

Datamate J-Tek Specification

Materials

Housings:	Glass-filled thermoplastic UL94V-0
Female contacts	
Standard J-Tek:	Brass shell, with Beryllium Copper inner contact
T-Contact:	Beryllium Copper
Male contacts:	Copper alloy
Finish:	See individual pages

Electrical

Current - Standard J-Tek

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)
Flex Circuit Assembly:	1.0A max per track (at 25°C)

Current - T-Contact

Individual contacts in isolation:	8.5A max (at 25°C) 6.5A max (at 85°C)
All contacts simultaneously:	3.5A max (at 25°C) 2.6A max (at 85°C)

Working voltage

At sea level 1013 mbar:	800V DC or AC peak
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Voltage proof

At sea level 1013 mbar:	1,200V DC or AC peak
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Contact resistance

Initial:	20mΩ max
After conditioning:	25mΩ max

Insulation resistance

Initial:	1,000MΩ min
After conditioning:	100MΩ min

Mechanical

Durability

Standard J-Tek:	500 operations
T-Contact:	1,000 operations

Insertion force (max)

Standard J-Tek:	2.8N
T-Contact:	4.0N

Withdrawal force (min)

Standard J-Tek:	0.2N
T-Contact:	0.5N

Signal crimp accommodation:

22 AWG to 32 AWG BS 3G 210 Type A, MIL-W-16878

Environmental

Environmental classification:

55/125/56 days at 95% RH

Operational temperature:

-55°C to +125°C

*Vibration sensitivity

Standard J-Tek:	10Hz to 2000Hz, 0.75mm, 98m/s ² (10G), duration 6 hours
T-Contact:	10Hz to 2000Hz, 0.75mm, 390m/s ² (40G), duration 6 hours

*Bump severity:

390m/s ² (40G), 4000 ±10 bumps

*Shock severity:

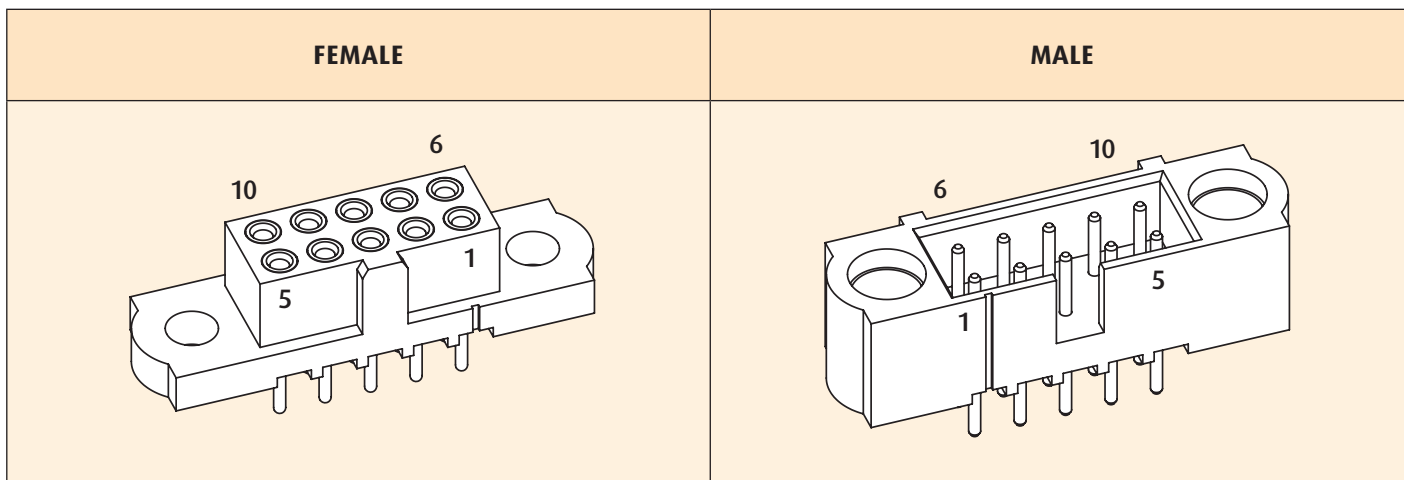
981m/s ² (100G) for 6ms

*Acceleration severity:

490m/s ² (50G)

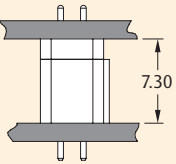
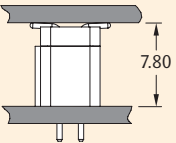
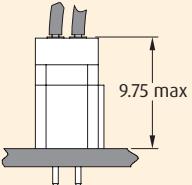
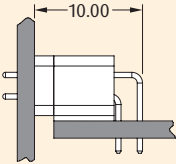
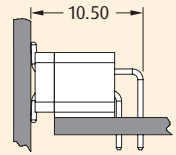
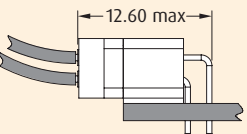
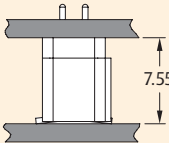
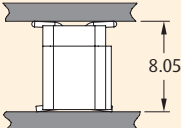
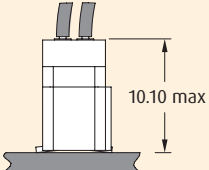
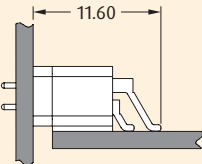
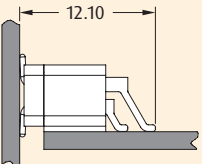
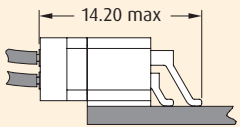
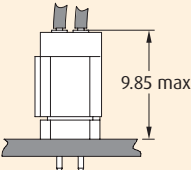
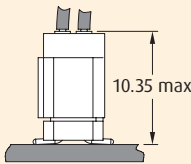
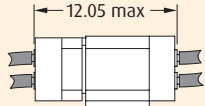
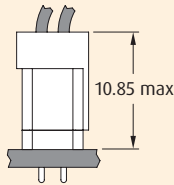
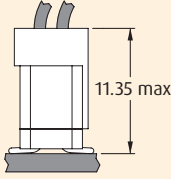
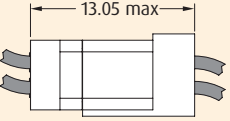
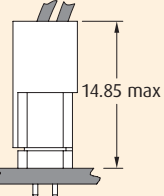
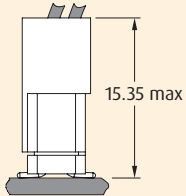
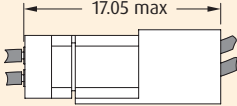
* Tested with connectors with Jackscrews.

Pin Numbering



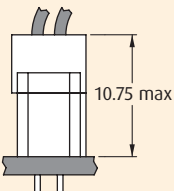
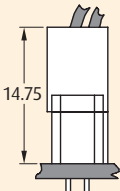
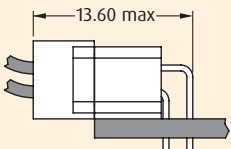
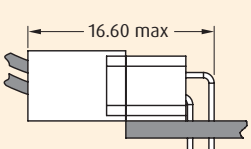
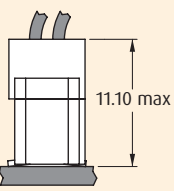
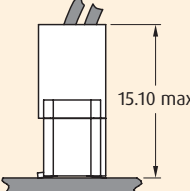
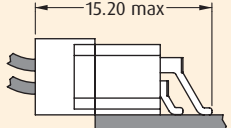
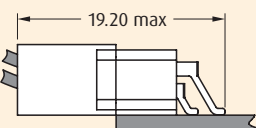
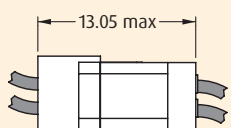
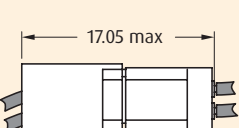
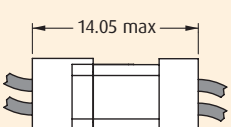
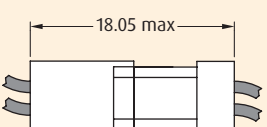
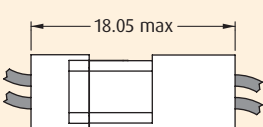
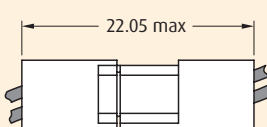
All dimensions in mm.

Datamate J-Tek Mating Profiles

		FEMALE		
		VERTICAL THROUGHBOARD	VERTICAL SMT	CRIMP
MALE	VERTICAL THROUGHBOARD			
	HORIZONTAL THROUGHBOARD			
	VERTICAL SMT			
	HORIZONTAL SMT			
	CRIMP			
	CRIMP 1mm EXTENDED WALL			
	CRIMP 5mm EXTENDED WALL			

All dimensions in mm.

Datamate J-Tek Mating Profiles

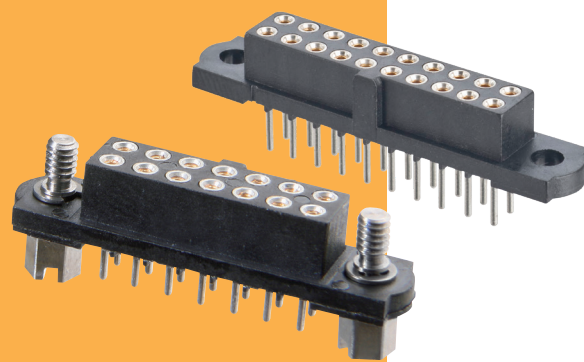
		FEMALE	
		CRIMP 1mm EXTENDED WALL	CRIMP 5mm EXTENDED WALL
MALE	VERTICAL THROUGH-BOARD		
	HORIZONTAL THROUGH-BOARD		
	VERTICAL SMT		
	HORIZONTAL SMT		
	CRIMP		
	CRIMP 1mm EXTENDED WALL		
	CRIMP 5mm EXTENDED WALL		

All dimensions in mm.

Datamate J-Tek Connectors

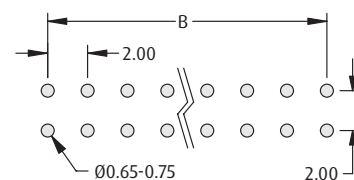
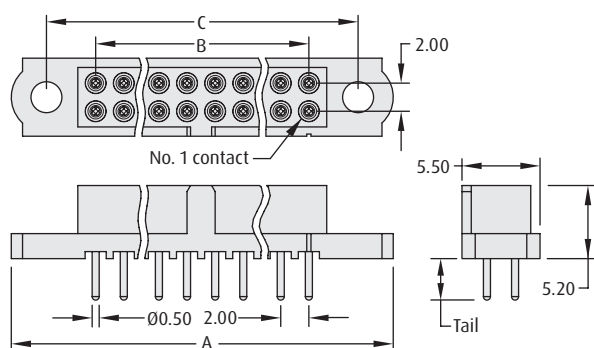
Female Vertical Throughboard

- ❖ Fully shrouded contacts.
- ❖ Polarized housings.
- ❖ Mates with all Datamate J-Tek male connectors with compatible jackscrews.



DATAMATE J-TEK

WITHOUT JACKSCREWS

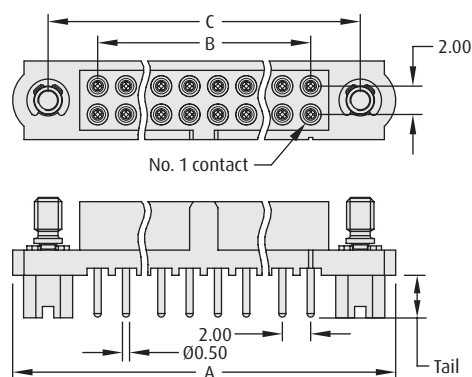


Recommended PC Board Pattern

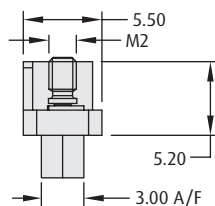
CALCULATION

A	B + 12
B	Total no. of contacts - 2
C	B + 7

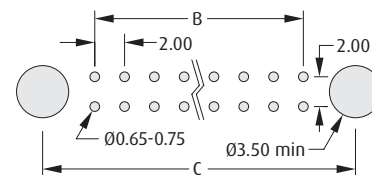
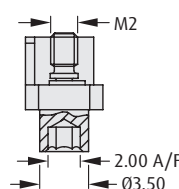
WITH JACKSCREWS



Hex Slotted Jackscrew



Hex Socket Jackscrew



Recommended PC Board Pattern

HOW TO ORDER

M80 - 4 X X XX XX

SERIES CODE

0	With Hex Slotted Jackscrews
1	Without Jackscrews
2	With Hex Socket Jackscrews

0	3mm Tails
1	4.5mm Tails

FINISH

05	Gold
42	Gold + Tin

TOTAL NO. OF CONTACTS

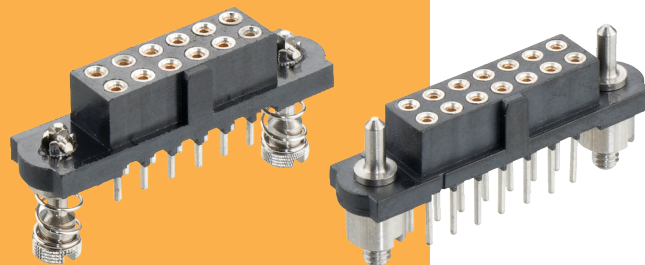
04, 06, 08, 10, 12, 14, 20, 26, 34, 42, 50

All dimensions in mm.

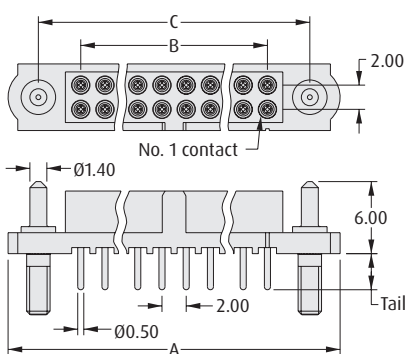
Datamate J-Tek Connectors

Female Vertical Throughboard, Guide Pin, 101Lok

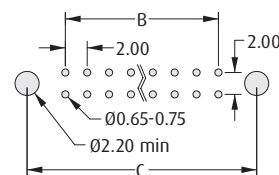
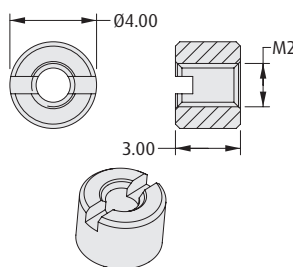
- Guide pin style includes board mount fixing, and mates with Datamate J-Tek male connectors with compatible jackscrows.
- 101Lok fixing gives secure, fast and simple mating; no special tooling required. Just a simple 101-degree turn is required to fix the connectors together.
- 101Lok style mates with Datamate J-Tek male connectors with compatible 101Lok fixings.



GUIDE PIN JACKSCREWS



Board Mount Nut, 2 per connector

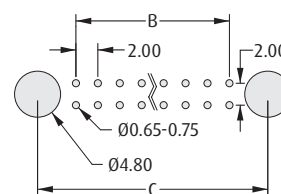
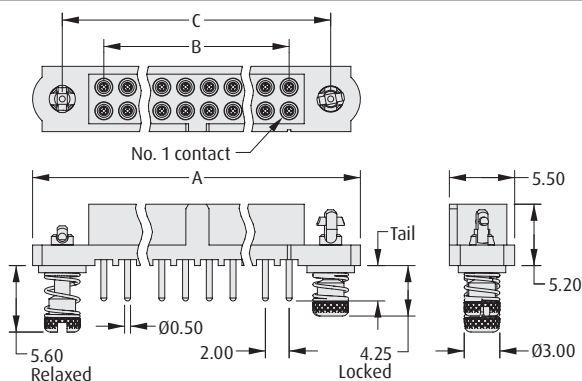


Recommended PC Board Pattern

CALCULATION

A	B + 12
B	Total no. of contacts - 2
C	B + 7

101LOK



Recommended PC Board Pattern

HOW TO ORDER

M80 - 4 TX XX XX FX

SERIES CODE

TYPE

T1	3mm Tails
T2	4.5mm Tails

TOTAL NO. OF CONTACTS

04, 06, 08, 10, 12, 14, 20, 26, 34, 42, 50

JACKSCREW

F3	Guide Pin
FD	101Lok

FINISH

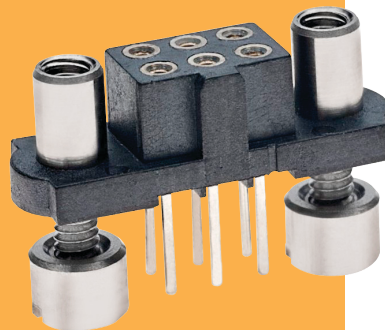
05	Gold
42	Gold + Tin

All dimensions in mm.

