CLARKE & SEVERN ELECTRONICS

Solutions that Fit - From One Source

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Datamate J-Tek 3-Row Specificatior

Housings: Female contacts:

Male contacts:

Glass-filled thermoplastic UL94V-0 Brass shell, with Beryllium Copper inner contact Phosphor bronze Gold

Durability:	5
Insertion force (max):	1
Withdrawal force (min):	0
Signal crimp accommodation:	2
	E

500 operations .0N 0.2N 22 AWG to 28 AWG BS 3G 210 Type A or MIL-DTL-16878/6 Type ET

Environmental

Environmental classification:
Operational temperature:
*Vibration sensitivity:

*Bump severity: *Shock severity: *Acceleration severity: 55/125/56 days at 95% RH -55°C to +125°C 10Hz to 2000Hz, 0.75mm, 98m/s² (10G), duration 6h 390m/s² (40G), 4000 ±10 bumps 981m/s² (100G) for 6ms 490m/s² (50G)

* Tested with connectors with Jackscrews.

IPC

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)

Working voltage

At sea level 1013 mbar: Voltage proof

At sea level 1013 mbar: Contact resistance

Initial: After conditioning:

Insulation resistance Initial: After conditioning:

2.2A max (at 85°C) 800V DC or ACrms

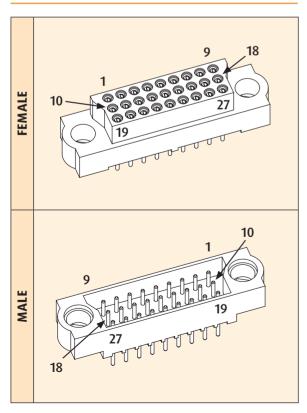
1200V DC or ACrms

20mΩ max

25mΩ max

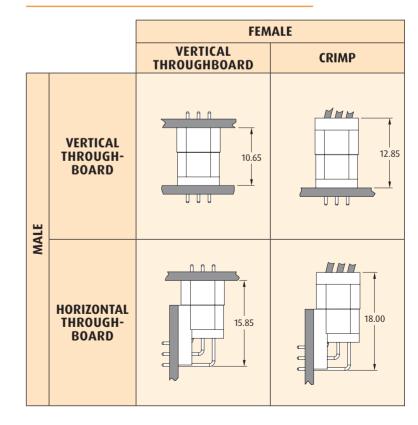
1000MΩ min 100M0 min

Pin Numbering



All dimensions in mm.

Mating Profiles

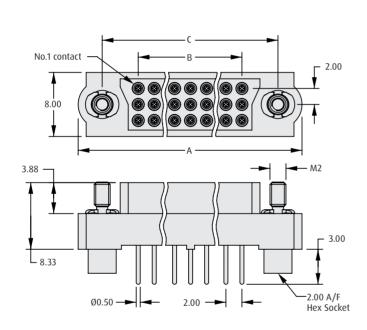


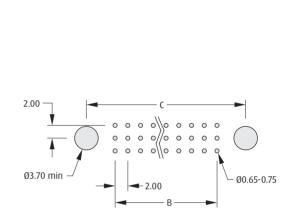


Female Vertical Throughboard

- Low-force 4-finger Beryllium Copper contact clip.
- Fully shrouded contacts.
- Polarized housings.
- All contacts are gold finish for full RoHS compliance.
- Mates with all Datamate 3-Row male connectors with compatible jackscrews.

THROUGHBOARD





CALCULATION

A B

C

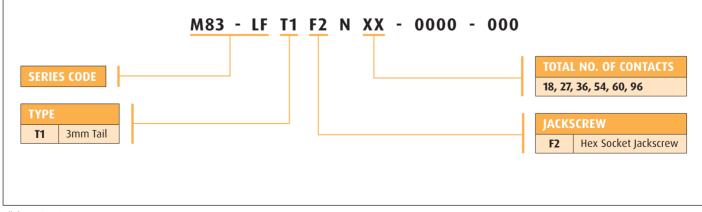
B + 15

B + 9

(Total no. of contacts - 3) x 2/3

Recommended PC Board Pattern

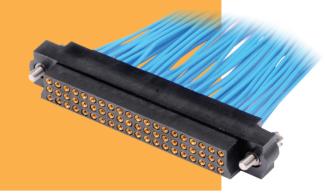
HOW TO ORDER



All dimensions in mm.

Female Crimp Kit

- Part numbers are for a complete kit of a housing and the applicable number of contacts.
- Jackscrews are assembled where specified
- Crimp contacts are rear insertable.
- Low-force 4-finger Beryllium Copper contact clip.
- Spare contacts are available



IARWIN

CALCULATION **FEMALE CRIMP** B + 15 Α (Total no. of contacts - 3) x 2/3 B No.1 contact С B + 9 **2.00** 0000 00 000 00000 00000 2.00 -·M2 3 88 10.55 - 8.00 2.00 A/F Hex Socket TOOLS WIRE STRIPPING DETAILS Recommended Crimp Tool - M22520/2-01 Ø1.10 max Positioner - T5747 Contact Insertion/Removal Tool - Z80-280 Spare contacts shown on following pages. Instruction sheets available at - 2.00 www.harwin.com/instructions. M83 - LF X1 F2 N XX - 0000 - 000 TOTAL NO. OF CONTACTS 18, 27, 36, 54, 60, 96 TYPE **IACKSCREW** Small Bore (24-28 AWG) **C1** D1 Large Bore (22 AWG) F2 Hex Socket Jackscrew

