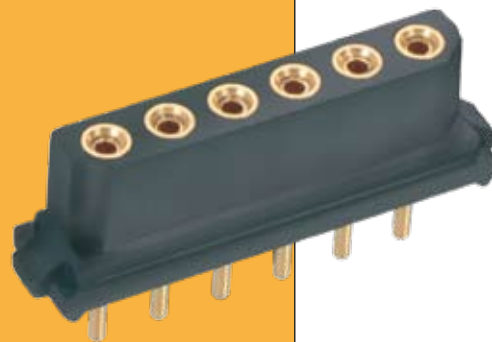


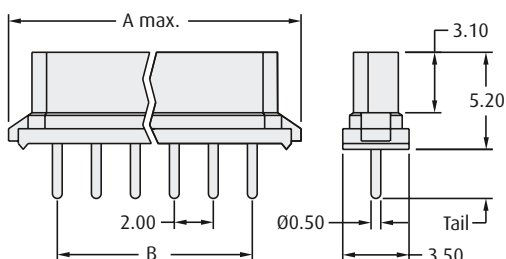
# Datamate Connectors

## Female Vertical PC Tail

- ❖ Polarised mouldings.
- ❖ For British Standard versions see pages 14 to 15.
- ❖ Dummy contacts for additional polarisation use **order code M80-023**.
- ❖ Mates with male connectors on pages 21 to 25.

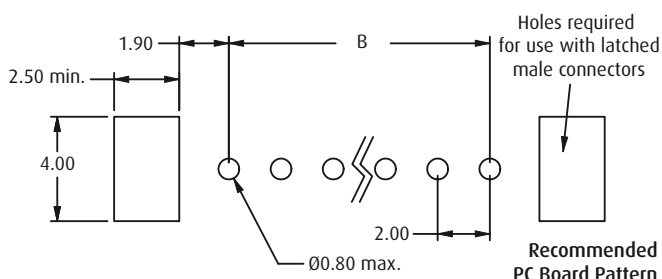


### SINGLE ROW

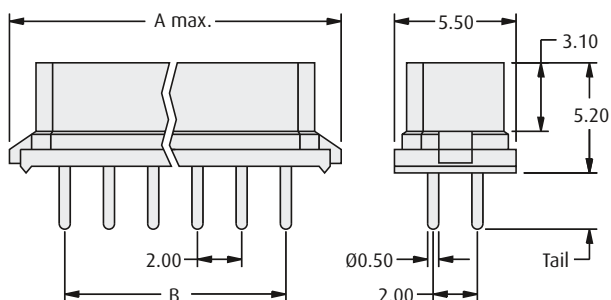


### CALCULATION

<b>A</b>	$B + 5.15$
<b>B</b>	$(\text{Total No. of contacts} - 1) \times 2$

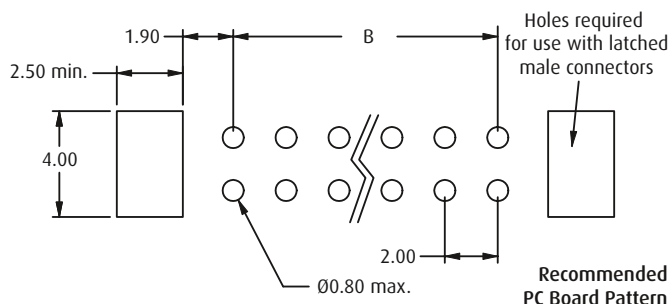


### DOUBLE ROW



### CALCULATION

<b>A</b>	$B + 5.15$
<b>B</b>	$\text{Total No. of contacts} - 2$



### HOW TO ORDER

**M80 - XXX XX XX**

#### SERIES CODE

RoHS	Pb	Non-RoHS	Pb	
840		897		Single row (3mm tail)
850		887		Double row (3mm tail)
790		790		Single row (4.5mm tail)
770		770		Double row (4.5mm tail)

