

PART NUMBERING SYSTEM

M83-L - # #X #X N XX - AA BB - XXX

PRODUCT RANGE

GENDER

F	Female (Socket)
M	Male (Plug)

TERMINATION STYLE

T1	Vertical PC Tail, 3mm tail
T2	Vertical PC Tail, 4.5mm tail
L3	Horizontal PC Tail, 3mm tail Male only
C1	Crimp 24-28 AWG (Small Bore) Female only
D1	Crimp 22 AWG (Large Bore) Female only

PART NUMBER OF SPECIAL CONTACT

See following page, or 000 if none loaded

NUMBER OF SPECIAL CONTACTS ON OPPOSITE SIDE

NUMBER OF SPECIAL CONTACTS FROM SIGNAL CONTACT NO. 1 SIDE

NO. OF SIGNAL CONTACTS

JACKSCREW VARIANT (see following page)

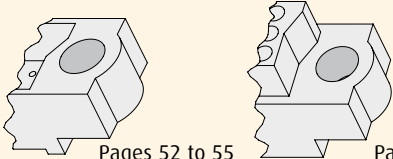
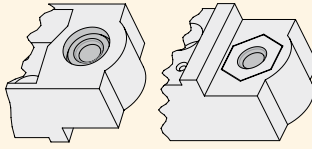
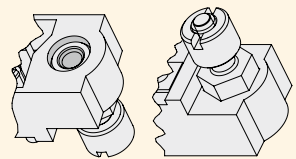
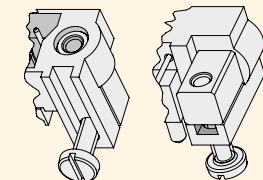
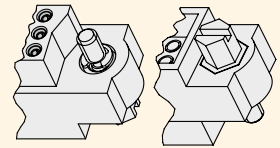
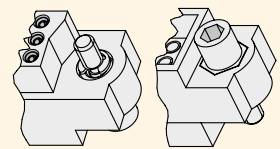
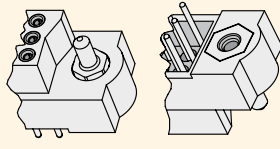
00	None assembled
F1	Hexagonal slotted jackscrew Female only
F2	Hex socket jackscrew Female only
F4	Panel Guide Female only
M1	Jackscrew nut only Male only
M2	Jackscrew nut with vertical 3.5mm board mount stud Male only
M3	Jackscrew nut with vertical 5mm board mount stud Male only
M5	Jackscrew nut with horizontal 5mm board mount bolt Male only

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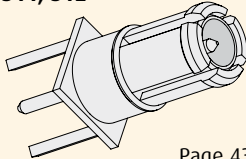
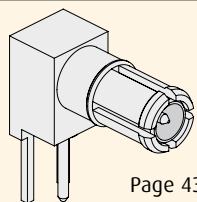
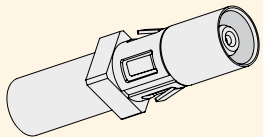
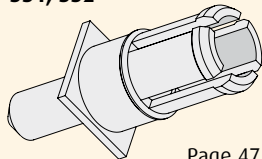
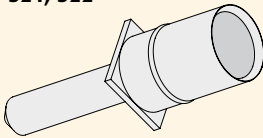
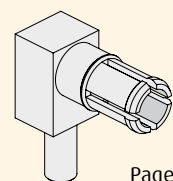
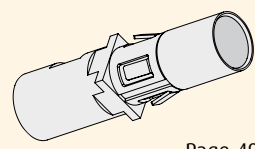


JACKSCREWS

SPECIAL CONTACTS

NONE ASSEMBLED (MALE & FEMALE)	
00	 <p>Pages 52 to 55 Pages 56 to 60</p>
FOR MALE ASSEMBLIES	
M1	 <p>Jackscrew Nut Only Pages 52 to 55</p>
M2 or M3	 <p>Jackscrew Nut with Vertical Board Mount Stud Page 52</p>
M5	 <p>Jackscrew Nut with Horizontal Board Mount Stud Page 53 to 55</p>
FOR FEMALE ASSEMBLIES	
F1	 <p>Hexagonal Slotted Jackscrew Pages 56 to 60</p>
F2	 <p>Hex Socket Jackscrew Pages 56 to 60</p>
F4	 <p>Guide Pin Pages 56 to 60</p>

*See following pages for dimensional information.