Datamate J-Tek Connectors

Female Vertical Throughboard Reverse Fix

- ❖ Fully shrouded contacts.
- ❖ Polarized housings.
- ❖ Includes board mount fixing.
- ❖ Mates with male Datamate J-Tek connectors with compatible Reverse Fix jackscrews.

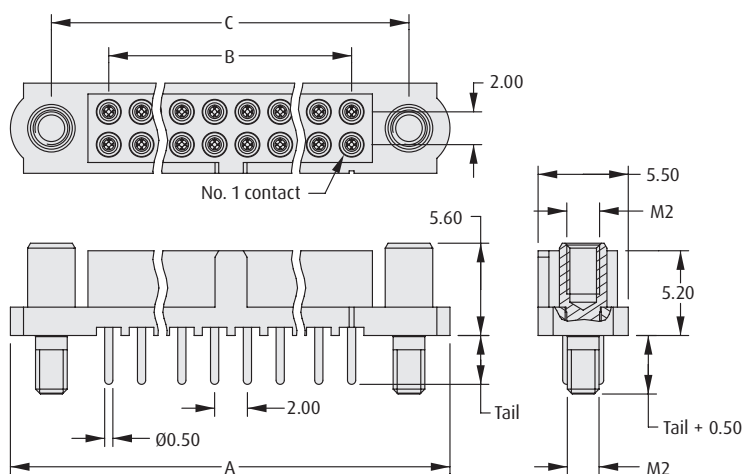


DATAMATE J-TEK

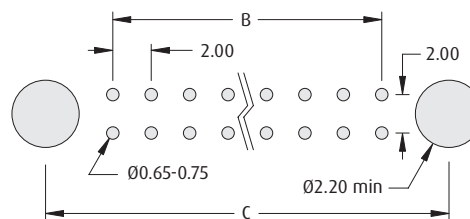
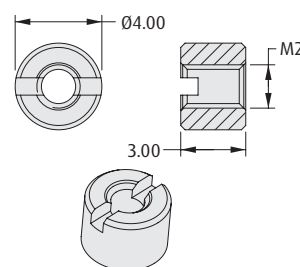
REVERSE FIX

CALCULATION

A	$B + 12$
B	Total no. of contacts - 2
C	$B + 7$



Board Mount Nut, 2 per connector



Recommended PC Board Pattern

HOW TO ORDER

M80 - 40 X XX XX

SERIES CODE

TYPE

5	3mm Tails
6	4.5mm Tails

FINISH

05	Gold
42	Gold + Tin

TOTAL NO. OF CONTACTS

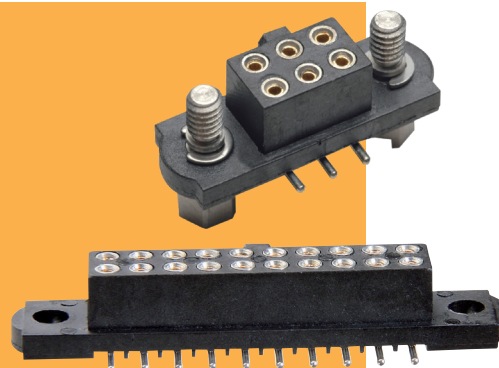
04, 06, 08, 10, 12, 14, 20, 26, 34, 42, 50

All dimensions in mm.

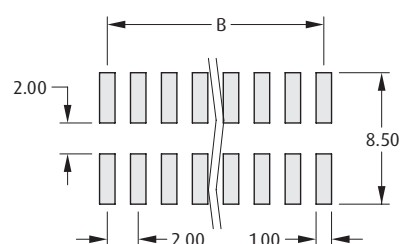
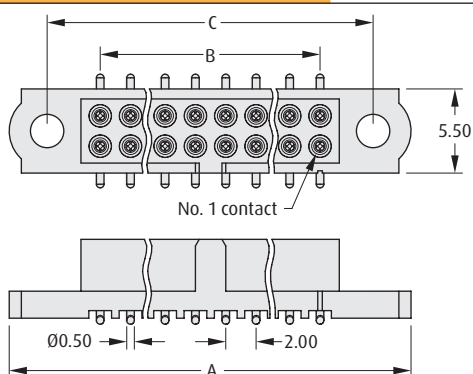
Datamate J-Tek Connectors

Female Vertical Surface Mount

- ▣ Mates with all Datamate J-Tek male connectors with compatible jackscrews.
- ▣ Gull wing SMT tails simplify inspection process.



WITHOUT JACKSCREWS

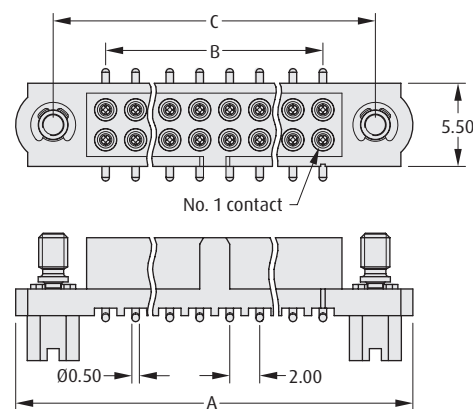


Recommended PC Board Pattern

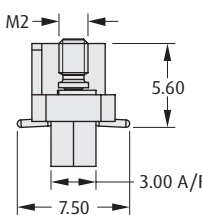
CALCULATION

A	$B + 12$
B	Total no. of contacts - 2
C	$B + 7$

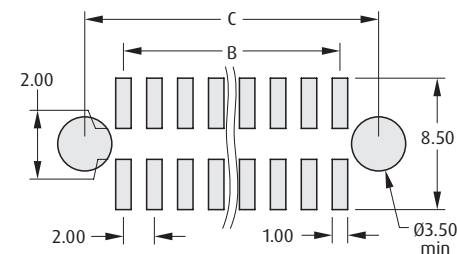
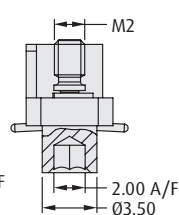
WITH JACKSCREWS



Hex Slotted Jackscrew



Hex Socket Jackscrew



Recommended PC Board Pattern

HOW TO ORDER

M80 - 4 X 2 XX XX

SERIES CODE

TYPE

0	With Hex Slotted Jackscrews
1	Without Jackscrews
2	With Hex Socket Jackscrews

FINISH

05	Gold
42	Gold + Tin

TOTAL NO. OF CONTACTS

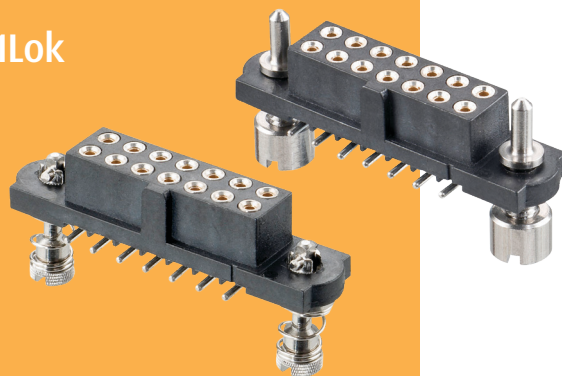
04, 06, 08, 10, 12, 14, 20, 26, 34, 42, 50

All dimensions in mm.

Datamate J-Tek Connectors

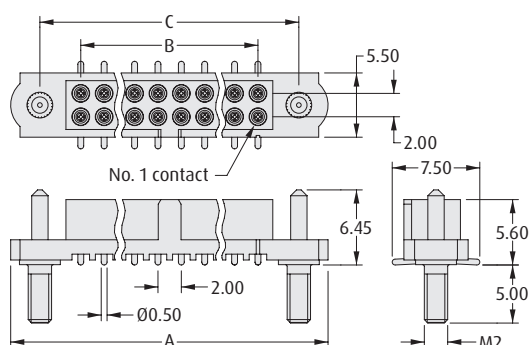
Female Vertical Surface Mount Guide Pin, 101Lok

- ❖ Guide pin style includes board mount fixing, and mates with Datamate J-Tek male connectors with compatible jackscrews.
- ❖ 101Lok fixing gives secure, fast and simple mating; no special tooling required. Just a simple 101-degree turn is required to fix the connectors together.
- ❖ 101Lok style mates with Datamate J-Tek male connectors with compatible 101Lok fixings.

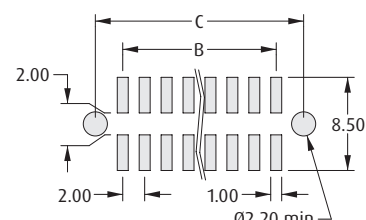
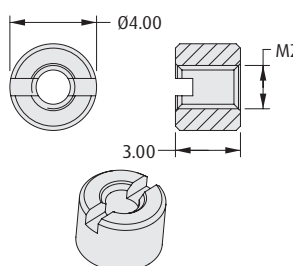


DATAMATE J-TEK

GUIDE PIN JACKSCREWS



Board Mount Nut, 2 per connector

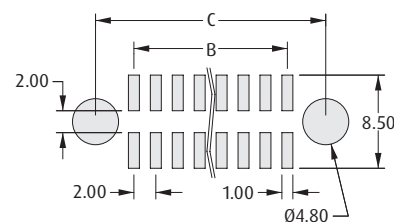
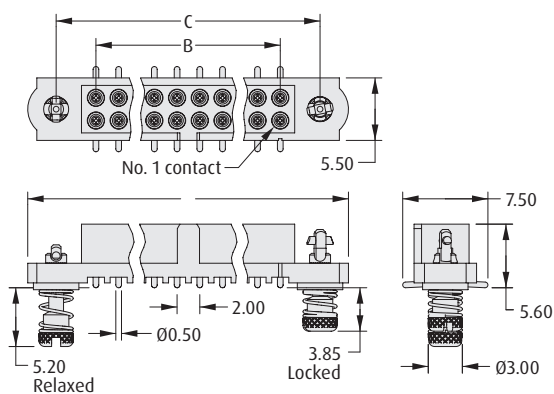


Recommended PC Board Pattern

CALCULATION

A	$B + 12$
B	Total no. of contacts - 2
C	$B + 7$

101LOK



Recommended PC Board Pattern

HOW TO ORDER

M80 - 4S1 XX XX FX

SERIES CODE

TOTAL NO. OF CONTACTS

04, 06, 08, 10, 12, 14, 20, 26, 34, 42, 50

JACKSCREW

F3	Guide Pin
FD	101Lok

FINISH

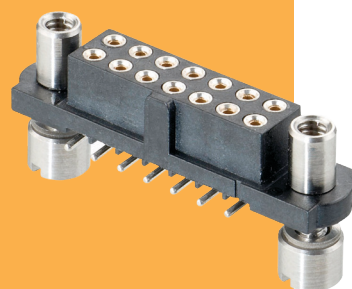
05	Gold
42	Gold + Tin

All dimensions in mm.

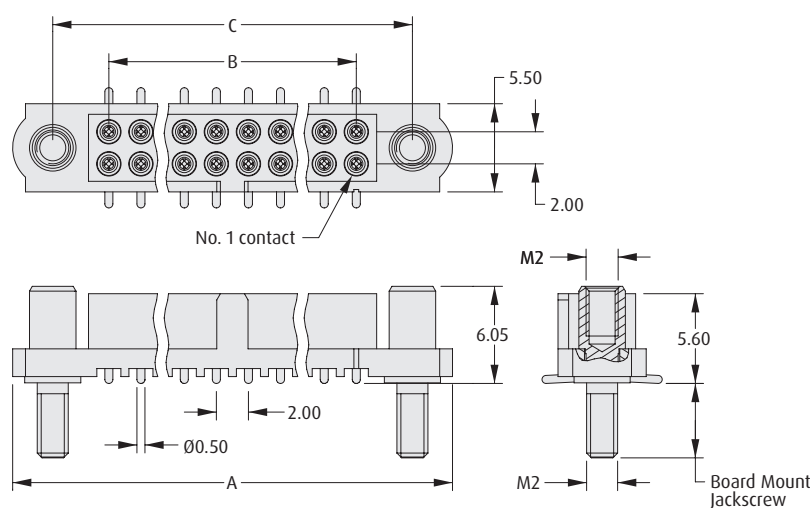
Datamate J-Tek Connectors

Female Vertical Surface Mount Reverse Fix

- Fully shrouded contacts.
- Polarized housings.
- Includes Board Mount fixing.
- Mates with male Datamate J-Tek connectors with compatible Reverse Fix jackscrews.



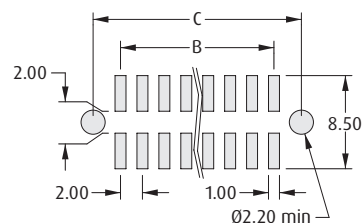
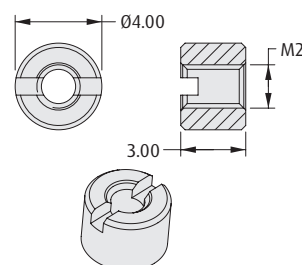
REVERSE FIX



CALCULATION

A	$B + 12$
B	Total no. of contacts - 2
C	$B + 7$

Board Mount Nut, 2 per connector



Recommended PC Board Pattern

HOW TO ORDER

M80 - 4S1 XX XX FX

SERIES CODE

TOTAL NO. OF CONTACTS

04, 06, 08, 10, 12, 14, 20, 26, 34, 42, 50

TYPE

F8	3.5mm Board Mount Jackscrew
F9	5mm Board Mount Jackscrew

FINISH

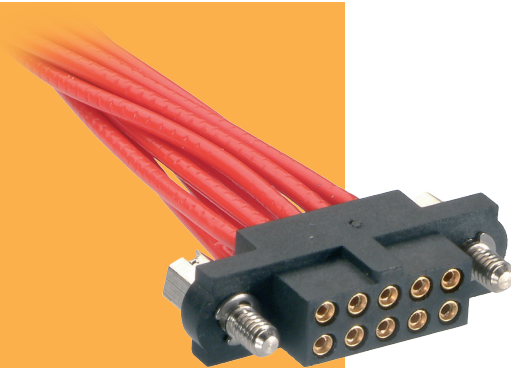
05	Gold
42	Gold + Tin

All dimensions in mm.

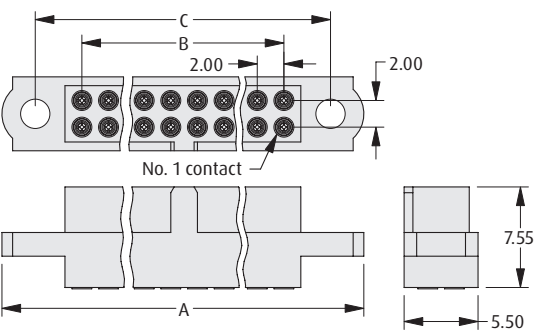
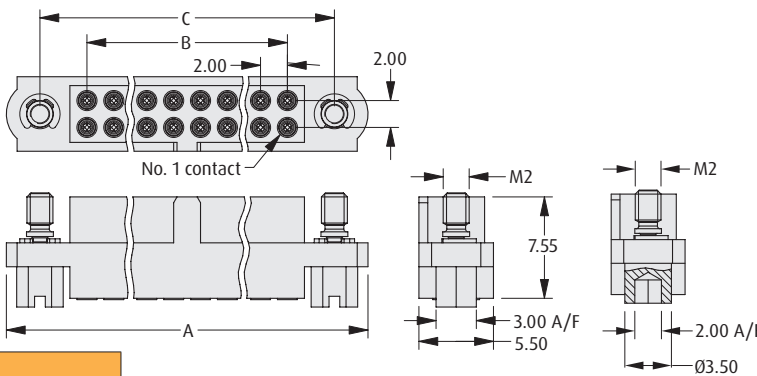
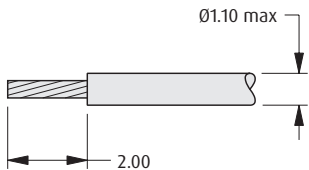
Datamate J-Tek Connectors

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.
- ❖ Version also available for 28 – 32 AWG cable – see the following page.
- ❖ Spare contacts are available.