#### FINISH

01	Gold + Tin/Lead	Pb
05	Gold	Pb
42	Gold + Tin	Pb
45	Gold	Pb

#### TOTAL NO. OF CONTACTS

Single Row	02 to 07, 17, 22
Double Row	04, 06, 08, 10, 12, 14, 16, 18, 20, 26, 34, 44

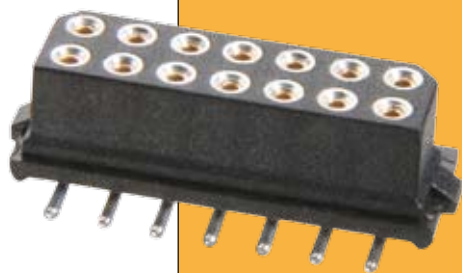
All dimensions in mm.

[www.harwin.com](http://www.harwin.com)



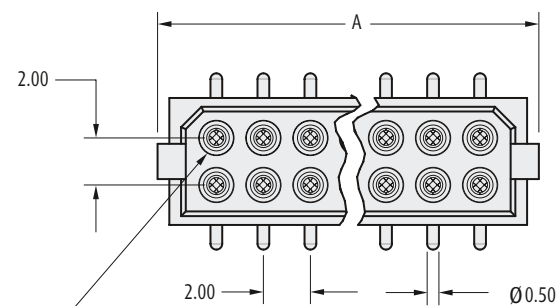
# Datamate Connectors

## Female Vertical Surface Mount

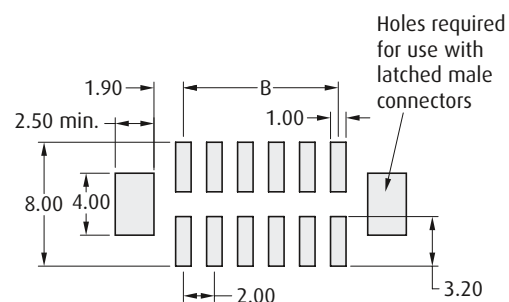
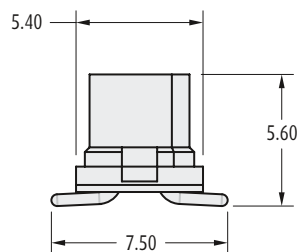
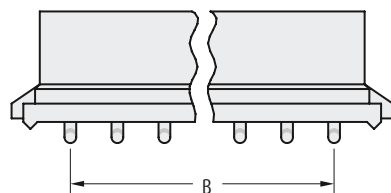


- ❖ Optional pick and place pad.
- ❖ Contact [datamate@harwin.com](mailto:datamate@harwin.com) for tape & reel options.
- ❖ Mates with male connectors on pages 21 to 25.
- ❖ Gull wing SMT tails simplify inspection process.

### DOUBLE ROW



No. 1 contact



Recommended PC Board Pattern

### CALCULATION

<b>A</b>	$B + 5.15$
<b>B</b>	Total No. of contacts - 2

### HOW TO ORDER

**M80 - 681 XX XX P**

**SERIES CODE**

**TOTAL NO. OF CONTACTS**

04, 06, 08, 10, 12, 14, 16, 18, 20, 26, 34, 44

### PICK AND PLACE CAP

<b>BLANK</b>	No cap
<b>P</b>	Pick and place cap

### FINISH

<b>01</b>	Gold + Tin/Lead	
<b>42</b>	Gold + Tin	
<b>45</b>	Gold	

[www.harwin.com](http://www.harwin.com)

All dimensions in mm.



