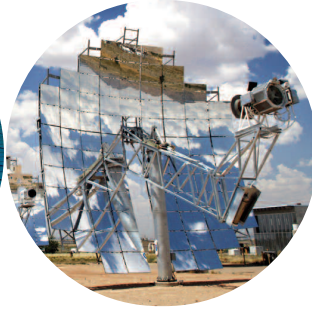




Amphenol[®]

Solar Energy





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.

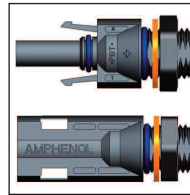
A



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.

B



HELIOS BULKHEAD CONNECTOR

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

C



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.

D



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.

E



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.

F



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.

G



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.

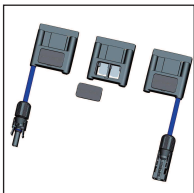
H



HELIOS THIN-FILM JUNCTION BOX

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

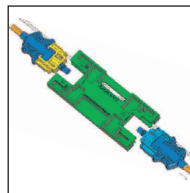
I



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.

J



SUN | MATE

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

K



HELIOS H4 ASSEMBLY TOOL SET

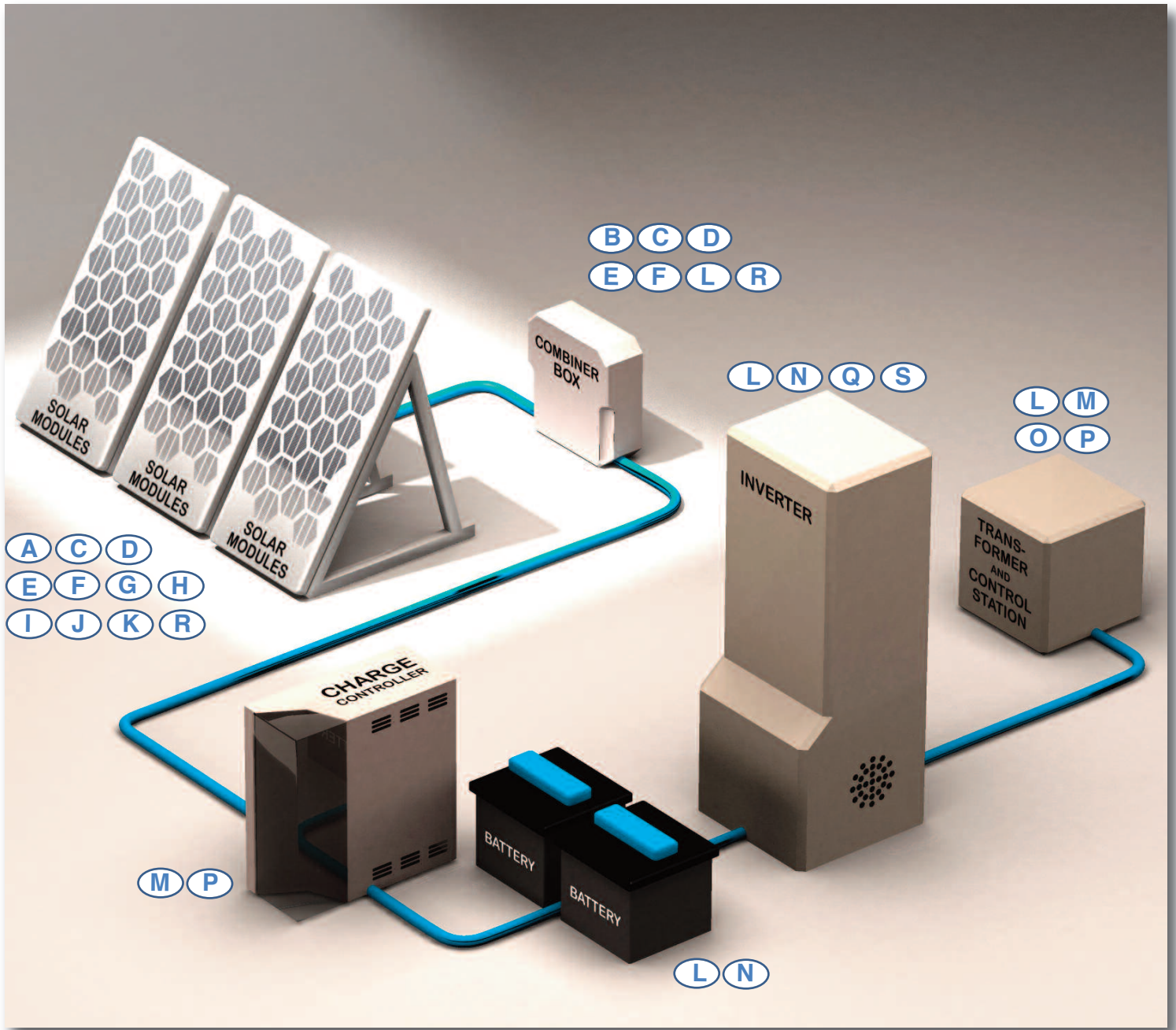
All tools required to make reliable connections in the field and in the shop, including crimping tool, stripping tool, assembly tools and an assortment of spare connector parts.

