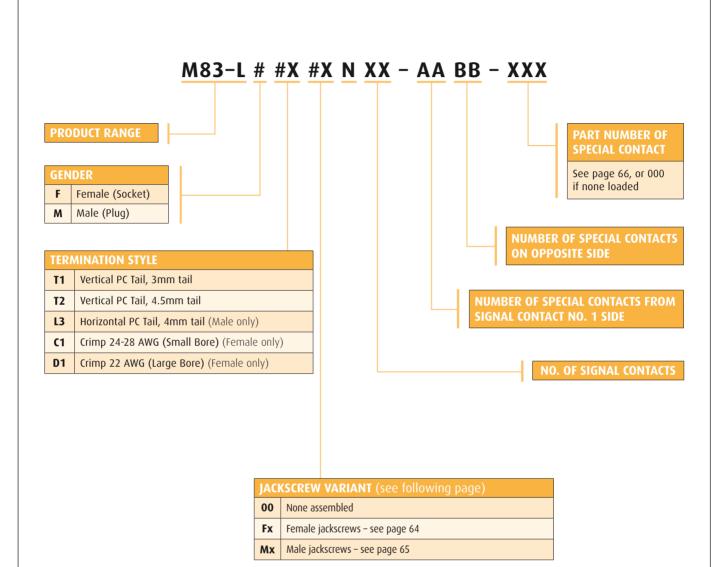
M83 Datamate Connectors Mixed Technology Series



See pages 67 to 76 for configurations currently available. Contact datamate@harwin.com for other variants













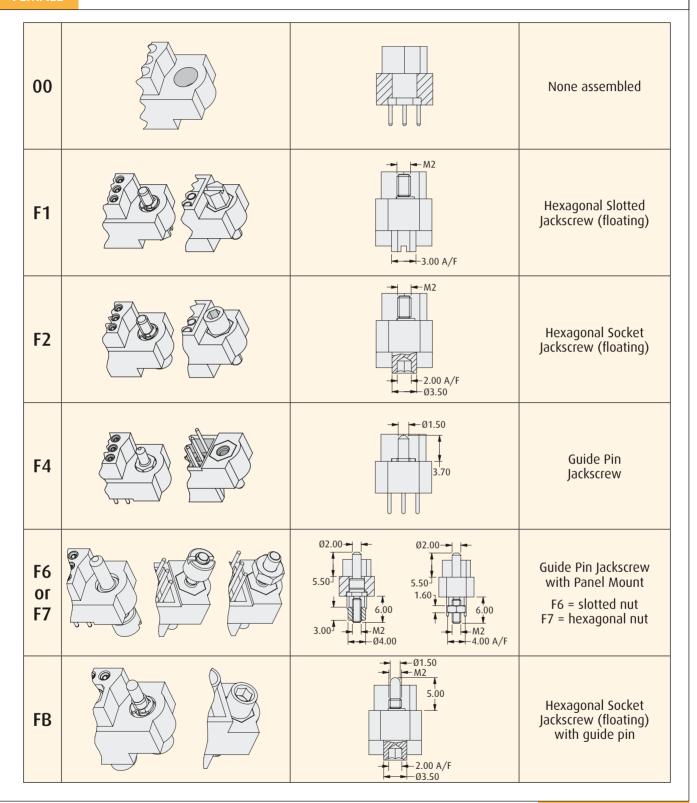






JACKSCREWS

FEMALE



All dimensions in mm.

www.harwin.com



















JACKSCREWS

M83 Datamate Connectors

00		None assembled
M1	I — M2	Jackscrew Nut only
M2 or M3	3.00 M2 M2 M2 M4.00	Jackscrew Nut with Vertical Board Mount stud M2 = 3.5mm stud length M3 = 5mm stud length
M5 or M7	M2	Jackscrew Nut with Horizontal Board Mount stud M5 = slotted head M7 = hexagonal socket





















SPECIAL CONTACTS

	FEMALE	
301 or 302		Vertical PC Tail 301 = 3.00mm tail 302 = 4.50mm tail
305 306 307		Straight Crimp 305 = Ø2.00mm cable 306 = Ø2.40mm cable 307 = Ø2.70mm cable