MALE	FEMALE	
311, 312  Page 43		COAX
313, 314  Page 43		
	305, 306, 307  Page 46	
331, 332  Page 47	321, 322  Pages 58, 59	POWER
333, 334  Page 47		
	325, 326, 327  Page 49	

*See pages listed above for dimensional information.

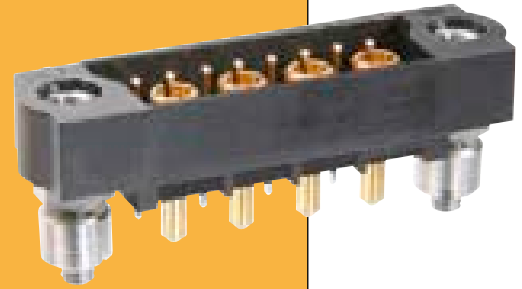
www.harwin.com



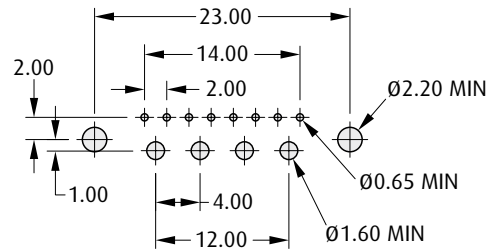
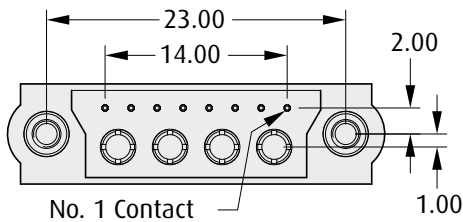
M83 Datamate Connectors

Male Vertical

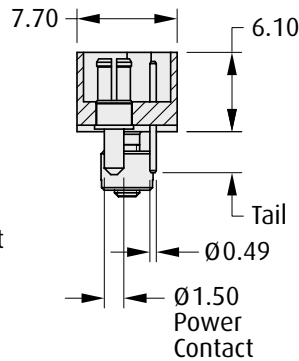
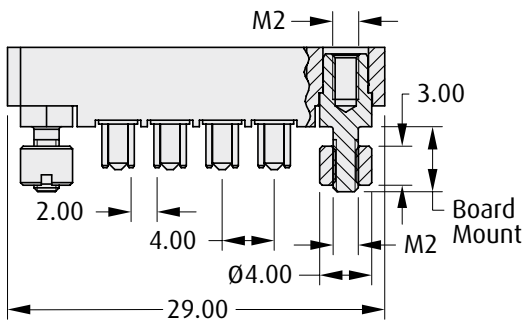
- ❖ Choice of compatible jackscrews and special contacts.
- ❖ All contacts are gold finish for full RoHS compliance.
- ❖ Contact datamate@harwin.com for alternative contact configurations.



MALE VERTICAL



Recommended PC Board Pattern



Diagrams shown with special contact 331 and Jackscrew M2 assembled.

HOW TO ORDER

M83 - LM TX XX N 08 - 0400 - XXX

SERIES CODE

TAIL

T1	3mm Tail
T2	4.5mm Tail

JACKSCREW

00	No Jackscrew
M1	Jackscrew Nut
M2	3.5mm Board Mount
M3	5mm Board Mount

SPECIAL CONTACTS

311, 312, 331, 332

TOTAL NO. OF CONTACTS

08

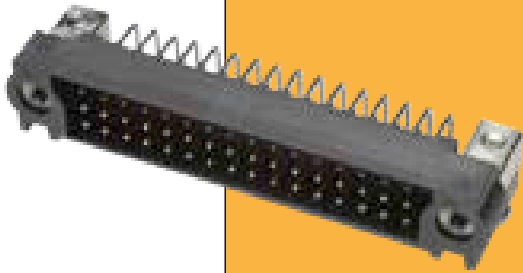
All dimensions in mm.

