



Powell Ag Solutions: Solid Machined Contacts

Powell Agricultural Solutions

Powell Electronics • JRH Electronics • East Coast Microwave



For more information on how Powell Electronics is meeting the needs of the agricultural community, please contact:

Powell Electronics
200 Commodore Drive
Swedesboro, NJ 08085
United States
aginfo@powell.com

Powell Ireland Limited
Clane Business Park
Clane
Kildare, Ireland
W91 XN65
PAS@powell.com

Agricultural Technology and Farming 4.0

The future of agriculture is Smart Farming, also known as Farming 4.0: an emerging concept that refers to modern farms using technology to reduce costs, gain higher yields and minimize environmental impact. As the implementation of Farming 4.0 spreads more widely, the utilization of **IoT (Internet of Things)** in agriculture will become the norm as sensors are automatically used to monitor critical parameters such as soil nutrition, temperature, moisture, and more. Key IoT systems involved include telematics, sensing technology, position monitoring, data analytics, communications, and various hardware and software aspects. And one of the keys to bringing these systems together to achieve smart, sustainable farming lies in rugged, reliable interconnect solutions

The modern precision agricultural equipment is strongly driven by technical innovation through electrification and cross brand digitalization. Critical advancements in agricultural equipment have made it possible for farms to track crop production with great precision. Integrated equipment is used to optimize crop potential by ensuring that the correct amount of water, seed, pesticide, and fertilizer are applied to the crops electronically via GPS. This new way of farming is accomplished with the help of monitors, sensors, and cross brand computerized systems.

PAS Solid Machined Contacts

Originally designed using Mil-C-39029 technology, these solid contacts are ideal for use in heavy duty, off-road, industrial vehicle applications. A solid piece of copper beryllium alloy is nickel plated to survive many mating cycles and vibration in harsh environment. These contacts perform with very low voltage drop and offer superb signal integrity for your CANBUS applications and more. Manufactured in all sizes for the common contact systems using J1939 we offer 16, 12 and 08.



FEATURES AND BENEFITS

- The common contact system reduces the need for any tooling expense.
- Superb Signal Integrity secures optimal ISOBUS and CANBUS signal transfer.
- The common contact system can be used in industry standard transportation style connectors, reducing cost.
- Readily available as Powell Electronics stocks all sizes made by multiple approved factories.
- These reliable, high performance, solid contacts are ideal for use in heavy machinery in harsh environments.
- Customers currently using Powell contacts manufacture machinery for agriculture, construction, forestry and mining.