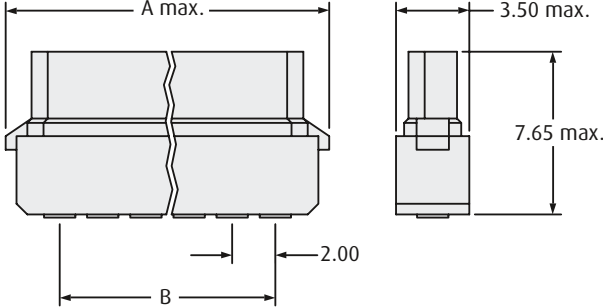
**HARWIN**

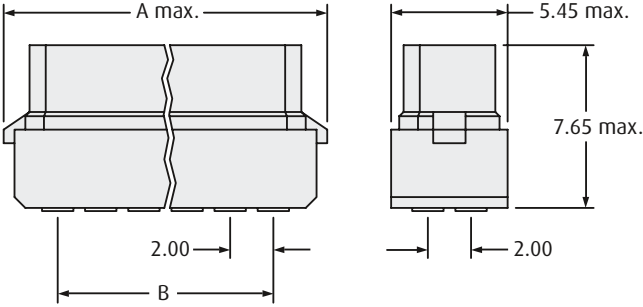
# Datamate Connectors

## Female Crimp

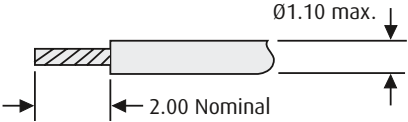
- ❖ Part numbers are for housings and the equivalent number of contacts.
- ❖ Contacts are rear insertable.
- ❖ For British Standard versions see pages 14 to 15.
- ❖ Hoods & cable assembly service available – contact [datamate@harwin.com](mailto:datamate@harwin.com).
- ❖ Spare contacts are available – see page 16.



SINGLE ROW		CALCULATION	
A	B + 5.15		
B	(Total No. of contacts – 1) x 2		
			

DOUBLE ROW		CALCULATION	
A	B + 5.15		
B	Total No. of contacts – 2		
			

TOOLS	
<p><b>Recommended Crimp Tool</b> – M22520/2-01</p> <p><b>Positioner</b> – T5747</p> <p><b>Contact Insertion/Removal Tool</b> – Z80-280</p> <p>See pages 77 to 79</p> <p>❖ Instruction sheets available at <a href="http://www.harwin.com/downloads/instructions">www.harwin.com/downloads/instructions</a></p>	

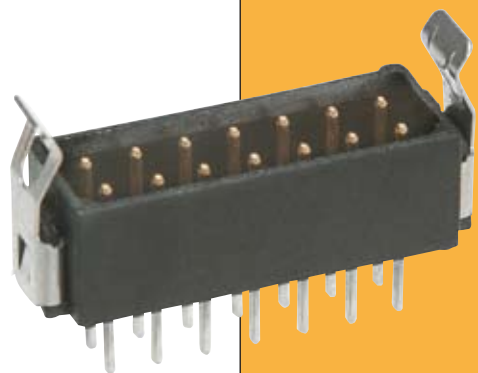
WIRE STRIPPING DETAILS	
	

HOW TO ORDER			
M80 - XXX XX 05			
SERIES CODE		FINISH	
TYPE		01 Gold + Tin PG	
888 Small Bore, Double Row		05 Gold PG	
889 Large Bore, Double Row			
898 Small Bore, Single Row			
899 Large Bore, Single Row			
TOTAL NO. OF CONTACTS			
Single Row		02 to 07, 17	
Double Row		04, 06, 08, 10, 12, 14, 16, 18, 20, 26, 34	

All dimensions in mm.

[www.harwin.com](http://www.harwin.com)





# Datamate Connectors

## Male Vertical PC Tail

- ❖ Polarised mouldings.
- ❖ Fully shrouded contacts.
- ❖ Mates with female connectors shown on pages 18 to 20.
- ❖ For British Standard versions see pages 14 to 15.
- ❖ Can be used with Strain Relief straps: **order code M80-0030006**.