	MALE	
311 or 312		Vertical PC Tail 311 = 3.00mm tail 312 = 4.50mm tail
313 or 314		Horizontal PC Tail 313 = 3.00mm tail 314 = 4.50mm tail

POWER

	FEMALE		
321 or 322		Vertical PC Tail 321 = 3.50mm tail 322 = 5.00mm tail	
325 326 327		Straight Solder 325 = 12 AWG cable 326 = 14 AWG cable 327 = 16 AWG cable	

	MALE	
331 or 332		Vertical PC Tail 331 = 3.50mm tail 332 = 5.00mm tail
333 or 334		Horizontal PC Tail 333 = 3.00mm tail 334 = 4.50mm tail

Tail dimensions given are for the special contacts once assembled into the connector.















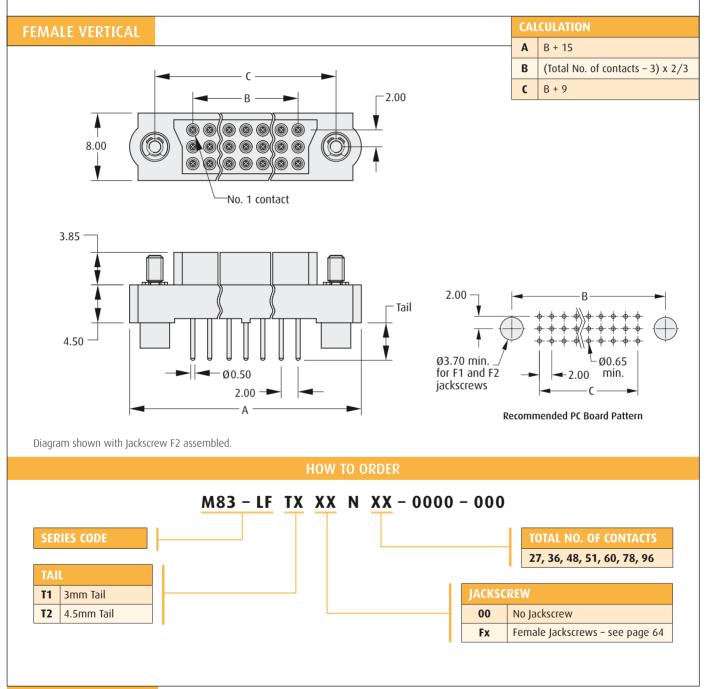






Female Vertical PC Tail

- **▶** Choice of compatible jackscrews.
- ♣ All contacts are gold finish for full RoHS compliance.
- See pages 68 and 69 for configurations including special contacts.
- Contact datamate@harwin.com for alternative contact configurations.



www.harwin.com















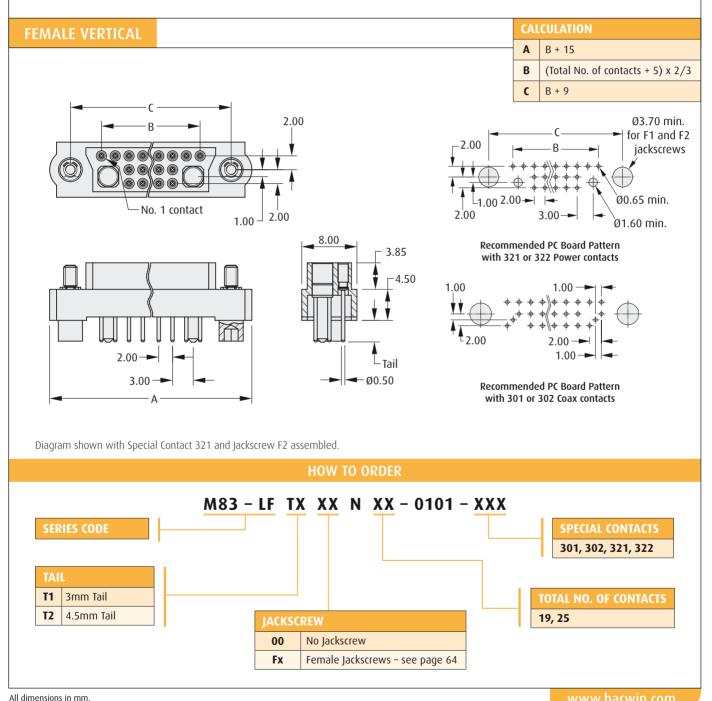




Female Vertical PC Tail

- **▶** Choice of compatible jackscrews and special contacts
- ♣ All contacts are gold finish for full RoHS compliance
- See page 67 for a signal-only configuration, and page 69 for an alternative mixed technology configuration.
- Contact datamate@harwin.com for alternative contact configurations.























