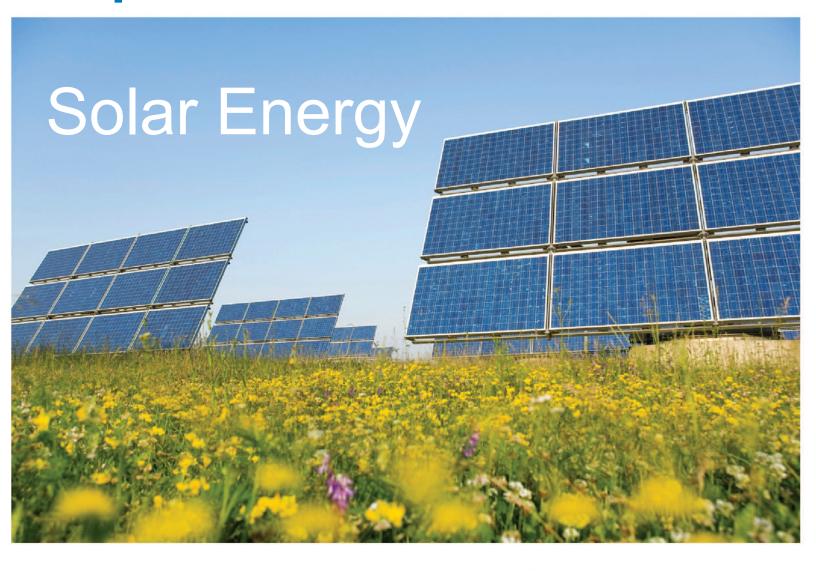


Amphenol®





SOLAR market

At Amphenol we understand that the solar power industry has unique interconnect needs. We know that solar power systems are in service for more than 20 years in some of the harshest environments on the planet, whether residential or commercial.

Amphenol's Helios solar products withstand:

- UV
- Ozone
- Hydrolysis
- Oil, chemicals
- Abrasion, corrosion
- Temperature extremes

Amphenol offers products and solutions for all segments of solar energy, including crystalline silicon PV, thin-film PV, concentrated solar power or solar thermal power generation. Whether you need connectors, cable, cable assemblies, or junction box, we have the right solution for your solar power application. We understand the needs of the solar energy industry and design our products for reliability and lowest power loss.

We also know that you need a partner with a global footprint for service and support. Amphenol has over 85 facilities in 30 countries to support your needs globally.

Amphenol's background in producing high reliability connectors for the harshest environments on Earth and in Space gives us the unique experience needed to produce extremely reliable, cost effective products for solar energy applications. If you need a customized solution, our engineers will work with you to produce the right customized interconnects for your application.

Amphenol connectors are approved by UL, TÜV, and other international standards.

Amphenol can help you power the planet with the sun.

PRODUCT focus





HELIOS H4 CONNECTOR

Provides reliable interconnection between panels and other system components. Precision machined contacts with RADSOK® technology for lowest power loss. UV and ozone resistant materials for 25 year life. With a safe NEC 2008 compliant locking system, this is the most advanced solar connector in the industry.





HELIOS BULKHEAD CONNECTOR

Used for inverter or combiner box applications, with D-hole mounting and a sealing gasket.





HELIOS H4 CABLE ASSEMBLY

Our cable assemblies are available in standard or custom lengths. Incorporating Helios H4 connectors and rugged low loss Helios Power-Link solar cables.





HELIOS OVER-MOLDED H4 CABLE ASSEMBLY

Our rugged over-molded H4 cable assemblies are designed for applications where additional durability is required. Available in standard and custom lengths.





HELIOS POWER-LINK SOLAR CABLE

Designed for maximum efficiency & durability, our high performance double insulated PV cable meets UL4703 and TUV 2 PfG 1169. Fine stranded, tin plated copper conductor, cross-linked high temperature polymer jackets.