SINGLE ROW		DOUBLE ROW	
<p>Friction lock or latch (when fitted) adds 0.5mm to overall length 'A'</p> <p>Recommended PC Board Pattern</p>		<p>Friction lock or latch (when fitted) adds 0.5mm to overall length 'A'</p> <p>Recommended PC Board Pattern</p>	
CALCULATION		CALCULATION	
<b>A</b>	$B + 5.60$	<b>A</b>	$B + 5.60$
<b>B</b>	$(\text{Total No. of contacts} - 1) \times 2$	<b>B</b>	$\text{Total No. of contacts} - 2$

### HOW TO ORDER

**M80 - XXX XX XX**

#### SERIES CODE

RoHS		Non-RoHS		
Single	Double	Single	Double	
852	854	879	869	Unlatched (3mm tail)
882	853	877	867	Latched (3mm tail)
881	863	805	815	Friction latched (3mm tail)
752	754	752	754	Unlatched (4.5mm tail)
782	753	782	753	Latched (4.5mm tail)
781	763	781	763	Friction latch (4.5mm tail)

#### FINISH

05	Gold	Pb
22	Gold + Tin/Lead	Pb
42	Gold + Tin	Pb
45	Gold	Pb

#### TOTAL NO. OF CONTACTS

Single Row	02 to 07, 17, 22
Double Row	04, 06, 08, 10, 12, 14, 16, 18, 20, 26, 34, 44

www.harwin.com

All dimensions in mm.

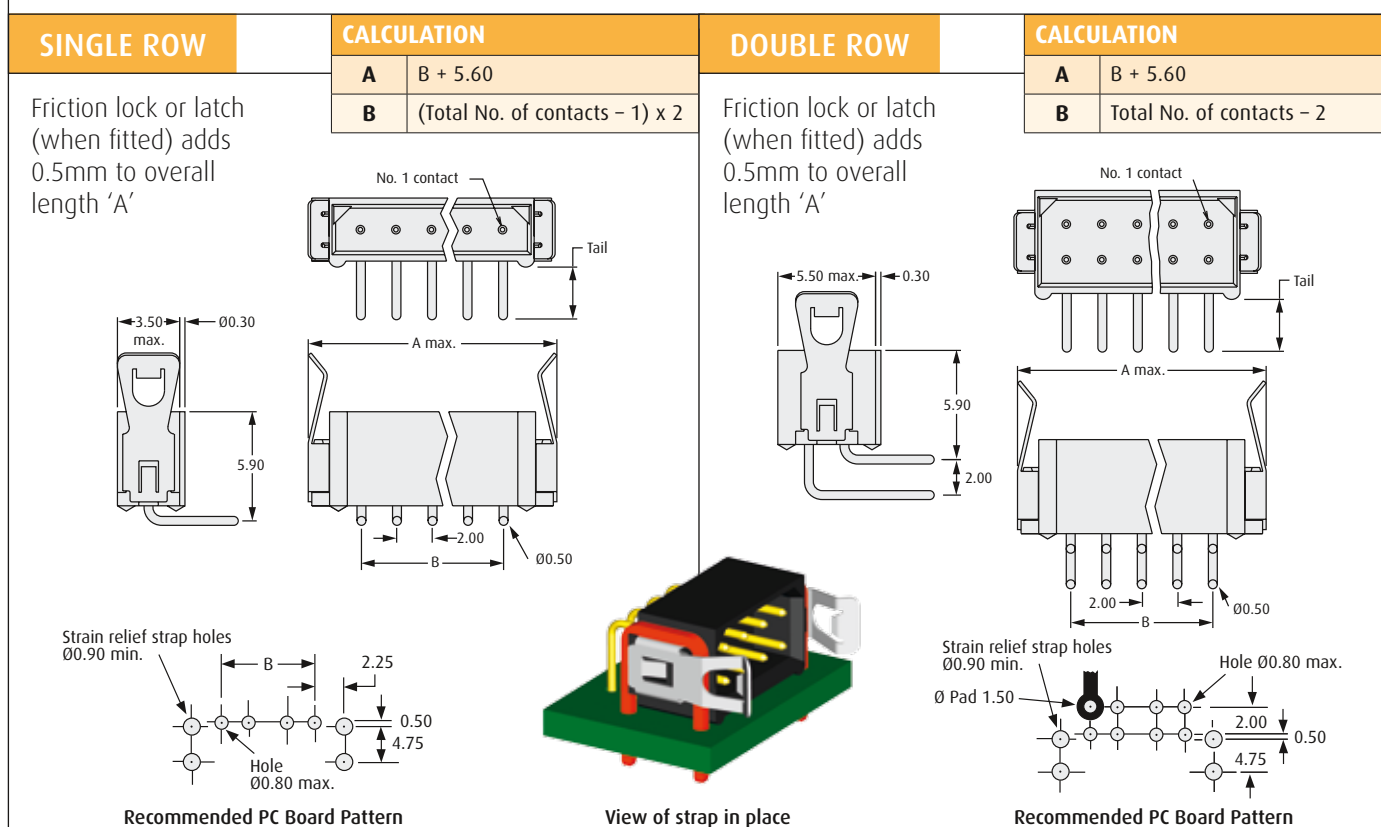
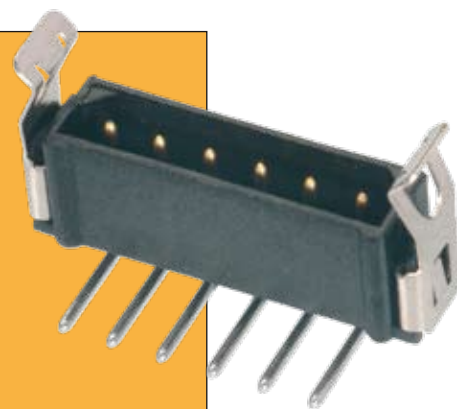


