Plug Dimensions



PRM Series™ 4.0mm Panel Dimensions



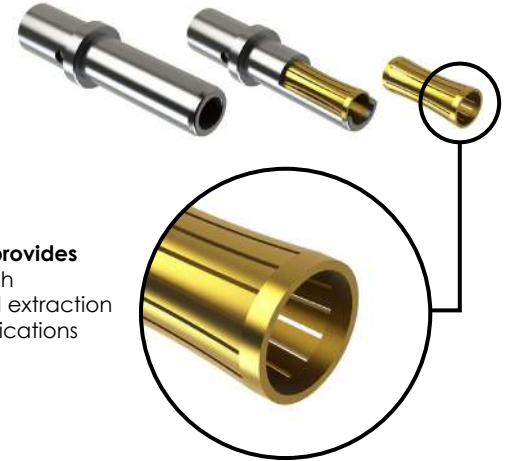


## Confidence In Every Connection

The unique design of our **SureSocket™ Contacts**, available in 2.4mm with a wire range of 10-20AWG, provides a **secure 360° of mating surface area** to its mated machined pin. This distributes even forces over a high percentage of the mating surface, creating a smooth, even engagement effort with low insertion and extraction forces as well as low contact resistance. This also contributes to excellent performance in vibration applications with resistance to typical fretting corrosion.

### Key Features

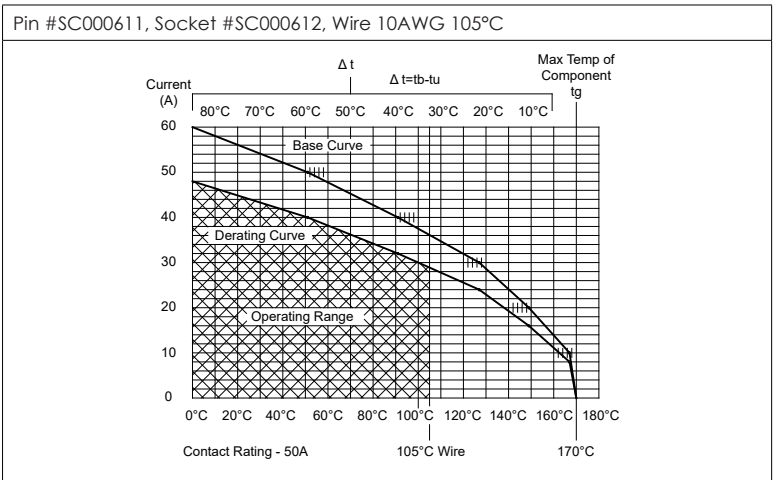
- Longer contact life
- Low contact resistance
- Low insertion & extraction forces
- Increased immunity to shock & vibration
- Contact Area Extends 360° Around Pins
- Higher amperage in a compact design



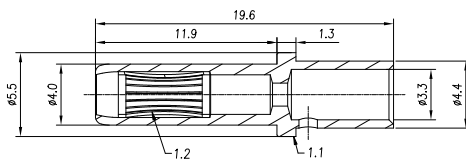
### Technical Specifications

Operating Temperature	-40°C to +125°C
Contact Body	Copper Alloy, Silver-Plated
Contact Spring	Copper Alloy, Gold Flash
Max. Current (AMP)	Socket #SC000612 / 35A / 10-12AWG Socket #SC000624 / 25A / 12-14AWG Socket #SC000692 / 16A / 14-16AWG Socket #SC000706 / 12A / 18-20AWG
Termination Type	Crimp
Mating Cycles	<500 matings and unmatings
RoHS	Compliant

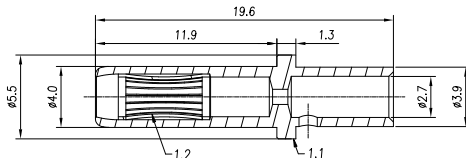
### Derating Curves - IEC 60512-5-2 Test 5b



