

Interconnect System with **bla**



SHOALS00002239

Affordable v. Camoria
Ex 2068
IPR2024-00139
J. WEINER
CY 14316 11/12/24

Affordable v. Camoria
Ex 2062
IPR2024-00178
J. WEINER
CY 14316 11/12/24

Shoals Technologies Group, LLC
EXHIBIT 2024
Voltage, LLC v.
Shoals Technologies Group, LLC
IPR2024-00876
CAB, EX2062

IPR2024-00178

BLA

• REDEFINING SIMPLE

What is the BLA?

The BLA (Big Lead Assembly®) takes all the guesswork out of wiring your solar field. Making use of the Shoals in-line fuse and wire welding manufacturing process, we can offer a site that is free of DC string combiners, all of the load is combined in the large conductors that typically run between the string combiner and the inverter. No need to trench for DC feeders or hang string combiner boxes. And when booted with BAC connector, the entire array is plug-and-play, plug in the panel strings, plug into the inverter.

- ✓ Simple plug-n-play design for easy installation
- ✓ No need to trench or hang string combiner boxes
- ✓ Reduce the specialized labor required



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Traditional Wiring...

Kept neat within CAB hangers or rack,

but a LOT of wire.



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CAB, EX2062
IPR2024-00178

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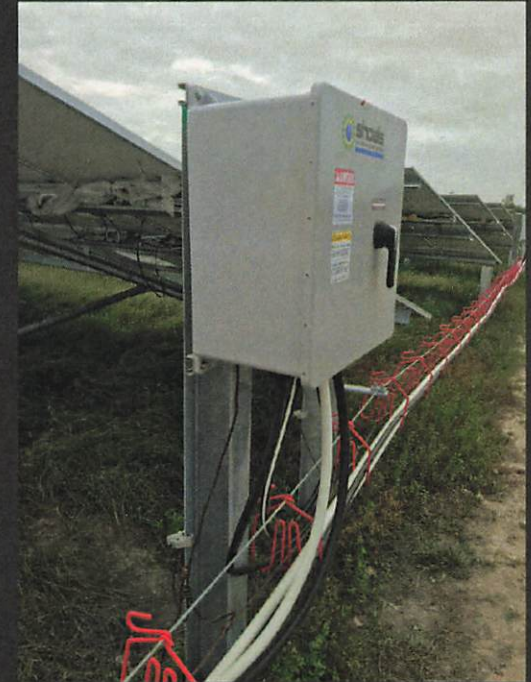
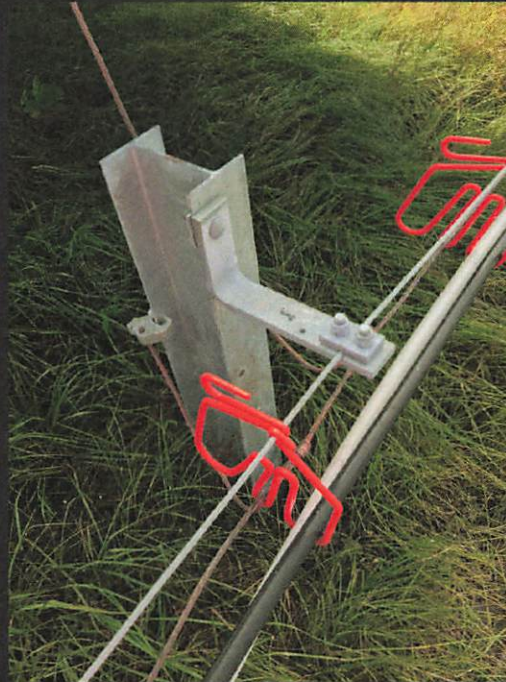


TRENCHING...
the current trend,
but expensive.



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Wire is **SIGNIFICANTLY** reduced
with the **BLA**



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BRINGING WIRING OUT OF THE TRENCHES.

CAB SOLAR WIRE MANAGEMENT SYSTEM

From the Cambria County Association for the Blind & Handicapped

- ✓ Galvanized high-tensile spring steel
- ✓ All surfaces coated with PV plastisol, high dielectric grade, UV stabilized and flame retardant

SHOALS00002244



Beyond wire management.

