

Discover the world Leader in
Power Solutions



Amphenol Communications Solutions's Advanced Technology

MASTERING INNOVATION

At Amphenol Communications Solutions Power Solutions, we are committed to leading the way in technology innovations around the world. Our advanced global network consists of **2 state-of-the-art test labs, 5 fully integrated manufacturing facilities** and a globally staffed R&D team which gives us the ability to provide innovative and award leading designs for our customers.

WIDE PRODUCT PORTFOLIO

Amphenol Communications Solutions's large power product portfolio offers a wide range of configurable connectors that support anywhere from 15A to over 1000A, while also maintaining a compact footprint design.

LOW CONTACT RESISTANCE

As customers drive for more efficient product designs, our proprietary silver based plating technologies, GCS® & AGT®, offer market leading high current carrying capabilities while maintaining ultra-low contact resistance.

PCB MOUNT TECHNOLOGY

Amphenol Communications Solutions has over 30 years of expertise in PCB mounting termination styles including solder-tail terminations, press-fit eye-of-the-needle technology and other customer driven solutions.

LOW PROFILE/ HIGH CURRENT DENSITY

Our connectors are designed to maximize airflow and carry the highest linear power densities on the market today. Our team of engineers is committed to maintaining this standard as they continue to develop new products.

NEW MARKET TECHNOLOGY

At Amphenol Communications Solutions, we continue to exceed customer expectations by investing in and providing cutting-edge technologies to support the ever evolving world of new markets in areas such as Industry 4.0, hyperscale computing, energy management, the 48V+ revolution and much more!

MECHANICAL

- Mating/ Unmating force
- Durability cycling
- Normal force
- ANSYS stress analysis



ELECTRICAL

- Contact resistance
- Dielectric withstanding voltage
- Insulation resistance
- Current rating/ Temperature rise



TESTING CAPABILITIES



ANALYTICAL

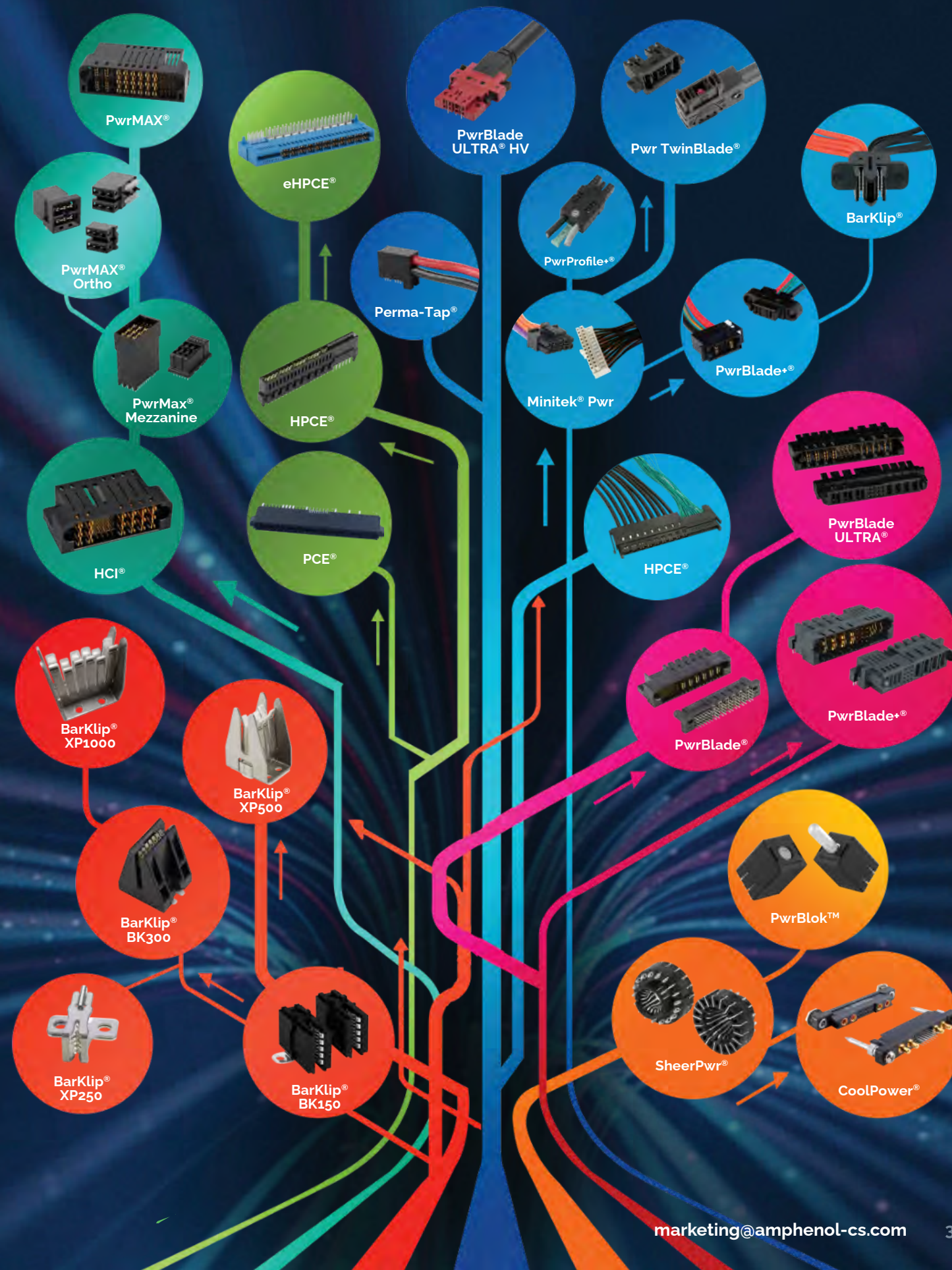
- Energy dispersive analysis
- Thermo-gravimetric analyzer
- Thermo-mechanical analyzer
- Atomic absorption



