

# Kona

## 8.5mm Pitch High Reliability Power Connector

60A continuous Current rating with rugged fully shrouded contacts

Specify high current and high quality for maximum power in extreme conditions. With 8.5mm pitch and individually shrouded connections, you can achieve up to 60A and 3000V per contact. The tough resilient housings protect the connections from physical knocks and damage.

Vibration and shock resilience are built into the design, with 6-finger Beryllium Copper alloy contacts for electrical continuity and good spring force properties. Connectors are available in 2, 3 or 4 pin counts, in a compact single-row configuration. Male pin connectors are throughboard PCB mount design with additional board fixings for strain relief. Female cable housings are supplied with thumbscrews fitted. Female cable contacts are ready for 8AWG cables to be soldered before assembly to the housing.

Features and Benefits	
60A per contact on 8.5mm pitch	High levels of current and power straight to the PCB
Shock and Vibration resistant	Rugged and practical for extreme environments
Full gold plating, 250 mating cycles	Resists wear from continued use, or durable in mate-and-forget operations
Individually shrouded contacts on both male and female connectors	Protects against physical damage and avoids accidental touching of contacts
Stainless Steel Mate-before-Lock thumbscrews	Assures reliability with a strong and robust connection, easy and fast to secure, no tooling required
6 finger Beryllium Copper contact design	Maintains electrical continuity under heavy vibration
Low outgassing properties	Meets NASA and ESA outgassing requirements for vacuum or space use
Operates at extreme temperatures up to -65°C to +150°C	Can be used in a wide variety of extreme environments

Key Applications	
Aviation	Power control systems, in-flight infotainment and in-cabin services, navigation and flight systems
Motorsport & Electric Vehicles	Battery control and monitoring systems, ERS control and supply, auxiliary system power, cabin systems
Space	Satellites & CubeSats, communications, launch systems, power supplies
Defense & Security	UAVs, rugged vehicle electronics, remote robotics drives, servo controls
High-end Industrial	Power units and power control systems, robotics drives and servo controls, mining or oil & gas power systems



