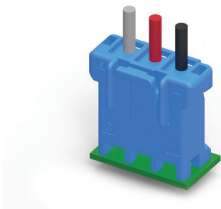




POWER CONNECTORS FOR DRONE APPLICATIONS



Demand for commercial drones is constantly expanding. Application opportunities grow as capabilities are better understood. Designers must respond quickly with evolving solutions for payloads of increasing value flying higher and farther. With regulations increasing, drone makers and users depend on their power connectivity to keep them on the right flight path.

POWER TRIPLE LOCK Connectors

Combining high performance with a functional design, the POWER TRIPLE LOCK connectors with 6mm centerline spacing were specifically developed for better power connections up to 20A. The system offers three enhanced methods to help assure secure connections. Available in wire-to-wire and wire-to-board types. With the available standard, high temperature, and Glow Wire materials, this connector system is great for commercial drones requiring higher power.

Economy Power Connectors

The economy power wire-to-board connectors are widely utilized for power circuit applications up to 11A in drone applications, lighting, household appliances and industrial machinery. Choose from 3.96, 5.08 or 7.92mm pitches. Optional terminal position assurance (TPA) devices help assure contacts are seated in housings. These connectors are offered in Glow Wire compatible material that also meet UL 94 V-0.

Power Key Connectors

Power key connectors are designed and built for manufacturing efficiency by optimizing contact seating and proper mating to the PCB headers. The 5.0mm pitch connectors offer a compact 20.7mm mated height, and are ergonomically friendly for assembly. Various colors and keys help prevent mis-mating, and are potting capable for PCB boards. GWT compliant models meeting UL 94 V-0 are offered.

Power Double Lock Connectors

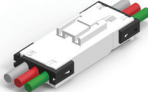
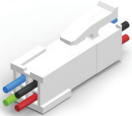
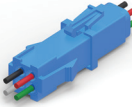
The power double lock connector system allows up to 14 Amps per line utilizing a 3.96mm centerline for wire-to-wire configurations; and wire-to-board options of 3.96mm, 6.5mm, and 13.00mm centerlines. This connector system also offers single or double lock plates, colors, and GWT UL 94 V-0. The power double lock connector system is ideal for power in small compact spaces, such as commercial UAVs.

Micro Universal MATE-N-LOK Connectors

Micro MATE-N-LOK connectors, with a 3mm contact centerline and 5A rating, are the smallest solutions in the MATE-N-LOK connector family, offering wire-to-wire and wire-to-board types. Low profile versions are less than 4.7mm tall. IR reflow-compatible headers include vertical and right angle types for through-hole and surface mounting. Typical uses include lighting, appliances, industrial equipment, home equipment, and security systems.

Mini Universal MATE-N-LOK Connectors

The compact and durable mini universal MATE-N-LOK connectors rated up to 10.5A provide panel mount, free hanging, and wire-to-board connections in a .163" [4.14mm] pitch package. They are polarized to provide proper plug-to-cap mating and have a latch to help prevent accidental un-mating. A sealed option offers moisture resistance where there is high humidity or intermittent liquid splashing, or for foam-in applications.

	Centerline (mm)	Current Rating	Voltage Rating	Wire Size (AWG)	Position Size	Configurations	Operating Temp. Range °C	Flammability	Approvals	Features
POWER TRIPLE LOCK Connectors										
	6.00	20	600 VAC or VDC	12-20 2x18 2x20	2-15	Wire to Wire Wire to Panel Wire to Board MFBL	-55°C to + 105°C HT 150°C	GWEPT 750 & UL 94 V0, High Temperature 150°C	UL, CSA	CPA, TPA color specific keyings & polarizations
Economy Power Connectors										
	3.96	8 (1p) -7.5	250 VAC	22-18	2-12	Wire to Wire Shrouded Headers Unshrouded Headers	-25°C to + 105°C	GWEPT 750°C UL 94 V0	UL, CSA	TPA (EP II), inspection window for electrical check, lubricated contact external robust locking latch
	5.08	7.5	250 VAC							
	7.92		250 VAC							
	3.96 (EP II)	11	600 VAC	22-16					UL	
Power Key Connectors										
	5.00	10	300 VAC	24-16	2, 3, 4, 6	Wire to Board	-30°C to + 105°C	UL 94 V0 & V2, GWEPT 750°C NF	UL, CSA	TPA, four colors and keyings, potting compatible, lanceless contacts
Power Double Lock (PDL) Connectors										
	3.96	14	300 VAC (3.96 WTW, 6.5 WTB, 7.92 WTB), 50 VAC (3.96 WTB)	26-16	1-12	Wire to Wire Wire to Board Wire to Panel	-30°C to + 105°C	GWEPT 750°C	UL, CSA, VDE	TPA, different colors, potting compatible, solder tail kink, mis-mating preventing design
	6.5				3-12					
	7.92				2					
	13.00				2					
Micro Universal MATE-N-LOK Connectors										
	3.0	5	250 VAC	30-18	2-24	Wire to Wire Wire to Board Wire to Panel	-40°C to + 105°C	UL 94 V0 & V2 GWEPT 750°C NF Version available for headers	UL, CSA, VDE	45% lower profile version available, surface-mount header configuration, dual beam contact design
Mini Universal MATE-N-LOK Connectors, Mini-Universal MATE-N-LOK II Connectors										
	4.14	9.5 (both) 10.5 (II)	600 VAC or VDC	30-16	1-4, 6, 9, 12, 15 (WTW) 2-24 (WTB)	Wire to Wire Wire to Board	-55°C to + 105°C	UL 94 V0&V2	UL, CSA, (250V Max.) UL, CSA, VDE (II)	Sealed version

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