What can the BLA replace?

The BLA combines the function of: 1- cable assembly, 2- combiner box, 3- external fuses, and 4- re-combiner. It removes the need for combiner boxes, trenches, re-combiners, and double wide power stations. Factory manufactured and quality guaranteed, the BLA eliminates field O&M torqueing needed in combiner applications. When you need to disconnect the power in the field or make a parallel connection, the BLA disconnect box can provide the ability to work on most connections within the PV array.

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**CAB, EX2062
IPR2024-00178**

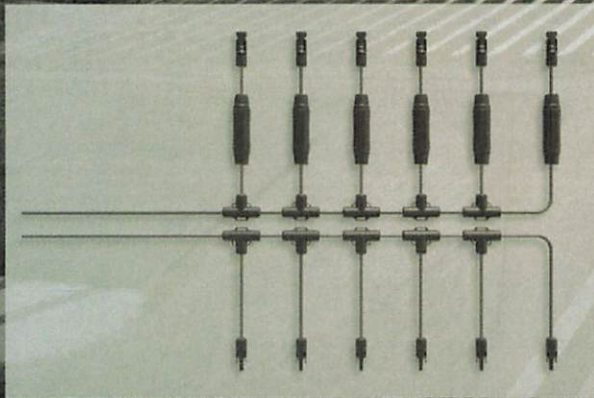
7 of 13

CX-0144.0007

Here's what you need.

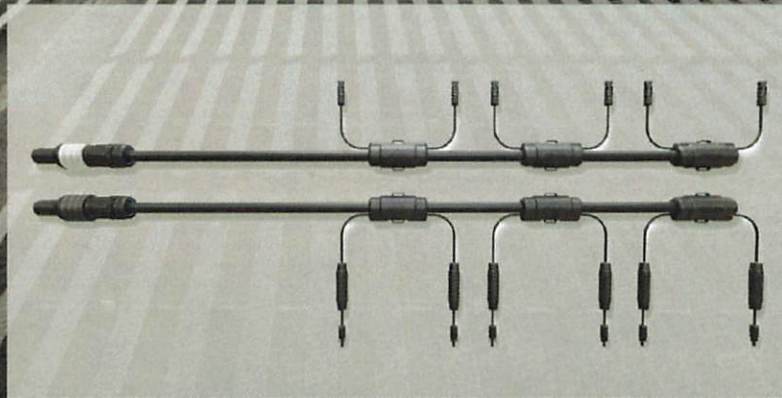
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Interconnect Harness