# HARWIN

# Datamate Connectors

## Male Horizontal PC Tail

- ❖ Mates with female connectors on pages 18 to 20.
  - ❖ For British Standard versions see pages 14 to 15.
  - ❖ Supplied with strain relief straps:
- Order code M80-0030006.**



### HOW TO ORDER

**M80 - XXX XX XX**

#### SERIES CODE

RoHS		Non-RoHS		
Single	Double	Single	Double	
843	841	878	868	Unlatched (3mm tail)
842	851	876	866	Latched (3mm tail)
846	839	804	814	Friction latched (3mm tail)
793	791	793	791	Unlatched (4.5mm tail)
792	771	792	771	Latched (4.5mm tail)
796	789	796	789	Friction latch (4.5mm tail)

#### FINISH

05	Gold	Pb
22	Gold + Tin/Lead	Pb
42	Gold + Tin	Pb
45	Gold	Pb

#### TOTAL NO. OF CONTACTS

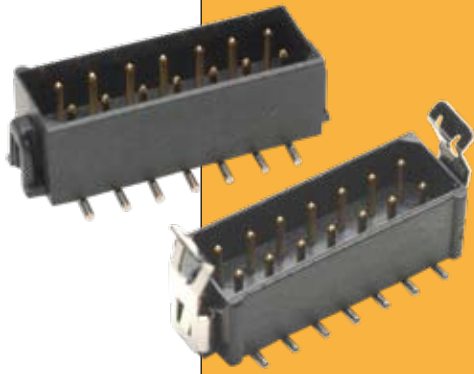
Single Row	02 to 07, 17, 22
Double Row	04, 06, 08, 10, 12, 14, 16, 18, 20, 26, 34, 44

Strain relief straps are supplied with all horizontal pc tail connectors. There is no need to order separately. Straps are located at the end of each connector.

All dimensions in mm.