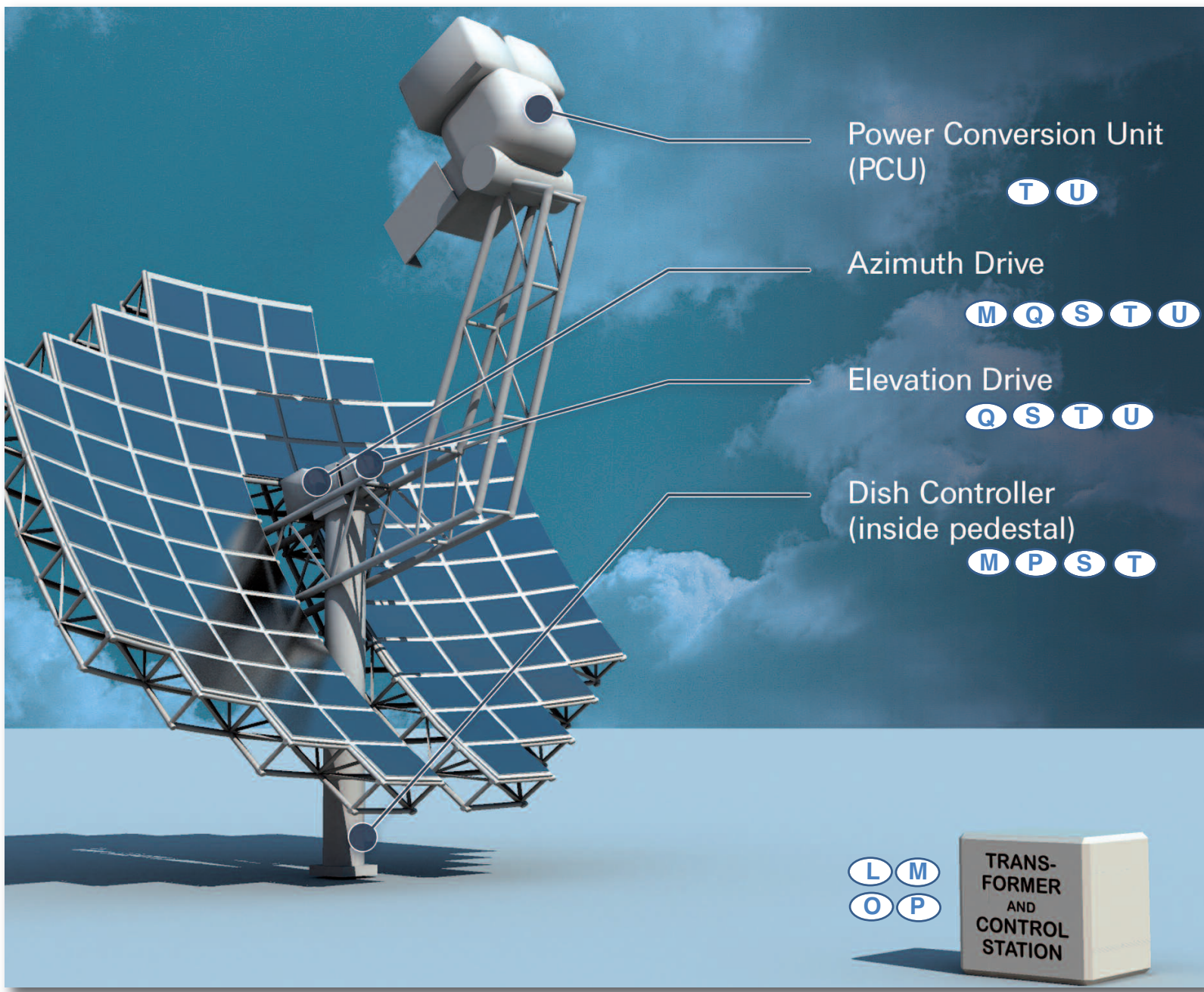
L



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.





Power Conversion Unit (PCU)

T U

Azimuth Drive

M Q S T U

Elevation Drive

Q S T U

Dish Controller (inside pedestal)

M P S T

L M
O P



M**M23 & M40 SERIES**

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

O**C146 SERIES**

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

P**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.

R**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.

T**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.

N**GROUND | MATE**

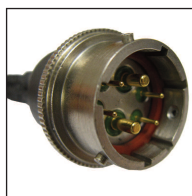
With the new GROUND | MATE series, Amphenol is able to replace the now used PE connections, made up of ring terminals in electrical cabinets, with pluggable contacts. By using the well-known and field-proven Radsok® technology in combination with the click | fit locking device, a high-current carrying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

Q**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.

S**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.

U**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.

Amphenol[®]

Since 1932 Amphenol has been the interconnect technology provider of choice to industry leading companies throughout the world. With a broad and diverse product portfolio, Amphenol is able to develop the right solutions for our customers across the diverse segments of the rapidly expanding electronics market.

With dedicated employees working at 85 facilities in more than 30 countries. Amphenol has the unique advantage of having both diversified global reach while still being a focused organization. Our focus comes from our entrepreneurial management team dedicated to specific markets and regions.



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