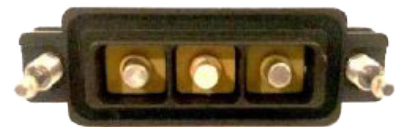
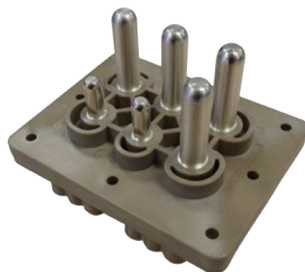




POWER SOLUTIONS

Urban Air Mobility
Commercial Aerospace



BROCHURE 05/22 - V2.0

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Amphenol Air LB
Your Satisfaction. Everyday. Everywhere.

PRESENTATION

Meeting the power supply needs of the military and aerospace industry requires high performance power solutions dealing with high demanding application and environmental constraints.

Amphenol Air LB France offers a wide range of rectangular and circular power connectors, as well as power distribution systems meeting the highest specifications.

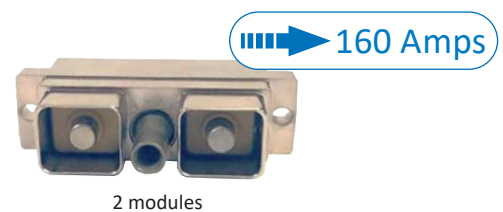
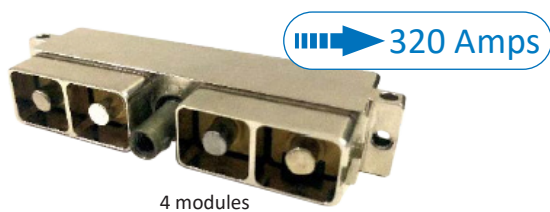
Our power solutions feature numerous complementary options, such as: modularity, sealing, quick locking, easy installation, lightweight composite or rugged metallic housings.

Here are some of our power interconnection products for commercial and military aircrafts, as well as advanced air mobility applications (eVTOLS, hybrid and electrical aircrafts, airships...).
Contact us for more information.



PRODUCTS

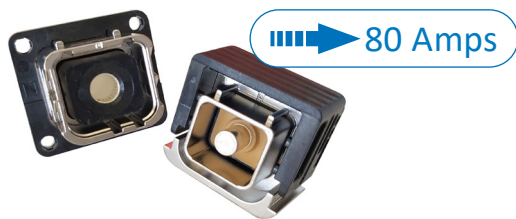
■ SIM / EN4165 SERIES 2 WITH POWER MODULES



EN4165 / SIM modular connectors are fitted with overmolded SIM modules offering best-in-class dielectric and sealing performances. They come in composite version for weight saving applications or in metallic version for robust applications. This SIM range comes in 2 or 4 modules for respectively 160 Amps or 320 Amps for power applications.

- Contact size 8 up to 80 Amps
- Overmolding technology: second to none dielectric and sealing performances
- Metallized for shielding
- Temperature: -55°C to +175°C
- EN4165 qualified, comparable to U.S. MIL-STD-810 in performance

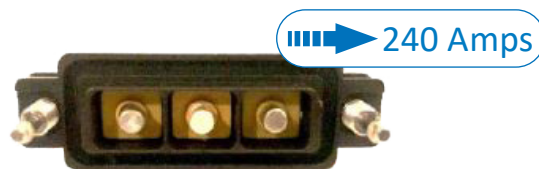
■ MONOMODULE SIM / EN4165 / ARINC 809 WITH POWER MODULE



The EN4165 / SIM Monomodule series is a single module connector, fitted with overmolded SIM modules offering best-in-class dielectric and sealing performances. With lightweight composite shells they are especially suited where weight and space saving is mandatory. Multiple color coding, backshells and accessories available. This SIM monomodule suits for power application thanks to 1 contact size 8 (up to 80 Amps).

- Overmolding technology: second to none dielectric and sealing performances
- Lightweight and robust thermoplastic
- Metallized for shielding
- Fixing accessories, multiple colors, flight caps and 3-pin quick install versions are also readily available
- Temperature: -55°C to +175°C
- EN4165 qualified

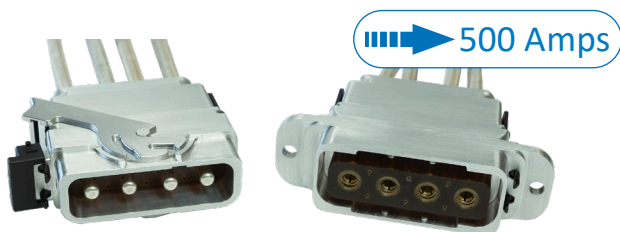
■ 1900SIM WITH POWER MODULES



1900SIM is a modular rectangular connector providing versatility and high density within a small form factor. They are fitted with overmolded SIM modules offering best-in-class dielectric and sealing performances. They come in composite version for weight saving applications. This 3 modules connector suits for power application (up to 240 Amps).

