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CAB® Solar Cable Management



Proven Performance for over 45 Years in Above Ground Cable Management for the Electrical Industry. Now with Durable, Cost Effective Integrated Grounding Option.

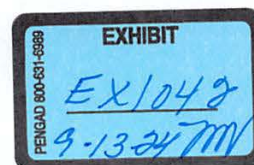
CAB® Solar Cable Management delivers safe, strong and durable support for all types of wiring in utility scale, ground-mount solar power plants.

CAB®'s patented cabling system has gained wide attention and acceptance because it is quick and easy to install and provides large labor and material savings on solar projects. It is far more cost effective than trenching or cable tray.

CAB®'s high quality multi-carrier hangers safely separate bundles of cables to meet NEC requirements. The innovative design, which incorporates a thick plastisol coating, provides a strong, tight grip of the hanger to the messenger wire. This prevents slippage or movement of hangers over the life of the project. Numerous designs are available to safely support large bundles of string wires and DC feeders, as well as various AC,

CAB®'s new Solar Cable Management with Integrated Grounding offers significant cost savings in:

- Engineering
- Installation Labor
- Materials
- Long Term Maintenance



<https://www.cabproducts.com/solar/>

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data or other cabling. Custom configurations are also easily manufactured to meet specific project requirements.

Standardizing Cable Management with CAB® Solar helps to lower engineering costs in a developer's portfolio of projects. In addition, it provides much more predictable costs of installation compared to other wire management options.



Engineering Benefits and Cost Savings

✓ Large cost savings on labor and materials.
✓ Quicker installation time. Speeds project completion.
✓ Integrated Grounding can provide EGC and GEC. Eliminates separate grounding conductor and jumpers.
✓ Very easy to install. No special hanger tools or machinery needed.
✓ Cables held securely in hanger with two strong locking top loops. No chance for cables to fall out of open carriers.
✓ Heavy PVC coating protects cables. No sharp edges on hangers.
✓ Most predictable cost. No overruns due to equipment problems, construction issues, hard rock, high water table, etc.
✓ No expensive delays from flooded trenches, deep mud.
✓ Benefits environment. Less digging, soil run-off, site disruption.
✓ Rodents won't nest in cabling, causing potential fires.
✓ All wiring easily accessible. Simplifies upgrades, maintenance and troubleshooting for life of project.
✓ Ideally suited for brownfields, landfills, rocky sites, high water table locations, ballasted installations.
✓ CAB's excellent personal service eases design, ordering, shipping.
✓ Custom configurations available for specific requirements.
✓ Standardized cable management across entire portfolio of projects greatly reduces engineering costs.
✓ Decommissioning requires no special equipment; no environmental impact. Much lower cost.

High Quality Construction for Long Term Reliability and Safety

CAB® Hangers are manufactured from Class 3 galvanized, high tensile strength spring steel for maximum strength and corrosion resistance. All hangers receive a thick PVC coating that provides added safety and protection for cables. The high performance coating is applied on 100% of the surface which makes hangers totally insulated and durable in highly corrosive environments. The coating also makes hangers easier to handle and install which reduces installation time.

<https://www.cabproducts.com/solar/>



CAB® Integrated Grounding eliminates the need to run a separate grounding conductor and grounding jumpers to all mid piers. The patented design includes a custom engineered messenger wire, clamps and mid pier brackets. CAB®'s Integrated system can provide both the Equipment Grounding Conductor (EGC) and the Grounding Electrode Conductor (GEC), and now includes #1, #2, and #3 Equivalent Options. The system meets NEC and IEEE standards, and is ETL Safety listed by Intertek to UL 2703.



