

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Amphenol®



ePower Connectors



Company Overview

Manufacturing connectors for over eight decades, we take pride that Amphenol Industrial Operations (AIO) is the undisputed leader in interconnect systems for harsh environment applications. Such applications require a high degree of engineering sophistication and precision manufacturing capability. Innovations like our RADSOK®® contact technology can provide up to 50% more current through the same size pin. Connectors utilizing this RADSOK®® technology will outperform similar products in the market hands down.

Amphenol Industrial, a division of the Amphenol Corporation, is a leading global manufacturer of cylindrical connectors. Amphenol Industrial's product lines consist of rectangular, standard miniature, fiber optic, EMI/EMP filter, and a variety of special application connectors.

Our manufacturing capabilities include state-of-the-art CNC machining, die-casting, molding, impact and extruding, plating, screw machining and process controls.

AIO also has a fully equipped material evaluation lab and an engineering support organization utilizing the latest in computer aided design software and analysis tools.

Our global manufacturing facilities include locations in Sidney, NY, Fraser, MI, Midland, TX, Shenzhen and Zhuhai, China, Winnipeg, Canada, and Nogales, Mexico.

The ePower Connector Series

This series of connectors is designed for the demanding requirements of hybrid, electric vehicles, and utility truck electrical systems, operating at 800VDC to 1000VDC with a 200A to 400A continuous current rating. The product incorporates the patented RADSOK®® technology for higher amperage, lower T-rise, less resistance and mating force. Meantime, it offers a 40% smaller footprint than three EMI shielding cable glands and easier operation of termination with shielded cable by a washer compressing the shield to the inside surface of the shell. The connector series covers 2 or 3 power contacts. As an example, one ePower 400A connector can replace three conventional connectors, saving space and cost.

The markets and application for the ePower Series include but are not limited to the following found in both the Military Aerospace and Industrial segments:

- Power converters
- · Hybrid electric vehicles
- Heavy equipment electrification
- Two and three phase motors
- Starter generators

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

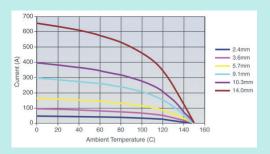
The large interface area between the socket lamella and pin surface result in very low contact resistance, enabling the RADSOK® contacts' high current ratings compared to traditional power contact designs.

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.



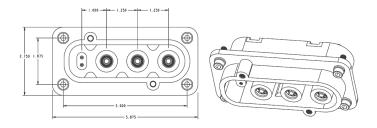


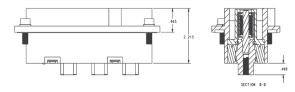
ePower Features

- Two or three circuit power
- Crimp, lug or bus bar termination
- IP2X on pin and socket
- Environmental IP67 rating
- Two HVIL circuits
- 1,000VDC rating
- Integrated EMI shielding

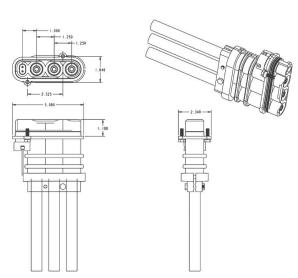
- 8.0mm 11.1mm RADSOK® technology for 200 to 400A continuous current capability
- Strain relief for jacketed cable incorporated into shell
- Excellent vibration resistance
- All aluminum shell

Receptacle





Plug



| Н | ow to | 0 | rder | | | | | | | | | | |
|--------------|--------|-----------|------------|-----------|------|-----------------|--------|-----------|-----------------------------------|--------------|--------------------------|---------|--------------------|
| 1 | | 2 | | 3 | | 4 | | 5 | | 6 | | 7 | |
| е | | Р | | 2 | | 2 | | 25 | | 1 | | 1 | |
| Product line | | Connector | | Amp Level | | Number of Poles | | Wire Size | | Key Position | | Plating | |
| е | ePower | Р | Plug | 2 | 200A | 2 | 2 Pole | ВВ | Busbar (Receptacle Only) | 1 | Available in 2 & 3 Pole | 1 | Electroless Nickel |
| | | R | Receptacle | 4 | 400A | 3 | 3 Pole | 25 | 25 mm ² (200A Only) | 2 | Available in 2 & 3 Pole | | |
| | | | | | | | | 35 | 35 mm ² (200A Only) | 3 | Available in 2 & 3 Pole | | |
| | | | | | | | | 50 | 50 mm ² (200A or 400A) | 4 | Available in 2 & 3 Pole | | |
| | | | | | | | | 70 | 70 mm ² (400A Only) | 5 | Available in 3 Pole Only | | |
| | | | | | | | | 95 | 95 mm ² (400A Only) | 6 | Available in 3 Pole Only | | |
| | | | | | | | | | | 7 | Available in 3 Pole Only | | |
| | | | | | | | | | | 8 | Available in 3 Pole Only | | |

