

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 PCB connectors are throughboard with additional board fixings for strain relief. Female and male cable housings are supplied with thumbscrews fitted. 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 cable connectors



HARWIN





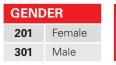


Specifications							
Electrical		Mechanical		Physical			
Current Rating	60A max per contact	Number of Mating Cycles	250	Housing	Glass filled PPS, UL94V-0		
Voltage Rating	1,500V AC/DC	Temperature Range	-65°C to +150°C	Contacts	Copper alloy, Gold plating		
Maximum Voltage	3,000V AC	Shock	100G	Screw-locks	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



KA1 - X01 XX 98 XX







Cable Contact, Accessory & Tooling



KA1-0400005 Female 8AWG Solder Contact



KA1-1410005 Male 8AWG Solder Contact



KA1-4240000 Slotted Board/Panel Mount Nut



ZA1-9040000 Contact Removal Tool

FIXINGS

5mm Board Mount

Hex Socket

Reverse Fix Floating Screw,

M1

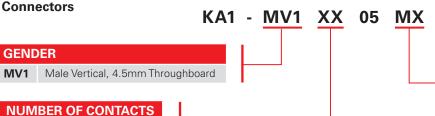
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ZA1-9020000 Slotted Screwdriver

PCB Connectors

02, 03, 04

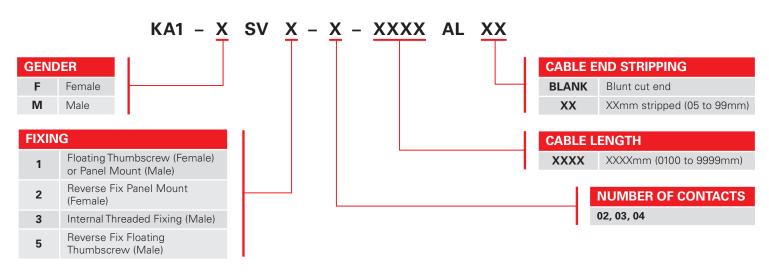




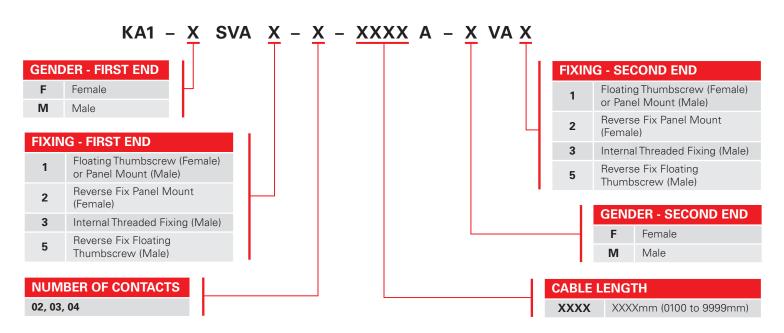


How to Order

Cable Assemblies - Single Ended



Cable Assemblies - Double Ended



Note: Female-to-Male cables should be specified with the Male as the first end.

Contact us

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