www.harwin.com



M83 Datamate Connectors

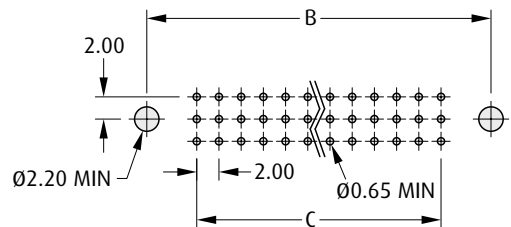
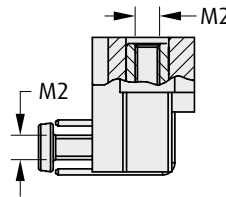
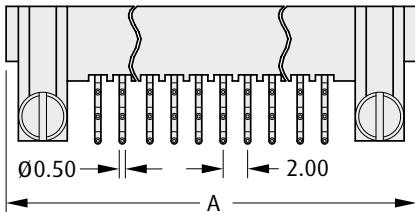
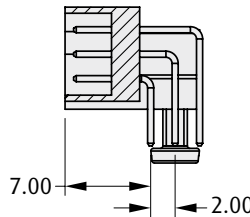
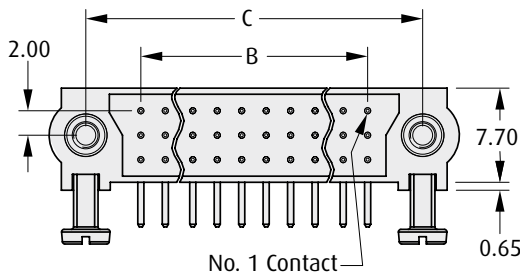
Male Horizontal



- ❖ Choice of compatible jackscrews.
- ❖ All contacts are gold finish for full RoHS compliance.
- ❖ See pages 54 and 55 for configurations including special contacts.
- ❖ Contact datamate@harwin.com for alternative contact configurations.

MALE HORIZONTAL

CALCULATION



Recommended PC Board Pattern

Diagrams shown with Jackscrew M5 assembled.

A	$B + 15$
B	$(\text{Total No. of contacts} - 3) \times 2/3$
C	$B + 9$

HOW TO ORDER

M83 - LM L3 XX N XX - 0000 - 000

SERIES CODE

TAIL
L3 4mm Tail

TOTAL NO. OF CONTACTS

18, 27, 36, 48, 60, 96

JACKSCREW

00	No Jackscrew
M1	Jackscrew Nut
M5	5mm Board Mount

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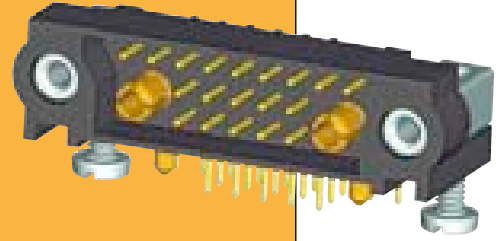
All dimensions in mm.



M83 Datamate Connectors

Male Horizontal

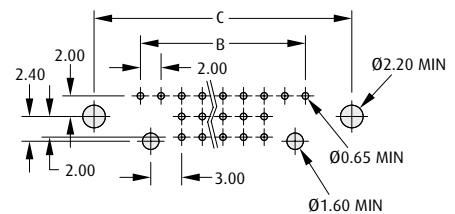
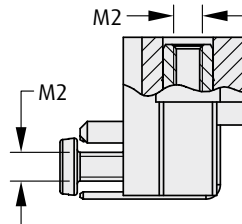
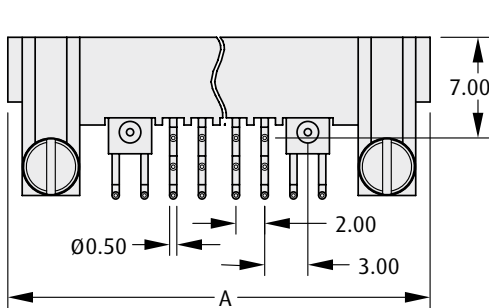
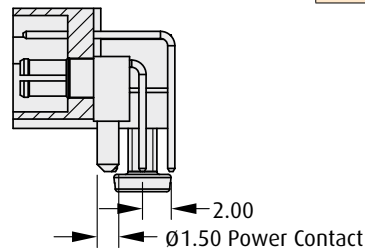
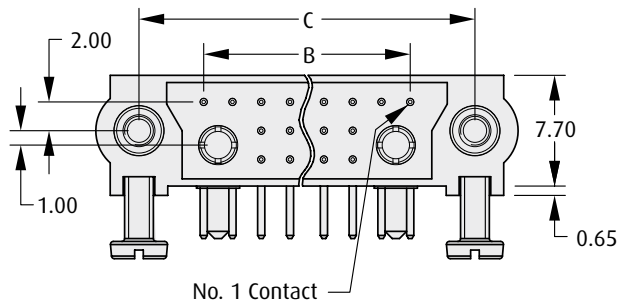
- ❖ Choice of compatible jackscrews and special contacts.
- ❖ All contacts are gold finish for full RoHS compliance.
- ❖ See page 53 for a signal-only configuration, and page 55 for an alternative mixed technology configuration.
- ❖ Contact datamate@harwin.com for alternative contact configurations.



