

# Shoals Air Link

PART OF OUR CRITICAL INFRASTRUCTURE SERIES

As data center power demand accelerates, driven by AI and high-density compute, developers face growing pressure to deliver reliable power at speed. Tight timelines, labor constraints, and evolving rack architectures are increasing the need for power distribution solutions that are simpler to install, easier to manage, and built for long-term reliability.

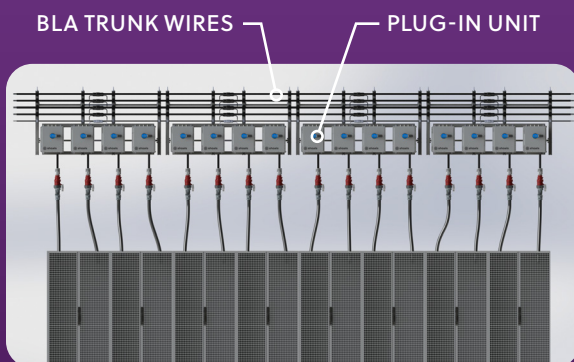
Inside the white space, power distribution must support higher densities without adding complexity. Shoals' wiring solutions are designed to simplify installation, maintain clean and organized layouts, and deliver the standardization, scalability, and flexibility needed for modern data center infrastructure.

## What Is Shoals Air Link?

Shoals Air Link is a hybrid alternative to traditional busway and PDU whip solutions, designed to deliver 3-phase AC or DC power to IT racks inside the data center white space.

Built for speed, simplicity, and scalability, Shoals Air Link combines prefabricated trunk wiring, modular supports, plug-in units, and feed units into a complete power distribution solution for two redundant circuits.

With Shoals' proven expertise in high-current power distribution, Air Link supports cleaner layouts, faster deployment, and reliable, flexible power delivery for modern data centers.



## How Does Shoals Air Link Work?



Shoals Air Link delivers power from two redundant electrical panels through suspended BLA trunk wires that run across a full row of IT racks, supporting either 3-phase AC power or future 800V DC architectures.



Each rack is served by a dedicated drop line collected in a plug-in unit, allowing the IT rack to connect directly to an outlet mounted on the plug-in unit for a clean, organized, and modular white space layout.



All components are factory-built, labeled, and delivered ready to install, helping reduce onsite labor, shorten timelines, and improve consistency and quality.



The support system maintains spacing between trunk wires to enable free air ampacity to allow the system to safely carry the required power using smaller wire sections.



Each circuit is designed to deliver up to 885 A, supporting up to 735 kW at 480V AC or 708 kW at 800V DC, with a modular design that can double the number of wires to increase ampacity for longer rack rows while maintaining full redundancy.

## Key Benefits



### Enable AC and next-gen DC architectures

Support both 480V AC and future 800V+ DC applications with a flexible platform designed for evolving rack power requirements.



### Ensure long-term safety and reliability

Replace sectional busway systems with continuous trunk wires and protected molded drops to eliminate vulnerable field junctions, reduce maintenance, and improve long-term performance.



### Optimize design and reduce project risk

Streamline white space layouts with a standardized, prefab solution that reduces connection points, minimizes equipment, and lowers margin for error.



### Improve availability and simplify procurement

Partner with a single trusted domestic supplier for a complete solution in a market often constrained by long lead times.



### Ensure quality and consistency

Rely on in-house engineered, prefabricated, labeled components that are installation-ready for more consistent execution and dependable field performance.



### Support higher power density and growth

Leverage free-air ampacity and modular design to carry higher current for longer rack rows and support rising AI rack densities without increasing complexity.



### Lower costs without sacrificing performance

Use copper to maximize ampacity while reducing material use and weight by more than 30% versus traditional busway.



### Deliver redundancy more efficiently

Provide full electrical redundancy more efficiently than busway systems, reducing overhead weight and space requirements.



### Accelerate deployment and lower total cost

Speed installation with prefabricated, labeled components that reduce onsite labor and cut total installed cost.

## Why Shoals?



### Extensive high-voltage DC power expertise

Since 1996, Shoals has led the 1500 V renewable energy space with cutting-edge technologies and innovative power distribution solutions for DC architectures.



### Leader in EBOS and power distribution solutions

Customizable, plug-and-play systems reduce material, labor, installation, and O&M costs across the system lifecycle.



### Engineering capabilities and long-term care

Our engineering and customer care teams offer continuous support to optimize data center layout and performance.



### Both standardized and customized solutions

We offer standard options or collaborate with you to customize our solutions to meet your data center project's unique needs.



### Innovation is in our DNA – Inventing Simple

With 67+ patents worldwide, we keep innovating to meet the evolving needs of critical power infrastructure.



### Simplified procurement

We offer an extensive portfolio of power distribution solutions for your critical energy infrastructure needs.



### Proudly made domestically, in Tennessee

Our products are manufactured locally to ensure quality, precision, and reliability.



## Contact Us

Optimize your data center projects with Shoals' expert advice. Discuss your goals and share your drawings to unlock Shoals Air Link and our other power distribution solutions.

[Connect with us](#) today.