DATAMATE J-TEK

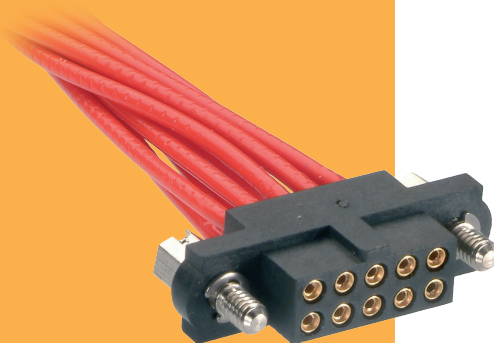
WITHOUT JACKSCREWS		WITH JACKSCREWS																	
																			
<table><tr><th colspan="2">CALCULATION</th></tr><tr><td>A</td><td>B + 12</td></tr><tr><td>B</td><td>Total no. of contacts - 2</td></tr><tr><td>C</td><td>B + 7</td></tr></table>		CALCULATION		A	B + 12	B	Total no. of contacts - 2	C	B + 7										
CALCULATION																			
A	B + 12																		
B	Total no. of contacts - 2																		
C	B + 7																		
TOOLS		WIRE STRIPPING DETAILS																	
<p>Recommended Crimp Tool – M22520/2-01</p> <p>Positioner – T5747</p> <p>Contact Insertion/Removal Tool – Z80-280</p> <p>❖ Spare and pre-cabled contacts shown on following pages.</p> <p>❖ Instruction sheets available at www.harwin.com/instructions.</p>																			
HOW TO ORDER																			
<p>SERIES CODE</p> <table><tr><th>LARGE BORE (22 AWG)</th><th>SMALL BORE (24-28 AWG)</th><th></th></tr><tr><td>470</td><td>471</td><td>Without Jackscrews</td></tr><tr><td>460</td><td>461</td><td>With Hex Slotted Jackscrews</td></tr><tr><td>480</td><td>481</td><td>With Hex Socket Jackscrews</td></tr></table>		LARGE BORE (22 AWG)	SMALL BORE (24-28 AWG)		470	471	Without Jackscrews	460	461	With Hex Slotted Jackscrews	480	481	With Hex Socket Jackscrews	<p>FINISH</p> <table><tr><td>05</td><td>Gold</td></tr><tr><td>42</td><td>Gold + Tin</td></tr></table>		05	Gold	42	Gold + Tin
LARGE BORE (22 AWG)	SMALL BORE (24-28 AWG)																		
470	471	Without Jackscrews																	
460	461	With Hex Slotted Jackscrews																	
480	481	With Hex Socket Jackscrews																	
05	Gold																		
42	Gold + Tin																		
		<table><tr><th>TOTAL NO. OF CONTACTS</th></tr><tr><td>04, 06, 08, 10, 12, 14, 20, 26, 34, 42, 50</td></tr></table>		TOTAL NO. OF CONTACTS	04, 06, 08, 10, 12, 14, 20, 26, 34, 42, 50														
TOTAL NO. OF CONTACTS																			
04, 06, 08, 10, 12, 14, 20, 26, 34, 42, 50																			

All dimensions in mm.

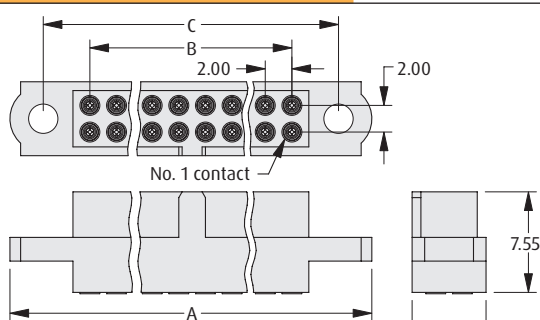
Datamate J-Tek Connectors

Female Crimp Kit - Extra Small Bore

- ❖ 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.
- ❖ Versions also available for 22 – 28 AWG cable – see the previous page.
- ❖ Spare contacts are available.



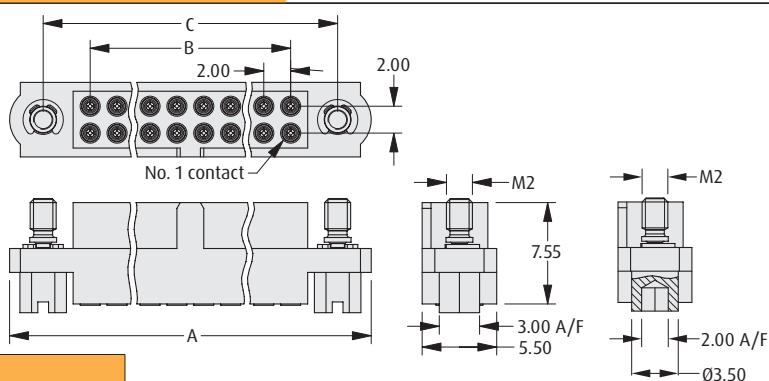
WITHOUT JACKSCREWS



CALCULATION

A	$B + 12$
B	Total no. of contacts - 2
C	$B + 7$

WITH JACKSCREWS



Hex Slotted Jackscrew

Hex Socket Jackscrew

TOOLS

Recommended Crimp Tool - M22520/2-01

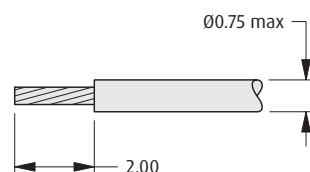
Positioner - T5747

Contact Insertion/Removal Tool - Z80-280

❖ Spare and pre-cabled contacts shown on following pages.

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

WIRE STRIPPING DETAILS



HOW TO ORDER

M80 - 4 E1 XX XX FX

SERIES CODE

TYPE

E1 Extra Small Bore 28-32 AWG

TOTAL NO. OF CONTACTS

04, 06, 08, 10, 12, 14, 20, 26, 34, 42, 50

JACKSCREW

00	Without Jackscrews
F1	With Hex Slotted Jackscrews
F2	With Hex Socket Jackscrews

FINISH

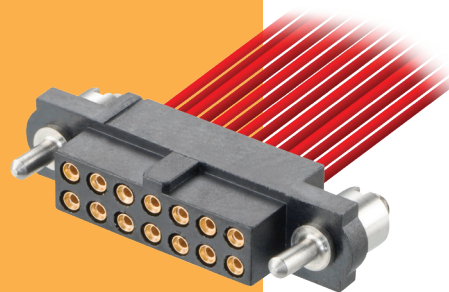
05	Gold
42	Gold + Tin

All dimensions in mm.

Datamate J-Tek Connectors

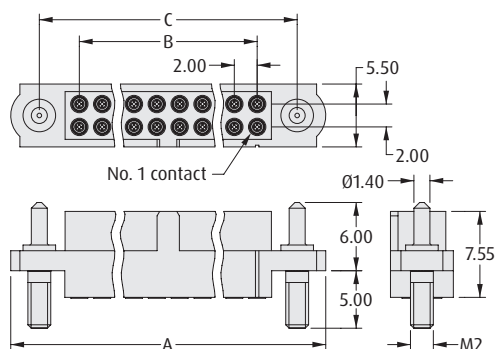
Female Crimp Kit - Guide Pin, 101Lok

- ❖ Guide pin style includes board mount fixing.
- ❖ 101Lok fixing gives secure, fast and simple mating; no special tooling required. Just a simple 101-degree turn is required to fix the connectors together.
- ❖ Connectors mate with Datamate J-Tek male connectors with applicable jackscrews or 101Lok fixings.
- ❖ Part numbers are for a complete kit of a housing and the applicable number of contacts.

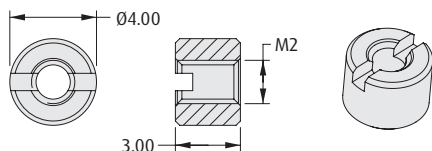


DATAMATE J-TEK

GUIDE PIN JACKSCREWS



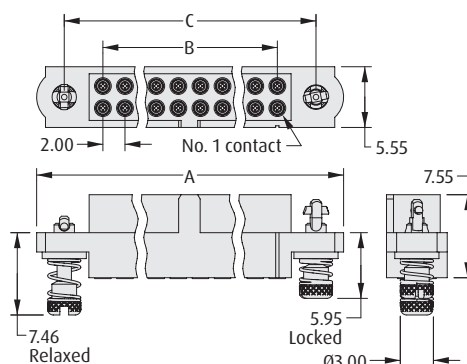
Board Mount Nut, 2 per connector



CALCULATION

A	$B + 12$
B	Total no. of contacts - 2
C	$B + 7$

101LOK



TOOLS

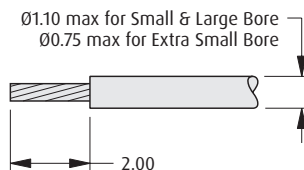
Recommended Crimp Tool - M22520/2-01

Positioner - T5747

Contact Insertion/Removal Tool - Z80-280

- ❖ Spare and pre-cabled contacts shown on following pages.
- ❖ Instruction sheets available at www.harwin.com/instructions.

WIRE STRIPPING DETAILS



HOW TO ORDER

M80 - 4 X1 XX XX FX

SERIES CODE

TYPE

C1	Small Bore (24-28 AWG)
D1	Large Bore (22 AWG)
E1	Extra Small Bore (28-32 AWG)

TOTAL NO. OF CONTACTS

04, 06, 08, 10, 12, 14, 20, 26, 34, 42, 50

JACKSCREW

F3	Guide Pin
FC	101Lok

FINISH

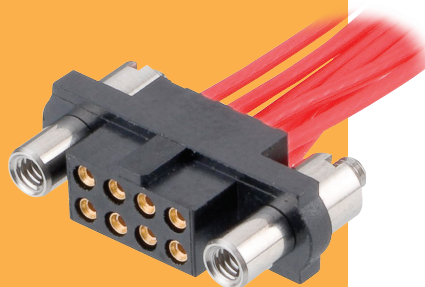
05	Gold
42	Gold + Tin

All dimensions in mm.

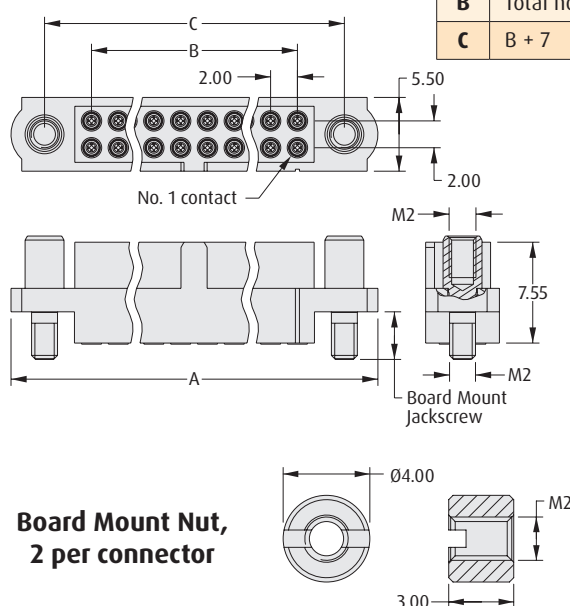
Datamate J-Tek Connectors

Female Crimp Kit - Reverse Fix

- ❖ Allows for further flexibility in system design.
- ❖ Crimp contacts supplied loose and are inserted from rear.
- ❖ Part numbers are for a complete kit of a housing and the applicable number of contacts.
- ❖ Jackscrews are assembled.
- ❖ Mates with male Datamate J-Tek connectors with compatible Reverse Fix jackscrews.



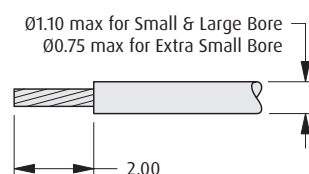
WITH JACKSCREWS



CALCULATION

A	$B + 12$
B	Total no. of contacts - 2
C	$B + 7$

WIRE STRIPPING DETAILS



TOOLS

Recommended Crimp Tool - M22520/2-01

Positioner - T5747

Contact Insertion/Removal Tool - Z80-280

- ❖ Spare and pre-cabled contacts shown on following pages.

- ❖ Instruction sheets available at www.harwin.com/instructions.

HOW TO ORDER

M80 - 4XX XX XX

SERIES CODE

TYPE

462	Large Bore (22 AWG)
463	Small Bore (24-28 AWG)

TOTAL NO. OF CONTACTS

04, 06, 08, 10, 12, 14, 20, 26, 34, 42, 50

FINISH

05	Gold
42	Gold + Tin

3.5mm Board Mount Jackscrews only

M80 - 4 X1 XX XX FX

SERIES CODE

TYPE

C1	Small Bore (24-28 AWG)
D1	Large Bore (22 AWG)
E1	Extra Small Bore (28-32 AWG)

TOTAL NO. OF CONTACTS

04, 06, 08, 10, 12, 14, 20, 26, 34, 42, 50

FINISH

05	Gold
42	Gold + Tin

JACKSCREW

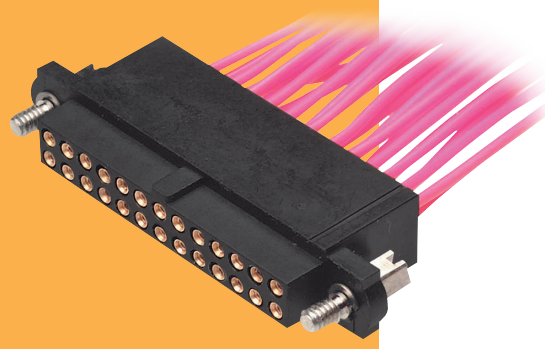
F8	3.5mm Board Mount
F9	5mm Board Mount

All dimensions in mm.

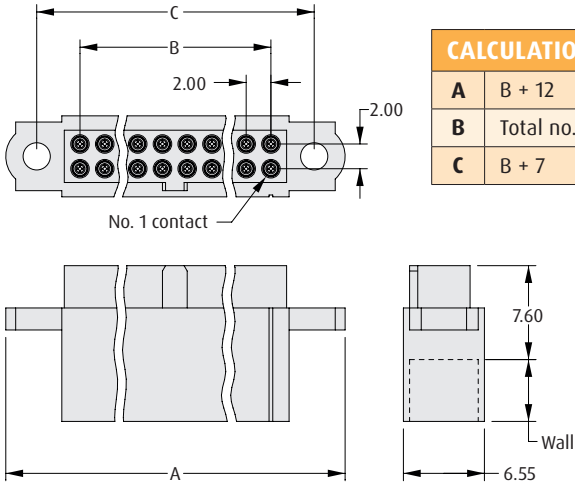
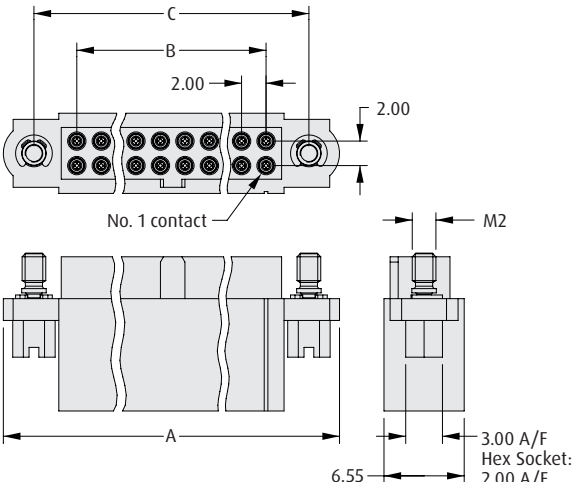
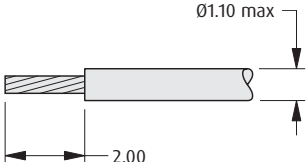
Datamate J-Tek Connectors

Female Crimp Kit - Extended Wall

- ❖ Extended Wall Datamate allows back potting to be performed.
- ❖ Polarized housings.
- ❖ Crimp contacts are rear insertable.
- ❖ Large bore 22 AWG, small bore 24 - 28 AWG.
- ❖ Part numbers are for a housing and the equivalent number of contacts.