Female Vertical PC Tail

- **▶** Choice of compatible jackscrews and special contacts
- ♣ All contacts are gold finish for full RoHS compliance.
- See page 67 for a signal-only configuration, and page 68 for an alternative mixed technology configuration.
- Contact datamate@harwin.com for alternative contact configurations.

Diagrams shown with special contact 321 and Jackscrew F4 assembled. 13 - 0302 CONFIGURATION 14 - 0700 CONFIGURATION 35.00 -20.00 29.00-26.00 **-2.00** Ø0.65 ¬ 2.00--20.00-2.00 No. 1 contact 0000000000 1.00 0000000 L_{2.00} Ø1.60 4.00 1.00 - No. 1 contact **--** 18.00-Recommended PC Roard Pattern 8.00 -**- 3.85** - 4 50 41.00 -26.00-2.00 - 4.00 Tail **-**2.00 Ø0.65 - Ø0.50 -35.00-Recommended 20 - 1000 CONFIGURATION -24.00-PC Board Pattern 47.00 -38.00 -No. 1 contact 000000000 -36.00 $\phi \phi \phi \phi$ 4.00 -36.00 Recommended PC Board Pattern M83 - LF TX XX N XX - XXXX - XXX **SPECIAL CONTACTS** 301, 302, 321, 322 **SERIES CODE** SIGNAL/SPECIAL CONFIGURATIONS **JACKSCREW** 13 - 0302 3mm Tail No Jackscrew 14 - 0700 4.5mm Tail Female Jackscrews - see page 64 20 - 1000

















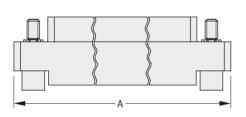




- **▶** Contact datamate@harwin.com for alternative



FEMALE CRIMP B + 15 Α (Total No. of contacts -3) x 2/3B + 9**−2.00**



No. 1 contact

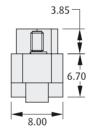


Diagram shown with Jackscrew F2 assembled.

WIRE STRIPPING DETAILS TOOLS

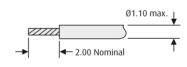
Recommended Crimp Tool – M22520/2-01

Positioner – T5747

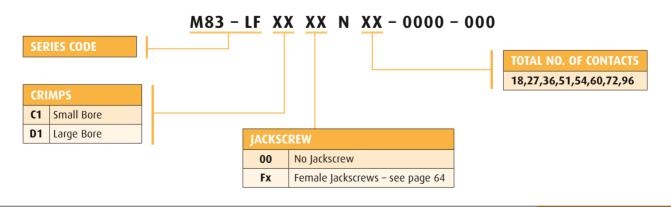
Contact Insertion/Removal Tool – Z80-280