CLIMATE/ ENVIRONMENTAL

- Thermal Shock
- Gas Flow Corrosion
- Mechanical Shock
- Temperature/ Humidity

Standard Product Portfolio





**INNOVATIVE
SOLUTIONS
YOU CAN
COUNT ON**

No matter what the power need may be, Amphenol Communications Solutions has a solution for you!

Our Power Solutions team is dedicated to standing by you every step of the way from concept and design to prototype and final production, in order to fulfill your custom connector requirements.



POTENTIAL UNLEASHED

Our Power Solutions team is maximizing performance in data centers with custom hybrid connectors

POWER
PwrMAX® delivers up to 500A per linear inch

DENSITY
Highest density power & signal blind-mate connector on the market

HYBRID
Combines both AC & DC contacts in one connector

APPLICATION
Data Centers

PROBLEM
A data center application needed one connector capable of carrying both AC and DC power contacts

SOLUTION
Our engineers created the concept of a hybrid cable/board mount AC-DC connector which allowed the application to combine both low and high voltage in a single connector while saving precious real estate in the system

Meet PwrMAX®

The PwrMAX® connector offers **highly configurable** power and signal contacts

PwrMAX® can carry up to 120A per contact and also features our **innovative GCS®** plating technology which provides ultra-low resistance and promises reliable efficiency

Cable/board hybrid connector provides capabilities for a **2-in-1 AC/DC** current connector for applications with space constraints

CONNECTING THE WORLD WITH EXCEPTIONAL SOLUTIONS

See why the networking world turns to Amphenol Communications Solutions for reliable and innovative Power Solutions