DATAMATE J-TEK

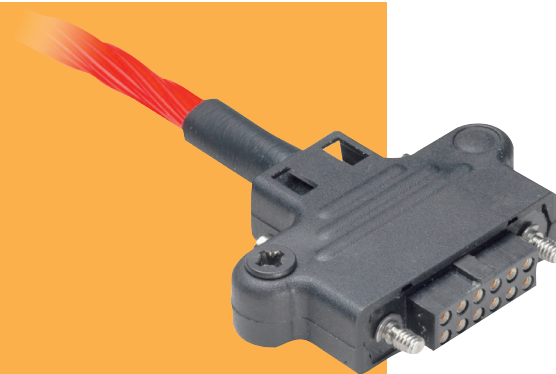
WITHOUT JACKSCREWS		WITH JACKSCREWS																											
																													
<table><tr><th colspan="2">CALCULATION</th></tr><tr><td>A</td><td>B + 12</td></tr><tr><td>B</td><td>Total no. of contacts - 2</td></tr><tr><td>C</td><td>B + 7</td></tr></table>		CALCULATION		A	B + 12	B	Total no. of contacts - 2	C	B + 7																				
CALCULATION																													
A	B + 12																												
B	Total no. of contacts - 2																												
C	B + 7																												
TOOLS		WIRE STRIPPING DETAILS																											
<p>Recommended Crimp Tool - M22520/2-01</p> <p>Positioner - T5747</p> <p>Contact Insertion/Removal Tool - Z80-280</p> <p>❖ Spare and pre-cabled contacts shown on following pages.</p> <p>❖ Instruction sheets available at www.harwin.com/instructions.</p>																													
HOW TO ORDER																													
<p>SERIES CODE</p> <table><tr><th>LARGE BORE (22 AWG)</th><th>SMALL BORE (24-28 AWG)</th><th></th></tr><tr><td>475</td><td>476</td><td>Without Jackscrews</td></tr><tr><td>465</td><td>466</td><td>With Hex Slotted Jackscrews</td></tr><tr><td>485</td><td>486</td><td>With Hex Socket Jackscrews</td></tr></table>		LARGE BORE (22 AWG)	SMALL BORE (24-28 AWG)		475	476	Without Jackscrews	465	466	With Hex Slotted Jackscrews	485	486	With Hex Socket Jackscrews	<p>M80 - XXX XX XX</p> <table><tr><th colspan="2">WALL SIZE</th></tr><tr><td>BLANK</td><td>Wall = 5mm</td></tr><tr><td>A</td><td>Wall = 1mm</td></tr></table> <table><tr><th colspan="2">FINISH</th></tr><tr><td>05</td><td>Gold</td></tr><tr><td>42</td><td>Gold + Tin</td></tr></table> <table><tr><th>TOTAL NO. OF CONTACTS</th></tr><tr><td>06, 10, 12, 14, 18, 20, 26, 34, 42, 50</td></tr></table>		WALL SIZE		BLANK	Wall = 5mm	A	Wall = 1mm	FINISH		05	Gold	42	Gold + Tin	TOTAL NO. OF CONTACTS	06, 10, 12, 14, 18, 20, 26, 34, 42, 50
LARGE BORE (22 AWG)	SMALL BORE (24-28 AWG)																												
475	476	Without Jackscrews																											
465	466	With Hex Slotted Jackscrews																											
485	486	With Hex Socket Jackscrews																											
WALL SIZE																													
BLANK	Wall = 5mm																												
A	Wall = 1mm																												
FINISH																													
05	Gold																												
42	Gold + Tin																												
TOTAL NO. OF CONTACTS																													
06, 10, 12, 14, 18, 20, 26, 34, 42, 50																													

All dimensions in mm.

Datamate J-Tek Connectors

Female Crimp Kit with Hood

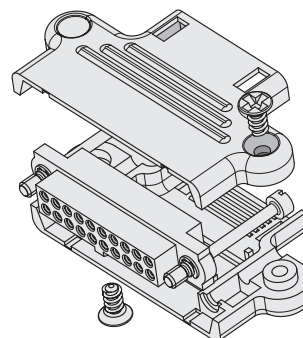
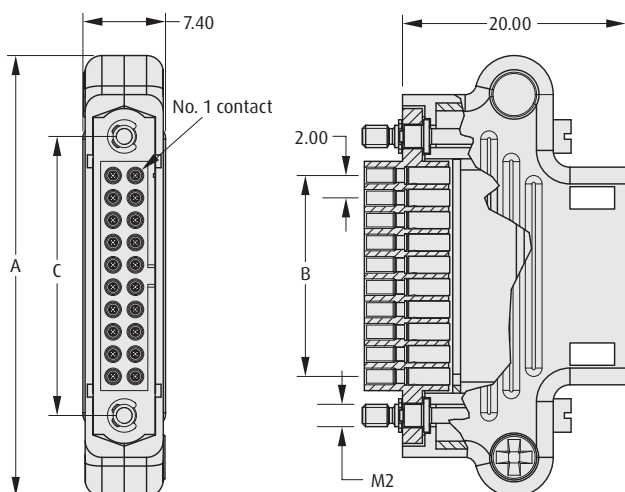
- ❖ Supplied as a complete kit: jackscrews assembled to housing; hood, contacts and assembly screws supplied loose.
- ❖ Provides strain relief by preventing cable bending at the rear of the connector, and also has the option of inserting a cable tie to reduce pull strain.



FEMALE

CALCULATION

A	$B + 21.5$
B	Total no. of contacts - 2
C	$B + 7$



TOOLS

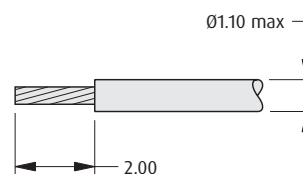
Recommended Crimp Tool - M22520/2-01

Positioner - T5747

Contact Insertion/Removal Tool - Z80-Z80

- ❖ Spare and pre-cabled contacts shown on following pages.
- ❖ Instruction sheets available at www.harwin.com/instructions.

WIRE STRIPPING DETAILS



HOW TO ORDER

M80 - 94 X XX XX

SERIES CODE

TYPE

0	Small Bore (24-28 AWG)
1	Large Bore (22 AWG)

FINISH

05	Gold
42	Gold + Tin

TOTAL NO. OF CONTACTS

06, 08, 10, 12, 14, 20, 26, 34, 42, 50

All dimensions in mm.

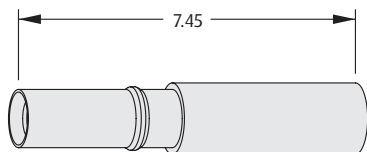
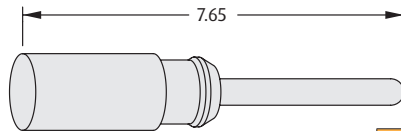
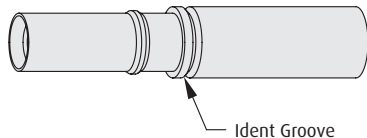
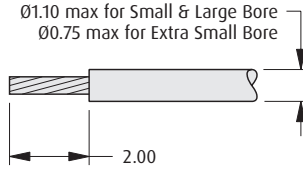
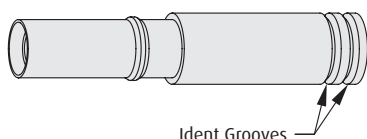
Datamate J-Tek Connectors

Spare Female Crimp Contacts

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



DATAMATE J-TEK

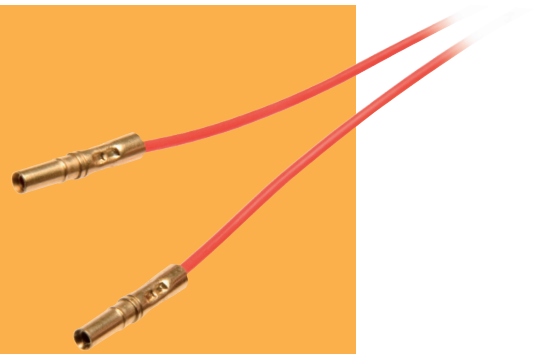
CRIMP CONTACTS		DUMMY CONTACT	
<div>Large Bore (22 AWG)</div> <div></div>		<div></div> <div>ORDER CODE</div> <div>M80-023</div>	
<div>Small Bore (24 to 28 AWG)</div> <div></div>		<div>WIRE STRIPPING DETAILS</div> <div></div>	
<div>Extra Small Bore (28 to 32 AWG)</div> <div></div>		<div>TOOLS</div> <div>Recommended Crimp Tool - M22520/2-01</div> <div>Positioner - T5747</div> <div>Contact Insertion/Removal Tool - Z80-280</div> <div>❖ Pre-cabled contacts shown on following page.</div> <div>❖ Instruction sheets available at www.harwin.com/instructions.</div>	
HOW TO ORDER			
<div>M80 - 0XX 00 XX</div>			
<div>SERIES CODE</div>			
<div>TYPE</div>			
011	Large Bore (22 AWG)		
013	Small Bore (24-28 AWG)		
019	Extra Small Bore (28-32 AWG)		
		<div>FINISH</div>	
		01	Gold + Tin
		05	Gold

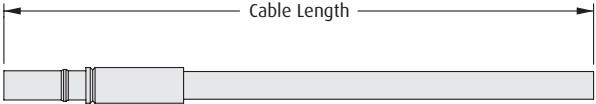
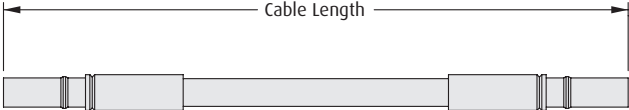
All dimensions in mm.

Datamate J-Tek Connectors

Female Crimp Contacts – Pre-Crimped Wires

- ❖ Female crimp contacts pre-assembled with a choice of BS 3G 210 Type A cable at selected lengths.
- ❖ PTFE-insulated, multi-strand silver-plated copper conductor equipment wire.
- ❖ Ideal for prototype and pre-production applications.



FEMALE SINGLE ENDED		FEMALE - FEMALE																											
																													
TOOLS																													
Contact Insertion/Removal Tool – Z80-280		<div><div></div> Full crimp connector kits and spare crimp contacts shown on previous pages.</div> <div><div></div> Instruction sheets available at www.harwin.com/instructions.</div>																											
HOW TO ORDER																													
M80 - 9XX 00 99		<table><tr><th colspan="2">CABLE COLOR</th></tr><tr><td>99</td><td>Red</td></tr></table>		CABLE COLOR		99	Red																						
CABLE COLOR																													
99	Red																												
SERIES CODE	<table><tr><th>SINGLE ENDED</th><th>FEMALE-FEMALE</th></tr><tr><td>910</td><td>918</td></tr><tr><td>911</td><td>919</td></tr><tr><td>912</td><td>920</td></tr><tr><td>913</td><td>921</td></tr><tr><td>914</td><td>922</td></tr><tr><td>915</td><td>923</td></tr><tr><td>916</td><td>924</td></tr><tr><td>917</td><td>925</td></tr></table>	SINGLE ENDED	FEMALE-FEMALE	910	918	911	919	912	920	913	921	914	922	915	923	916	924	917	925	<table><tr><td>22 AWG Cable, 150mm length</td></tr><tr><td>24 AWG Cable, 150mm length</td></tr><tr><td>26 AWG Cable, 150mm length</td></tr><tr><td>28 AWG Cable, 150mm length</td></tr><tr><td>22 AWG Cable, 300mm length</td></tr><tr><td>24 AWG Cable, 300mm length</td></tr><tr><td>26 AWG Cable, 300mm length</td></tr><tr><td>28 AWG Cable, 300mm length</td></tr></table>		22 AWG Cable, 150mm length	24 AWG Cable, 150mm length	26 AWG Cable, 150mm length	28 AWG Cable, 150mm length	22 AWG Cable, 300mm length	24 AWG Cable, 300mm length	26 AWG Cable, 300mm length	28 AWG Cable, 300mm length
SINGLE ENDED	FEMALE-FEMALE																												
910	918																												
911	919																												
912	920																												
913	921																												
914	922																												
915	923																												
916	924																												
917	925																												
22 AWG Cable, 150mm length																													
24 AWG Cable, 150mm length																													
26 AWG Cable, 150mm length																													
28 AWG Cable, 150mm length																													
22 AWG Cable, 300mm length																													
24 AWG Cable, 300mm length																													
26 AWG Cable, 300mm length																													
28 AWG Cable, 300mm length																													

All dimensions in mm.

Datamate J-Tek Connectors

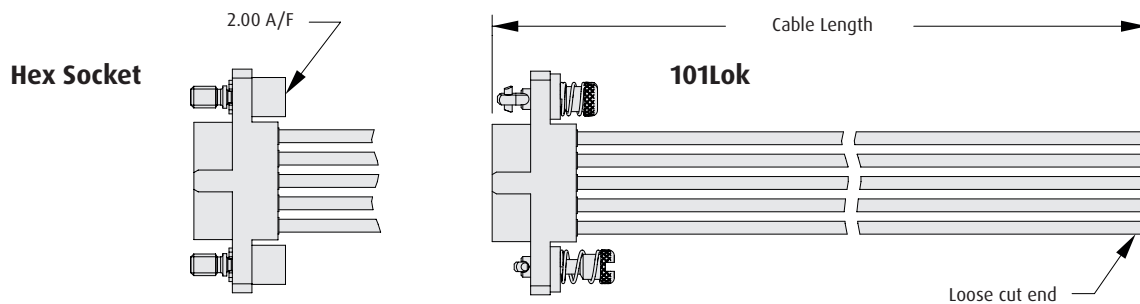
Female Cable Assemblies

- ❖ Fully assembled connectors, fixings and cable in standard configurations.
- ❖ Fitted with 24AWG wire, PTFE insulation.
- ❖ Connectors mate with Datamate J-Tek male connectors with applicable threaded jackscrews or 101Lok fixings.



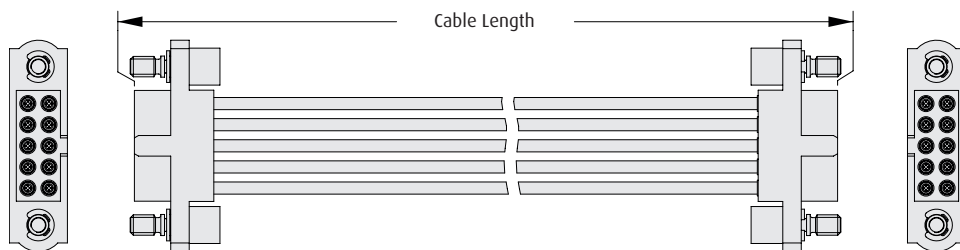
DATAMATE J-TEK

FEMALE SINGLE ENDED



- ❖ Cable insulation is multicolored - check applicable Technical Drawing for color sequence.

FEMALE - FEMALE DOUBLE ENDED



- ❖ Cable insulation is white.
- ❖ Contact 1 is attached to Contact 1, Contact 2 to Contact 2, etc.

HOW TO ORDER

M80 - FC2 XX XX XX - 0150 XX

SERIES CODE

TOTAL NO. OF CONTACTS

06, 10, 20, 26	Double Ended, Hex Socket
06, 10, 20, 26, 50	Single Ended, Hex Socket
04, 08, 12, 20	Single Ended, 101Lok

FIXING, LENGTH, TERMINATION - SECOND END

F2-0150F2	150mm, Double Ended, Hex Socket Jackscrews
F2-0150L	150mm, Single Ended, Hex Socket Jackscrews
FC-0150L	150mm, Single Ended, 101Lok

WIRE COLOR

05	White (Double Ended only)
68	Multicolor (Single Ended only)

All dimensions in mm.

Datamate J-Tek Connectors

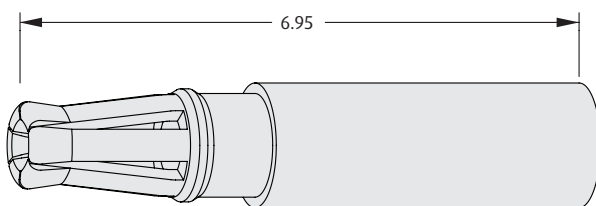
Female Crimp T-Contact

- ❖ Advanced single-piece contact design using Beryllium Copper for a 6-finger contact with improved capabilities.
- ❖ Current carrying capacity up to 8.5 Amps per contact.
- ❖ Improved mating durability to 1,000 operations.
- ❖ Suitable for use with 22AWG cable, Ø1.1mm maximum insulation diameter.
- ❖ Compatible cable housings showing on the following pages - order contact and housings separately.



CRIMP CONTACTS

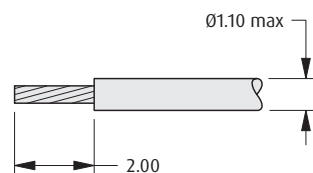
Large Bore (22 AWG)



TOOLS

Recommended Crimp Tool - M22520/2-01
Positioner - Z80-444
Contact insertion/Removal Tool - Z80-280
 ❖ Instruction sheets available at www.harwin.com/instructions.

WIRE STRIPPING DETAILS



HOW TO ORDER

M80 - 206 00 05

SERIES CODE

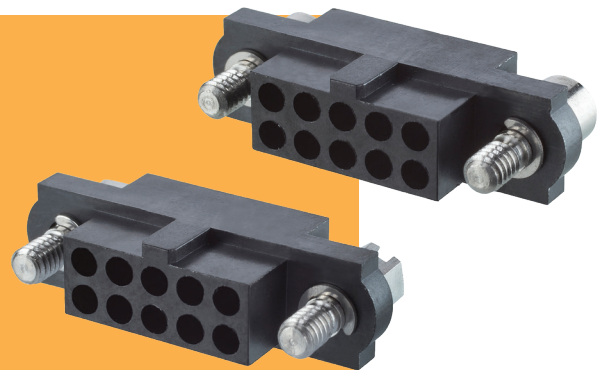
FINISH

05 Gold

Datamate J-Tek Connectors

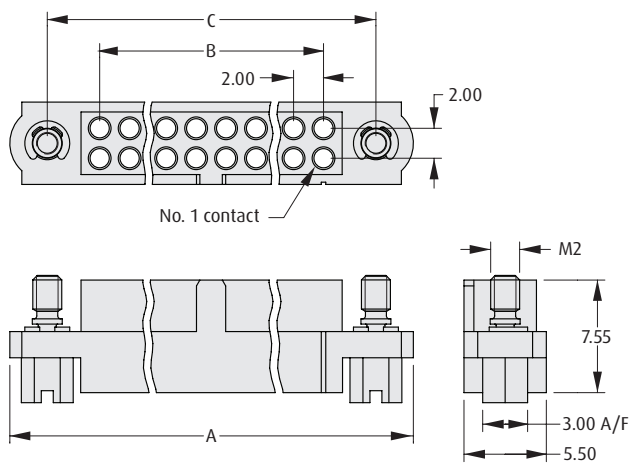
Female Crimp Housing

- ❖ Compatible with all female signal barrel crimp contacts, including T-Contact shown on previous page.
- ❖ Use insertion tool to insert crimped contacts into rear of connector housing: **order code Z80-Z80**.
- ❖ Connectors mate with Datamate J-Tek male connectors with applicable jackscrews.
- ❖ Jackscrews are supplied already assembled to housing.

