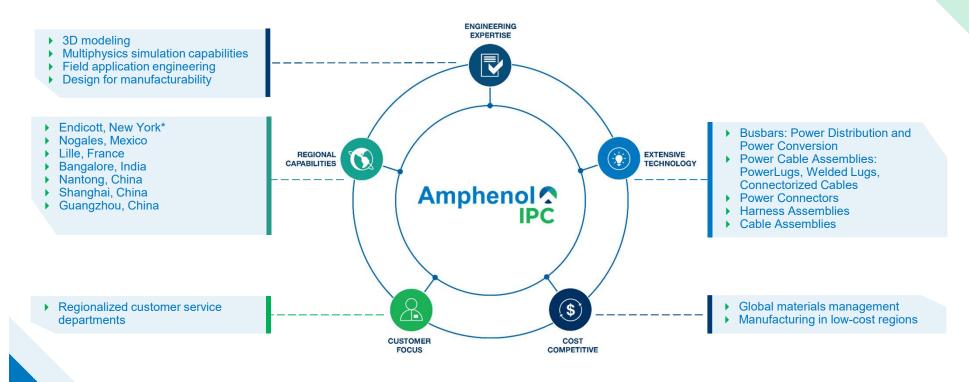
AIPC Automotive Power Solutions

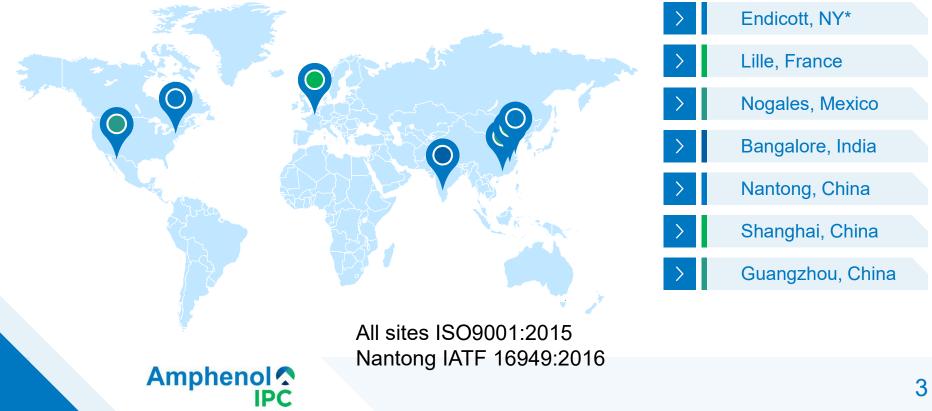


Amphenol IPC Capabilities





Operational Footprint



Key business figures

 $\mathbf{5}$ design centres and $\mathbf{6}$ manufacturing units (China, India, US and Europe)

 $+200\,\mathrm{current}$ customer database

+130 million dollars turnover





Key Customers (industry & auto) Overview AIPC

Railway



SIEMENS



TOSHIBA

BOMBARDIER TRANSPORTATION





Motion control, panel boards and other industrial SEMIKRON































VOLVO

















(infineon

AIPC Market Focus

EV Charging



Busbars Power cables

Public Transportation



High V Cables Powerlug Flex Busbars

Battery / Critical Power



Powerlug Flexible Busbars

Electric car/Forklifts





Busbars Powerlug PDU

Data Centers / Open Compute



OCP Busbar
OCP Connector
Busduct Connectors

Renewable Energy

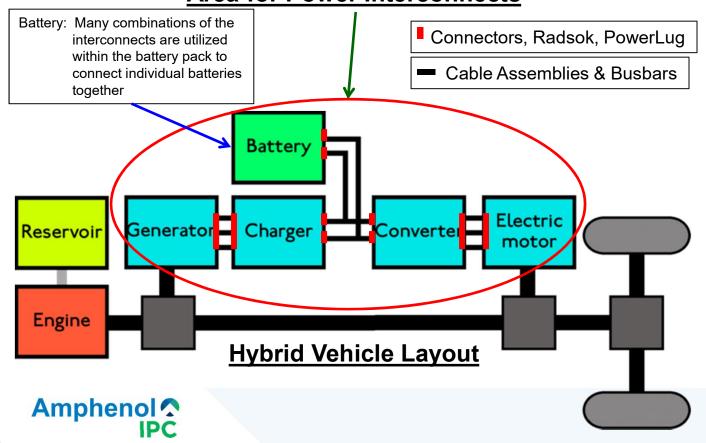


Powerlug
Power Cables
Busbars



Where Power Interconnects are utilized?