[www.harwin.com](http://www.harwin.com)



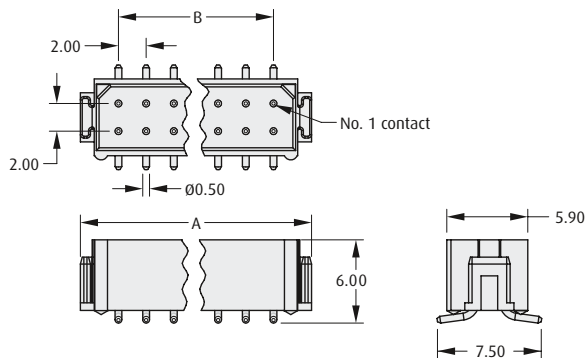


# Datamate Connectors

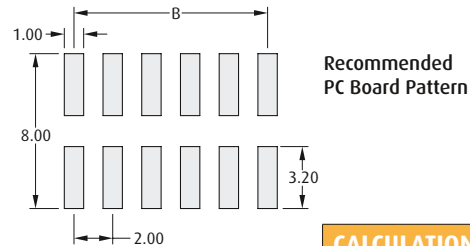
## Male Vertical Surface Mount

- ❖ Contact [datamate@harwin.com](mailto:datamate@harwin.com) for tape & reel options.
- ❖ Optional pick and place cap.
- ❖ Mates with female connectors on pages 18 to 20.
- ❖ Gull wing SMT tails simplify inspection process.

### UNLATCHED



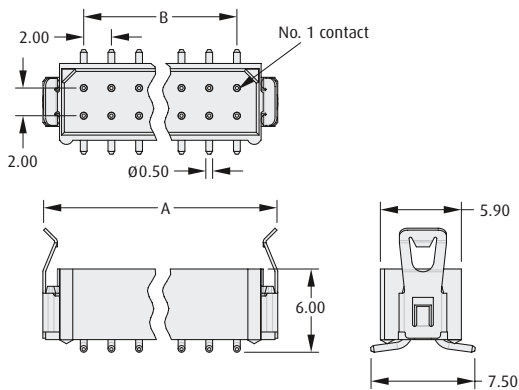
Friction lock or latch (when fitted)  
adds 0.5mm to overall length 'A'



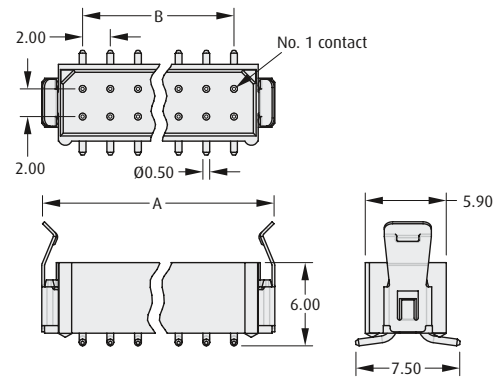
#### CALCULATION

<b>A</b>	$B + 5.60$
<b>B</b>	Total No. of contacts - 2

### LATCHED



### WITH FRICTION LOCK



### HOW TO ORDER

**M80 - 82 X XX XX P**

#### SERIES CODE

#### TYPE

<b>6</b>	Unlatched
<b>7</b>	Friction latched
<b>8</b>	Latched

#### TOTAL NO. OF CONTACTS

04, 06, 08, 10, 12, 14, 16, 18, 20, 26, 34, 44

#### PICK AND PLACE CAP

<b>BLANK</b>	No cap
<b>P</b>	Pick and place cap

#### FINISH

<b>22</b>	Gold + Tin/Lead	
<b>42</b>	Gold + Tin	
<b>45</b>	Gold	

[www.harwin.com](http://www.harwin.com)

All dimensions in mm.

