



# Space – Why Harwin?

**Not just in the sky, but on the ground, your multi-million dollar industry requires the best quality in every single component.** We provide you with high-reliability interconnects that have a proven track record from launch to the International Space Station.

**Harwin are certified to EN9100D / AS9100D,** and have been supplying to major manufacturers in this sector for many years. The growth of the CubeSat industry is driving the latest additions to our high-reliability connector ranges: Datamate, Gecko and M300.

Although quality and “must not fail” products are paramount, there’s still your budget to consider. Harwin products provide easy choices for SWaP-C\* optimization. Connectors in the high-reliability ranges perform under the most extreme environmental conditions of use: vibration & shock severity, high temperature and humidity.

\* SWaP-C = Size, Weight and Power, Cost








# Typical Space Applications

- Launch command, platform controls and telemetry, communication systems
- Flight controls, internal communications and datacomms
- Remote operations and tele-control, autonomous and interactive robotic assistance
- Radar systems, weather and collision detection
- Satellites and CubeSats



High Reliability Connectors					
					
Gecko-SL, Gecko-MT, Gecko Latch		Datamate J-Tek, Mix-Tek, Power, Coax, L-Tek		M300	
<ul style="list-style-type: none"> <li>• 2A signal, 10A power</li> </ul>	<ul style="list-style-type: none"> <li>• Outgassing levels meet NASA / ESA requirements</li> </ul>	<ul style="list-style-type: none"> <li>• 3A signal, up to 40A power, 50Ω coax</li> </ul>	<ul style="list-style-type: none"> <li>• Outgassing levels meet NASA / ESA requirements</li> </ul>	<ul style="list-style-type: none"> <li>• Up to 10A power</li> </ul>	<ul style="list-style-type: none"> <li>• Outgassing levels meet NASA / ESA requirements</li> </ul>
<ul style="list-style-type: none"> <li>• -65°C to +150°C; 20g Vibration, 100g Shock</li> </ul>	<ul style="list-style-type: none"> <li>• Components to full cable assemblies available</li> </ul>	<ul style="list-style-type: none"> <li>• -55°C to +125°C; 10g Vibration, 100g Shock</li> </ul>	<ul style="list-style-type: none"> <li>• Components to full cable assemblies available</li> </ul>	<ul style="list-style-type: none"> <li>• -65°C to +175°C; 20g Vibration, 100g Shock</li> </ul>	<ul style="list-style-type: none"> <li>• Components to full cable assemblies available</li> </ul>

EMC Shielding		PCB Sockets		PCB Hardware	
					
<ul style="list-style-type: none"> <li>• SMT Clips and removable Nickel Silver Cans</li> </ul>	<ul style="list-style-type: none"> <li>• Clips available in corner and very low profile</li> </ul>	<ul style="list-style-type: none"> <li>• 2A to 20A options; 2, 3, 4 and 6 beam contacts</li> </ul>	<ul style="list-style-type: none"> <li>• Mating pin sizes Ø0.46mm to Ø2.30mm</li> </ul>	<ul style="list-style-type: none"> <li>• SMT Test Points &amp; Cable management clips</li> </ul>	<ul style="list-style-type: none"> <li>• Fixed &amp; Removable Jumper links</li> </ul>
<ul style="list-style-type: none"> <li>• 0.15/0.2/0.3mm thick cans ideal for high frequency</li> </ul>	<ul style="list-style-type: none"> <li>• Easy for rework and maintenance</li> </ul>	<ul style="list-style-type: none"> <li>• SMT and Throughboard variations</li> </ul>	<ul style="list-style-type: none"> <li>• Hi-Rel contact design on Two-piece sockets</li> </ul>	<ul style="list-style-type: none"> <li>• Coin Cell Holders</li> </ul>	<ul style="list-style-type: none"> <li>• Terminals &amp; Spacers/Pillars/Standoffs</li> </ul>