See pages 77 to 79

Instruction sheets available at www.harwin.com/downloads/instructions



HOW TO ORDER















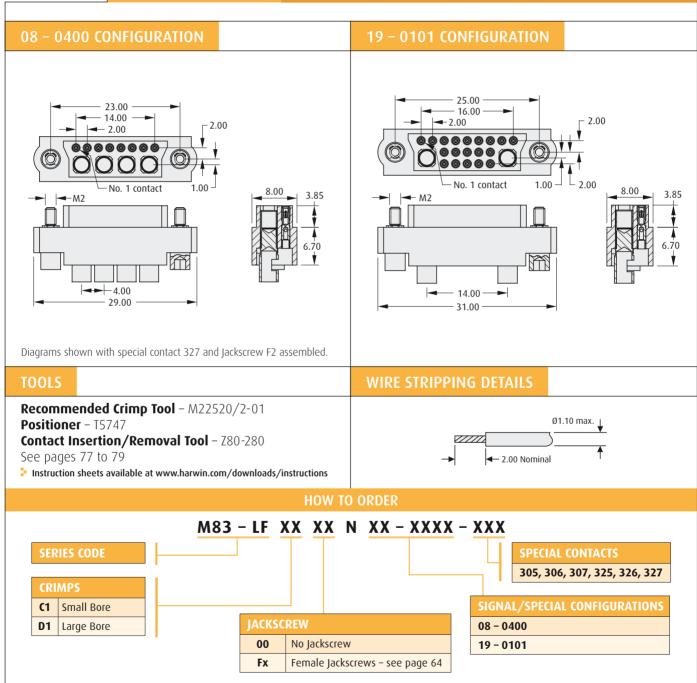








- **▶** Contact datamate@harwin.com for alternative

















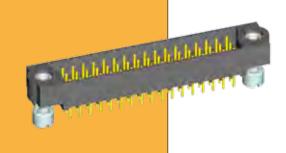




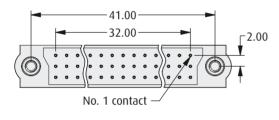


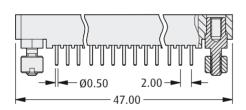
Male Vertical PC Tail

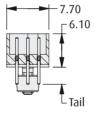
- Choice of compatible jackscrews.
- ♣ All contacts are gold finish for full RoHS compliance
- See page 73 for configurations including special contacts
- Contact datamate@harwin.com for alternative contact configurations.

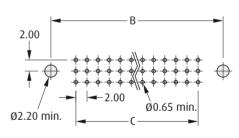


MALE VERTICAL CALCULATION A B + 15 B (Total No. Of contacts - 3) x 2/3 C B + 9



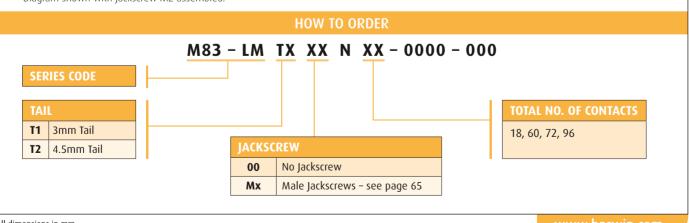






Recommended PC Board Pattern

Diagram shown with Jackscrew M2 assembled



All dimensions in mm.

www.harwin.com

















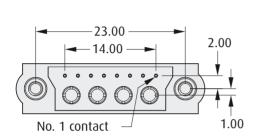


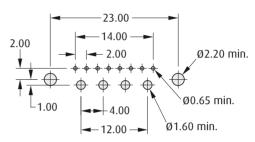
M83 Datamate Connectors Male Vertical PC Tail



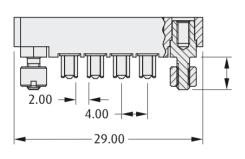
- contact configurations.

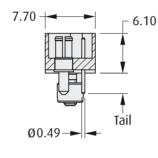
MALE VERTICAL

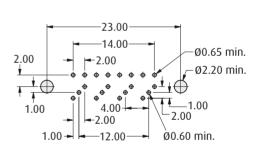




Recommended PC Board Pattern with 331 or 332 Power contacts



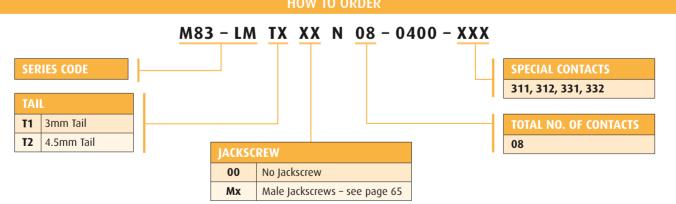




Recommended PC Board Pattern with 311 or 312 Coax contacts

Diagram shown with special contact 331 and Jackscrew M2 assembled.

HOW TO ORDER













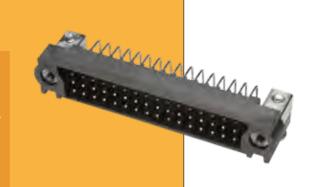








Male Horizontal PC Tail



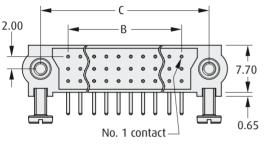
B + 15

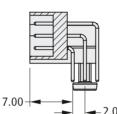
B + 9

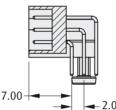
(Total No. of contacts - 3) x 2/3

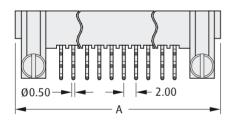
Α

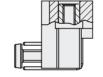
MALE HORIZONTAL











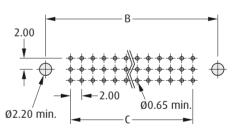


Diagram shown with Jackscrew M5 assembled.