MALE HORIZONTAL

CALCULATION

A	$B + 15$
B	$(\text{Total No. of contacts} + 5) \times 2/3$
C	$B + 9$



Recommended PC Board Pattern

Diagrams shown with special contact 333 and Jackscrew M5 assembled.

HOW TO ORDER

M83 - LM L3 XX N XX - 0101 - XXX

SERIES CODE

TAIL

L3 4mm Tail

SPECIAL CONTACTS

311, 314, 333, 334

JACKSCREW

00	No Jackscrew
M1	Jackscrew Nut
M5	5mm Board Mount

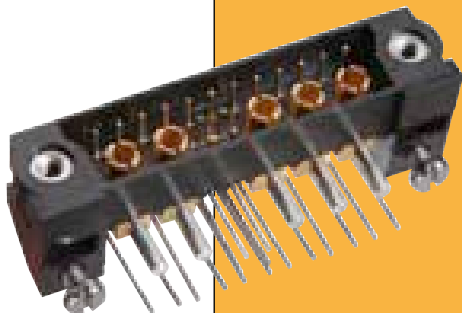
TOTAL NO. OF CONTACTS

19, 25

All dimensions in mm.

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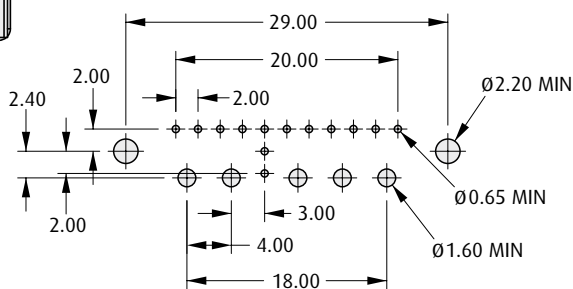
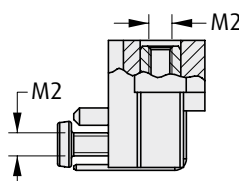
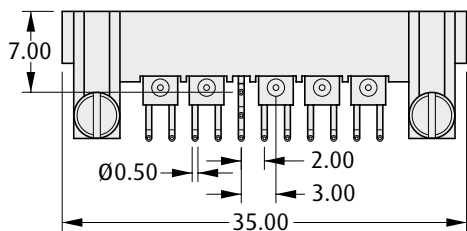
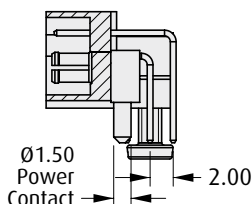
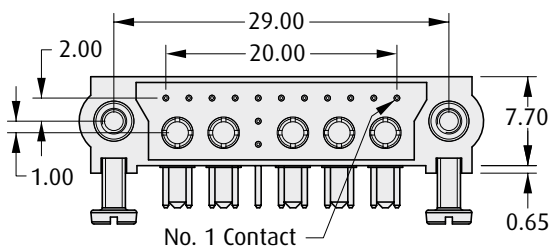


M83 Datamate Connectors

Male Horizontal

- ❖ Choice of compatible jackscrews and special contacts.
- ❖ All contacts are gold finish for full RoHS compliance.
- ❖ See page 53 for a signal-only configuration, and page 54 for an alternative mixed technology configuration.
- ❖ Contact datamate@harwin.com for alternative contact configurations.

MALE HORIZONTAL



Diagrams shown with special contact 333 and Jackscrew M5 assembled.

