

# Amphenol®



## Amphenol® NEPTUNE® Rugged Environment Connector featuring RADSOK® Contacts.

Amphenol Industrial Operations introduces a new power connector family featuring Amphenol's exclusive RADSOK® contact system. The new NEPTUNE® connector series is designed to perform in the most demanding environments.

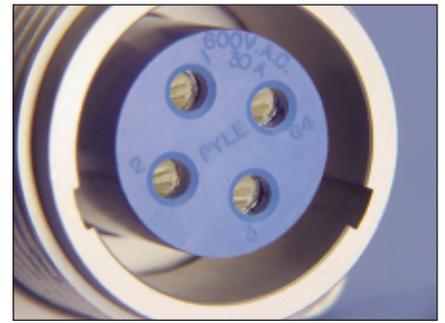
NEPTUNE® incorporates our RADSOK® contact technology. The RADSOK® system is a patented electrical terminal based on a hyperbolic grid configuration. As a male pin is inserted, the grid deflects, imparting high normal forces. The hyperbolic configuration ensures a large coaxial, face-to-face engagement area for a low milli-volt drop connection with low insertion force. The stamped grid and cylinder are very rugged, allowing for a high quantity of insertion cycles and off axis insertions.

### Features:

- RADSOK contacts provide increased amperage in smaller package
- 30 Amp through 400 Amp/600 Volt inserts available
- Decreased weight & panel layout compared to the competition
- Double lead Acme threads for easy coupling
- Machined contacts designed for longer life/mating cycles
- RADSOKs allow for lower insertion forces than standard contacts
- Three key design to limit cross-mating
- Machined aluminum dust cap for environmental protection
- Plugs utilize mechanical clamp strain relief
- VFD rated inserts
- U.L. approval pending

## NEPTUNE® PRODUCT SPECIFICATIONS

- Machined aluminum components heat resistant to 750° F
- Titanium colored Anodic plating
- Nickel Silver Alloy plated contacts
- Operating Temperature rated to -67° F to +225° F
- IP 68-8
- Resistant to 60 G's; Vibration exceeds Mil-STD-167-1



NEPTUNE® inserts utilize RADSOK® patented socket contact design

## NEPTUNE CODE LOGIC

		Receptacle Part Number	Mating Plug Part Number	Min/Max Wire Size
<b>30amps</b>	<b>2p3w</b>	NR-3023	NP-3023	#10-#14
	<b>3p3w</b>	NR-3033	NP-3033	#10-#14
	<b>3p4w</b>	NR-3034	NP-3034	#10-#14
	<b>4p4w</b>	NR-3044	NP-3044	#10-#14
<b>60 amps</b>	<b>2p3w</b>	NR-6023	NP-6023	#4-#8
	<b>3p3w</b>	NR-6033	NP-6033	#4-#8
	<b>3p4w</b>	NR-6034	NP-6034	#4-#8
	<b>4p4w</b>	NR-6044	NP-6044	#4-#8
<b>100 amps</b>	<b>3p4w</b>	NR-10034	NP-10034	1/0-#2
	<b>4p4w</b>	NR-10044	NP-10044	1/0-#2
<b>150 amps</b>	<b>3p4w</b>	NR-15034	NP-15034	1/0-#2
	<b>4p4w</b>	NR-15044	NP-15044	1/0-#2
<b>200 amps</b>	<b>3p4w</b>	NR-20034	NP-20034	4/0-2/0
	<b>4p4w</b>	NR-20044	NP-20044	4/0-2/0

All receptacles are supplied with threaded environmental dust cap

All plugs are supplied with mechanical clamp backshell and sealing grommets

All plugs are supplied less cover, however, are available as separate component

### Markets:

- Oil Exploration Equipment
- Convention Center Power Distribution
- Geophysical Trucks and Skids
- Portable Power Distribution Equipment
- Production Platforms
- Communication Shelters

### Additional catalogs of interest:

- Star-line® & Star-line EX® Harsh Environment Connectors, please ask for Catalog 12-054
- Amphe-Power® family of connectors with RADSOK® Technology, please ask for Catalog SL-391

The information contained in this data sheet is for reference only.

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