Recommended PC Board Pattern

HOW TO ORDER



18, 27, 36, 48, 54, 60, 96

ACKSCREW 00 No Jackscrew Male Jackscrews – see page 65













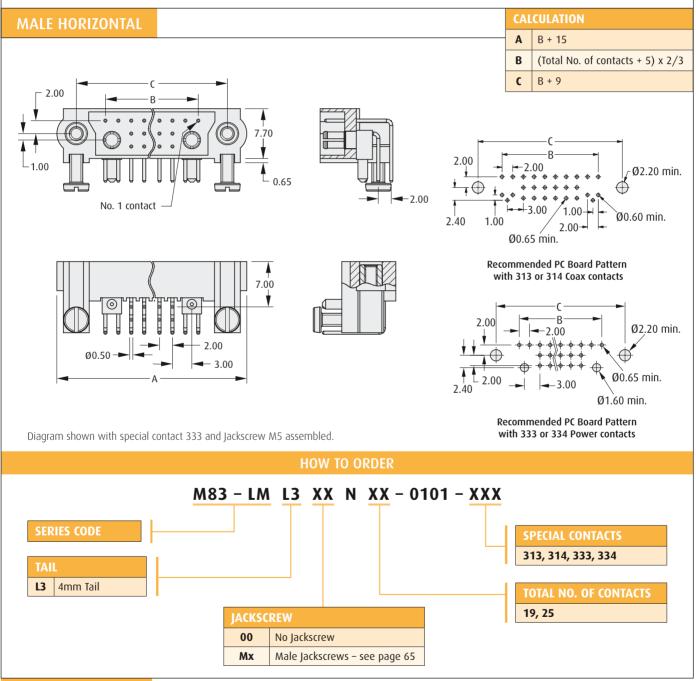






Male Horizontal PC Tail

- ♣ Choice of compatible jackscrews and special contacts
- All contacts are gold finish for full RoHS compliance
- See page 74 for a signal-only configuration, and page 76 for an alternative mixed technology configuration.
- Contact datamate@harwin.com for alternative contact configurations.



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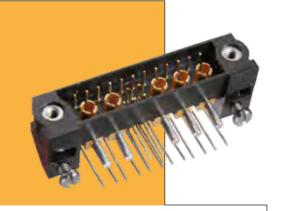




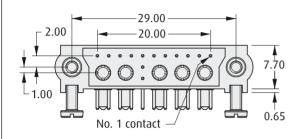


Male Horizontal PC Tail

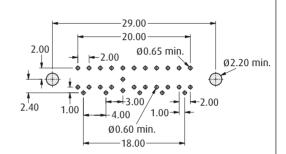
- Choice of compatible jackscrews and special contacts
- ♣ All contacts are gold finish for full RoHS compliance
- See page 74 for a signal-only configuration, and page 75 for an alternative mixed technology configuration.
- Contact datamate@harwin.com for alternative contact configurations.

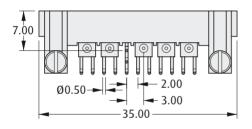


MALE HORIZONTAL

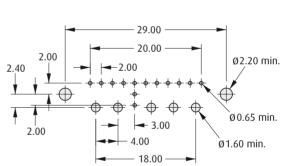










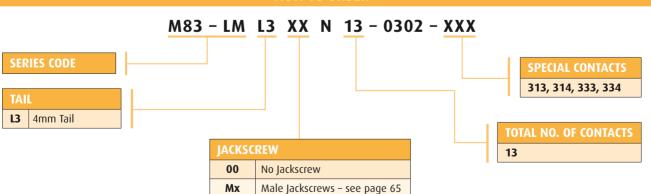


Recommended PC Board Pattern with 313 or 314 Coax contacts

Diagram shown with special contact 333 and Jackscrew M5 assembled.

Recommended PC Board Pattern with 333 or 334 Power contacts

HOW TO ORDER



All dimensions in mm.

www.harwin.com

















