# **Datamate Specification**

### latamate **3-Row**

#### : Materials

Mouldings: Glass-filled thermoplastic UL94V-0 Female contacts: Brass shell, with Beryllium Copper inner contact

Male contacts: Phosphor bronze See individual pages Finish.

#### : Electrical

Current (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)

Working Voltage

(at sea level 1013 mbar):

800V DC or ACrms

Proof Voltage

(at sea level 1013 mbar): Contact resistance (initial):

1200V DC or ACrms 20 mO max

Contact resistance (after conditioning):

25 m $\Omega$  max

Insulation resistance (initial): Insulation resistance

1000 MO min

(after conditioning):

 $100 \text{ M}\Omega \text{ min}$ 

Durability: 500 operations

Insertion force (max): Withdrawal force (min): 0.2N

Signal crimp accommodation: 22 AWG to 28 AWG

BS 3G 210 Type A or MIL-DTL-16878/6 Type ET

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

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

\*Vibration sensitivity: 10Hz to 2000Hz, 0.75mm, 98m/s<sup>2</sup>

(10G), duration 6h

390m/s<sup>2</sup> (40G), 4000 ±10 bumps \*Bump severity:

\*Shock severity: 981m/s<sup>2</sup> (100G) for 6ms

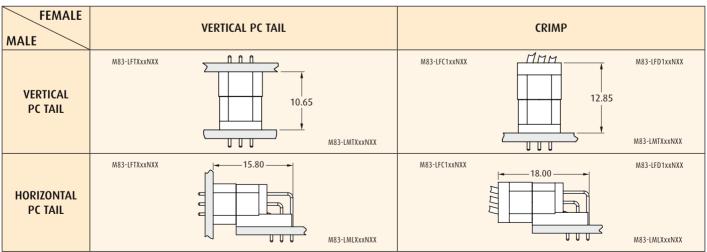
\*Acceleration severity: 490m/s<sup>2</sup> (50G)

# Pin Numbering



Contact numbering is shown looking onto mating face of male connector.

# Mating Profiles





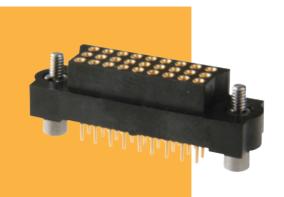
<sup>\*</sup> Tested with connectors with Jackscrews.

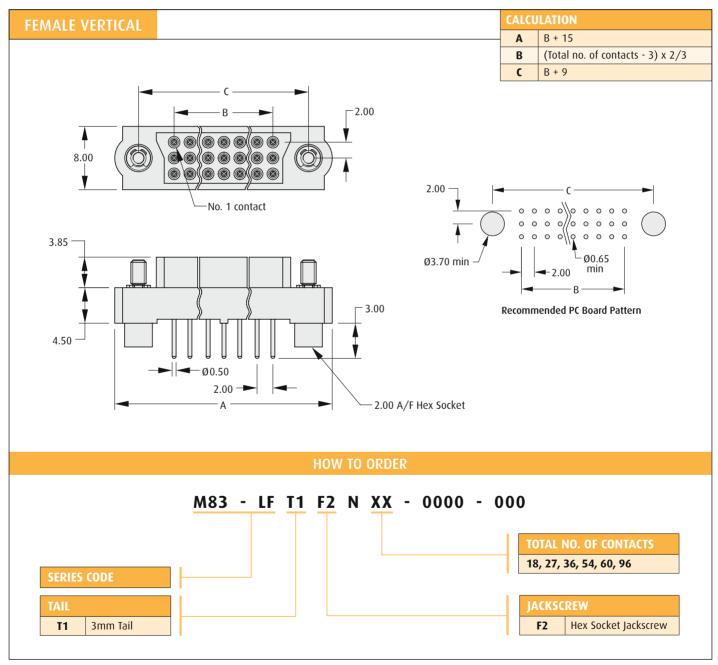
## **Datamate Connectors**

### Datamate **3-Row**

#### Female Vertical PC Tail

- Low-force 4-finger Beryllium Copper contact clip.
- Fully shrouded contacts.
- Polarised mouldings.
- ♣ All contacts are gold finish for full RoHS compliance.
- ▶ Mates with male connectors shown on pages 69 and 70.