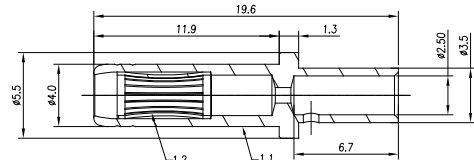
Socket #SC000612 Dimensions



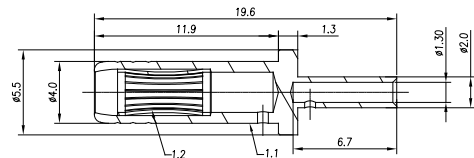
Socket #SC000624 Dimensions



Socket #SC000692 Dimensions



Socket #SC000706 Dimensions

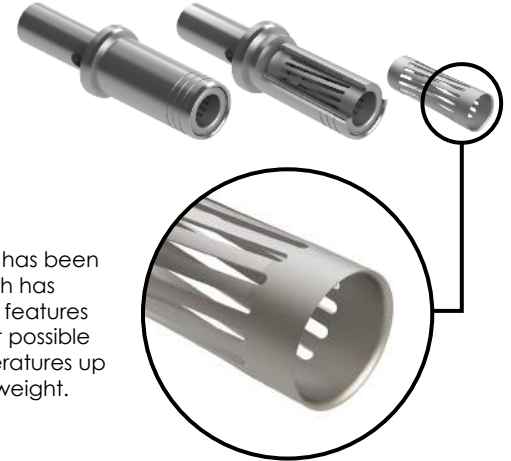




# R RADSOK® R8S

## High Voltage, High Current Contact System

The RADSOK® R8S is a further development of the extremely reliable RADSOK® contact system, which has been successfully used in industrial sectors for a number of decades. The symmetrical annular contact, which has been optimized in all areas, is comprised of a contact grid made of a beryllium-free copper alloy and features a radially-twisted lamella layout for self-cleaning. This design enables the contacts to achieve the best possible contact resistance and high corrosion resistance. The RADSOK® R8S contact system withstands temperatures up to 170°C. The new and improved contact system also boasts a high power density in proportion to its weight.



**Applications:** Industrial, Automation, Harsh Environment

### Key Features

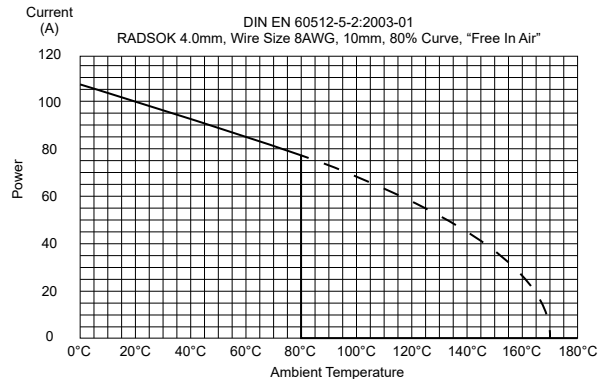
- Low contact resistance
- Higher amperage in a compact design
- Contact Area Extends 360° Around Pins
- Radially-twisted lamella layout for self-cleaning
- Withstands temperatures up to 170°C

### Technical Specifications

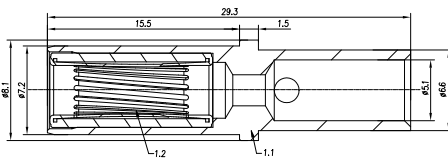
Operating Temperature	-40°C to +170°C
Contact Body	Copper Alloy, Silver-Plated
Contact Spring	Copper Alloy, Silver-Plated
Max. Current (AMP)	Socket #SC000532-6-R4 / 70A / 6-8AWG Socket #SC000532-10-R4 / 70A / 10-12AWG Socket #SC000532-14-R4 / 70A / 14-16AWG
Termination Type	Crimp
Mating Cycles	>500 matings and unmatings
RoHS	Compliant

### Derating Curves - DIN EN 60512-5-2:2003-01

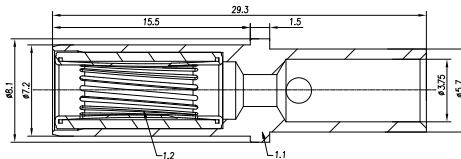
Pin #SC000531-8, Socket #SC000532-10-R4, Wire 10AWG



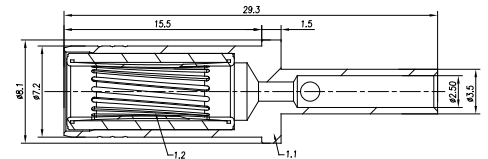
Socket #SC000532-6-R4 Dimensions



Socket #SC000532-10-R4 Dimensions



Socket #SC000532-14-R4 Dimensions



**For more information, contact:** Customer Service, +1 800 394 7732, [csr@amphenol-sine.com](mailto:csr@amphenol-sine.com)

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