Cable Management with Integrated Grounding

SAFE, STRONG, DURABLE

Proven Performance:
45 Years in Electrical & Utility Industries



- ✓ Large Cost Savings
- ✓ Speeds Installation
- ✓ Cuts Engineering Costs
- ✓ Can Provide GEC and EGC
- ✓ Simplifies Electrical Design

Innovative, Award-Winning CAB Solar
for Superior Performance in Ground Mount Arrays






[Click to open and print brochure above.](#)

CAB®'s thick, heavy-duty PVC coatings are flame retardant, chemical resistant and UV stabilized for long service life. CAB®'s standard color is high-visibility orange.

CAB®'s Solar Cable Management System is ETL Safety Listed to the following Safety Standards: UL 2239, UL 1565, CAN/CSA C22.2 No. 18.4-15, and C22.2 No. 18.5-13. CAB's Integrated Grounding System meets NEC and IEEE Standards per HDR Electrical Report and is ETL Safety Listed to UL 2703.

Quick and Easy Installation

CAB®'s Cabling System is installed by running a high strength messenger wire that is mounted to mid pier and end pier brackets in the solar array. Individual CAB® hangers are then attached to the messenger wire at preset intervals. CAB®'s innovative design provides a strong, tight grip of the hanger to the messenger wire to prevent slippage. Cables are easily loaded in the hanger and safely separated to meet the NEC.

Numerous CAB® designs are offered to safely support large bundles of string wires, DC feeders, as well as AC, Data or other cabling. Custom configurations are easily manufactured to meet specific project requirements.



CAB® Hangers (pictured above) are open and ready to receive additional cables. Once loaded, hangers are easily closed and locked in place on the messenger wire. No special tools needed. Hangers may be opened again to add cables, perform maintenance or upgrade the system.



CAB® Solar is dedicated to developing innovative solutions for the solar industry. Our ongoing efforts have been recognized over the years with accolades and awards from respected industry associations and leading trade publications. These include:

- 2021 Solar Innovation Award in BoS – *pv Magazine*
- Top Products of 2019 – *Solar Power World*

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- **2018 Showstopper Award** – *National Electrical Contractors Association*
- **50 Top Array Changing Technologies** – *pv Magazine*
- **Finalist Intersolar Award 2014** – *Intersolar Europe*

CAB® Solar products are manufactured by the Cambria County Association for the Blind and Handicapped in Western Pennsylvania, USA. It is an honor to be recognized by so many different experts in the solar industry worldwide. We express our gratitude to our professional staff and our employees with disabilities who have worked so hard to make CAB® Solar a successful partner not only to the solar community, but also to the electrical & utility, traffic & communication, mining & tunneling, shipbuilding & marine, pipeline, custom sewing & safety industries. Thank you to all.

Torque Tube Hangers
Quick and Easy Under Panel Cable Management
Patent Protected: www.cabproducts.com/patents

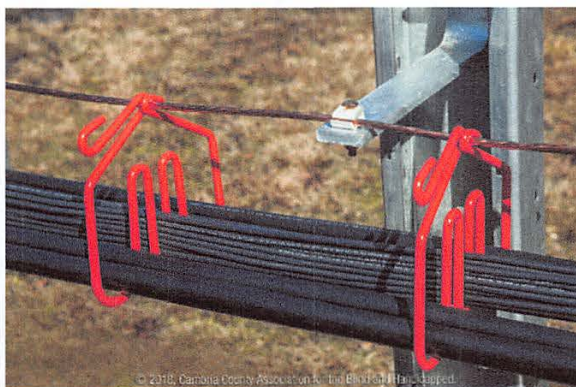
Reduces shading in bifacial panel projects.

CAB® Torque Tube Hangers offer a sturdy long-term solution for under panel cable management. Supports large bundles of cables easily and effectively. CAB® Hangers help reduce installation costs and simplify future project maintenance.