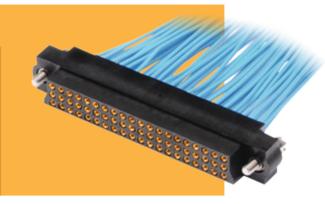


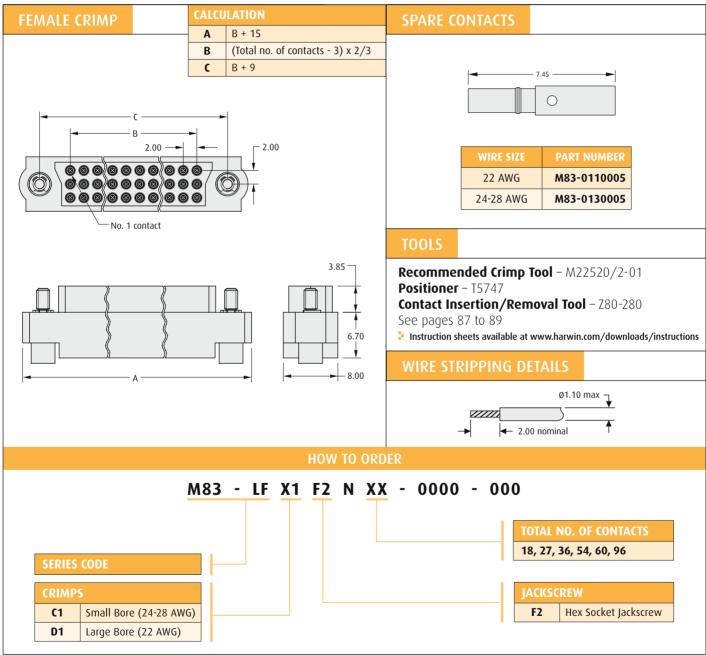


### M83 Datamate Connectors Datamate 3-Row

### Female Crimp

- ▶ Part numbers are for a kit of housing and contacts.
- Low-force 4-finger Beryllium Copper contact clip.
- at www.harwin.com.



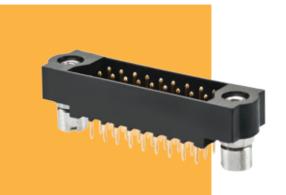


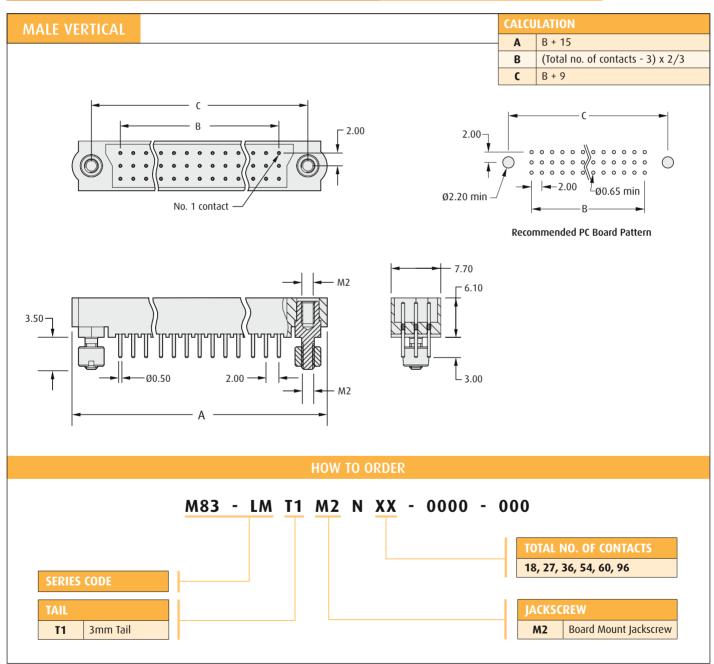
## **Datamate Connectors**

### Datamate 3-Row

#### Male Vertical PC Tail

- ➤ Board Mount nuts to be tightened to a maximum torque of 23cmN.
- Fully shrouded contacts.
- Polarised mouldings.
- ♣ All contacts are gold finish for full RoHS compliance.
- ► Mates with female connectors shown on pages 67 and 68.





### **Datamate Connectors**

### Datamate 3-Row

#### Male Horizontal PC Tail

- ➤ Board Mount screws to be tightened to a maximum torque of 23cmN.
- **▶** Suitable for motherboard/daughterboard configurations
- Fully shrouded contacts, polarised mouldings.
- ▶ All contacts are gold finish for full RoHS compliance.
- ► Mates with female connectors shown on pages 67 and 68.