Area for Power Interconnects



Power Distribution Busbars

High Temperature Safety Orange Laminated Automotive Busbar



New material development for Automotive applications

Safety Orange

PET film

Acrylic flame-retardant adhesive

130 C rated



Power Distribution Busbars

Integrated Busbar Cooling



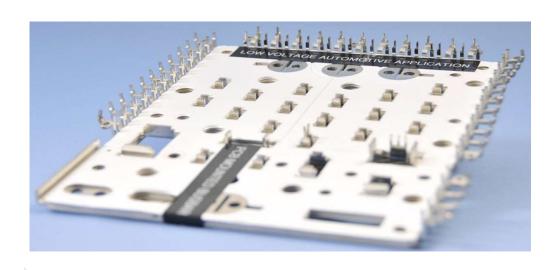
Integrated liquid cooling piped

Heat spreader plates



Power Distribution Busbars

Automotive Busbar Interconnects



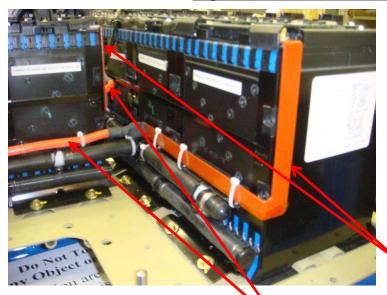
Integrated Faston connectors

Automotive fuse holders



Examples for utilization of Power Interconnects

Hybrid Vehicle Battery Packs





Busbars

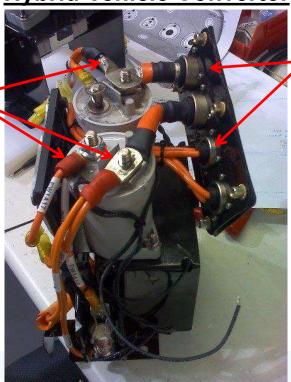
Cable Assemblies



Examples for utilization of Power Interconnects

Hybrid Vehicle Convertor

PowerLug Assemblies vs. crimp terminals

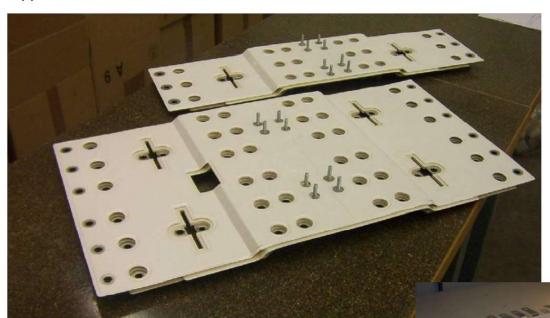


Connectors



Example

Application: Traction converters



Product code: CJP261

Operating voltage: 3000V/1500V

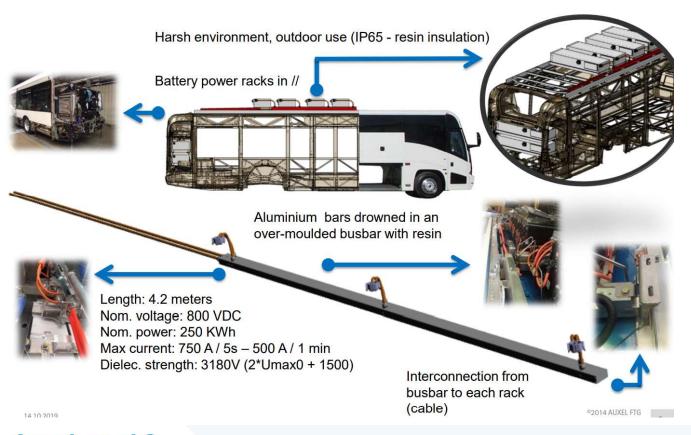
• Operating current: 980A

HiPot & PD tested – 100% mechanical & visual inspection





Example





Example

• Mitsubishi – train & metro











Busbar Construction: Terminations



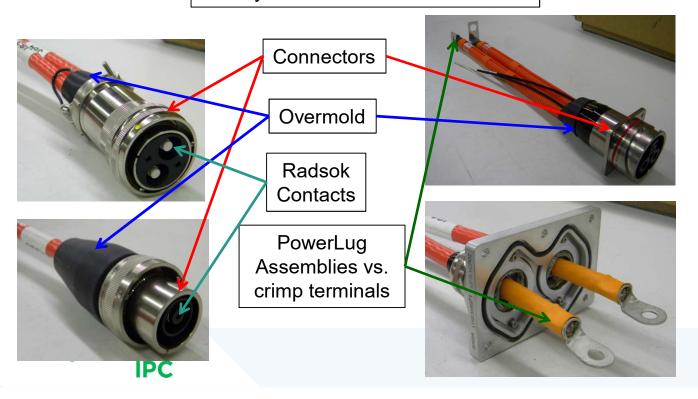




Examples for utilization of Power Interconnects

Hybrid Truck/Bus Cable Assemblies

Battery Pack and Motor Connections



Power Lug The Strongest Link in the Cabling System

PowerLug is a durable, low-voltage drop termination fabricated from the stranded ends of the cable itself. This very reliable "lug" is formed using stranded power cable. Since the wire is used to make the lug itself, the circuit current rating is limited only by the wire and not the lug.





Terminations

Various Angles

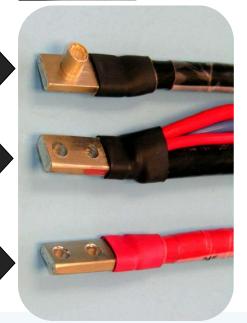




RADSOK® / SurLok®

Multi Cable Termination

1 or 2 hole; 180° 45° 90°





Summary

- Large portfolio of power interconnects for automotive applications
 - Power disty busbars
 - Power conversion busbars
 - Powerlug
 - Custom power cables
- Experienced engineering team for custom power solution development
- Global manufacturing footprint
 - ISO and IATF certified
 - Low cost manufacturing solutions