Setting The Bar In ENERGY MANAGEMENT WITH NEXT-GENERATION POWER SOLUTIONS

With Next-Generation Power Solutions



APPLICATION
Telecommunications/
Networking

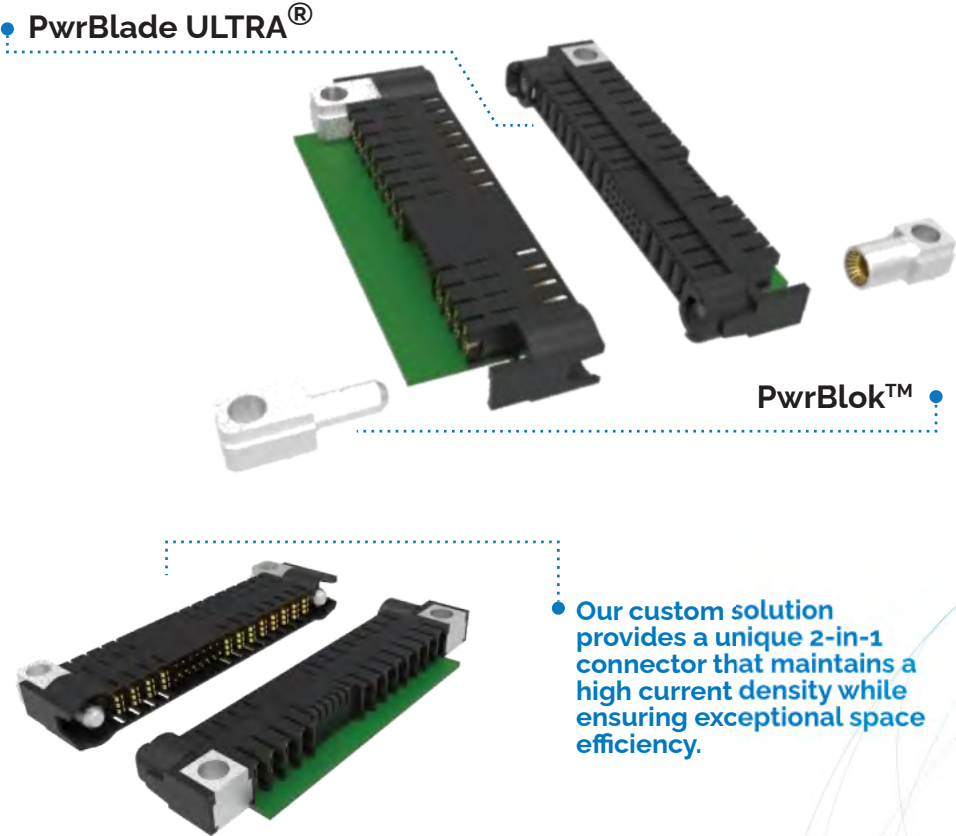


PROBLEM
A telecommunications power application required a unique connector which could carry over 100A and stay within specific space limitations



SOLUTION
Our engineers created a custom connector made with components from our popular PwrBlade ULTRA[®] and PwrBlok[™] connectors. The end result gave the added performance and functionality that was needed.

Thinking Outside The Box



Our custom solution provides a unique 2-in-1 connector that maintains a high current density while ensuring exceptional space efficiency.

Amphenol Communications Solutions Knows Energy!

Our advanced team of engineers is researching and developing ruggedized, reliable, and high-voltage solutions to connect the world of renewables. Whether the application is needed in power generation, transmission, or distribution, we can help provide a unique solution specific to your power needs.



Meet BarKlip[®] I/O

- Mates directly to busbar applications
- Up to 200A/contact
- AGT[®] plating for low resistance
- Ultrasonically welded to provide greater overall efficiency



Meet PwrBlade ULTRA[®] HV

- 400V DC working voltage
- Touch-proof housing design
- GCS[®] plating technology for ultra low resistance
- Squeeze-to-release latches



Meet CoolPower[®]

- Ultra-low contact resistance at 0.25mΩ
- Capable of carrying up to 250A/pin
- Radsok[®] contact technology

Global Footprint

Americas

- Valley Green, Pennsylvania (HQ)
- Austin, Texas
- Guadalajara, Mexico
- Mexicali, Mexico
- Nashua, New Hampshire
- Raleigh, North Carolina
- San Jose, California
- Seattle, Washington
- São Paulo, Brazil
- Toronto, Canada

Europe

- Barcelona, Spain
- Besançon, France
- Berlin, Germany
- Oberursel, Germany
- Jerusalem, Israel
- Stockholm, Sweden
- Tatabánya, Hungary
- Torino, Italy

Asia

- Beijing, China
- Dongguan, China
- Nantong, China
- Shanghai, China
- Shenzhen, China
- Hong Kong
- Taoyuan City, Taiwan
- Bangalore, India
- Chennai, India
- Cochin, India
- Pune, India
- Osaka, Japan
- Tokyo, Japan
- Suwon, Korea
- Penang, Malaysia
- Senai, Malaysia
- Asean, Singapore
- Jurong, Singapore
- Bangkok, Thailand

CONNECTING THE WORLD WITH EXCEPTIONAL SOLUTIONS

Our power solutions team around the world is committed to delivering only the most innovative and reliable solutions to best fit your needs

Amphenol

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