Assembled female cable connector, 4 contact

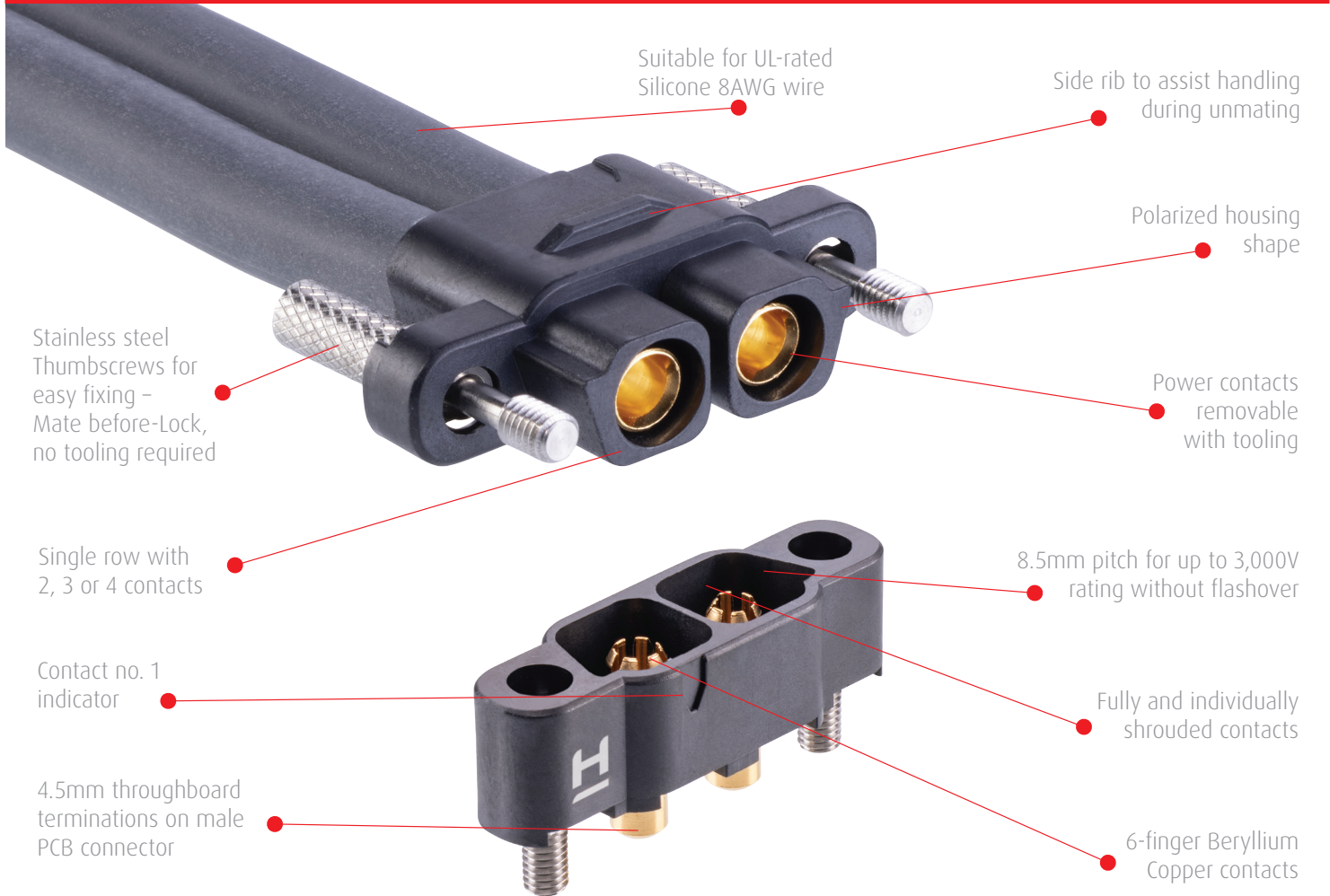


Male throughboard connector, 2 contact



Close-up on thumbscrews fitted to female connectors

Product Features



Specifications					
Electrical		Mechanical		Physical	
Current Rating	60A max per contact	Number of Mating Cycles	250	Housing	Glass filled PPS, UL94V-0
Voltage Rating	1,500V AC/DC	Temperature Range	-65°C to +150°C	Contacts	Copper alloy, Gold plating
Maximum Voltage	3,000V AC	Shock	100G	Screw-locks	Stainless steel, M3 Thread
Contact Resistance	2mΩ max	Vibration	20G	Recommended Wire	8AWG Silicone Rubber UL rated
Insulation Resistance	10GΩ at 1,000V DC				

How to Order

Cable Housings

KA1 - 201 XX 98 FX

GENDER	
201	Female

NUMBER OF CONTACTS	
02, 03, 04	

FIXINGS	
F1	Floating Thumbscrew
F2	Reverse Fix Panel Mount

Cable Contact, Accessory & Tooling



KA1-0400005  
Female 8AWG  
Solder Contact



KA1-4240000  
Slotted Board  
Mount Nut



ZA1-9040000  
Contact  
Removal Tool



ZA1-9020000  
Slotted  
Screwdriver

PCB Connectors

KA1 - MV1 XX 05 MX X

GENDER	
MV1	Male Vertical, 4.5mm Throughboard

NUMBER OF CONTACTS	
02, 03, 04	

PACKAGING	
P	Tube with Pick & Place

FIXINGS	
M1	5mm Board Mount
M2	Reverse Fix Floating Screw, Hex Socket

Also Available

- Cable assembly facility, including 100% inspection and testing

Visit our website: [www.powell.com](http://www.powell.com)

Call us: 800-235-7880

Email us: [harwininfo@powell.com](mailto:harwininfo@powell.com)