

# Gecko Connectors Specifications

## Materials

Mouldings:	Glass-filled High Temperature Thermoplastic UL94V-0
Female contacts:	Beryllium Copper
Male contacts	
PCT/SMT:	Phosphor Bronze
Crimp:	Brass
Finish:	0.2 – 0.3µm (8 – 12µ") Gold, over 1.5 – 2.0µm (60 – 80µ") Nickel
Screw-Loks:	Stainless Steel
Latches:	Copper Alloy

## Electrical

<b>Current</b>	
Individual contacts in isolation:	2.8A max (At 25°C)
All contacts simultaneously:	2.0A max (At 25°C)
<b>Working voltage</b>	
At sea level 1006 mbar:	450V DC or AC peak
At altitude 44 mbar:	250V DC or AC peak
<b>Voltage proof</b>	
At sea level 1013 mbar:	600V DC or AC peak
<b>Contact resistance</b>	
Initial:	20mΩ max
After conditioning:	25mΩ max
<b>Insulation resistance</b>	
Initial:	10GΩ min at 500V DC
After conditioning:	>1GΩ min at 500V DC

## Mechanical

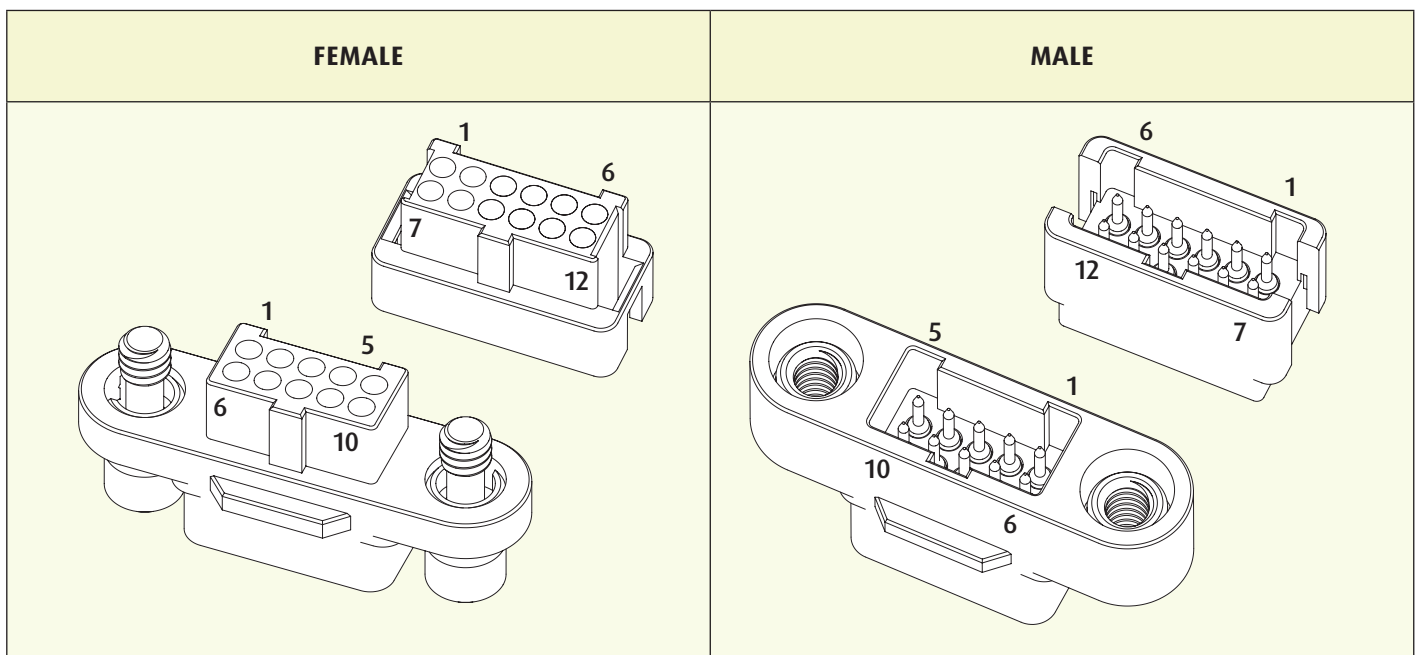
Contact durability:	1000 operations
<b>Mating forces (per contact pair)</b>	
Insertion force:	2.8N max
Withdrawal force:	0.2N min
Contact retention in moulding:	6N min

## Environmental

Environmental classification:	65/150/56 days at 93% RH
Operating temperature:	-65°C to +150°C
*Vibration sensitivity:	10Hz to 2000Hz, 1.5mm, 198mm/s <sup>2</sup> (20G) duration 6 hours
*Bump severity:	390m/s <sup>2</sup> (40G), 4000 ±10 bumps
*Shock severity:	981m/s <sup>2</sup> (100G) for 6ms in Z axis 490m/s <sup>2</sup> (50G) for 11ms in X & Y axes
*Acceleration severity:	490m/s <sup>2</sup> (50G)

\* Tested with latched connectors.

# Pin Numbering



Patent Published