

# Datamate J-Tek Specification

## Materials

<b>Housings:</b>	Glass-filled thermoplastic UL94V-0
<b>Female contacts</b>	
Standard J-Tek:	Brass shell, with Beryllium Copper inner contact
T-Contact:	Beryllium Copper
<b>Male contacts:</b>	Copper alloy
<b>Finish:</b>	See individual pages

## Electrical

### Current - Standard J-Tek

Individual contacts in isolation:	3.3A max (at 25°C) 2.6A max (at 85°C)
All contacts simultaneously:	3.0A max (at 25°C) 2.2A max (at 85°C)
Flex Circuit Assembly:	1.0A max per track (at 25°C)

### Current - T-Contact

Individual contacts in isolation:	8.5A max (at 25°C) 6.5A max (at 85°C)
All contacts simultaneously:	3.5A max (at 25°C) 2.6A max (at 85°C)

### Working voltage

At sea level 1013 mbar:	800V DC or AC peak
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### Voltage proof

At sea level 1013 mbar:	1,200V DC or AC peak
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### Contact resistance

Initial:	20mΩ max
After conditioning:	25mΩ max

### Insulation resistance

Initial:	1,000MΩ min
After conditioning:	100MΩ min

## Mechanical

### Durability

Standard J-Tek:	500 operations
T-Contact:	1,000 operations

### Insertion force (max)

Standard J-Tek:	2.8N
T-Contact:	4.0N

### Withdrawal force (min)

Standard J-Tek:	0.2N
T-Contact:	0.5N

### Signal crimp accommodation:

22 AWG to 32 AWG BS 3G 210 Type A, MIL-W-16878
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## Environmental

**Environmental classification:** 55/125/56 days at 95% RH

**Operational temperature:** -55°C to +125°C

### \*Vibration sensitivity

Standard J-Tek:	10Hz to 2000Hz, 0.75mm, 98m/s <sup>2</sup> (10G), duration 6 hours
T-Contact:	10Hz to 2000Hz, 0.75mm, 390m/s <sup>2</sup> (40G), duration 6 hours

### \*Bump severity:

390m/s<sup>2</sup> (40G), 4000 ±10 bumps

### \*Shock severity:

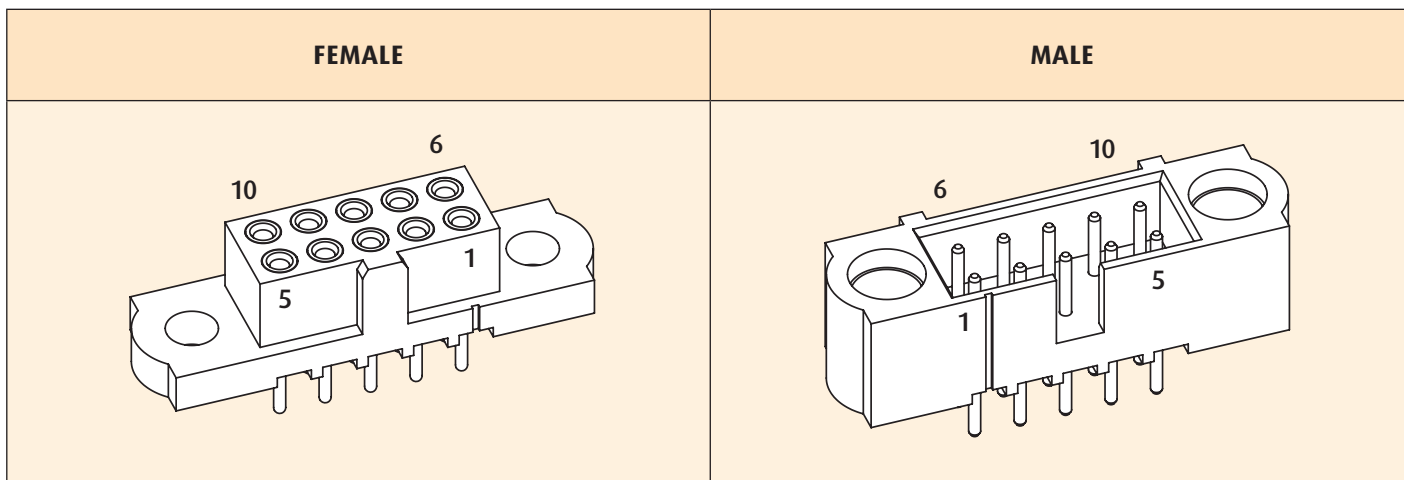
981m/s<sup>2</sup> (100G) for 6ms

### \*Acceleration severity:

490m/s<sup>2</sup> (50G)

\* Tested with connectors with Jackscrews.

# Pin Numbering



All dimensions in mm.