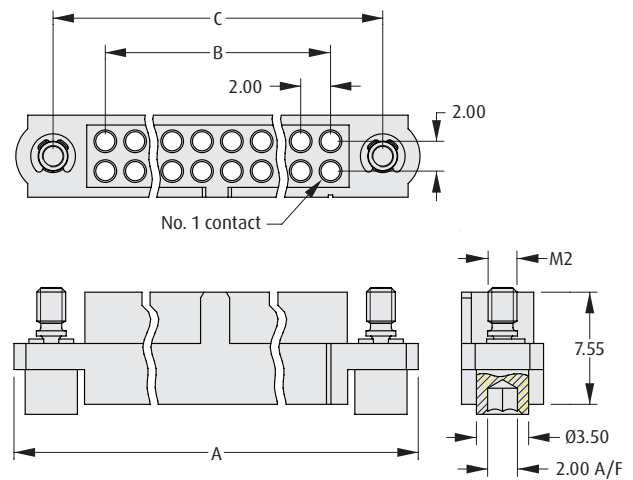


DATAMATE J-TEK

HEX SLOTTED JACKSCREWS



HEX SOCKET JACKSCREWS



CALCULATION

A	$B + 12$
B	Total no. of contacts - 2
C	$B + 7$

HOW TO ORDER

M80 - 41 X XX 98

SERIES CODE

JACKSCREW TYPE

3	Hex Slotted Jackscrews
4	Hex Socket Jackscrews

TOTAL NO. OF CONTACTS

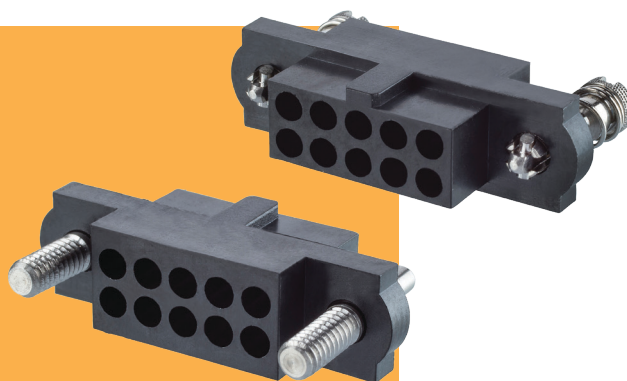
04 to 50 (Even numbers only)

All dimensions in mm.

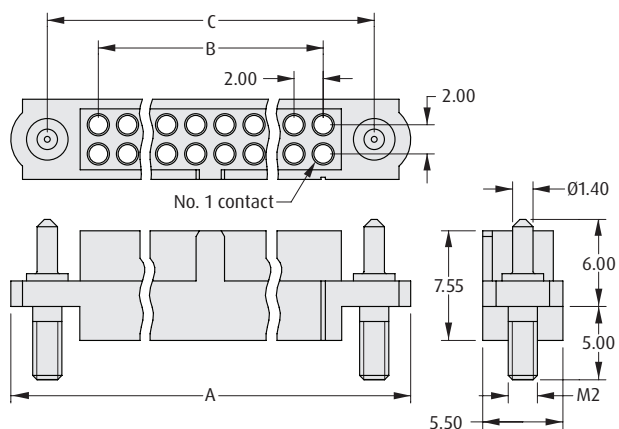
Datamate J-Tek Connectors

Female Crimp Housing - Guide Pin, 101Lok

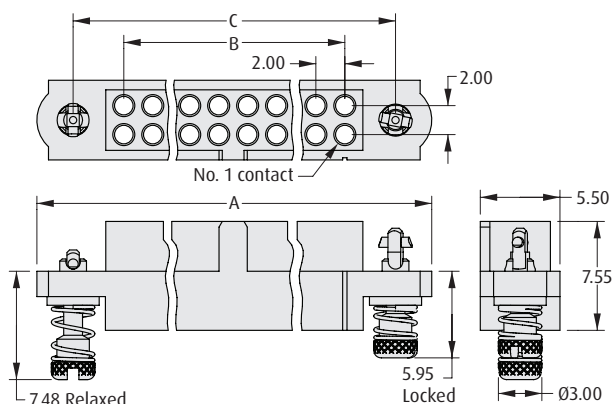
- ❖ Compatible with all female signal barrel crimp contacts, including T-Contact shown on previous page.
- ❖ Guide pin style includes board mount fixing.
- ❖ 101Lok fixing gives secure, fast and simple mating; no special tooling required. Just a simple 101-degree turn is required to fix the connectors together.
- ❖ Connectors mate with Datamate J-Tek male connectors with applicable jackscrews or 101Lok fixings.



GUIDE PIN JACKSCREWS



101LOK



CALCULATION

A	B + 12
B	Total no. of contacts - 2
C	B + 7

HOW TO ORDER

M80 - 41 X XX 98

SERIES CODE

JACKSCREW TYPE

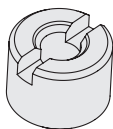
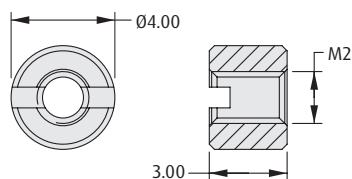
7	Guide Pin Jackscrews
8	101Lok

TOTAL NO. OF CONTACTS

04 to 50 (Even numbers only)

HARDWARE FOR GUIDE PIN STUD

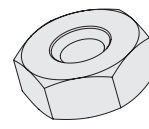
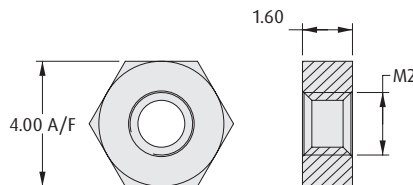
Slotted Board Mount Nut



ORDER CODE

M80-2130000B

Hexagonal Board Mount Nut



ORDER CODE

M80-2430000B

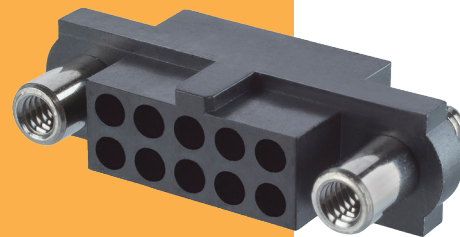
Order separately from connector

All dimensions in mm.

Datamate J-Tek Connectors

Female Crimp Housing - Reverse Fix

- Compatible with all female signal barrel crimp contacts, including T-Contact shown on previous page.
- Use insertion tool to insert crimped contacts into rear of connector housing: **order code Z80-280**.
- Jackscrews are supplied already assembled to housing.
- Connectors mate with Datamate J-Tek male connectors with compatible Reverse Fix jackscrews.

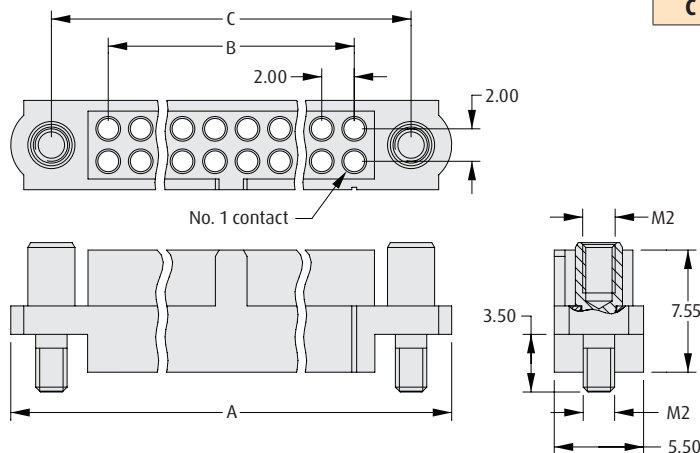


DATAMATE J-TEK

REVERSE FIX JACKSCREWS

CALCULATION

A	$B + 12$
B	Total no. of contacts - 2
C	$B + 7$



HOW TO ORDER

M80 - 41 5 XX 98

SERIES CODE

JACKSCREW TYPE

5

Reverse Fix Jackscrew

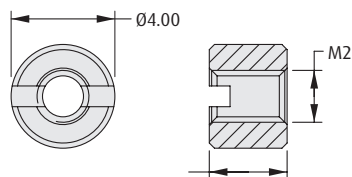
TOTAL NO. OF CONTACTS

04 to 50 (Even numbers only)

HARDWARE FOR PANEL MOUNT STUD

Order separately from connector

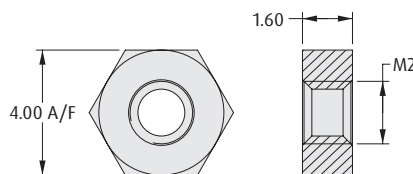
Slotted Board Mount Nut



ORDER CODE

M80-2130000B

Hexagonal Board Mount Nut



ORDER CODE

M80-2430000B

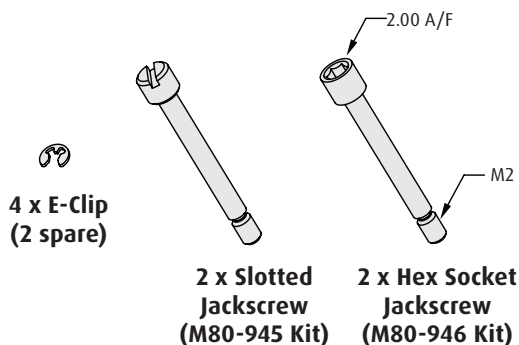
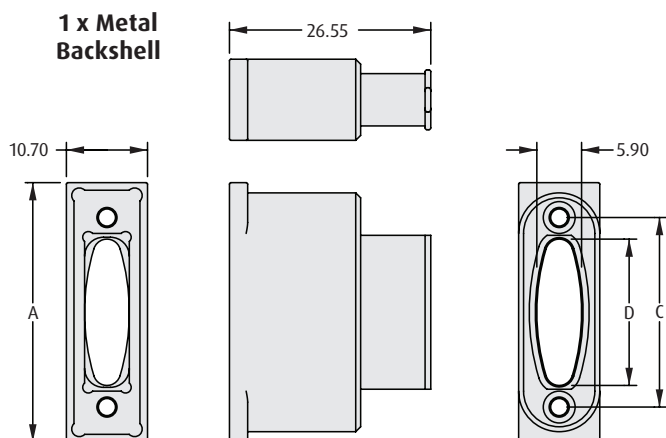
All dimensions in mm.

DATA MATE J-TEK



CALCULATION

A	B + 16.2
B	Equivalent no. of contacts - 2
C	B + 7
D	B + 0.8



BAND-IT TIE



✦ For assembling E-Clips supplied with kit.

ORDER CODE
Z80-300

- For fixing braid to rear collar (requires Tie Dex II A30199 Micro Band tool).

ORDER CODE	
M80-9470000	Length = 206.8mm
M80-9480000	Length = 362.0mm

HOW TO ORDER

M80 - 94 X XX 02

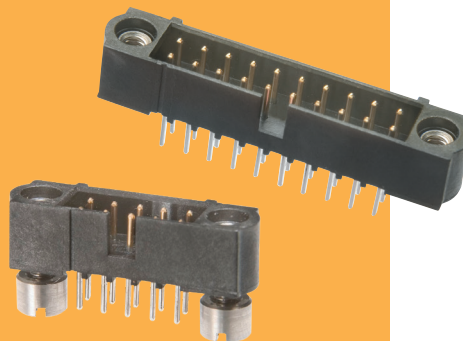
TYPE	
5	With Slotted Jackscrews
6	With Hex Socket Jackscrews

FINISH	
02	Nickel

EQUIVALENT NO. OF SIGNAL CONTACTS
08 to 28, 32 to 50 (Even numbers only)

All dimensions in mm.

DATAMATE J-TEK

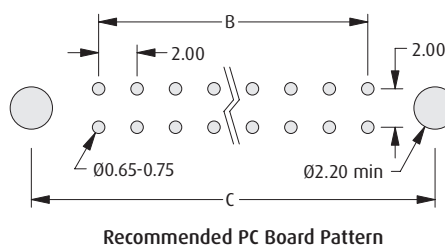


Technical drawing of a 15-pin D-sub connector showing top, side, and detail views with dimensions.

Top View Dimensions:

- C:** Overall width of the connector housing.
- B:** Width of the central contact area.
- No. 1 contact:** Label pointing to the first contact pin on the left.
- 2.00:** Thickness of the top housing flange.
- 5.55:** Distance from the top of the housing to the top of the contact pins.
- 5.60:** Distance from the top of the housing to the bottom of the contact pins.
- 0.50:** Thickness of the contact pin insulation.
- Ø0.50:** Diameter of the contact pin.
- 2.00:** Distance between adjacent contact pins.
- A:** Overall length of the connector housing.
- Tail:** Label pointing to the tail of the contact pin.

A	B + 12
B	Total no. of contacts - 2
C	B + 7



**Board Mount Nut,
2 per connector**

Dimensions (mm):

- C (Total width)
- B (Width of central slot)
- 0.50 (Width of circular features)
- 2.00 (Height of central slot)
- 5.55 (Height of component)
- No. 1 contact (Central slot)
- 5.60 (Height of side view)
- 0.50 (Width of base)
- 2.00 (Width of central slot)
- M2 (Width of base)
- Tail (Length of base)
- Tail +0.50 (Length of base with allowance)
- Ø4.00 (Outer diameter of circular feature)
- 3.00 (Width of circular feature)

M80 - 5 X X XX XX

0	With Jackscrews
1	With Board Mount
2	Without Jackscrews

0	3mm Tails
1	4.5mm Tails

05	Gold
42	Gold + Tin

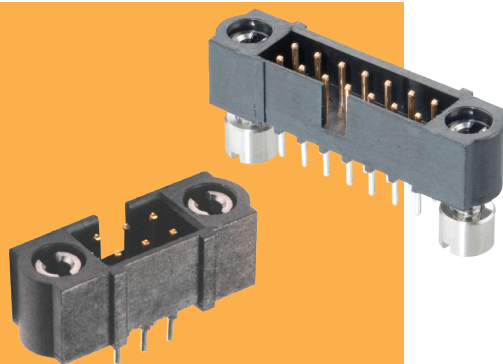
04, 06, 08, 10, 12, 14, 20, 26, 34, 42, 50

HARWIN

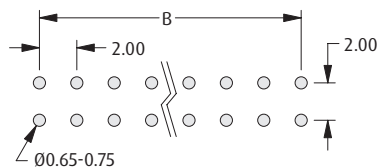
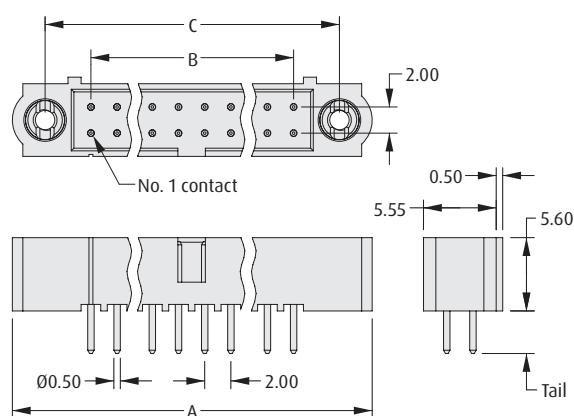
Datamate J-Tek Connectors

Male Vertical Throughboard 101Lok

- ❖ 101Lok fixing gives secure, fast and simple mating; no special tooling required. Just a simple 101-degree turn is required to fix the connectors together.
- ❖ Connectors mate with Datamate J-Tek female connectors with applicable 101Lok fixings.
- ❖ Board Mount provides PCB strain relief.
- ❖ Choice of throughboard termination length.