ePower Accessories and Replacement Parts

Receptacle Cap



Plug Cap



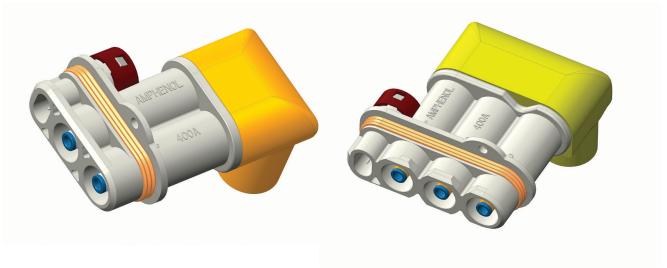
Cavity Plugs



| CODED PN | DESCRIPTION |
|----------------|--|
| CVR-43R | Cover for 3way 400A Receptacle |
| CVR-43P | Cover for 3way 400A Plug |
| CVR-23R | Cover for 3way 200A Receptacle |
| CVR-23P | Cover for 3way 200A Plug |
| CVR-42R | Cover for 2way 400A Receptacle |
| CVR-42P | Cover for 2way 400A Plug |
| CVP-400 | Cavity Plug for 400A |
| CVP-200 | Cavity Plug for 200A |
| HVIL-P-KIT | HVIL Plug side kit (signal grommet cover 10-643757-000, signal grommet 10-643754-000, signal contacts 10-040557-000, signal insert 10-643738-000) |
| PIN-11-50 | 11.1mm pin contact asm 50mm2 |
| PIN-11-70 | 11.1mm pin contact asm 70mm2 |
| PIN-11-95 | 11.1mm pin contact asm 95mm2 |
| CBL-GROM-11-50 | 11.1mm power cable grommet 50mm2 |
| CBL-GROM-11-70 | 11.1mm power cable grommet 70mm2 |
| CBL-GROM-11-95 | 11.1mm power cable grommet 95mm2 |
| CBL-CLMP-50-42 | Cable clamp 50mm2, 2WAY 400 AMP |
| CBL-CLMP-70-42 | Cable clamp 70mm2, 2WAY 400 AMP |
| CBL-CLMP-95-42 | Cable clamp 95mm2, 2WAY 400 AMP |
| CBL-CLMP-50-43 | Cable clamp 50mm2, 3WAY 400 AMP |
| CBL-GROM-70-43 | Cable clamp 70mm2, 3WAY 400 AMP |
| CBL-GROM-95-43 | Cable clamp 95mm2, 3WAY 400 AMP |
| CBL-CLMP-25-22 | Cable clamp 25mm2, 2WAY 200 AMP |
| CBL-CLMP-35-22 | Cable clamp 35mm2, 2WAY 200 AMP |
| CBL-CLMP-50-22 | Cable clamp 50mm2, 2WAY 200 AMP |
| CBL-CLMP-25-23 | Cable clamp 25mm2, 3WAY 200 AMP |
| CBL-CLMP-35-23 | Cable clamp 35mm2, 3WAY 200 AMP |
| CBL-CLMP-50-23 | Cable clamp 50mm2, 3WAY 200 AMP |
| PIN-08-25 | 8.0mm pin contact asm 25mm2 |
| PIN-08-35 | 8.0mm pin contact asm 35mm2 |
| PIN-08-50 | 8.0mm pin contact asm 50mm2 |
| CBL-GROM-08-25 | 8.0mm power cable grommet 25mm2 |
| CBL-GROM-08-35 | 8.0mm power cable grommet 35mm2 |
| CBL-GROM-08-50 | 8.0mm power cable grommet 50mm2 |
| PIN-INSL-11 | 11.1mm pin insulation |
| PIN-INSL-08 | 8.0mm pin insulation |
| FG-42R | Flange gasket 400amp 2way receptacle |
| FG-43R | Flange gasket 400amp 3way receptacle |
| FG-42R | Flange gasket 200amp 2way receptacle |
| FG-43R | Flange gasket 200amp 3way receptacle |
| RAD-11-BB | 11.0mm RADSOK® contact assembly, BUSBAR |
| RAD-11-50 | 11.0mm RADSOK® contact assembly, 50MM2 |
| RAD-11-75 | 11.0mm RADSOK® contact assembly, 75MM2 |
| RAD-11-90 | 11.0mm RADSOK® contact assembly, 90MM2 |
| RAD-08-BB | 8.0mm RADSOK® contact assembly, BUSBAR |
| RAD-08-25 | 8.0mm RADSOK® contact assembly, 25MM2 |
| RAD-08-35 | 8.0mm RADSOK® contact assembly, 35MM2 |
| RAD-08-50 | 8.0mm RADSOK® contact assembly, 50MM2 |

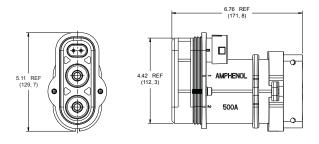
ePower Alternate Designs and Cable Assemblies

Right Angle Over Molded: ships as a cable assembly. For more information, inquire about PN ePRAXX11.



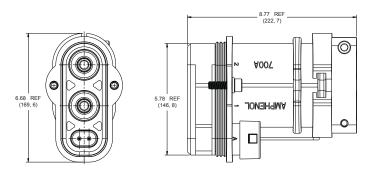
500 Amp

(3-pin design can also be done)



700 Amp

(3-pin design can also be done)



Cable assemblies:

Let Amphenol Industrial provide value added cable assemblies.

- We can design and build your ePower harnesses in Nogales Mexico or Zhuhai China.
- Ensures a quality harness with the people who know the components the best.
- Save on lead time and moving parts around with "one stop shopping".
- We buy our own bulk cable, or we can purchase your required specification.
- We can add coverings, clips, and any components you need on the other end, or we can ship blunt cut leads.
- We can do any of your low voltage cable assemblies too.
- Let us show you that we are the lowest cost alternative and best value.





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