



Long Life Reliability
does not cost the earth



LPA's Military & Defence System Solutions

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

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Defence systems

High power & fibre optic solutions

Military cooling systems

Military grade charging systems

Defence robotics

Radar, satalites & UAV

Weapons systems & targeting systems

Some of our key partners



Why you should choose us

LPA Channel Electric 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 Channel Electric your 'go to supplier' for precision engineered electrical components & systems.

LPA's End To End Military & Defence Product Solutions

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

50% weight saving over metal clamps

Stackable design: space saving and multi cable runs

Easy clamp install and cable securing

Over moulded elastomer technology gives high reliability and vibration protection for cables

Fire/smoke & toxicity conforms to ABD 0031

8 cable clamp sizes available for cable bundles: 5mm to 48mm diameter

Operating temperature range: -55°C to +150°C

Clamp weight from 1.75g to 12.5g

Non-conductive and non-corrosive

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

Similar to MIL-DTL-38999 in performance but with the added benefit of a smaller footprint and versatility

Module upgrades without changing out the entire connector

Lightweight with high density of contact points

High durability: 500 mating/unmating cycles

Monomodule meets ARINC 809

Flexible modular connector - high density to high power

Customised interface plates designed to fit specific applications

Connector design allows mixing of male/female modules in each half

Compact, space saving solution

Operating temperature of -55 °C to +175 °C

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

Backshells for Connectors

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



Features

Wide range of backshell options available for different applications, including circular, rectangular, Arinc and D Sub

VG approved backshells

A wide range of materials and finishes

ROHS and REACH compatible

Angle – straight, 45° and 90° to suit the cable wiring application

Custom designs

High performance mil spec fans

Innovative cooling solutions for aerospace, naval and military applications.



Features

High performance fans for demanding environmental conditions

1000's of off the shelf products, along with custom design capability

Designed and manufactured in France therefore no ITAR control

Standards compliance: DEF STAN 00-35, DEF STAN 59-41, MIL-STD-810, MIL-STD-461, MIL-STD-704 and RTCA D0160

Low noise to improve passenger comfort

Range includes hyperfans, optifans, centrifugal blowers and electric motors

Circuit Breakers

Electro-mechanical circuit breakers to meet the harshest conditions in defence & aerospace.



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

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

Modules from 6 to 36 contacts, size 10 to 22

Mounting on lightweight composite or metallic rail

Module sealing with over moulded grommet

Easy insertion/removal from rail with standard tools & without removal of adjacent modules

Contacts inserted/extracted with standard tools

ROHS and REACH compliant

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 $+350^{\circ}\text{C}$

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

High Power Solutions

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



Features

High power density

Space saving design

Operating temperature range: -55°C to $+155^{\circ}\text{C}$

MIL-DTL-38999 standard

IP2X finger-proof protection & IP67 rated

500 mating cycles

50 A to 1000 A current handling

Visual polarisation

Quick locking system

Available in multiple shell sizes and materials including aluminium, stainless steel & plastic



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