Positronic®
an **Amphenol** company

COMMERCIAL AIR

The commercial air market is a dynamic and rapidly evolving sector, driven by advancements in technology, increasing passenger demand, and the need for enhanced safety and efficiency. Airlines and aircraft manufacturers are continually innovating to improve performance, reduce costs, and meet stringent regulatory standards. The market encompasses a wide range of applications, from avionics and in-flight entertainment systems to landing gear and communication networks. With the growing emphasis on lightweight, high-performance, and reliable components, the commercial air market is focused on developing cutting-edge solutions that can withstand the rigorous demands of frequent flights, diverse environmental conditions, and the ever-increasing need for speed and connectivity.

APPLICATIONS

- Aircraft Power & Signal
- Airframe Installation
- Avionics and Instrumentation
- Cabin Service Systems
- IFEC and Seating

FEATURES & BENEFITS

- Customizable modular power and signal connectors can be tailored to meet specific customer requirements
- Hybrid connectors allow for power and signal transmission within a single connector
- Space-saving slim rectangular profiles are optimized for design efficiency
- Vibration and shock resistance maintains secure connections
- EMI/RFI shielding protects sensitive electronics from external electromagnetic signals

*Our connectors have proven their effectiveness in a wide range of commercial air applications. Examples include **COMBO-D** connectors used in long-range business jet flight controls and High-Temp **SCORPION** connectors, made from LCP, found in Electronic Circuit Breaker Units used in aircraft electrical systems.*

