HIGH RELIABILITY
HIGH CURRENT
MAXIMUM POWER CONNECTORS
For applications that must not fail, Kona brings high-reliability power connection at 8.50mm pitch. High current with robust housings; tough and lightweight performance under shock/vibration and temperature.

Kona contacts are fully and individually shrouded, with built-in polarization for maximum protection and minimal damage due to handling or mis-mating.

Cable-to-board and cable-to-cable; pin counts of 2, 3 and 4 at 60A per contact, for a combined power level of 240A. Maximum voltage rating of 3,000V delivered by 6-finger Beryllium copper alloy contacts. Connection integrity and good spring force achieves electrical connectivity in a variety of harsh environments.

Fit 8 AWG cable with silicone insulation, soldered in either straight or right-angle contacts before assembly to the housings. Gold plating resists wear from continued use, or long-life durability in mate-and-forget operations.

Stainless steel screw-lock fixings with mate-before lock are available in both standard or reverse-fix configurations, with panel and board mount for additional security.

Cable assembly options are available from our in-house cabling experts, ready for your prototyping or production line needs.
# SPECIFICATIONS

## MATERIALS

- **Housings:** Glass-Filled High Temperature Thermoplastic, UL94V-0
- **Contacts:** Copper Alloy, Gold Plating
- **Screw-loks:** Stainless Steel
- **Metal Backshells:** Aluminium Alloy

## ELECTRICAL

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current per contact</td>
<td>60A max</td>
</tr>
<tr>
<td>Working voltage</td>
<td>1,500V AC/DC</td>
</tr>
<tr>
<td>Maximum voltage</td>
<td>3,000V AC</td>
</tr>
<tr>
<td>Contact resistance</td>
<td>2mΩ max</td>
</tr>
<tr>
<td>Insulation resistance</td>
<td>10GΩ min</td>
</tr>
</tbody>
</table>

## MECHANICAL

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Durability</td>
<td>250 mating cycles</td>
</tr>
<tr>
<td>Insertion force (per contact)</td>
<td>70N max</td>
</tr>
<tr>
<td>Withdrawal force (per contact)</td>
<td>3N min</td>
</tr>
<tr>
<td>Contact retention in housing</td>
<td>75N min</td>
</tr>
<tr>
<td>Pitch</td>
<td>8.50mm</td>
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</tbody>
</table>

## ENVIRONMENTAL

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating temperature</td>
<td>-65°C to +150°C</td>
</tr>
<tr>
<td>Humidity</td>
<td>90-95% RH at +40°C for 96 hours</td>
</tr>
<tr>
<td>Vibration resistance</td>
<td>20G (196m/s²) for 1 hr</td>
</tr>
<tr>
<td>Shock resistance</td>
<td>100G (981m/s²)</td>
</tr>
<tr>
<td>Outgassing</td>
<td>0.05%TML, 0.00% CVCM</td>
</tr>
</tbody>
</table>

Specifications are subject to change.

VIEW FULL SERIES & SPECIFICATIONS HERE
Cable Connector Parts
Male and female cable housings and contacts available separately. Options for either straight or right-angle cable exit, to suit any layout requirement. Jackscrews are supplied assembled to the housings. Standard gender and reverse fix options.

Cable Assemblies
Ready-to-use cabled connectors, single or double ended, fully inspected and tested. Ideal for both prototyping and full production requirements.

Tooling & Accessories
Associated products and tooling to support the Kona range.

Specifications are subject to change.
PRODUCT CATEGORIES

Backshells
Lightweight aluminium alloy backshells for cable, panel and PCB mounting. EMC shielding with metal braid and micro-band fixing, available as separate components or as completed ready-made cable assemblies. Robust hoods for long-term physical protection.

PCB Connectors
Male board-mounted connectors with board mount or reverse fix screws. Vertical and horizontal orientations. Board mount nuts available separately.

Specifications are subject to change.

VIEW FULL SERIES & SPECIFICATIONS HERE
DOWNLOADS

Technical Documents

Component Specification (including pin numbering system)

Test Reports

HT076 – Kona General Testing

Product Training

Product Training Module (PTM)

Specifications are subject to change.
FOR FURTHER INFORMATION PLEASE CONTACT:

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