HELIOS ARMOR-LINK ARMORED SOLAR CABLE

Our Armor-Link cable has the same performance characteristics as our Power-Link cable but with the additional benefit of armor for rodent resistance. Designed to meet UL4703 and TUV 2 PfG 1169.





HELIOS MODULAR SILICONE JUNCTION BOX

Hermetically sealed over-molded design with fully potted connection window. Designed for fully automated placement and connection. Large heat exchange areas prevent thermal runaway even at the highest ambient temperature.



HELIOS THIN-FILM JUNCTION BOX

Space saving, low profile, hermetically sealed over-molded design. Optimized for automated placement and connection.





HELIOS CUSTOMIZED JUNCTION BOX

We understand that certain solar installations require a customized junction box, we will work with your engineers to design the junction box necessary for your specific application.





SUN MATE

Our SUN MATE series integrates a junction box & connector system into a single low cost unit, the system is ultralow profile & designed for use in fully automated production lines.





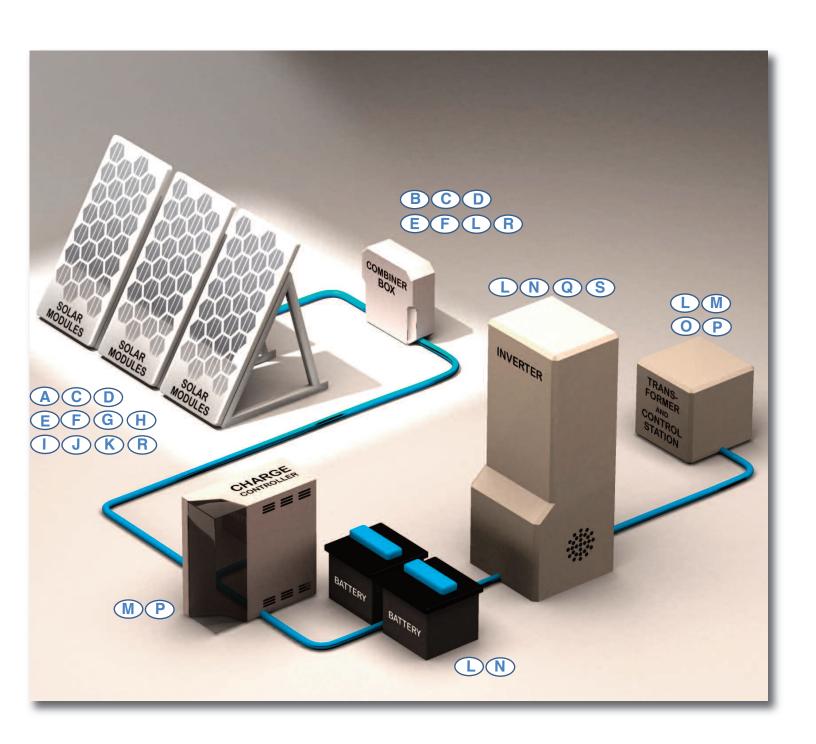
HELIOS H4 ASSEMBLY TOOL SET

All tools required to make reliable connections in the field and in the shop, including crimping tool, stripping tool, assembly tools and an assortment of spare connector parts.



SURLOK

Ideal for any power distribution application that uses high current, frequently plugged and unplugged cables or a "plug and play" setup in busbars, PC boards and cable assemblies.