Recommended PC Board Pattern

HOW TO ORDER

M83 - LM L3 XX N 13 - 0302 - XXX

SERIES CODE

TAIL

L3 4mm Tail

SPECIAL CONTACTS

313, 314, 333, 334

JACKSCREW

00	No Jackscrew
M1	Jackscrew Nut
M5	5mm Board Mount

TOTAL NO. OF CONTACTS

13

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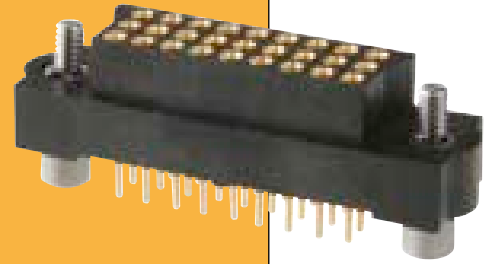
All dimensions in mm.



M83 Datamate Connectors

Female Vertical

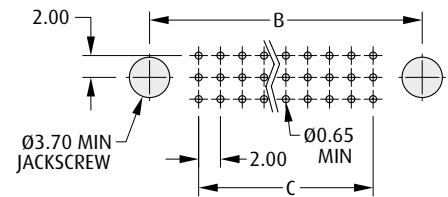
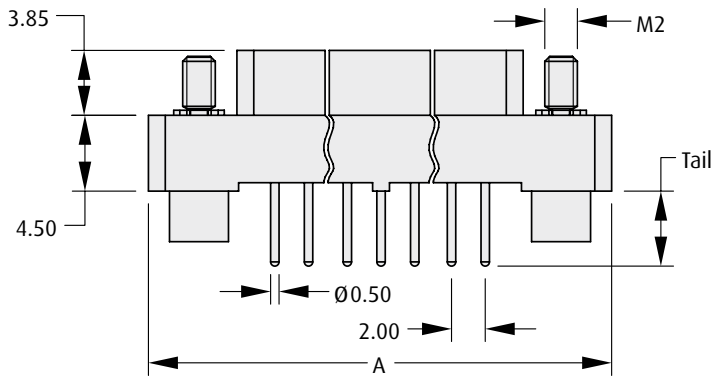
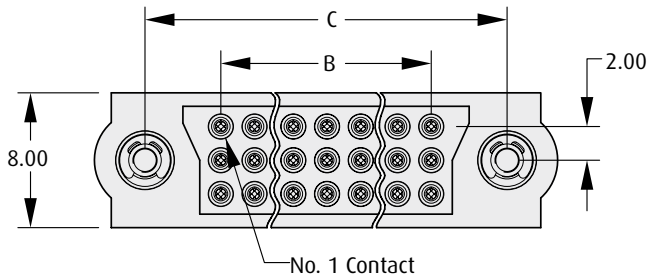
- ❖ Choice of compatible jackscrews.
- ❖ All contacts are gold finish for full RoHS compliance.
- ❖ See pages 57 and 58 for configurations including special contacts.
- ❖ Contact datamate@harwin.com for alternative contact configurations.



FEMALE VERTICAL

CALCULATION

A	$B + 15$
B	$(\text{Total No. of contacts} - 3) \times 2/3$
C	$B + 9$



Recommended PC Board Pattern

Diagrams shown with Jackscrew F2 assembled.

HOW TO ORDER

M83 - LF TX XX N XX - 0000 - 000

SERIES CODE	M83 - LF TX XX N XX	TOTAL NO. OF CONTACTS	27, 36, 48
TAIL	T1 3mm Tail T2 4.5mm Tail	JACKSCREW	00 No Jackscrew F1 Hex Slotted Jackscrew F2 Hex Socket Jackscrew F4 Guide Pin

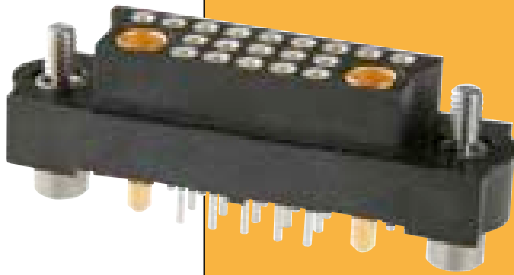
All dimensions in mm.

