

Product Summary

HARWIN

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

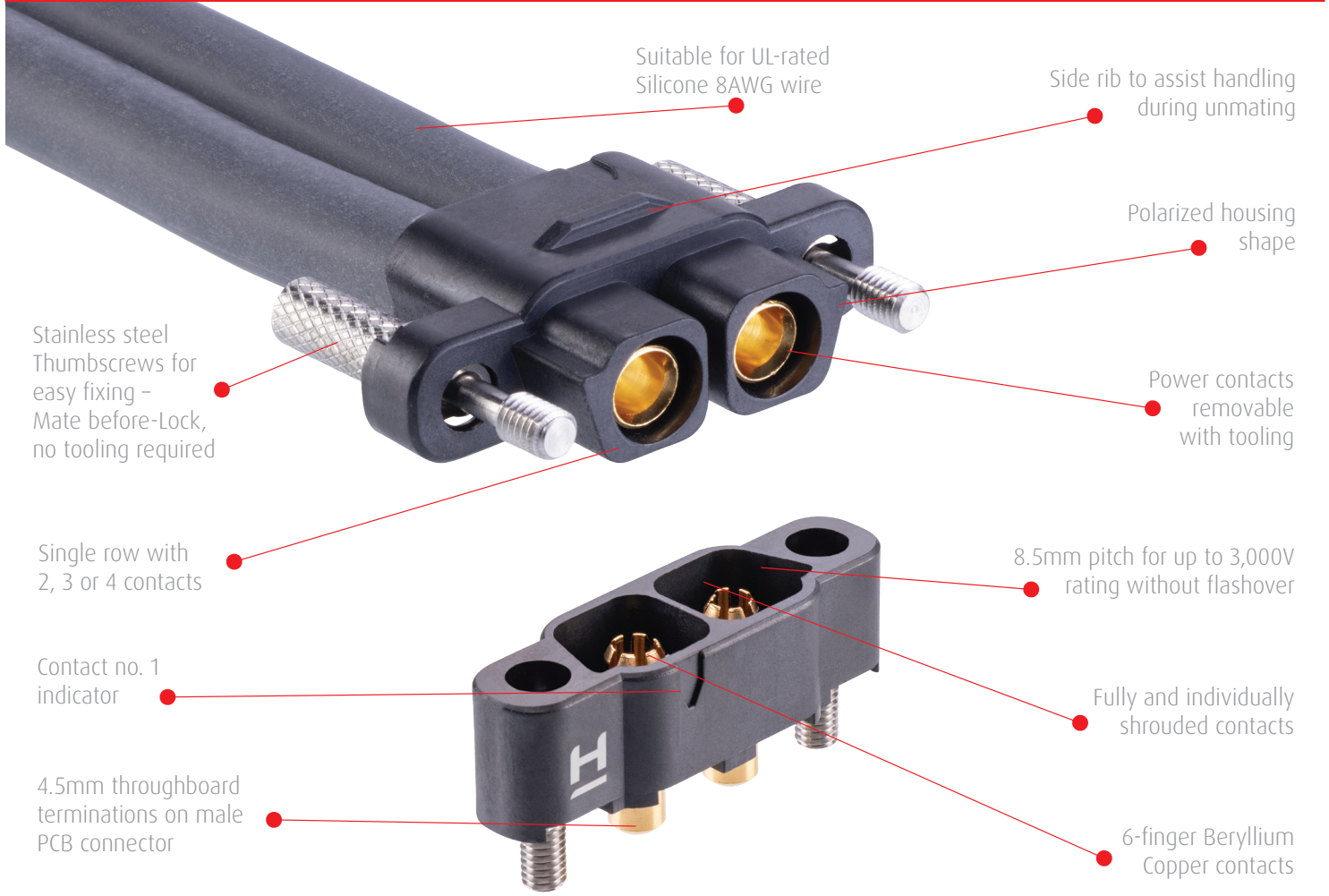


Male throughboard connector, 2 contact



Close-up on thumbscrews fitted to female connectors

Product Features



| Specifications | | | | | |
|-----------------------|-------------------|-------------------------|-----------------|------------------|-------------------------------|
| Electrical | | Mechanical | | Physical | |
| Current Rating | 60A 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/DC | Shock | 100G (TBC) | Screw-locks | Stainless steel, M3 Thread |
| Contact Resistance | 2mΩ max | Vibration | 20G (TBC) | 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



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