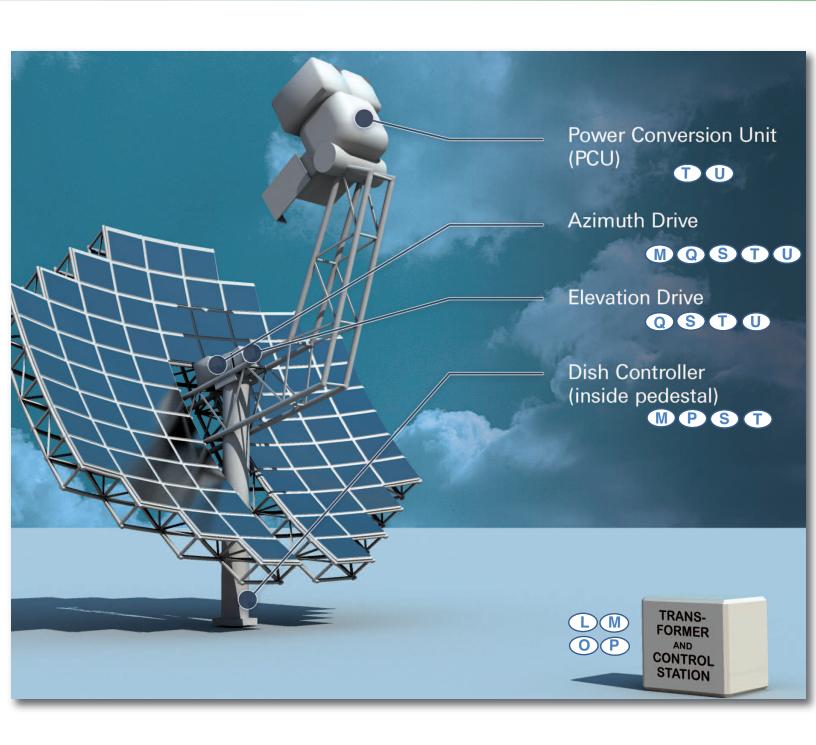






















PRODUCT focus





M23 & M40 SERIES

The professional standard for motion control, commonly used for suntracking motor systems and other motor interface applications.



GROUND MATE

With the new GROUND | MATE series, Amphenol is able to replace the now used PE connections, made up of ring terminals in electrical cabinets, with pluggable contacts. By using the well-known and field-proven Radsok® technology in combination with the click | fit locking device, a high-current carrying capacity is achieved. Owing to different locking parameters, it is possible to connect GROUND | MATE contacts with pins or threads.





C146 SERIES

Typically used in power inverter stations in a solar farm, these connectors offer power, signal, ethernet, and fiber in any combination desired.





C091 SERIES

Used in automation, test and measurement, medical, sensors and telecommunications. Their proven design and performance make these connectors a recognized industry standard. They are available with a screw or bayonet locking system. Receptacles are available for front or back-panel mounting and offer a variety of connection possibilities.



C16-3 CIRCULAR CONNECTOR

Designed to meet the high-performance requirements of harsh-environment industrial applications. The range includes versions with screw and crimp terminations. A selection of crimp contacts for hand crimp tools and for crimp machines enables a reliable termination resulting in qualitative, technical, and economic advantages. A broad selection of housing styles are available.





QUICK MATE

Premium solar connector with outstanding performance. This connector uses Amphenol's patented Radsok® technology. QUICK | MATE comes assembled as an over-molded cable assembly and is available in standard and custom lengths.





ECO MATE

A circular connector featuring easy operation, reduced dimensions, and a more robust design to withstand harsh conditions. The connector's primary applications are factory automation, machining, and medical. The series comprises a large selection of housings and shapes, as well as models with screw, solder and crimp termination.





AMPHE-LITE™ CONNECTOR SERIES

Designed for signal, power, RF or fiber optic interconnect requirements in harsh environments. The Amphe-Lite™ series offers the highest performance capabilities for severe environment applications, yet is cost-effective enough for general-duty and non-environmental applications.





PT HERMETIC CONNECTOR

These miniature cylindrical connectors offer twice the number of contacts in half the size of a standard connector. These miniature bayonet connectors are available in several series, each with varying design characteristics and customer options to meet cost considerations and provide maximum design flexibility. There are two styles within the family that are MS approval and qualified to MIL-C-26482 Series 1, as well as several proprietary styles.



