

# M225 Connectors Specifications

## Materials

Housings, Pins:	High Temperature Plastic, UL94V-0
Contacts	
Female:	Beryllium Copper, Tin finish
Male:	Phosphor Bronze, Tin finish
Rubber Locking Collar:	Fluoroelastic Polymer

## Electrical

Current	
Individual contacts in isolation:	3.3A max (at 25°C) 2.6A max (at 85°C)
All contacts simultaneously:	3.0A max (at 25°C) 2.2A max (at 85°C)
Working voltage:	800V DC or AC peak
Voltage proof:	1,200V DC or AC peak
Contact resistance:	25mΩ max
Insulation resistance:	100MΩ min

## Mechanical

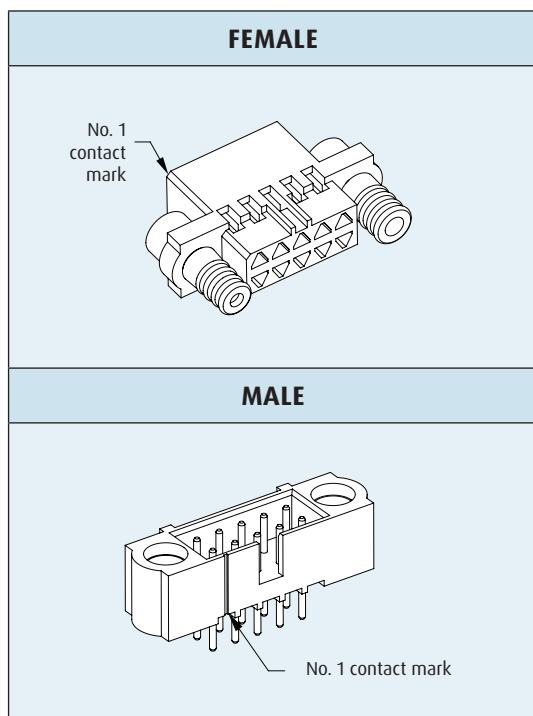
Durability:	50 operations
Insertion force (max):	2.8N per contact
Withdrawal force (min):	0.2N per contact

## Environmental

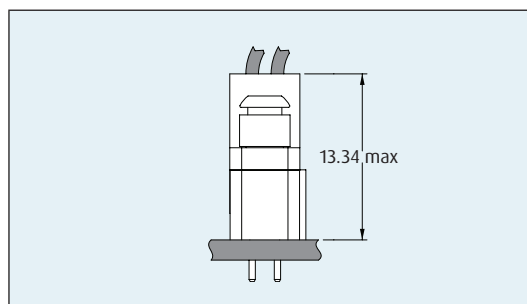
Environmental classification:	55/125/56 days at 95% RH
Operational temperature:	-55°C to +125°C
*Vibration sensitivity:	10Hz to 20000Hz, 0.75mm, 98m/s <sup>2</sup> (10G), duration 6 hours
*Bump severity:	390m/s <sup>2</sup> (40G), 4000 ±10 bumps
*Shock severity:	981m/s <sup>2</sup> (100G), for 6ms
*Acceleration severity:	490m/s <sup>2</sup> (50G)

\* Tested with fixing pins fully engaged

## Pin Numbering



## Mating Profile

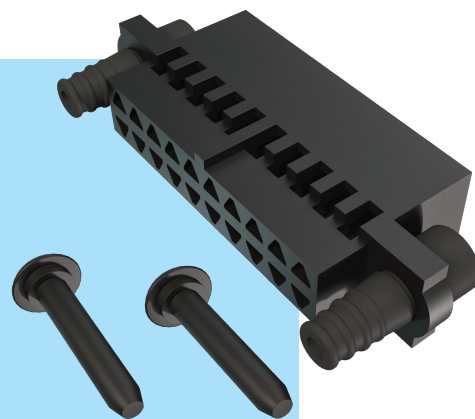


All dimensions in mm.

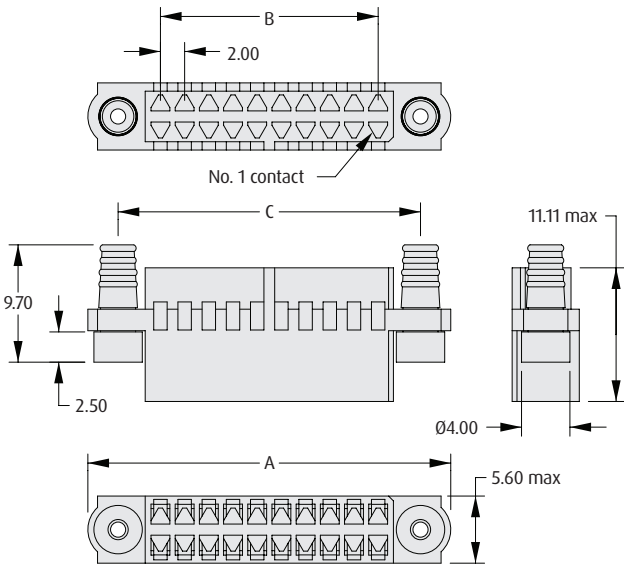


# M225 Connectors

## Female Crimp Housings

- Female crimp housing kits - contacts are ordered separately (shown on following page).
- Housings are supplied fitted with the rubber locking collars, and supplied with loose fixing pins. Collars and pins only needed to be ordered separately if spares are required.