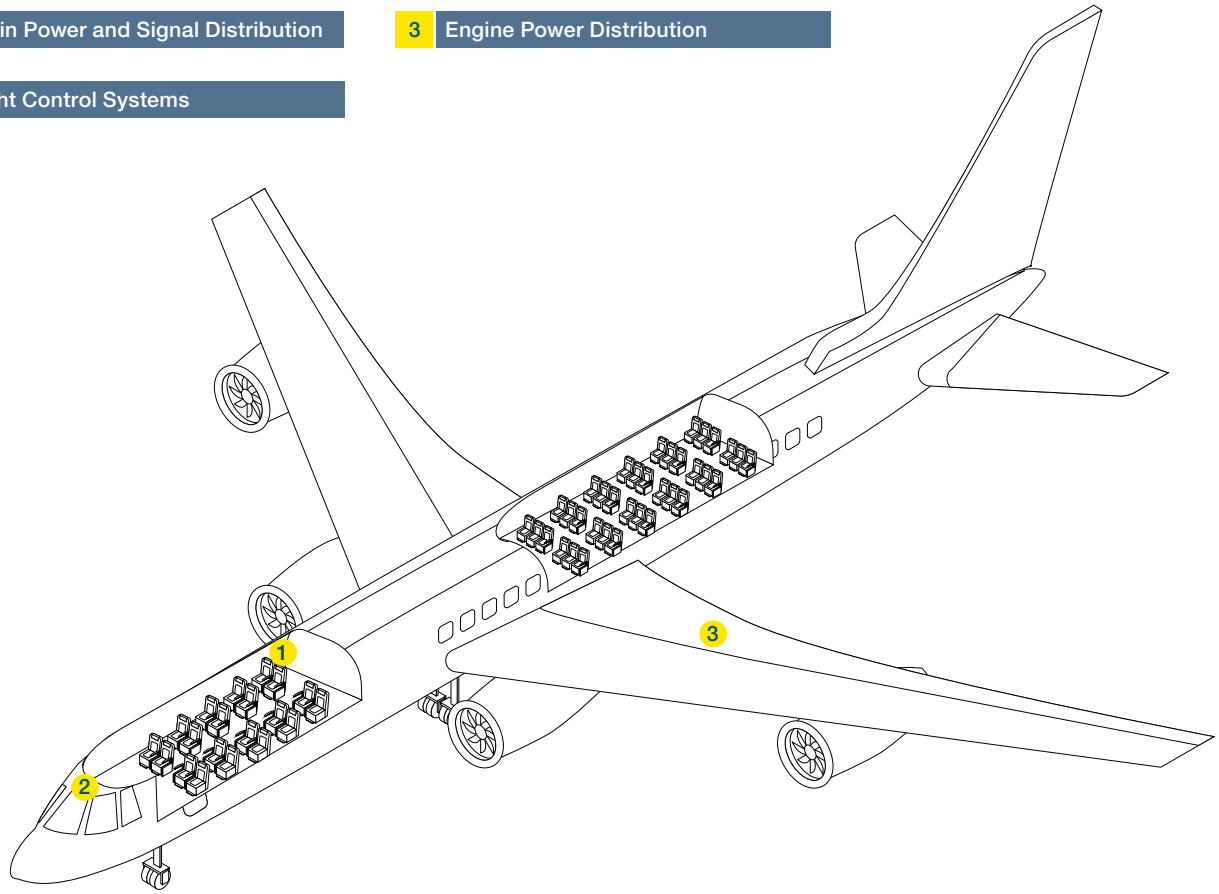
M048 Rev.A 26/04

In commercial aviation, dependable interconnect solutions are essential to safe and efficient flight operations. Positronic connectors support power, signal, and hybrid applications and are widely used across avionics, flight controls, cabin systems, in-flight entertainment, and aircraft power distribution. Engineered for durability in demanding environments, these connectors withstand vibration, temperature extremes, and EMI while maintaining reliable electrical performance within strict space and weight constraints. With increasing demands for electrification and system integration, robust and configurable interconnect solutions play a critical role in ensuring system reliability, operational continuity, and passenger safety.

1 Cabin Power and Signal Distribution

2 Flight Control Systems

3 Engine Power Distribution

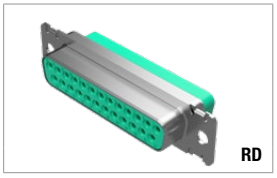


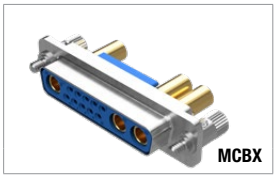
	1 Cabin Power and Signal Distribution	2 Flight Control Systems	3 Engine Power Distribution
Combo-D	•	•	
Mach-D		•	•
D-Sub	•	•	
Goldfish	•	•	
Power Connection	•	•	
SP Max		•	•
Scorpion	•	•	•

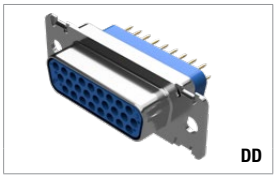
	D-SUB					POWER & HYBRID				
FEATURE	MCD MCDD MCBX	DD ODD	HDC RD	CBC CBD CBM	CBDD CBCD	GFSH	PLA PLB PLC	SM	SP	LSP
#4 Contacts									•	
#8 Contacts	MCBX			•	•				•	
#12 Contacts						•		•	•	•
#16 Contacts	MCBX				•	•	•	•	•	
#18 Contacts								•	•	
#20 Contacts	MCD MCBX		•	•		•				•
#22 Contacts	MCDD MCBX	•			•	•		•		
Solid machined contacts	•	•	•	•	•	•	•	•	•	•
Power and signal in a single connector	MCBX			•	•	•		•	•	•
Modular connector with expandable envelope									•	•
Configurable layout								•	•	•
Integral blind mating	•	DD	•	•	•	•		•	•	•
IP-rated										
Metal shell	•	•	•	•	•			•		
High voltage	MCBX			CBC CBD				•	•	•
UL approved		ODD		CBC CBD		•	•		•	
Wire termination	•	•	RD	CBC CBD	CBCD	•	•	•	•	•
PCB termination	•	•	HDC	•	CBDD	•	•	•	•	•
Press-fit PCB contacts	•			CBC CBD		•	•		•	•
First mate, last break							•	•	•	•
Venting									•	•
Panel mount	•	ODD		•	CBDD	•	•	•	•	•
Free cable	•	•	RD	CBC CBD	•	•	•	•	•	•

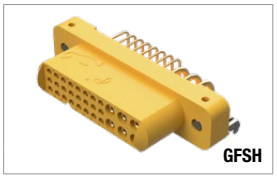

CBC

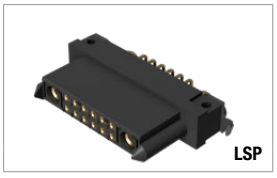

CBDD


RD

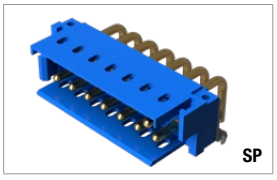

MCBX


DD


GFSH


LSP


SM


SP

•	Applicable to all products
Example: SND	Applicable to select product lines

Products described within this catalog may be protected by one or more of the following US patents:

#4,900,261* #5,255,580 #5,329,697 #6,260,268
#6,835,079 #7,115,002 #8,944,697 #9,304,263

*Patented in Canada, 1992 Other patents pending

Federal Supply Code for Manufacturers

Positronic Industries: 28198
Positronic Industries SAS: FA7Y0
Positronic Asia PTE LTD: QB952

Positronic | Americas
1325 N Eldon Ave
Springfield MO 65803 USA
+1 800 641 4054
info@connectpositronic.com

Positronic | Europe
46 route d'Engachies
F-32020 Auch Cedex 9 France
+33 5 6263 4491
contact@connectpositronic.com

Positronic | Asia
3014A Ubi Rd 1 #07-01
Singapore 408703
+65 6842 1419
singapore@connectpositronic.com

Sales Offices
Positronic has local sales representation all over the world. For the nearest sales office visit www.connectpositronic.com/sales