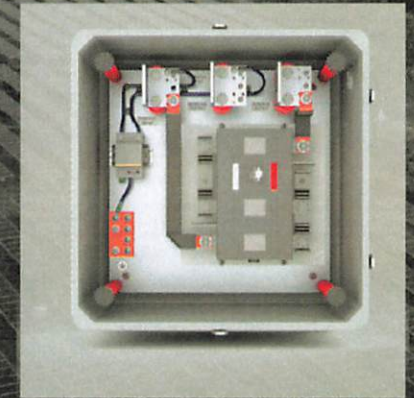
02

BLA



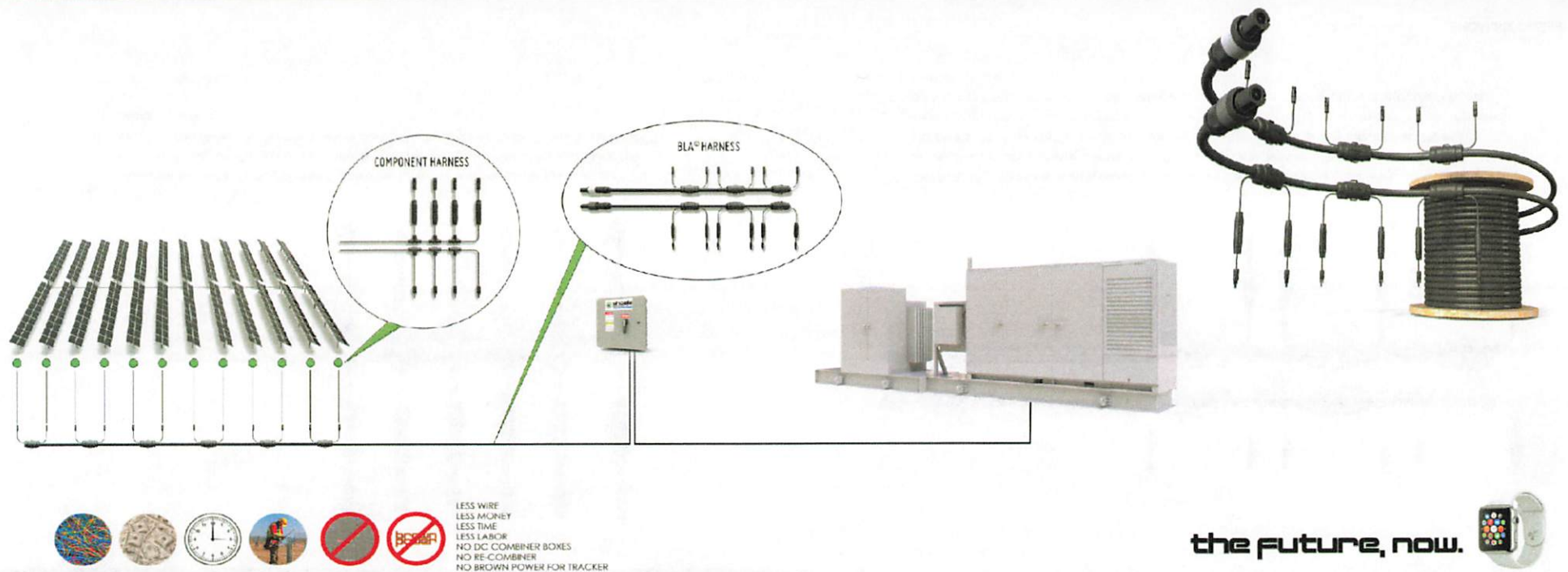
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Disconnect Box



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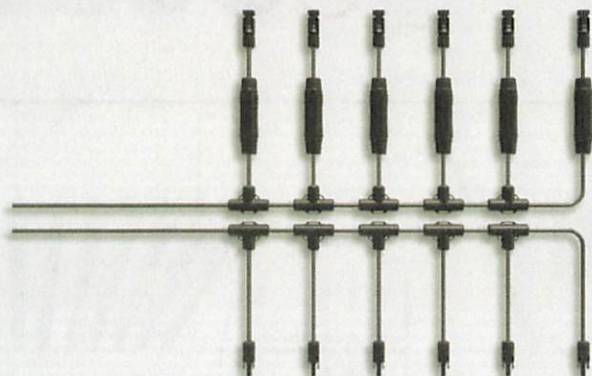
The BLA is simplicity at it's best.



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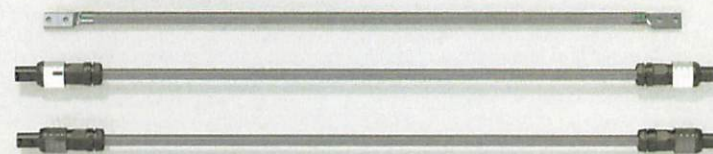


Interconnect System



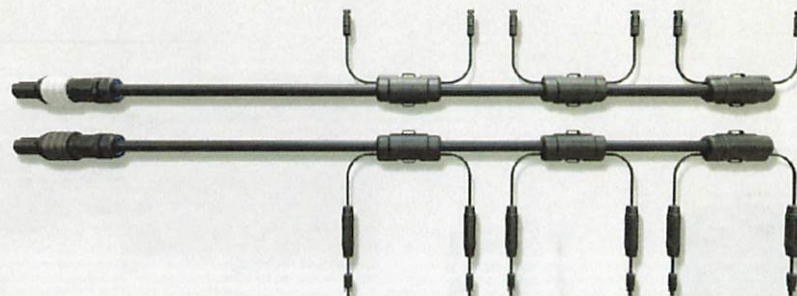
inline fuse harness

Maximize the current rating of the DC combiner fuse holders and reduce the number of DC combiner boxes on site. By using a Shoals Harness that incorporates Shoals In-Line fuse, installers can pre-combine strings before the combiner box. First Solar Series 4 and Series 6 design available.