Powell Electronics Your Connection for Knowledge, Inventory and Service

Manufacturers

Authorized Distributor For The Following Brands:

Airborn Alpha Wire Altech **AMP**

Amphenol

Aerospace

ARINC

Backplane Systems

Canada

Connex

FiberOptic

Industrial

Matrix

PCD

Pyle

• RF

SpectraStrip

Tuchel

Aries

Astro Tool

AVX/Elco

ConXall Digitran

Eaton/Cutler Hammer

EECO Switch

EnerSys

Glenair

Guardian

Harting

HellermannTyton

Honeywell Sensing & Controls

Clarostat

Data Instruments

Flectro

Fenwal

Microswitch

Sensym

Hurst Mfg

Incon Interswitch

ITT Cannon RF

ITW Pancon

ITW Switches

JKI

Kings Lemo

Memory Protection Devices

NKK Switches

Orion Fans

Paladin

Pepperl+Fuchs

Pomona

Preci-Dip

Regal Electronics

RF Industries

Sloan

Steinel

Tri-Star

Trompeter

Tyco Electronics

Agastat

Alcoswitch

. AMP

Axicom

Buchanan

· CII

Elcon

Hartman

Ident Products

Kilovac

Microdot

Nanonics

OEG

· Potter & Brumfield

Raychem

Schrack

Winchester Electronics

Wustlich

Xymox

Yamaichi

Y-Connect

Interconnect

Connectors & Accessories

Airborn

AMP

Amphenol AVX/Elco

ConXall Elcon

Glenair

Harting HellermannTyton

Incon **ITW Pancon**

Lemo

Microdot **Nanonics**

Pomona

Preci-Dip

Raychem

Regal Electronics Tri-Star

Tyco Electronics

Tyco/Ident Products Tyco/Raychem

Tyton

Vector

Winchester Electronics

Yamaichi

Y-Connect

RF Connectors

Amphenol

ITT Cannon RF

Kings Pomona

RF Industries

Trompeter

Sockets

Aries

Terminals & Terminal Blocks

Altech **Amphenol**

Buchanan

Tools Astro Tools **Paladin**

Steinel

Wire & Cable

3M

Alpha Wire Amphenol

Tyco/Raychem

Electromechanical

Batteries & Accessories

EnerSys

Memory Protection Devices

Fans, Blowers & Motors

Hurst Manufacturing

Orion Fans

Indicators, Switches, Sensors

Agastat Alcoswitch

Axicom CII

Data Instruments

Digitran Eaton/Cutler Hammer

EECO Switch Electro Fenwal

Honeywell Sensing & Controls Interswitch

ITW Switches IKI

Kilovac Microswitch **NKK Switches** Indicators, switches, sensors, continued...