101LOK

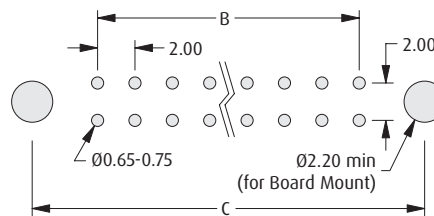
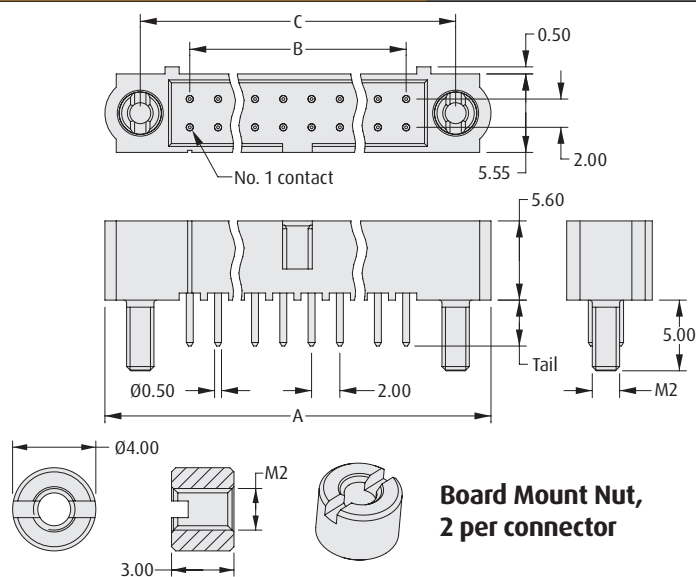


Recommended PC Board Pattern

CALCULATION

A	$B + 12$
B	Total no. of contacts - 2
C	$B + 7$

101LOK WITH BOARD MOUNT



Recommended PC Board Pattern

HOW TO ORDER

M80 - 5 TX XX XX MX

SERIES CODE

TYPE

T1	3mm Tails
T2	4.5mm Tails

TOTAL NO. OF CONTACTS

04, 06, 08, 10, 12, 14, 20, 26, 34, 42, 50

JACKSCREW

MC	101Lok
ME	101Lok with Board Mount

FINISH

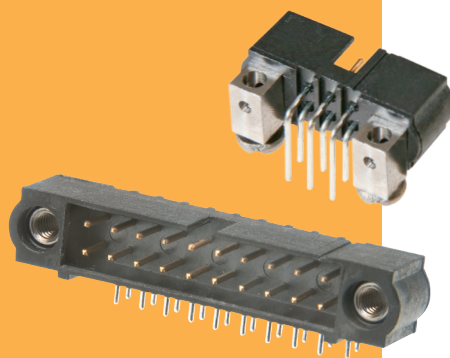
05	Gold
42	Gold + Tin

All dimensions in mm.

Datamate J-Tek Connectors

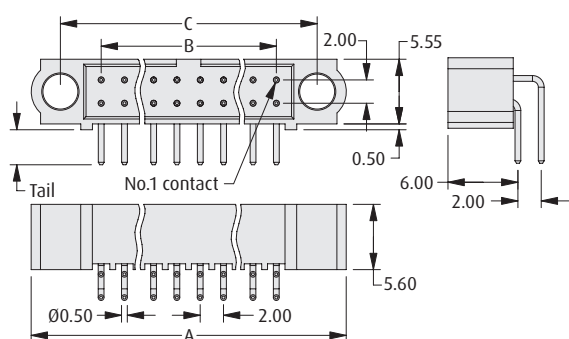
Male Horizontal Throughboard

- Polarized housings.
- Fully shrouded contacts.
- Jackscrews are assembled where specified.
- Choice of throughboard termination length.
- Board Mount provides PCB strain relief.
- Mates with female Datamate J-Tek connectors with compatible jackscrews.



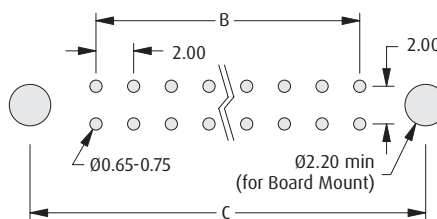
DATAMATE J-TEK

WITHOUT JACKSCREWS



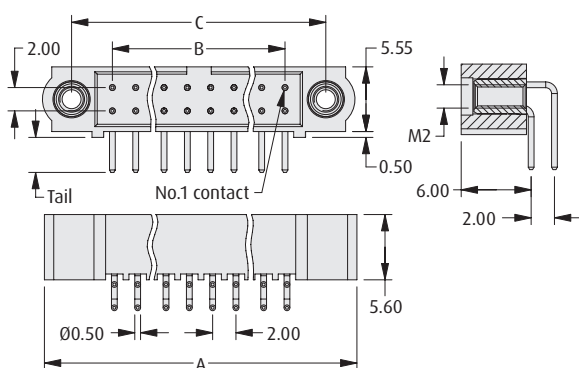
CALCULATION

A	$B + 12$
B	Total no. of contacts - 2
C	$B + 7$

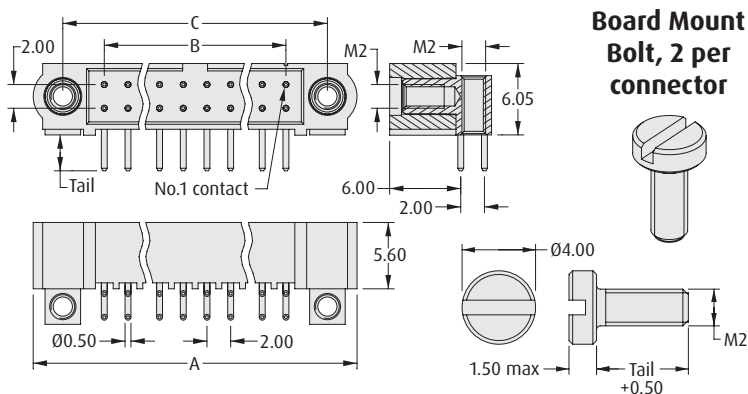


Recommended PC Board Pattern

WITH JACKSCREWS



WITH BOARD MOUNT



HOW TO ORDER

M80 - 5 X X XX XX

SERIES CODE

3	With Jackscrews
4	With Board Mount
5	Without Jackscrews

0	3mm Tails
1	4.5mm Tails

FINISH

05	Gold
42	Gold + Tin

TOTAL NO. OF CONTACTS

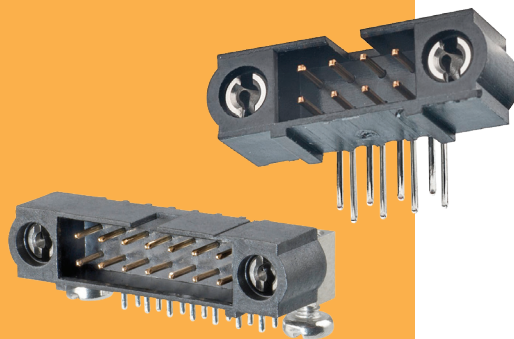
04, 06, 08, 10, 12, 14, 20, 26, 34, 42, 50

All dimensions in mm.

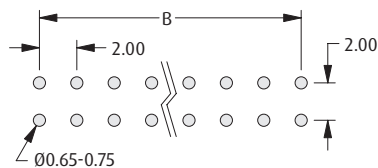
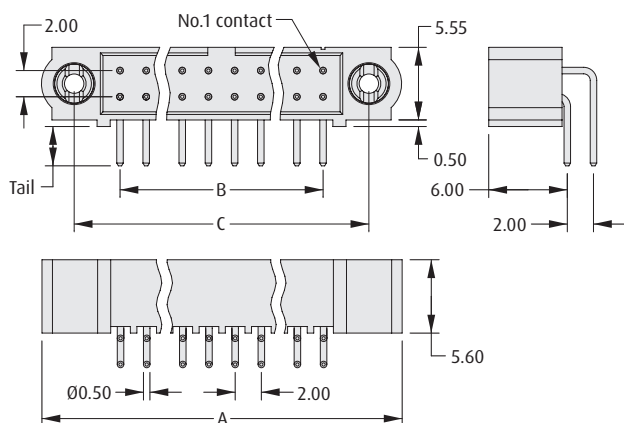
Datamate J-Tek Connectors

Male Horizontal Throughboard 101Lok

- ❖ 101Lok fixing gives secure, fast and simple mating; no special tooling required. Just a simple 101-degree turn is required to fix the connectors together.
- ❖ Connectors mate with Datamate J-Tek female connectors with applicable 101Lok fixings.
- ❖ Board Mount provides PCB strain relief.
- ❖ Choice of throughboard termination length.



101LOK

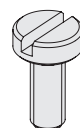
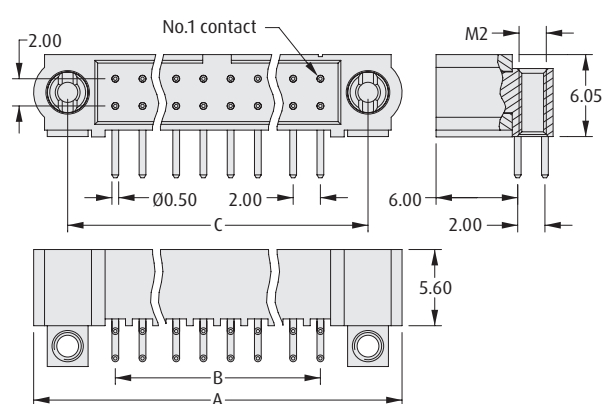


Recommended PC Board Pattern

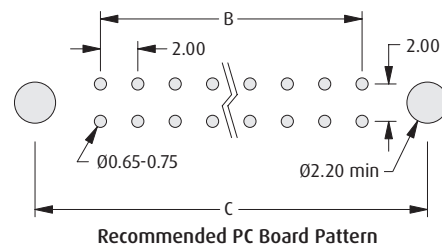
CALCULATION

A	$B + 12$
B	Total no. of contacts - 2
C	$B + 7$

101LOK WITH BOARD MOUNT



Board Mount Bolt,
2 per connector



Recommended PC Board Pattern

HOW TO ORDER

M80 - 5 LX XX XX MX

SERIES CODE

TYPE

L1	3mm Tails
L2	4.5mm Tails

TOTAL NO. OF CONTACTS

04, 06, 08, 10, 12, 14, 20, 26, 34, 42, 50

JACKSCREW

MC	101Lok
MD	101Lok with Board Mount

FINISH

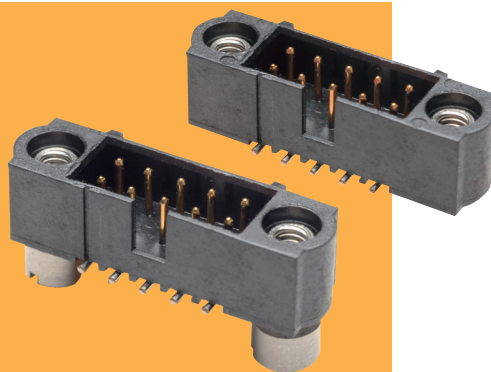
05	Gold
42	Gold + Tin

All dimensions in mm.

Datamate J-Tek Connectors

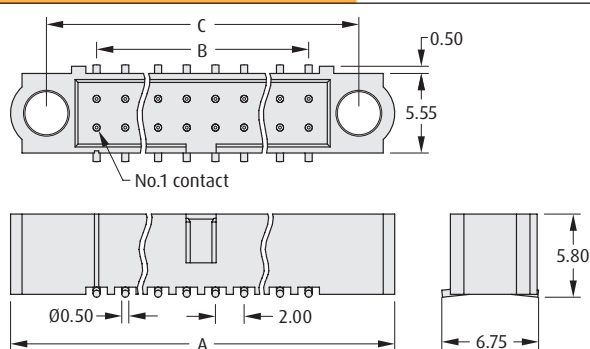
Male Vertical Surface Mount

- ❑ Gull wing SMT tails simplify inspection process.
- ❑ Board Mount provides PCB strain relief.
- ❑ Optional pick and place cap.
- ❑ Mates with female Datamate J-Tek connectors with compatible jackscrews.



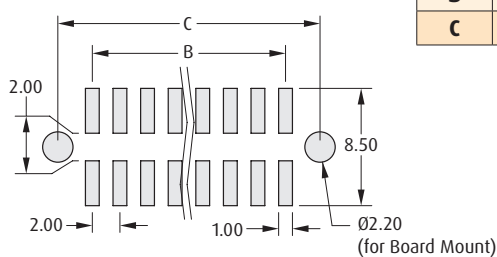
DATAMATE J-TEK

WITHOUT JACKSCREWS



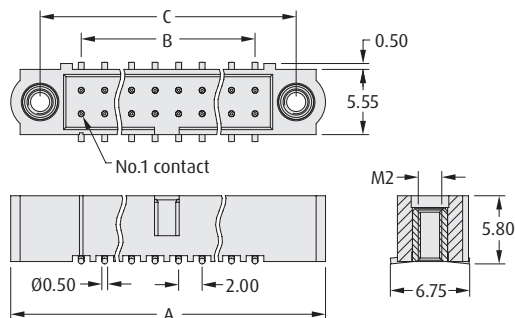
CALCULATION

A	$B + 12$
B	Total no. of contacts - 2
C	$B + 7$

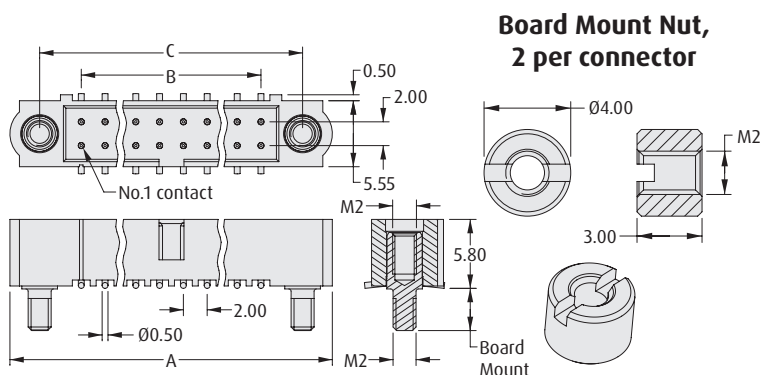


Recommended PC Board Pattern

WITH JACKSCREWS



WITH BOARD MOUNT



HOW TO ORDER

M80 - 5 XX XX XX P

SERIES CODE

TYPE

02	With Jackscrews
12	With 3.5mm Board Mount
13	With 5mm Board Mount
22	Without Jackscrews

PICK AND PLACE CAP

BLANK	No Cap
P	Pick & Place Cap

FINISH

05	Gold
42	Gold + Tin

TOTAL NO. OF CONTACTS

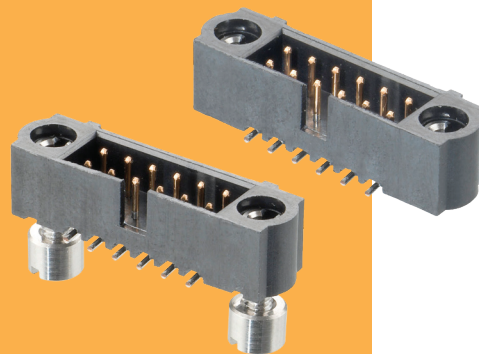
04, 06, 08, 10, 12, 14, 20, 26, 34, 42, 50

All dimensions in mm.

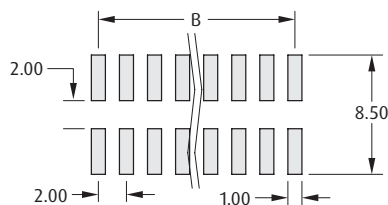
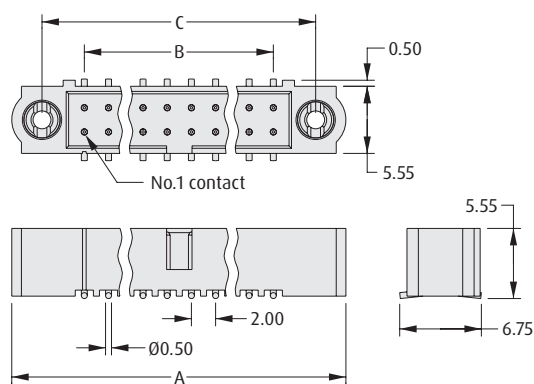
Datamate J-Tek Connectors

Male Vertical Surface Mount 101Lok

- ❖ 101Lok fixing gives secure, fast and simple mating; no special tooling required. Just a simple 101-degree turn is required to fix the connectors together.
- ❖ Connectors mate with Datamate J-Tek female connectors with applicable 101Lok fixings.
- ❖ Board Mount provides PCB strain relief.
- ❖ Gull wing SMT tails simplify inspection process.