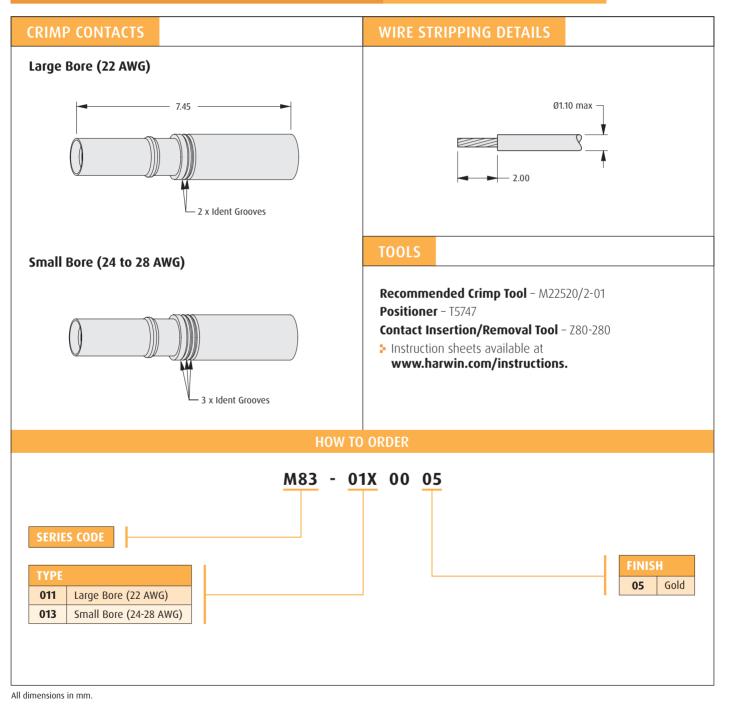
All dimensions in mm.

Spare Female Crimp Contacts

 Barrel Crimp Contacts are supplied with the connectors - see previous page. Use the order code for extra spare crimps.



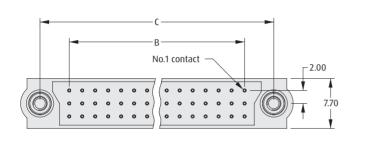
HARWIN

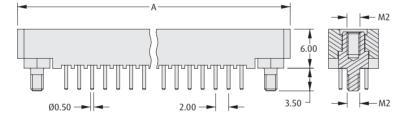


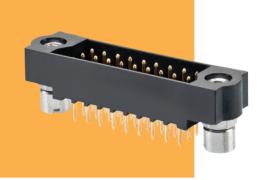
Male Vertical Throughboard

- Board Mount nuts to be tightened to a maximum torque of 23cmN.
- Fully shrouded contacts.
- Polarized housings.
- All contacts are gold finish for full RoHS compliance.
- Mates with all Datamate 3-Row female connectors with compatible jackscrews.

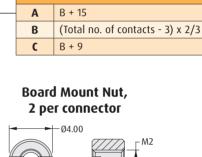
MALE VERTICAL

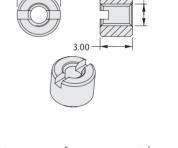


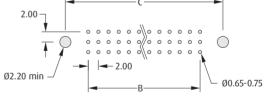




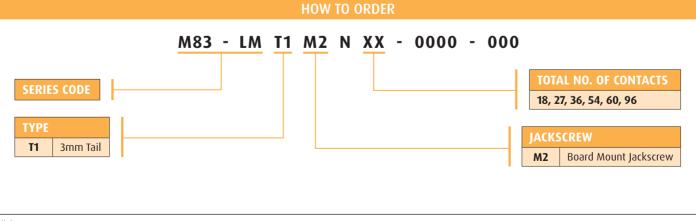
CALCULATION







Recommended PC Board Pattern

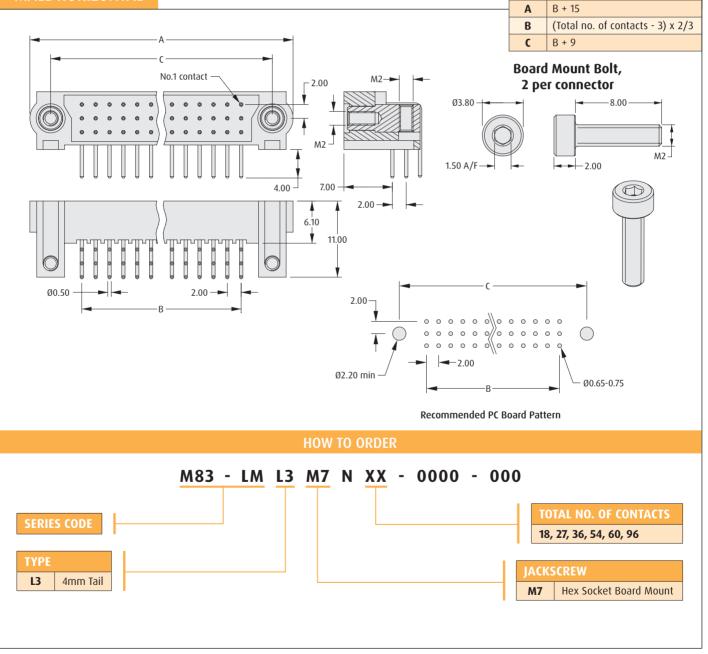


Male Horizontal Throughboard

- Board Mount screws to be tightened to a maximum torque of 23cmN.
- Suitable for motherboard/daughterboard configurations
- Fully shrouded contacts, polarized housings
- All contacts are gold finish for full RoHS compliance.
- Mates with all Datamate 3-Row female connectors with compatible jackscrews.

MALE HORIZONTAL

DATAMATE J-TEK 3-ROW



CALCULATION

IARWin

All dimensions in mm.