- Overmolding technology: second to none dielectric and sealing performances
- Lightweight and robust thermoplastic
- Metallized for shielding
- Many accessories and backshells available
- Temperature: -55°C to +175°C
- Derived from EN4165

■ H-PAC CONNECTOR



Next Generation of Power connector, H-PAC has an innovative and easy-to-use locking system offering a perfect connection security. It is perfectly suited for high demanding power applications on various platforms such as eVTOLS, UAVs,.... It offers 4 contacts 125 Amps + 6 interlock contacts.

- Mixed: 4 Power + 6 Interlock
- Quick connect and no tools needed thanks to the lever
- Secured connection thanks to the CPA (Connector Position Assurance)
- Overmolding technology for HVDC application
- Sealing IP67, shielding 360°
- Temperature: -65°C to +200°C
- Specifications according to EN4165

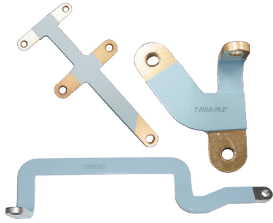
■ 521 000 SERIES



This metallic circular connector offers 3 Power + 2 Interlock contacts. It suits for power application (up to 375 Amps).

- Mixed: 3 Power + 2 interlock
- Robust (metallic connector)
- Temperature: -40°C to +125°C
- IP66 (Cable gland backshell)

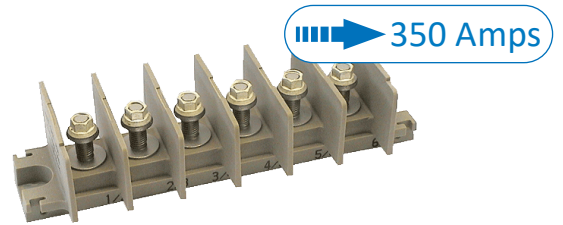
■ BUS BARS



AALBF's bus bars provide a means of power distribution between power generator boxes, terminal blocks, and smaller terminal block interconnects. Bus bars are available in various standard sizes and shapes as well in custom designs. Bus bars present high mechanical resistance and are resistant to high temperatures.

- Military & Commercial Aerospace specification
- Lightweight aluminum
- Perfectly suited for custom design

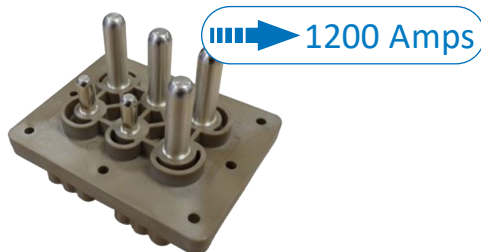
■ MONOBLOC ASSEMBLIES



Designed for power distribution purposes, the monoblock assemblies are made of terminal junction block, for copper or aluminum cable connections. Monoblock assemblies are available with individual or shunted terminals, from 1 to 12 terminals, in different diameters. The protective cover fixing, as well as the terminal assembly's fixing on structure are ensured by pillar bolts.

- PEEK Polymer
- High temperature range (up to +230°C)
- High current up to 350 Amps
- Fire / Smoke / Toxicity conform to ABD0031 and FAR 25853

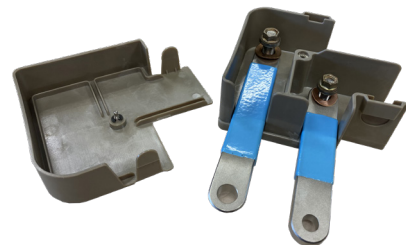
■ GROUND POWER RECEPTACLE



This Amphenol Air LB France's Power feed receptacle connector is originally installed on commercial airliners and is fully interchangeable with Ground based SAE AS 25486 power plugs installed around the world. It powers the aircraft while docked at the gate. This connector offers 4 contacts 300 Amps + 2 interlock contacts.

- Mixed: 4 Power + 2 Interlock
- Robust thermoplastic with glass fiber
- Operating temperature: -55°C to +125°C
- Associated products available: shield cover and Lightning Protection Unit (LPU)

■ BATTERY ADAPTATOR



Custom power solutions integrating bus bars that are designed for high current and are easy to integrate in an interconnection system.

Find all our other products on

www.amphenol-airlb.fr

