



LPA's Aerospace & Defence System Solutions

50+ years of providing precision engineered components & products designed for harsh & challenging aerospace & defence applications

www.lpa-group.com

distribution@lpa-group.com

+44 (0)1635 864866



Space & weight saving aerospace solutions for IFE, seating, galleys & lighting

High power interconnect for aerospace & defence

Military grade cooling & charging systems

Weapons, radar & targeting systems

Defence robotics

UAV / UGV & eVTOL solutions

Fibre optic assemblies

Some of our key partners



Why you should choose us

LPA are more than a distributor; using our engineering design expertise we take concept designs through to prototyping, testing and into production.

We are a leading supplier of precision engineered components and products for the aerospace and defence industry. With 50+ years of experience, we pride ourselves on selecting the right product for your specific application. We are AS/EN 9120 and ISO 9001 certified and have access to 1000's of products.

LPA offer short lead times, low minimum order quantities and competitive pricing. Our dedicated team of design engineers, customer service support and high-quality products makes LPA your 'go to supplier' for precision engineered electrical components & systems.

LPA's End To End Aerospace & Defence Product Solutions

High Power Solutions

Designed for demanding aerospace & defence applications, ensuring reliable performance. Certified to IP67 and MIL-DTL-38999.



Features

High power density	50 A to 1000 A current handling
Space saving design	Visual polarisation
Operating temperature range: -55°C to +155°C	Quick locking system
MIL-DTL-38999 standard	Available in multiple shell sizes and materials including aluminium, stainless steel & plastic
IP2X finger-proof protection & IP67 rated	
500 mating cycles	

Multi Modular Rectangular Connectors

Ideal for harsh environments, from commercial air to military land systems to industrial applications.



Features

Fully qualified to EN4165 European military aerospace requirements	Monomodule meets ARINC 809
Similar to MIL-DTL-38999 in performance but with the added benefit of a smaller footprint and versatility	Flexible modular connector – high density to high power
Module upgrades without changing out the entire connector	Customised interface plates designed to fit specific applications
Lightweight with high density of contact points	Connector design allows mixing of male/female modules in each half
High durability: 500 mating/unmating cycles	Compact, space saving solution
	Operating temperature of -55 °C to +175 °C

Backshells for Connectors

The backshell provides strain relief, EMI/RFI shielding, environmental protection and reparability to connector/cable terminations.



Features

Unique black hybrid plating designed to reduce inventory as suits all aluminium based connector finishes	ROHS and REACH compatible
VG approved backshells	Angle – straight, 45° and 90° to suit the cable wiring application
A wide range of materials and finishes	Custom designs

Light Cable Clamps

Designed to keep the cable harness securely positioned on a structure, with a significant 50% weight saving over standard metallic clamps.



Features

'Over 70% weight saving compared to metal clamps	Fire/smoke & toxicity conforms to ABD 0031
Stackable design: space saving and multi cable runs	Available for cable bundles from 3mm to 60mm
Easy clamp install and cable securing	Operating temperature range: -55°C to +225°C
Over moulded elastomer technology gives high reliability and vibration protection for cables	Clamp weight from 1.75g to 12.5g
	Non-conductive and non-corrosive
	DO160G and ABS1916 standard

Terminal Junction Modules

Providing high density wiring modular connections. Very high performance, along with easy & fast installation.



Features

Range of interconnection layouts available in all sizes, including mixed	Easy insertion/removal from rail with standard tools & without removal of adjacent modules
Modules from 6 to 36 contacts, size 10 to 22	Contacts inserted/extracted with standard tools
Mounting on lightweight composite or metallic rail	ROHS and REACH compliant
Module sealing with over moulded grommet	

High performance mil spec fans

Innovative cooling solutions for aerospace, naval and military applications.

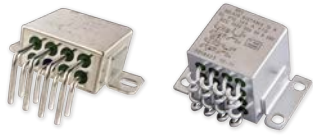


Features

High performance fans for demanding environmental conditions	Standards compliance: DEF STAN 00-35, DEF STAN 59-41, MIL-STD-810, MIL-STD-461, MIL-STD-704 and RTCA D0160
1000's of off the shelf products, along with custom design capability	Low noise to improve passenger comfort
Designed and manufactured in France therefore no ITAR control	Range includes hyperfans, optifans, centrifugal blowers and electric motors

Hermetically Sealed Relays

Designed for harsh environments. Military and CECC qualified.



Features

Suitable for harsh & challenging environments

High reliability, compact, low weight & long life

Relay base soldered or PCB mounted

Military & CECC Qualified

Hermetically sealed relays between 1 to 50 Amps AC and DC voltage coils available

Latching, non-latching & timer relays

Relay cards

Circuit Breakers

A range of thermal and hydraulic circuit breakers to meet the harshest conditions required for aerospace and defence applications.



Features

Hydraulic magnetic technology, ensuring no de-rating for ambient temperatures

Compact size of 13mm, 18mm and 19.5mm for MCB's

Wide range of mounting styles including DIN rail

Current ratings from 20mA to 3200mA

Ideal for both DC and AC voltage applications

RCD tripping currents from 30mA to 5 A

Operating temperature range of -45°C to +65°C

1000's of configurations available

CE & CCC compliant

Approvals such as VDE, cURus & EAC

Compliant with AS / NZS 60947-2

Hermetic Connectors

A proven glass to metal seal technology for applications that require much more than a simple watertight capability. This includes high pressure to high temperature variations.



Features

Hermetic glass-to-metal (GTM) seal technology

All products are available with full MIL SPEC

Leak rate less than 1*10⁻¹⁰ cc helium/second

Excellent thermal shock performance: -55°C to +350°C

Corrosion resistant: up to 500h salt spray

500 mating cycles

Space saving – no need of additional rear accessories. 1/3 shorter than watertight connector equivalent.

Custom shells available

Multiple keyways available in each shell style

RoHS compliant