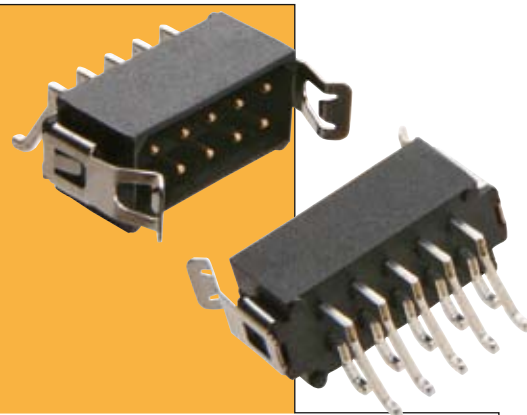


**HARWIN**

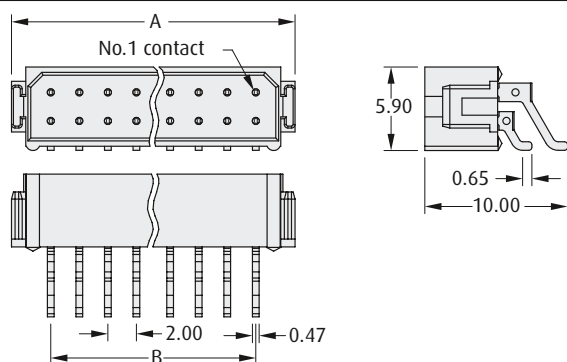
# Datamate Connectors

## Male Horizontal Surface Mount

- ❖ Contact [datamate@harwin.com](mailto:datamate@harwin.com) for tape & reel options.
- ❖ Strain relief straps M80-0030006 supplied with these connectors.
- ❖ Mates with female connectors shown on pages 18 to 20.
- ❖ Stamped contact ensures co-planarity.



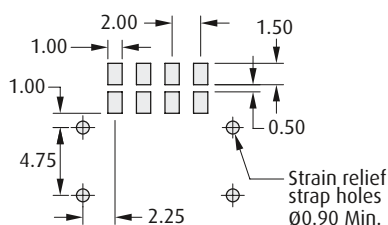
### UNLATCHED



Friction lock or latch (when fitted) adds 0.5mm to overall length 'A'

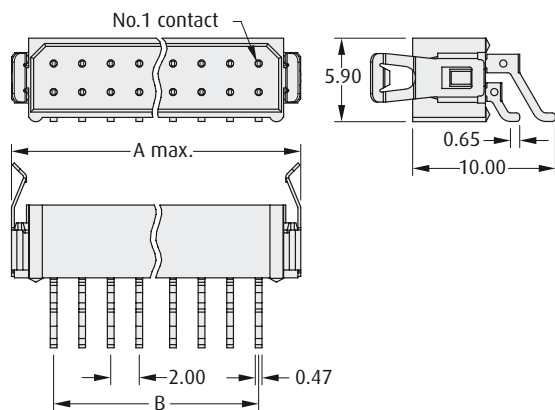
### CALCULATION

<b>A</b>	$B + 5.60$
<b>B</b>	Total No. of contacts - 2

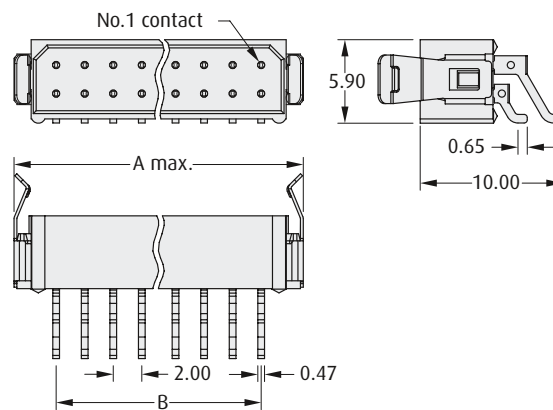


Recommended PC Board Pattern

### LATCHED



### WITH FRICTION LOCK



### HOW TO ORDER

**M80 - 66 X XX XX**

#### SERIES CODE

#### TYPE

<b>5</b>	Unlatched
<b>6</b>	Latched
<b>7</b>	Friction latched

#### TOTAL NO. OF CONTACTS

**04, 06, 08, 10, 12, 14, 16, 18, 20, 26, 34, 44**

#### FINISH

<b>22</b>	Gold + Tin/Lead	
<b>42</b>	Gold + Tin	

Strain relief straps are supplied with all horizontal connectors. There is no need to order separately. Straps are located at the end of each connector.

All dimensions in mm.