www.harwin.com



M83 Datamate Connectors

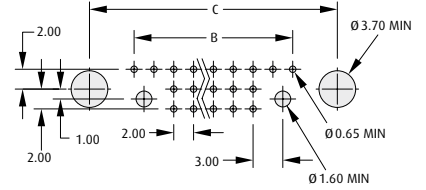
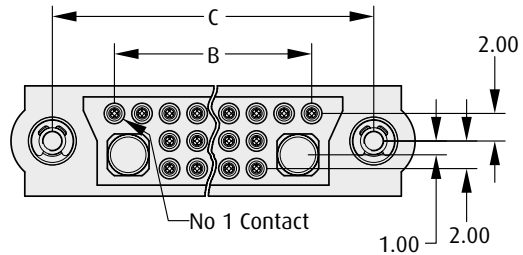
Female Vertical



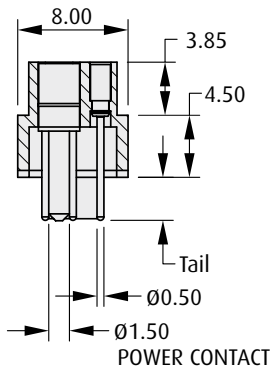
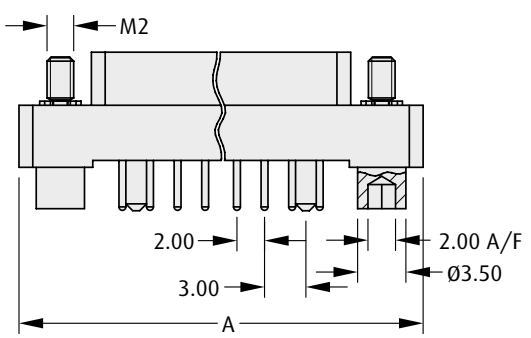
- Choice of compatible jackscrews and special contacts.
- All contacts are gold finish for full RoHS compliance.
- See page 56 for a signal-only configuration, and page 58 for an alternative mixed technology configuration.
- Contact datamate@harwin.com for alternative contact configurations.

FEMALE VERTICAL

CALCULATION



Recommended PC Board Pattern



Diagrams shown with Jackscrew F2 assembled.

HOW TO ORDER

M83 - LF TX XX N XX - 0101 - XXX

SERIES CODE

SPECIAL CONTACTS
301, 302, 321, 322

TAIL	
T1	3mm Tail
T2	4.5mm Tail

JACKSCREW	
00	No Jackscrew
F1	Hex Slotted Jackscrew
F2	Hex Socket Jackscrew
F4	Guide Pin

TOTAL NO. OF CONTACTS
19, 25

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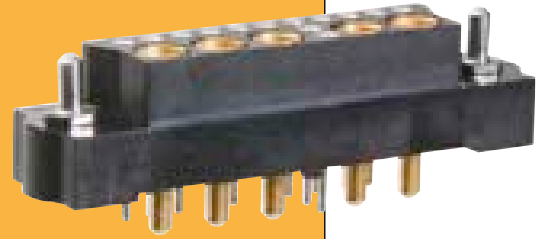
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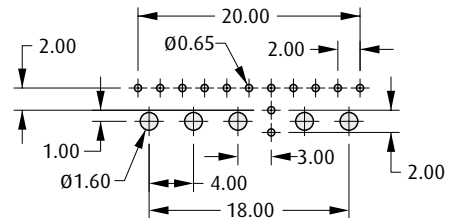
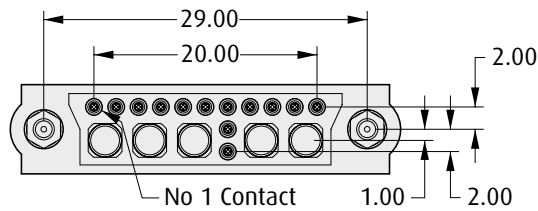
M83 Datamate Connectors

Female Vertical

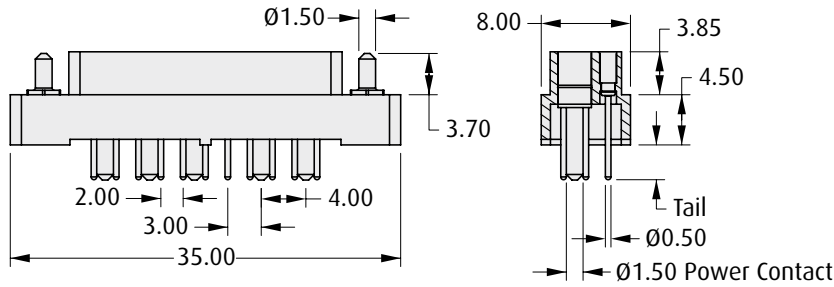
- ❖ Choice of compatible jackscrews and special contacts.
- ❖ All contacts are gold finish for full RoHS compliance.
- ❖ See page 56 for a signal-only configuration, and page 57 for an alternative mixed technology configuration.
- ❖ Contact datamate@harwin.com for alternative contact configurations.