Dc feeders

Shoals can supply the larger conductors that run from the string combiner to the inverter or re-combiner, cut to length and outfitted with any style lug required on site. It can also be ordered with the BAC connector so there is never any need to torque check which reduces O&M time and costs



bla

The BLA (Big Lead Assembly®) takes the component harness to a whole new level. Making use of the Shoals In-Line fuse and wire welding manufacturing process, we can offer a site that is free of DC string combiners, all of the load is combined in the large conductors that typically run between the string combiner and the inverter. No need to trench for DC feeders or hang string combiner boxes. And when booted with BAC connector, the entire array is plug-and-play, plug in the panel strings, plug into the inverter.

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Interconnect System

HARNESSES

Shoals' patented Interconnect System™ and home run harnesses reduce the specialized labor required in your installation, making the integration of solar panels a breeze.

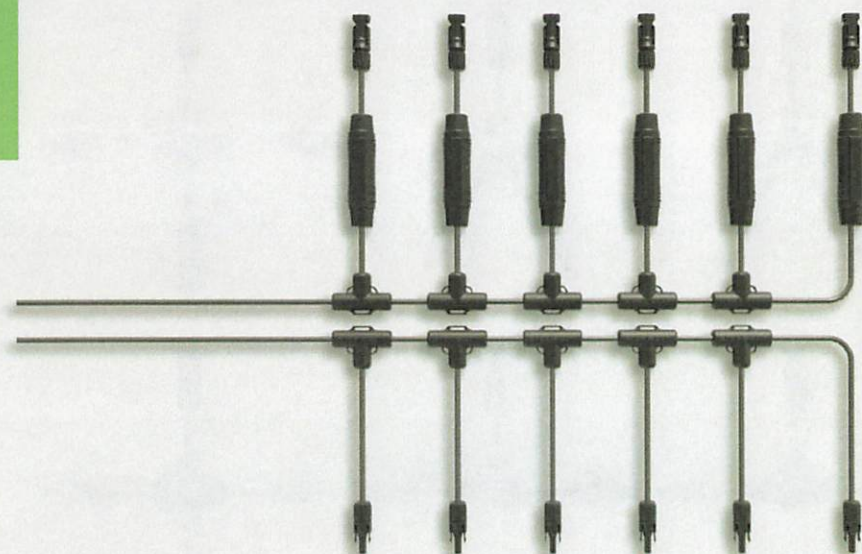
Whether purchased separately or pre-installed in the combiner box to streamline installation, Shoals homerun harnesses and Interconnect System™ are perfect for any PV project.

FEATURES

- Resistance welded joints
- Patented chemically bonded over-molding process
- Custom manufactured to the installation
- Pre-labeled to decrease installation time and errors
- Certified to UL9703 for 600V, 1000V & 1500V systems

BENEFITS

- Reduced potential points of failure
- Reduced maintenance costs
- Line failures reduced over 90%
- Average 20% reduction in labor cost
- Average 50% reduction in material cost



