HIGH RELIABILITY CONNECTORS
FOR SPACE APPLICATIONS

www.ck-components.com
C&K offers a large range of products available for different applications such as:

- Satellites / launchers
- Float mount miniature solutions for harsh environment
- PCB connectors
- Cabling
- Computer space systems
- Payloads board to board connexion
- Integrated interconnected systems
- Antenna connexions and harnesses
- Test equipment applications

Satellite, launchers and any other systems for space applications require high reliability products as operating conditions can be extreme. C&K offers a large range of ESA and MIL qualified products to cope with vibration, radiation, outgassing magnetism and corrosion issues and provides high quality and reliability solutions demanded in harsh environment conditions. C&K offers custom design capabilities coordinated and optimized by its integrated Engineering, Laboratory, and Manufacturing teams.
D*SUB

D*M and D*MA:
- D*M and D*MA meet ESCC3401, MIL-DTL-24308 and GSFC-311P (NASA) specifications
- Non-magnetic and non-outgassing
- Standard and high density layout available
- Machined contacts

Combo D:
- Combination arrangement meets ESCC3401 specifications
- Removable coaxial / power contacts
- Non removable signal contacts

D*Sub savers & accessories:
- Savers for D*M, D*MA and combo
- Backshell
- Lightweight backshell
- Screwlocks
- Tools
Microminiature MTB1

- Non-magnetic and non-outgassing
- High performance Micropin contact system
- Shell size described by the total number of cavities (from 2 to 81)
- Non removable crimp type contacts

Micro-D

**MDM and MDMA:**
- MDM and MDMA meet ESA/ESCC3401 and MIL-PRF-83513 specifications.
- Non-magnetic and non-outgassing
- High performance Micropin contact system
- MDM connector layout: up to 51 cavities
- MDM non-removable crimp type contacts
- MDM: supplied with terminations/cables installed in factory
- MDMA removable crimp type contacts

**Micro D savers and accessories:**
- Savers all sizes
- Backshells
- Lightweight backshells
- Screwlocks
- Retention tool
- Interfacial seal
C&K Components offers a full range of rectangular connectors with installed removable crimp-type contacts.

### ESA QUALIFICATIONS

<table>
<thead>
<tr>
<th>D*SUB</th>
<th>3401-001: D*M Connectors (non removable contacts)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3401-002: D*MA Connectors (removable contacts)</td>
</tr>
<tr>
<td></td>
<td>3401-004: D*M Coaxial Contacts</td>
</tr>
<tr>
<td></td>
<td>3401-005: D*MA Crimp Contact</td>
</tr>
<tr>
<td></td>
<td>3401-020: D*Sub Savers Connectors</td>
</tr>
<tr>
<td></td>
<td>3401-021: Savers Contacts</td>
</tr>
<tr>
<td></td>
<td>3401-022: D*Sub Accessories</td>
</tr>
<tr>
<td></td>
<td>3401-040: D*M Power Contacts</td>
</tr>
<tr>
<td></td>
<td>3401-072: D*M Backshells Lightweight</td>
</tr>
<tr>
<td></td>
<td>3401-080: Combo Savers</td>
</tr>
<tr>
<td></td>
<td>EPPL2: D<em>J filtered D</em>Sub Connectors</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Micro D</th>
<th>3401-029: MDM Connectors (non removable contacts)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>3401-077: MDMA Connectors (removable contacts)</td>
</tr>
<tr>
<td></td>
<td>3401-078: MDMA Contacts</td>
</tr>
<tr>
<td></td>
<td>3401-032: Micro Accessories</td>
</tr>
<tr>
<td></td>
<td>3401-041: MDM Savers Connectors</td>
</tr>
</tbody>
</table>

| Micro Strip        | 3401-031: MTB1 Connectors                          |

### MIL QUALIFICATIONS

| 24308-6:          | D*MA Receptable without contacts                  |
| 24308-8:          | D*MA Plug without contacts                        |
| 24308-5:          | D*M Receptable solder type                        |
| 24308-7:          | D*M Plug solder type                              |
| 24308-23:         | D*M Receptable 90° PCB type                       |
| 24308-24:         | D*M Plug 90° PCB type                             |

### NASA/GSFC QUALIFICATIONS

- GSFC S-311-P-10: D*M Connector solder cup
- GSFC S-311-P-40/7: D*MA HD without contact
- GSFC S-311-P-40/9: D*MA SD without contact

### FR022 QUALITY LEVEL

“Engineering model”
Connector Specification FR022, amendment to the ESA/ESCC
Generic Specification 3401, for low cost products manufactured:
- In the same ESA qualified site
- Through the same manufacturing and control processes
- With the same piece parts
- With lighter controls, documentation and traceability

### CUSTOM DESIGN

C&K Components expertise and capabilities allow the design and manufacture of custom products and solutions that match the specific requirements of our customers. C&K custom products and solutions can cover the terminations, cables, harnesses, rear potting, hardware, and backshells.
Please visit www.ck-components.com to view C&K’s full product offering and list of partners and distributors. The “Ask a specialist” function on the website allows direct contact to each C&K product manager to leverage your C&K product knowledge.