M225 SERIES

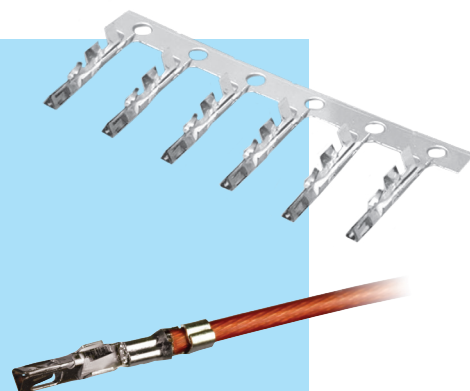
HOUSING	CALCULATION	SPARE RUBBER LOCKING COLLAR
 <p>■ Housing Kit includes 2 x Rubber Locking Collars (fitted) and 2 x Fixing Pins (loose).</p>	<b>A</b> B + 12	 <div>ORDER CODE M225-0500098</div>
	<b>B</b> Total no. of contacts - 2	
	<b>C</b> B + 7	
		SPARE FIXING PIN
		 <div>ORDER CODE M225-0600098</div>
HOW TO ORDER		
M225 - 455 XX 98		
SERIES CODE		NO. OF CONTACTS 10, 20, 26, 34, 50

All dimensions in mm.

# M225 Connectors

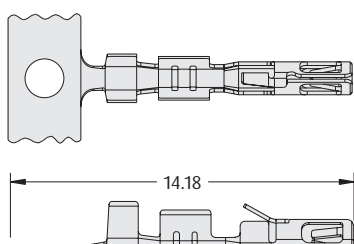
## Female Crimp Contacts

- ❖ Crimp contacts must be ordered separately, see previous pages for applicable housings.
- ❖ Crimp contacts are available loose, or in continuous reeled format for automated crimping.

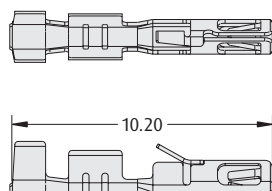


### CRIMP CONTACTS

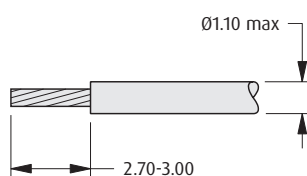
#### Reeled



#### Loose



### WIRE STRIPPING DETAIL



### HAND CRIMP TOOL



- ❖ Instruction sheet available at [www.harwin.com/instructions](http://www.harwin.com/instructions).

**ORDER CODE**  
Z80-255

### REMOVAL TOOL

- ❖ For removal of crimped contacts from housings.
- ❖ Instruction sheet available at [www.harwin.com/instructions](http://www.harwin.com/instructions).



**ORDER CODE**  
Z80-258

### HOW TO ORDER

**M225 - XXX 00 46**

#### SERIES CODE

#### TYPE

<b>253</b>	Female Crimp 22-24 AWG, Reeled
<b>254</b>	Female Crimp 26-28 AWG, Reeled
<b>283</b>	Female Crimp 22-24 AWG, Loose
<b>284</b>	Female Crimp 26-28 AWG, Loose

#### FINISH

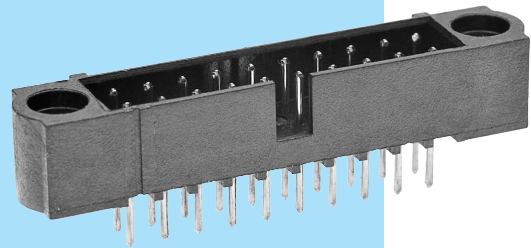
**46** Tin

All dimensions in mm.

# M225 Connectors

## Male Vertical Throughboard

- ❑ Polarized housings.
- ❑ Fully shrouded contacts.

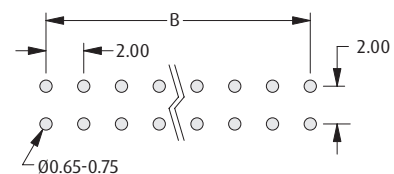
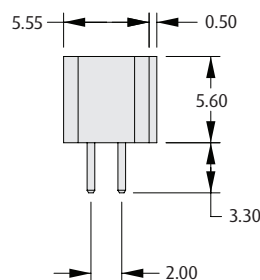
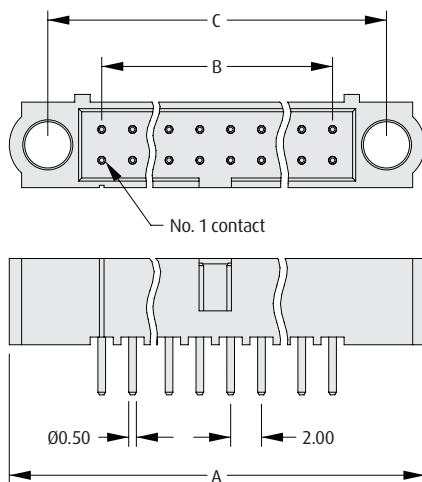


M225 SERIES

### MALE

### CALCULATION

<b>A</b>	$B + 12$
<b>B</b>	Total no. of contacts - 2
<b>C</b>	$B + 7$



Recommended PC Board Pattern

### HOW TO ORDER

**M225 - 520 XX 46**

SERIES CODE

FINISH

46 Tin

TOTAL NO. OF CONTACTS

10, 20, 26, 34, 50

All dimensions in mm.