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Interconnect System



WHIPS

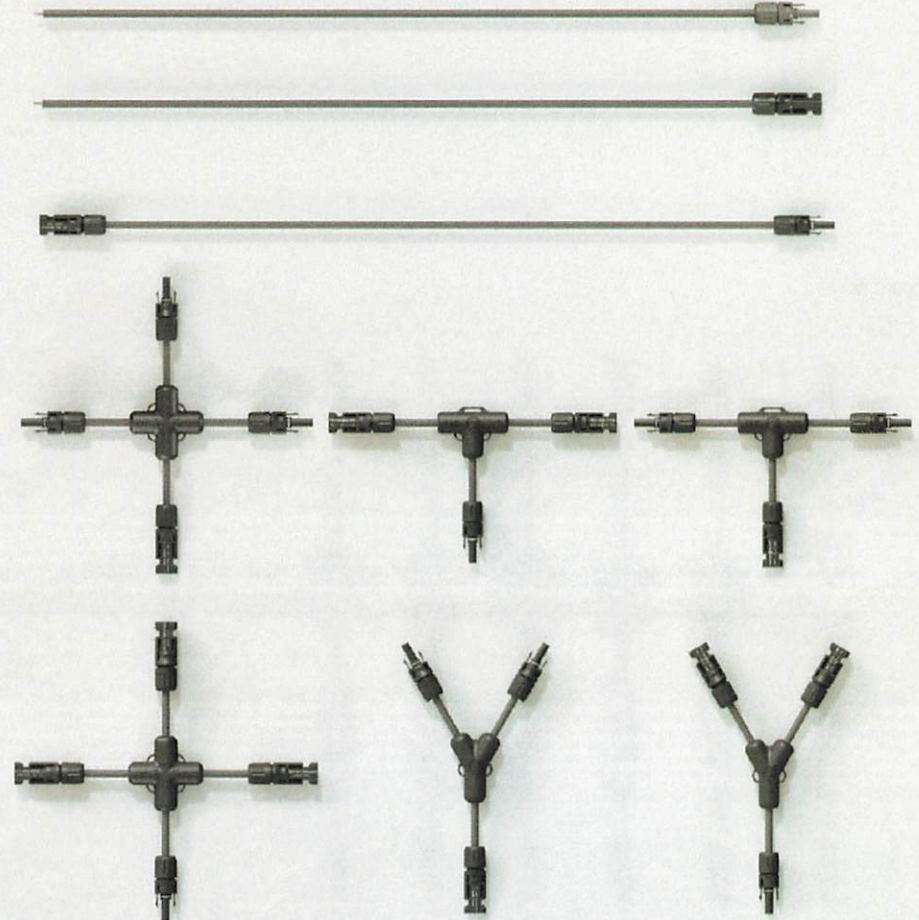
A method of connecting a terminal to a connector. A typical use would be from a combiner box to a string of panels.

JUMPERS

A method of connecting two components with connectors. A typical use would be connecting strings between two rows or connecting a string to a Shoals combiner box with pre-installed pigtails.

BRANCH CONNECTORS

A method of combining multiple wires without the need for in-field splice. This patented device helps increase efficiency on site while reducing the amount of wire and number of combiner boxes needed.

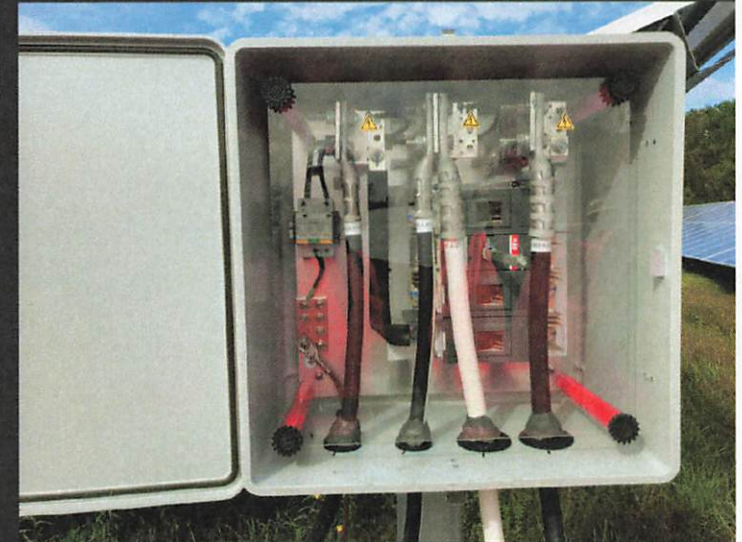


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Not combiners, but disconnects.

When you need to disconnect the power in the field or make a parallel connection, the BLA disconnect box can provide the ability to work on most connections within the PV array.



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