Pepperl + Fuchs

Potter & Brumfield Schrack

Sensym Sloan

Wustlich **Xymox**

Relavs

Agastat Axicom CII

Hartman Kilovac

OEG Potter & Brumfield Schrack

Tyco Electronics

Resistive Products

Clarostat

Call Powell

Email: info@powell.com



Toll Free: 1-800-235-7880 Fax: 1-888-467-6935

Web: www.powell.com Full contact information on reverse

Mil-Spec Products

Connectors

Audio

MIL-C-10544 MIL-DTL-55116

Rackshells

MIL-C-28840 MIL-C-85049

Card Edge, One Piece

MIL-C-21097

Card Edge, Two Piece

MIL-C-21097 MIL-DTL-55302

Contacts

MII -C-23216 MIL-C-39029

Cylindrical

MIL-C-22992 MII -C-26482 MIL-DTL-26500 MII -C-27599 MIL-C-28840 MIL-DTL-38999 MIL-C-5015 MIL-DTL-5015 H MII -C-81511

D-Subminiature

MIL-DTL-24308 MIL-DTL-83513

MIL-DTL-83723

Fiber Optic

MIL-C-83522

Plugs & Jacks

MIL-C-10544 MIL-DTL-39024 MIL-DTL-55116 MIL-J-641 MII-P-642

RF/Coaxial

MIL-PRF-55339 MIL-C-22557 MII -C-23329 MIL-C-3655 MIL-PRF-39012 MIL-C-4919 MIL-C-83517

Sockets

MIL-DTL-22520 MIL-DTL-83734

Tools

MIL-DTL-22520

Power

MIL-C-12520 MIL-DTL-55181 MIL-C-55449

Rack & Panel

MIL-DTL-26518 MIL-DTL-28731 MIL-DTL-28748 MIL-C-28754 MIL-C-81659

Heat Shrinkable

MIL-DTL-23053 MIL-PRF-46846 MIL-DTL-83513 MIL-S-85848

Boots

MIL-DTL-5015 MIL-C-83723 MS-3109 MS-3117

Sleeves

MIL-S-81824 MIL-S-83519

Tubing

MIL-DTL-23053

<u>Relays</u>

AN3303 AN3308 AN3320 AN3324 MIL-DTL-83725 MIL-P-50884 MIL-PRF-28750 MIL-PRF-28776 MII-PRF-31032 MIL-PRF-55110 MIL-PRF-6106 MIL-PRF-83536 MIL-R-5757 MII-R-83726

Switches

Boots

MII-DTI-5423

MIL-PRF-83504

Switch Guards

MIL-DTL-7703

Pushbutton

MIL-PRF-22885

Rotary

MIL-DTL-3786

Sensitive

MIL-PRF-8805

Thumbwheel

MIL-PRF-22710

Toggle

MIL-DTL-3950 MII-DTI-83731 MIL-DTL-8834

Wire & Cable

MIL-C-17 MIL-DTL-27500 MIL-DTL-49055 MIL-C-85485 MIL-DTL-24640 MIL-W-22759 MII-W-81044

Contact Powell

Global Logistics Center

Powell Electronics has moved to a brand new Global Logistics Center!



Powell Electronics, Inc. 200 Commodore Drive Swedesboro, NJ 08085 Phone: 1-856-241-8000 Fax: 1-856-241-8630

Email: info@powell.com

Branch Offices

Alahama

6767 Madison Pike NW, Suite 100 Huntsville, AL 35806 Phone: 256-971-5900 Fax: 256-971-5944

California (Northern)

1900 McCarthy Blvd., Suite 107 Milpitas, CA 95035 Phone: 408-943-9020 Fax: 408-943-1892

California (Southern)

4141 Inland Empire Blvd., Suite 280 Ontario, CA 91764 Phone: 909-483-4939 Fax: 909-483-1024

Florida

1890 North University Dr., Suite 115 Coral Springs, FL 33071 Phone: 954-346-2466 Fax: 954-346-2722

Illinois

7705 Industrial Avenue, Suite C Spring Grove, IL 60081 Phone: 815-675-3244 Fax: 815-675-9374

Massachusetts

4 Mount Royal, Suite 210 Marlboro, MA 01752 Phone: 508-481-7575 Fax: 508-481-7779

North Carolina

111 James Jackson Ave., Suite 121 Cary, NC 27513 Phone: 919-467-1212 Fax: 919-467-8078

Texas

4500 Fuller Drive, Suite 130 Irving, TX 75038 Phone: 972-719-5404 Fax: 972-719-5405

Washington

720 South 333 Street, Suite 203 Federal Way, WA 98003 Phone: 253-874-2215 Fax: 253-925-1360



Value Added Services

Design & Assembly

- Design / Technical Assistance
- · Electrical/Mechanical Assembly

Supply Chain Services

- Bonded Inventory Program
- · Consigned Inventory Program
- Vendor Managed Inventory (VMI)
- Electronic Data Interchange (EDI)
- · Order Online at: www.Powell.com

Special Packaging

- Preservation Packaging
- Military Packaging
- Bar Code Labels

Quality Certifications

- ISO 9001:2000
- · AS9100

Mil-Spec Services

- MIL-I-45208A
- Value added inspection facilities
- MIL-STD-790
 - Quality control procedures

Small Business Status

Powell is considered a small business under part 121 of the Small Business **Administration Regulations**





POWELL ELECTRONICS SWEDESBORO, NJ CERTIFIED TO ISO9001: 2000 FILE NO. A 7080