- ✓ Safely manages all types of cables under solar panels.
- ✓ Designed with innovative features for quick installation over many styles of torque tubes or fixed tilt structures.
- ✓ Easy installation requires no tools.
- ✓ Greatly reduces labor time compared to cable ties, clips or clamps.
- ✓ In seconds, hangers can be installed and cables loaded.
- ✓ Spiral carrier securely retains cables or cable bundles.
- ✓ Hangers simplify upgrades, maintenance, and troubleshooting.
- ✓ Custom designs available for many torque tubes or fixed tilt structures.

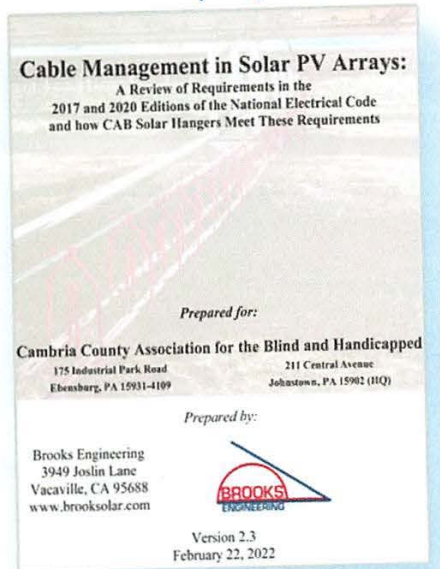
CAB® Torque Tube Hangers offer a sturdy long-term solution for under panel cable management. CAB® Torque Tube Hangers install quickly and easily with no tools required. This greatly reduces labor time compared to cable ties, clips or clamps. The spiral design holds large bundles of cable safely and securely. Multi-carrier styles are available. CAB®'s patent protected Torque Tube Hangers simplify upgrades, maintenance and troubleshooting. Highly effective in bifacial panel projects. Custom designs are also offered.

[Click for CAB® Torque Tube Hanger Info Sheet](#)



[Click to Meet our CAB® Solar Sales Team.](#)

Bill Brooks Engineering White Paper, updated February 22, 2022



"In summary, the use of purpose-built products like the CAB® Solar Hangers for the exposed cable management in a PV array is well substantiated by the NEC and industry installation standards.

"Multiple sections, such as those in various configurations of CAB® Solar Hangers, create effective separation of conductors that allow for dc, ac, and communications cables to be supported with a single hanger type.

"(The) CAB® Grounding Messenger Wire can provide for equipment bonding and grounding as needed in the PV system."

— Bill Brooks, *Brooks Engineering White Paper*

[Click here for White Paper](#)

Bill of Materials

CAB® Solar Cable Management offers many options.

We recommend a specific Bill of Materials for each project. Our solar staff can assist you in selecting the proper size hangers, L-brackets and messenger wire. Tim Wedding is our Director of Solar Development. Please [Click Here](#) to request his assistance, or call 814-536-3531.



[Click for Photo Gallery of CAB® Solar Installations](#)

[Click for Brief Video of a CAB® Solar Installation](#)



CAB® Solar Hangers are very effective in tracker, ballasted or fixed installations. These patented hangers have been installed worldwide in over 100 GW of solar power plants ranging from Australia to Mexico, Chile and Canada, as well as throughout the US and Hawaii. They perform in all environments from frigid cold to extreme desert heat. (Pictured CAB® #9294 or 9557 PVC Coated Cable Hanger)

Solar Engineer Testimonial:

"CAB® Cable Rings and Saddles offer benefits over traditional conductor routing techniques. Our field installations demonstrate that CAB® Cable rings provide improved installation time and robust support for the life of the system. We find increasing benefits in layouts with a larger number of parallel conductors."

-Bill Novak, P.E., Tropenas Company, President & Chief Engineer, TN, NC, SC, GA, KY, MD, MS, AL
Licensed Professional Engineer, NABCEP Certified Solar PV Installation Professional

[Click to Request Comprehensive Electrical Engineering Report on CAB®'s Integrated Grounding System](#)

[Click to request more information or free samples.](#)



CAB®'s innovative multi-carrier hangers safely separate bundles of cables to meet NEC requirements.

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