FEMALE VERTICAL



Recommended PC Board Pattern



Diagrams shown with special contact 321 and Jackscrew F4 assembled.

HOW TO ORDER

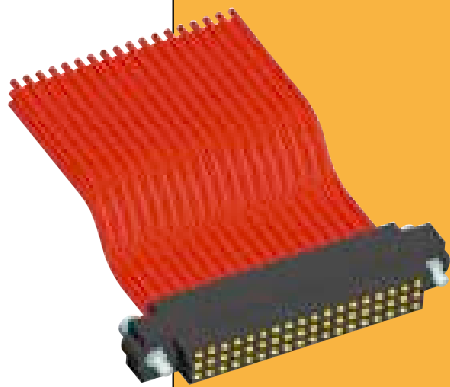
M83 - LF TX XX N 13 - 0302 - XXX

SERIES CODE	M83 - LF TX XX N	SPECIAL CONTACTS	301, 302, 321, 322
TAIL	T1 3mm Tail T2 4.5mm Tail	JACKSCREW	00 No Jackscrew F1 Hex Slotted Jackscrew F2 Hex Socket Jackscrew F4 Guide Pin
		TOTAL NO. OF CONTACTS	13

All dimensions in mm.

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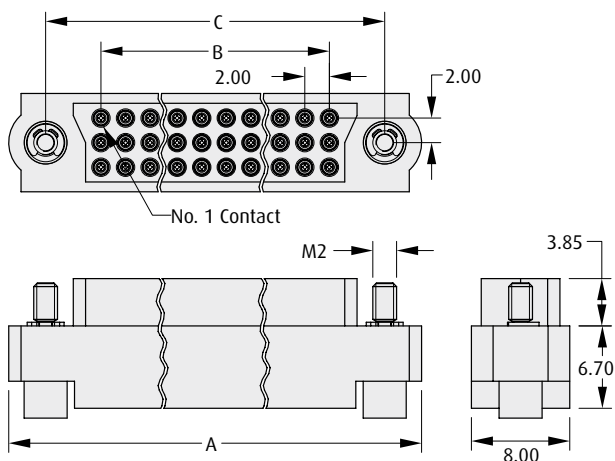


M83 Datamate Connectors

Female Crimp

- ❖ Choice of compatible jackscrews.
- ❖ All contacts are gold finish for full RoHS compliance.
- ❖ See page 60 for configurations including special contacts.
- ❖ Contact datamate@harwin.com for alternative contact configurations.

FEMALE CRIMP

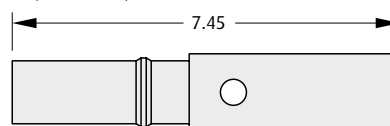


CALCULATION	
A	B + 15
B	(Total No. of contacts - 3) x 2/3
C	B + 9

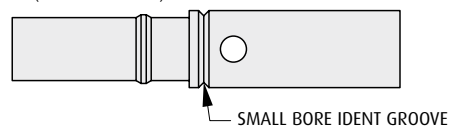
Diagrams shown with Jackscrew F2 assembled.

CRIMP CONTACTS

Large Bore (22 AWG):



Small Bore (24-28 AWG):

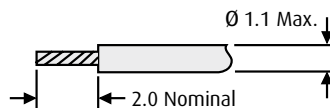


TOOLS

Recommended Crimp Tool - M22520/2-01
Positioner - T5747
Contact Insertion/Removal Tool - Z80-280
 See pages 61 to 62

❖ Instruction sheets available at www.harwin.com/Downloads/Instructions

WIRE STRIPPING DETAILS



HOW TO ORDER

M83 - LF XX XX N XX - 0000 - 000

SERIES CODE

CRIMPS	
C1	Small Bore
D1	Large Bore

SPECIAL CONTACTS
 18, 54, 60, 96

JACKSCREW	
00	No Jackscrew
F1	Hex Slotted Jackscrew
F2	Hex Socket Jackscrew
F4	Guide Pin