101LOK

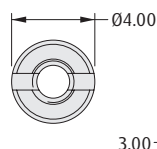
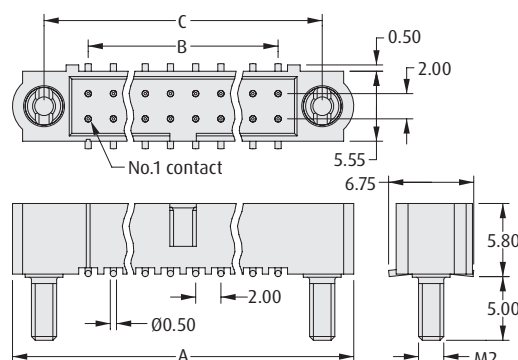


Recommended PC Board Pattern

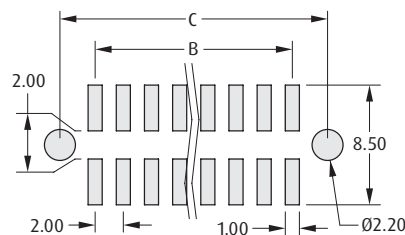
CALCULATION

A	$B + 12$
B	Total no. of contacts - 2
C	$B + 7$

101LOK WITH BOARD MOUNT



Board Mount Nut,
2 per connector



Recommended PC Board Pattern

HOW TO ORDER

M80 - 5S1 XX XX MX

SERIES CODE

TOTAL NO. OF CONTACTS

04, 06, 08, 10, 12, 14, 20, 26, 34, 42, 50

JACKSCREW

MC	101Lok
ME	101Lok with 5mm Board Mount

FINISH

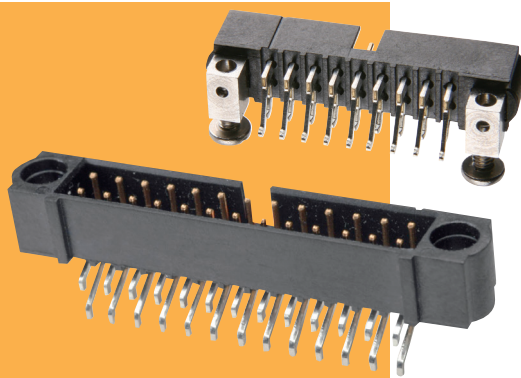
05	Gold
42	Gold + Tin

All dimensions in mm.

Datamate J-Tek Connectors

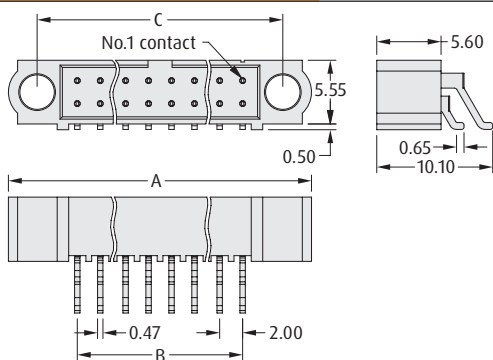
Male Horizontal Surface Mount

- Stamped contact ensures co-planarity.
- Board Mount provides PCB strain relief.
- Mates with female Datamate J-Tek connectors with compatible jackscrews.



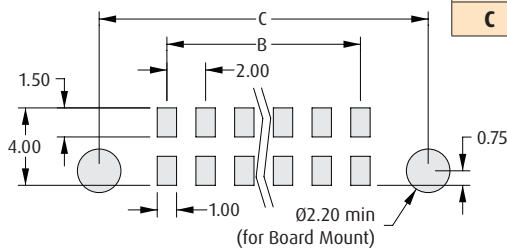
DATAMATE J-TEK

WITHOUT JACKSCREWS



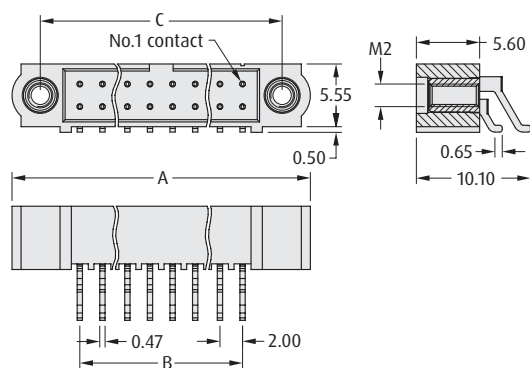
CALCULATION

A	$B + 12$
B	Total no. of contacts - 2
C	$B + 7$

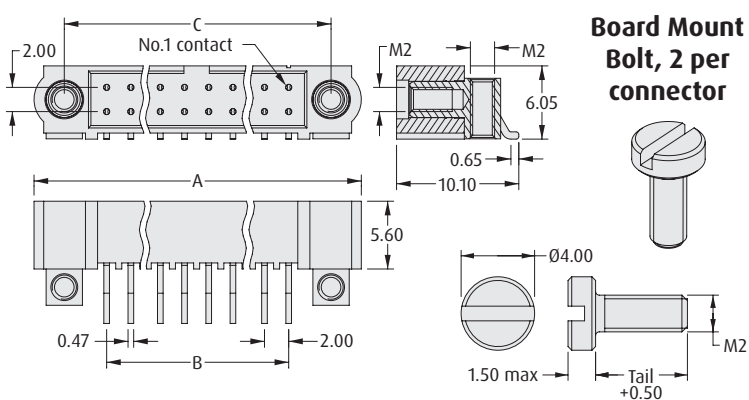


Recommended PC Board Pattern

WITH JACKSCREWS



WITH BOARD MOUNT



HOW TO ORDER

M80 - 5 XX XX XX

SERIES CODE

TYPE

32	With Jackscrews
42	With 3.5mm Board Mount
43	With 5mm Board Mount
52	Without Jackscrews

FINISH

05	Gold
42	Gold + Tin

TOTAL NO. OF CONTACTS

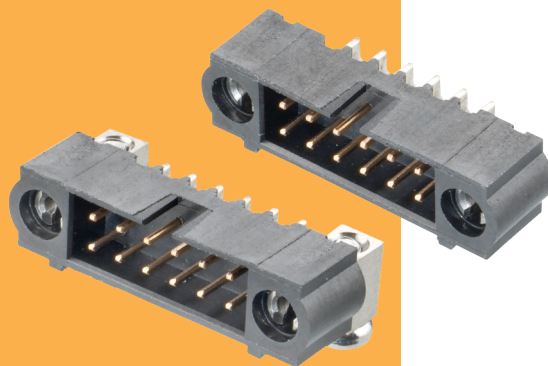
04, 06, 08, 10, 12, 14, 20, 26, 34, 42, 50

All dimensions in mm.

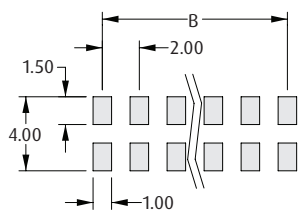
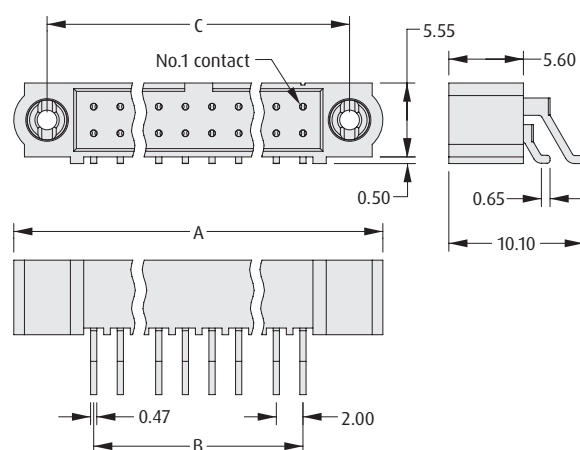
Datamate J-Tek Connectors

Male Horizontal Surface Mount 101Lok

- ❖ 101Lok fixing gives secure, fast and simple mating; no special tooling required. Just a simple 101-degree turn is required to fix the connectors together.
- ❖ Connectors mate with Datamate J-Tek female connectors with applicable 101Lok fixings.
- ❖ Board Mount provides PCB strain relief.
- ❖ Stamped contact ensures co-planarity.



101LOK

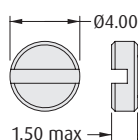
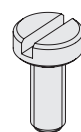
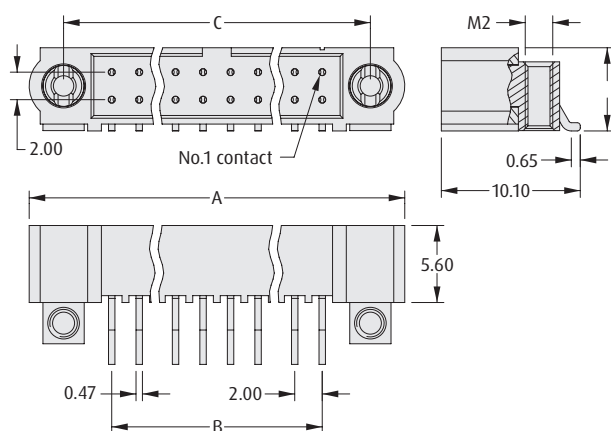


Recommended PC Board Pattern

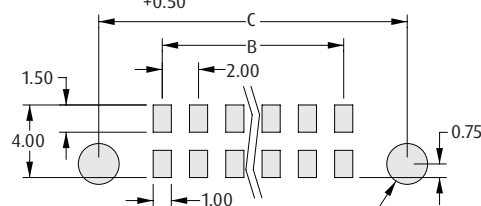
CALCULATION

A	$B + 12$
B	Total no. of contacts - 2
C	$B + 7$

101LOK WITH BOARD MOUNT



Board Mount Bolt,
2 per connector



Recommended PC Board Pattern

HOW TO ORDER

M80 - 5S2 XX XX MX

SERIES CODE

TOTAL NO. OF CONTACTS

04, 06, 08, 10, 12, 14, 20, 26, 34, 42, 50

JACKSCREW

MC	101Lok
MD	101Lok with Board Mount

FINISH

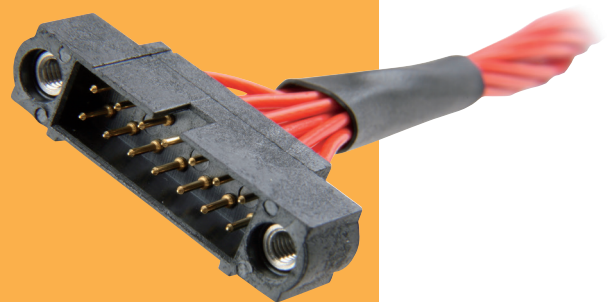
05	Gold
42	Gold + Tin

All dimensions in mm.

Datamate J-Tek Connectors

Male 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 supplied loose.
- ❖ Crimp contacts are rear insertable and replaceable.
- ❖ Spare contacts are available.



DATAMATE J-TEK

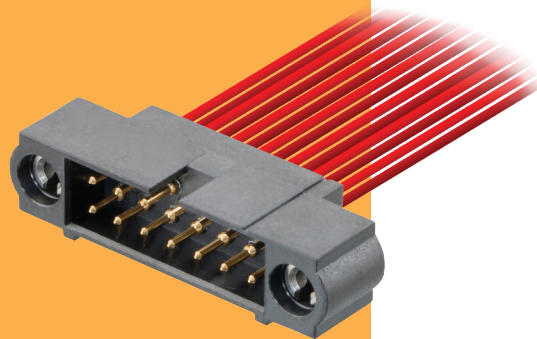
WITHOUT JACKSCREWS		WITH JACKSCREWS															
<p>No.1 contact</p>		<p>No.1 contact</p>															
<table><tr><th colspan="2">CALCULATION</th></tr><tr><td>A</td><td>B + 12</td></tr><tr><td>B</td><td>Total no. of contacts - 2</td></tr><tr><td>C</td><td>B + 7</td></tr></table>				CALCULATION		A	B + 12	B	Total no. of contacts - 2	C	B + 7						
CALCULATION																	
A	B + 12																
B	Total no. of contacts - 2																
C	B + 7																
TOOLS		WIRE STRIPPING DETAILS															
<p>Recommended Crimp Tool - M22520/2-01</p> <p>Positioner - Z80-193</p> <p>Contact Insertion/Removal Tool - Z80-280</p> <p>❖ Spare contacts shown on following pages.</p> <p>❖ Instruction sheets available at www.harwin.com/instructions.</p>																	
HOW TO ORDER																	
<p>M80 - 5XX XX 05</p>																	
<table><tr><th colspan="2">SERIES CODE</th></tr><tr><td>570</td><td>Large Bore (22 AWG), without Jackscrews</td></tr><tr><td>571</td><td>Small Bore (24-28 AWG), without Jackscrews</td></tr><tr><td>560</td><td>Large Bore (22 AWG), with Jackscrews</td></tr><tr><td>561</td><td>Small Bore (24-28 AWG), with Jackscrews</td></tr></table>		SERIES CODE		570	Large Bore (22 AWG), without Jackscrews	571	Small Bore (24-28 AWG), without Jackscrews	560	Large Bore (22 AWG), with Jackscrews	561	Small Bore (24-28 AWG), with Jackscrews	<table><tr><th colspan="2">FINISH</th></tr><tr><td>05</td><td>Gold</td></tr></table>		FINISH		05	Gold
SERIES CODE																	
570	Large Bore (22 AWG), without Jackscrews																
571	Small Bore (24-28 AWG), without Jackscrews																
560	Large Bore (22 AWG), with Jackscrews																
561	Small Bore (24-28 AWG), with Jackscrews																
FINISH																	
05	Gold																
		<table><tr><th colspan="2">TOTAL NO. OF CONTACTS</th></tr><tr><td colspan="2">04, 06, 08, 10, 12, 14, 20, 26, 34, 42, 50</td></tr></table>		TOTAL NO. OF CONTACTS		04, 06, 08, 10, 12, 14, 20, 26, 34, 42, 50											
TOTAL NO. OF CONTACTS																	
04, 06, 08, 10, 12, 14, 20, 26, 34, 42, 50																	

All dimensions in mm.

Datamate J-Tek Connectors

Male Crimp Kit 101Lok

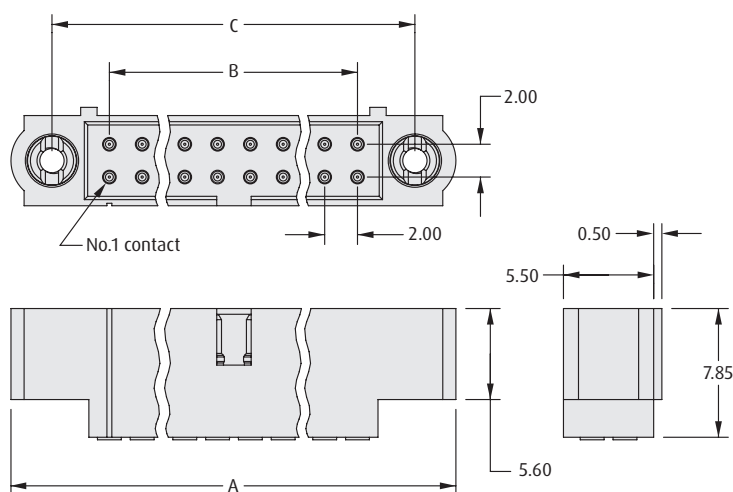
- ❖ Part numbers are for a complete kit of a housing and the applicable number of contacts.
- ❖ 101Lok fixing gives secure, fast and simple mating; no special tooling required. Just a simple 101-degree turn is required to fix the connectors together.
- ❖ Connectors mate with Datamate J-Tek female connectors with applicable 101Lok fixings.
- ❖ Crimp contacts supplied loose.



101LOK

CALCULATION

A	$B + 12$
B	Total no. of contacts - 2
C	$B + 7$

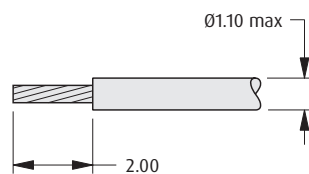


TOOLS

Recommended Crimp Tool - M22520/2-01
Positioner - Z80-193
Contact Insertion/Removal Tool - Z80-280

- ❖ Spare contacts shown on following pages.
- ❖ Instruction sheets available at www.harwin.com/instructions.

WIRE STRIPPING DETAILS



HOW TO ORDER

M80 - 5 X1 XX 05 MC

SERIES CODE

TYPE

C1	Small Bore (24-28 AWG)
D1	Large Bore (22 AWG)

TOTAL NO. OF CONTACTS

04, 06, 08, 10, 12, 14, 20, 26, 34, 42, 50

JACKSCREW

MC 101Lok

FINISH

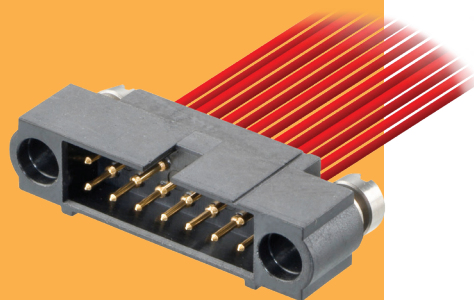
05 Gold

All dimensions in mm.

Datamate J-Tek Connectors

Male Crimp Kit Reverse Fix

- ❖ Allows for further flexibility in system design.
- ❖ Part numbers are for a complete kit of a housing and the applicable number of contacts.
- ❖ Crimp contacts are rear insertable and replaceable.
- ❖ Mates with female Datamate J-Tek connectors with compatible Reverse Fix jackscrews.