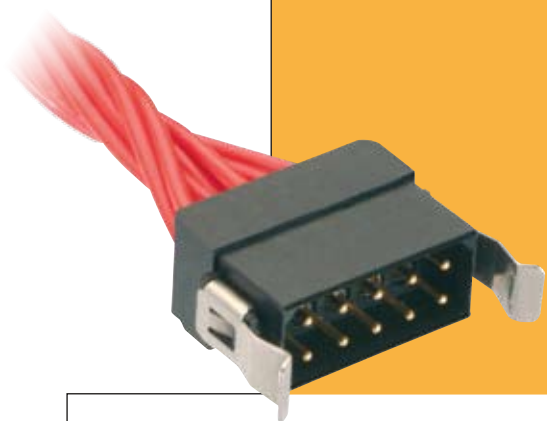
[www.harwin.com](http://www.harwin.com)

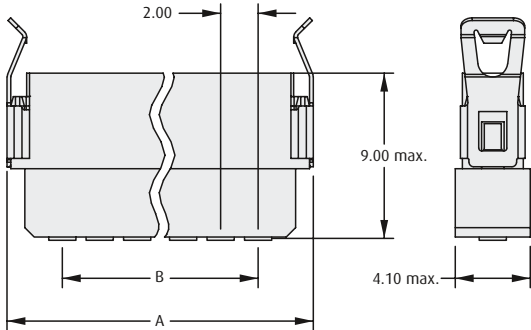
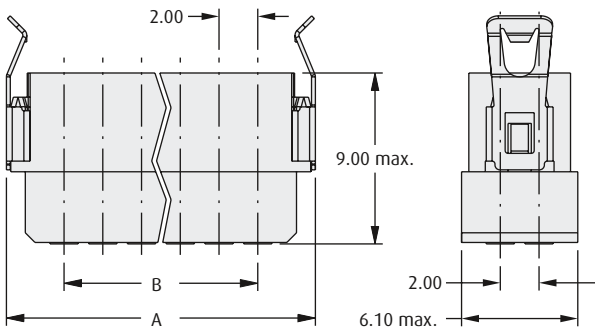
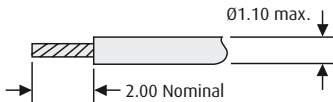


# Datamate Connectors

## Male Crimp

- ❖ Mates with female connectors shown on pages 18 to 20.
- ❖ Contacts are rear insertable.
- ❖ Part numbers are for housings and the equivalent number of contacts.
- ❖ Back potting & cable assembly service available, contact [datamate@harwin.com](mailto:datamate@harwin.com).
- ❖ Please contact [datamate@harwin.com](mailto:datamate@harwin.com) for other size availability.
- ❖ Spare contacts available, see page 17.



SINGLE ROW		CALCULATION		DOUBLE ROW		CALCULATION	
Friction lock or latch (when fitted) adds 0.5mm to overall length 'A'		A	B + 5.60	Friction lock or latch (when fitted) adds 0.5mm to overall length 'A'		A	B + 5.60
		B	(Total No. of contacts – 1) x2			B	Total No. of contacts – 2
							
TOOLS		WIRE STRIPPING DETAILS					
<p><b>Recommended Crimp Tool</b> – M22520/2-01</p> <p><b>Positioner</b> – T5747</p> <p><b>Contact Insertion/Removal Tool</b> – Z80-Z80</p> <p>See pages 77 to 79</p> <p>❖ Instruction sheets available at <a href="http://www.harwin.com/downloads/instructions">www.harwin.com/downloads/instructions</a></p>							
HOW TO ORDER							
<b>SERIES CODE</b>		<b>M80 – XXX XX XX</b>					
<b>TYPE</b>							
Single	Double						
806	810	Small bore, Unlatched					
807	811	Large bore, Unlatched					
808	812	Small bore, Latched					
809	813	Large bore, Latched					
883	816	Small bore, Friction Latch					
884	817	Large Bore, Friction Latch					