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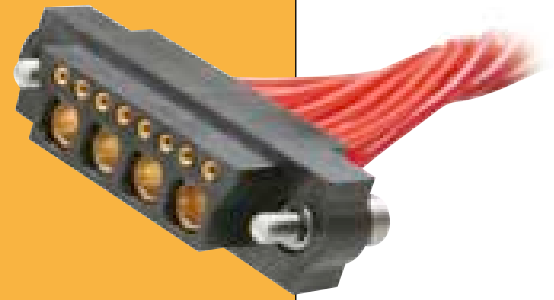
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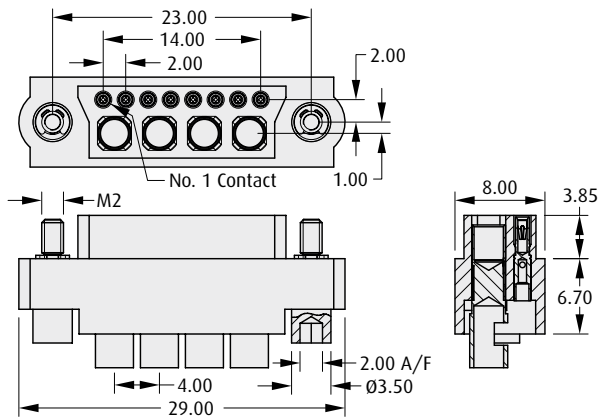
M83 Datamate Connectors

Female Crimp

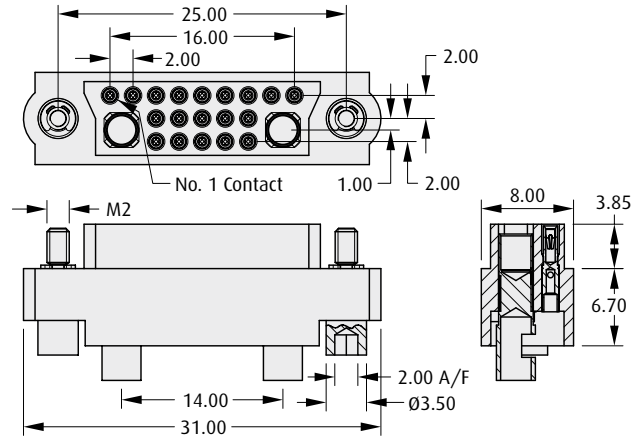
- ❖ Choice of compatible jackscrews and special contacts.
- ❖ All contacts are gold finish for full RoHS compliance.
- ❖ See page 59 for signal-only configurations.
- ❖ Contact datamate@harwin.com for alternative contact configurations.



08 - 0400 CONFIGURATION

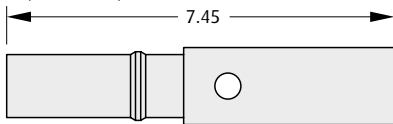


19 - 0101 CONFIGURATION

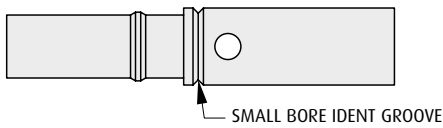


CRIMP CONTACTS

Large Bore (22 AWG):



Small Bore (24-28 AWG):



TOOLS

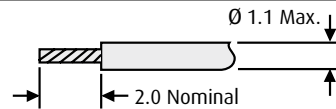
Recommended Crimp Tool - M22520/2-01
Positioner - T5747

Contact Insertion/Removal Tool - Z80-280

See pages 61 to 62

❖ Instruction sheets available at www.harwin.com/Downloads/Instructions

WIRE STRIPPING DETAILS



HOW TO ORDER

M83 - LF XX XX N XX - XXXX - XXX

SERIES CODE

CRIMPS

C1	Small Bore
D1	Large Bore

JACKSCREW

00	No Jackscrew
F1	Hex Slotted Jackscrew
F2	Hex Socket Jackscrew
F4	Guide Pin

SPECIAL CONTACTS

305, 306, 307, 325, 326, 327

SIGNAL/SPECIAL CONFIGURATIONS

08 - 0400
19 - 0101

All dimensions in mm.

www.harwin.com