DATAMATE J-TEK

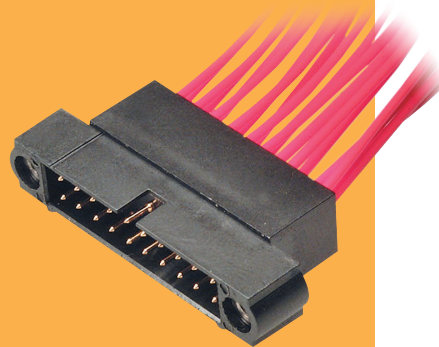
REVERSE FIX		CALCULATION													
		A	B + 12												
		B	Total no. of contacts - 2												
		C	B + 7												
TOOLS		WIRE STRIPPING DETAILS													
<p>Recommended Crimp Tool - M22520/2-01</p> <p>Positioner - Z80-193</p> <p>Contact Insertion/Removal Tool - Z80-280</p> <p>❖ Spare contacts shown on following pages.</p> <p>❖ Instruction sheets available at www.harwin.com/instructions.</p>															
HOW TO ORDER															
<p>M80 - 5XX XX 05</p>															
<p>SERIES CODE</p>		<p>FINISH</p>													
<table><tr><th colspan="2">TYPE</th></tr><tr><td>562</td><td>Large Bore (22 AWG), Slotted Jackscrew</td></tr><tr><td>563</td><td>Small Bore (24-28 AWG), Slotted Jackscrew</td></tr><tr><td>582</td><td>Large Bore (22 AWG), Hex Socket Jackscrew</td></tr><tr><td>583</td><td>Small Bore (24-28 AWG), Hex Socket Jackscrew</td></tr></table>		TYPE		562	Large Bore (22 AWG), Slotted Jackscrew	563	Small Bore (24-28 AWG), Slotted Jackscrew	582	Large Bore (22 AWG), Hex Socket Jackscrew	583	Small Bore (24-28 AWG), Hex Socket Jackscrew	<table><tr><td>05</td><td>Gold</td></tr></table>		05	Gold
TYPE															
562	Large Bore (22 AWG), Slotted Jackscrew														
563	Small Bore (24-28 AWG), Slotted Jackscrew														
582	Large Bore (22 AWG), Hex Socket Jackscrew														
583	Small Bore (24-28 AWG), Hex Socket Jackscrew														
05	Gold														
		<p>TOTAL NO. OF CONTACTS</p>													
		<p>04, 06, 08, 10, 12, 14, 20, 26, 34, 42, 50</p>													

All dimensions in mm.

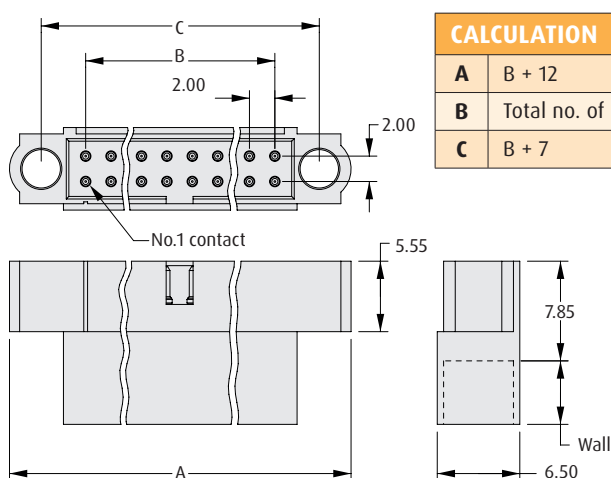
Datamate J-Tek Connectors

Male Crimp Kit Extended Wall

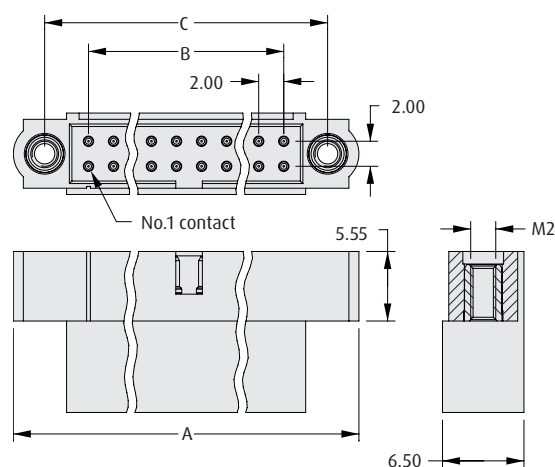
- Extended Wall Datamate allows back potting to be performed.
- Fully shrouded contacts.
- Large Bore 22 AWG, Small Bore 24 – 28 AWG.
- Part numbers are for a complete kit of a housing and the applicable number of contacts.
- Crimp contacts are rear insertable and replaceable.
- Crimp contacts supplied loose.



WITHOUT JACKSCREWS



WITH JACKSCREWS

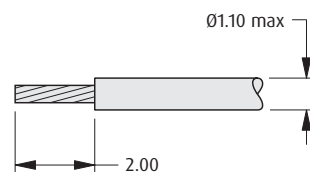


TOOLS

Recommended Crimp Tool - M22520/2-01
Positioner - Z80-193
Contact Insertion/Removal Tool - Z80-280

- Spare contacts shown on following pages.
- Instruction sheets available at www.harwin.com/instructions.

WIRE STRIPPING DETAILS



HOW TO ORDER

M80 - 5XX XX 05 X

SERIES CODE

TYPE

575	Large Bore (22 AWG), without Jackscrews
576	Small Bore (24-28 AWG), without Jackscrews
565	Large Bore (22 AWG), with Jackscrews
566	Small Bore (24-28 AWG), with Jackscrews

WALL SIZE

BLANK	Wall = 5mm
A	Wall = 1mm

FINISH

05	Gold
----	------

TOTAL NO. OF CONTACTS

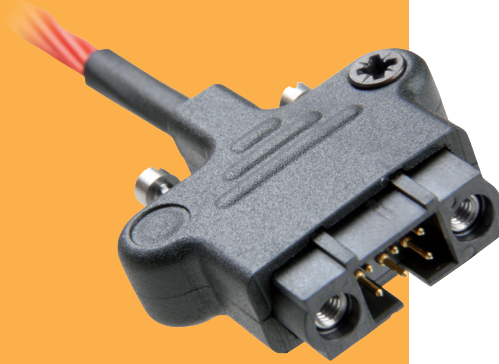
06, 10, 14, 20, 26, 34

All dimensions in mm.

Datamate J-Tek Connectors

Male Crimp with Hood

- ❖ Supplied as a complete kit: jackscrews assembled to housing; hood, contacts and assembly screws supplied loose.
- ❖ Provides strain relief by preventing cable bending at the rear of the connector, and also the option of inserting a cable tie to reduce pull strain.

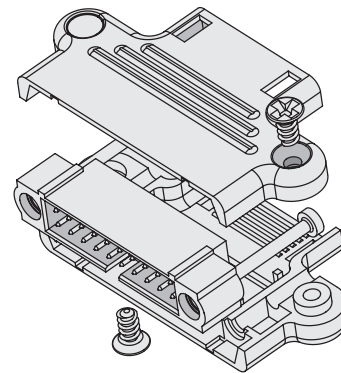
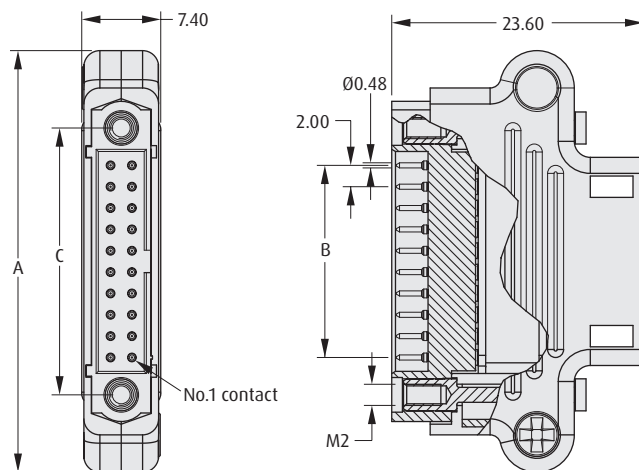


DATAMATE J-TEK

MALE

CALCULATION

A	$B + 21.5$
B	Total no. of contacts - 2
C	$B + 7$

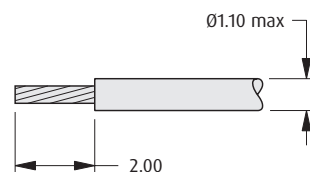


TOOLS

Recommended Crimp Tool - M22520/2-01
Positioner - Z80-193
Contact Insertion/Removal Tool - Z80-280

- ❖ Spare contacts shown on following pages.
- ❖ Instruction sheets available at www.harwin.com/instructions.

WIRE STRIPPING DETAILS



HOW TO ORDER

M80 - 94 X XX 05

SERIES CODE

TYPE

2	Small Bore (24-28 AWG)
3	Large Bore (22 AWG)

FINISH

05	Gold
-----------	------

TOTAL NO. OF CONTACTS

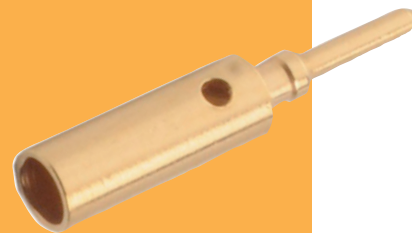
06, 08, 10, 12, 14, 20, 26, 34, 42, 50

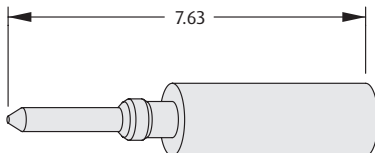
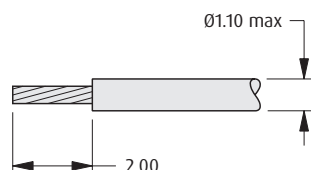
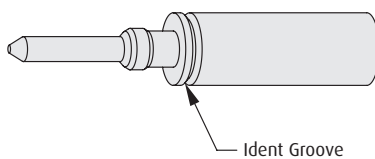
All dimensions in mm.

Datamate J-Tek Connectors

Spare Male Crimp Contacts

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



CRIMP CONTACTS		WIRE STRIPPING DETAILS							
<div>Large Bore (22 AWG)</div> <div></div>		<div></div>							
<div>Small Bore (24 to 28 AWG)</div> <div></div>		<div>TOOLS</div> <div><div>Recommended Crimp Tool - M22520/2-01</div><div>Positioner - Z80-193</div><div>Contact Insertion/Removal Tool - Z80-280</div><div>❖ Instruction sheets available at www.harwin.com/instructions.</div></div>							
HOW TO ORDER									
<div>M80 - 19 X 00 05</div>									
<div>SERIES CODE</div>		<div>FINISH</div>							
<div>TYPE</div> <table><tr><td>4</td><td>Large Bore (22 AWG)</td></tr><tr><td>5</td><td>Small Bore (24-28 AWG)</td></tr></table>		4	Large Bore (22 AWG)	5	Small Bore (24-28 AWG)	<table><tr><td>05</td><td>Gold</td></tr></table>		05	Gold
4	Large Bore (22 AWG)								
5	Small Bore (24-28 AWG)								
05	Gold								

All dimensions in mm.

Datamate J-Tek Connectors

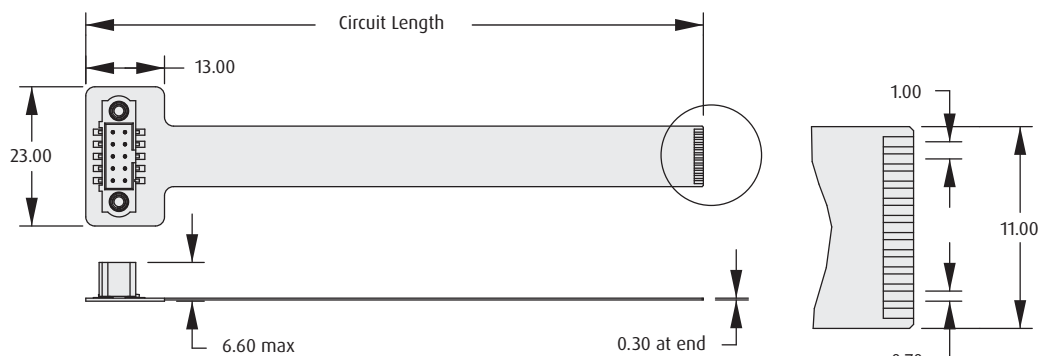
Flexible Circuit Assemblies

- ❖ Surface mount connectors with jackscrews assembled to flexible printed circuit for an alternative to cable connection.
- ❖ Improved bend radius and lower mated height than equivalent cable assemblies.
- ❖ The free end is compatible with 1mm pitch FPC connectors.
- ❖ Contact Harwin for alternative connector sizes and cable lengths.



DATAMATE J-TEK

MALE SINGLE ENDED



HOW TO ORDER

M80 - F1 502 10 - 100 - L

SERIES CODE

CONNECTOR - FIRST END

502 Male with internal jackscrews

TOTAL NO. OF CONTACTS

10

CONNECTOR - SECOND END

L Free End (Single Ended)

CIRCUIT LENGTH

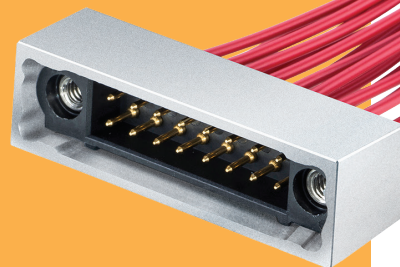
100 100mm

All dimensions in mm.

Datamate J-Tek Connectors

Male Metal Backshell

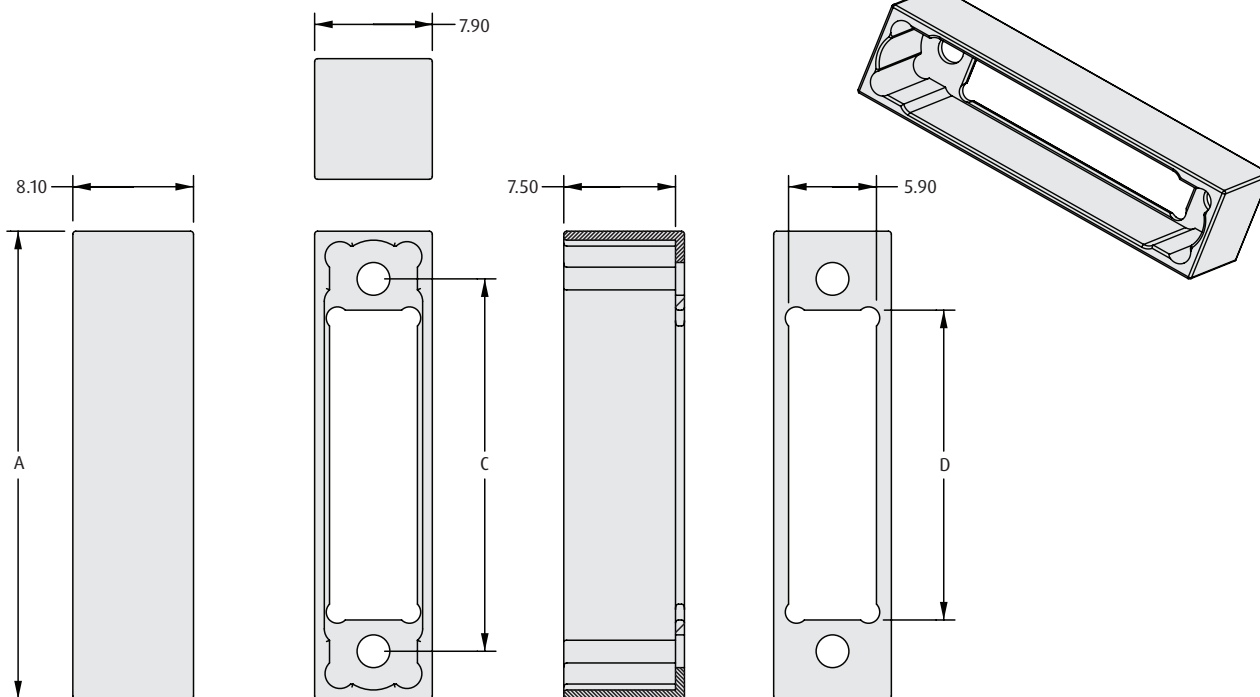
- ❖ Supplied as an accessory, to be used with existing male connectors.
- ❖ Can be fitted to either male vertical PCB connectors with board mount, or male cable connectors with panel mount jackscrews.
- ❖ Gives 360 degree shielding when mounted to a conductive panel and mated to a compatible female connector with metal backshell.



MALE

CALCULATION

A	$B + 13.7$
B	Equivalent no. of contacts - 2
C	$B + 7$
D	$B + 2.8$



HOW TO ORDER

M80 - 906 XX 02

SERIES CODE

FINISH

02 Nickel

EQUIVALENT NO. OF SIGNAL CONTACTS
08 to 28, 32 to 50 (Even numbers only)

All dimensions in mm.