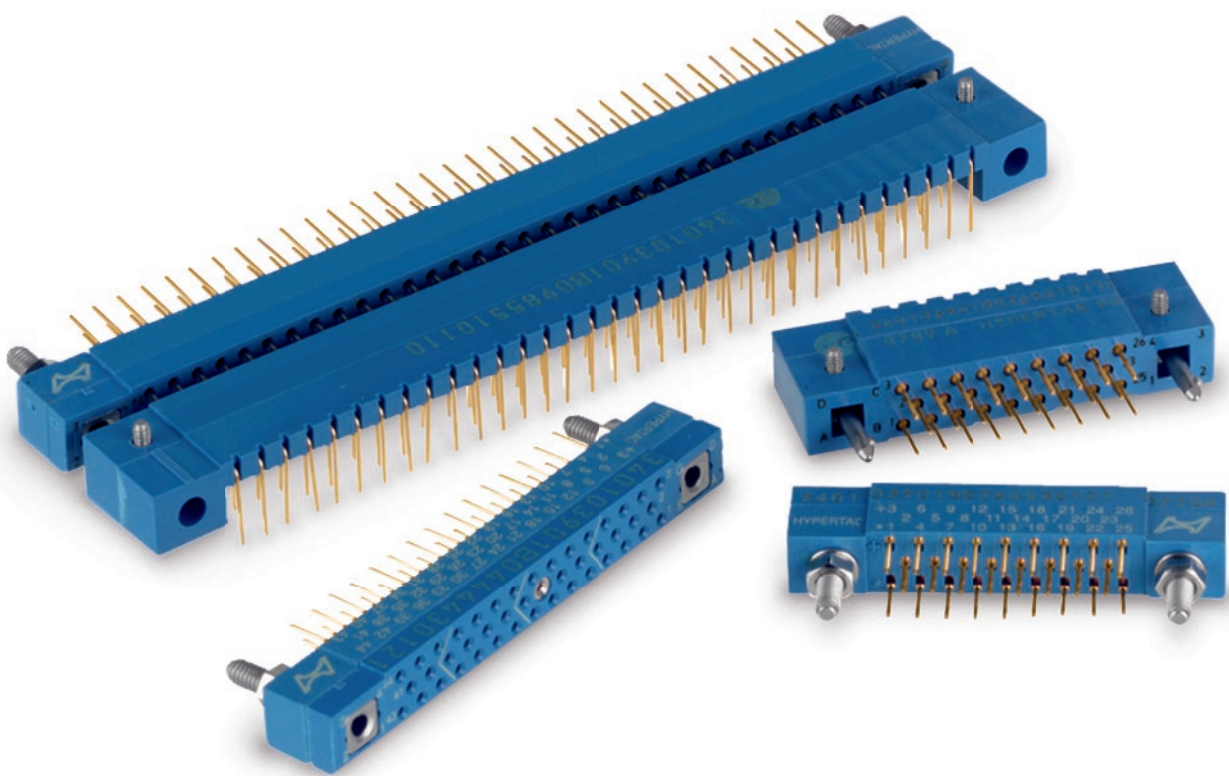


# KMC SERIES

*High Density PCB Connectors*



# TECHNICAL CHARACTERISTICS

|                   |                                                            |
|-------------------|------------------------------------------------------------|
| Contact diameter  | HYPERTAC® type Ø 0.50 mm rear removable                    |
| Number of contact | Up to 162                                                  |
| Pitch             | 1.905mm between rows<br>1.27mm between quicuncial contacts |
| Rows              | 3                                                          |

## MATERIALS & PLATINGS

|          |                                        |
|----------|----------------------------------------|
| Contact  | Brass or bronze                        |
| Moulding | Glass fiber filled diallyl - Phtalate  |
| Guides   | Stainless steel or nickel plated brass |

|              | Standard                                                                | ESA                             |
|--------------|-------------------------------------------------------------------------|---------------------------------|
| Pin body     | 0.25 µm Gold / 1.27 µm Ni                                               | 1.27 µm Gold / 1.27 µm Ni (min) |
| Socket body  | 0.25 µm Gold / 1.27 µm Ni on activ area<br>1.27 µm Ni on non activ area | 0.25 µm Gold / 1.27 µm Ni (min) |
| Socket wires | 1 µm Gold / 0.20 µm Ni                                                  | 1.27 µm Gold / 0.20 µm Ni (min) |

## ELECTRICAL

|                                 |                                |
|---------------------------------|--------------------------------|
| Current rating (at 25°C)        | 3 A max                        |
| Dielectric withstanding voltage | 800 Vrms                       |
| Contact resistance              | ≤ 8 mΩ                         |
| Insulation resistance           | > 10 <sup>4</sup> mΩ (500 Vcc) |

## MECHANICAL

|                         |                                                                                      |
|-------------------------|--------------------------------------------------------------------------------------|
| Mating & unmating cycle | 5000                                                                                 |
| Guiding                 | By two outside guides (2 guiding styles)<br>and one central guide (3 guiding styles) |
| Keying                  | By rotating of outside polarised guides (up to 16 keying)                            |

## ENVIRONMENTAL

|                   |                                      |
|-------------------|--------------------------------------|
| Temperature range | -55° C + 125° C                      |
| Conformity        | ESA/ESCC 3401/039, NF C-UTE C 93-424 |

Dimension are in mm

## HOW TO ORDER

## HYPERTAC &amp; ESA CORRESPONDANCE TABLE

ESA 3401/039 01B

KMC

1

2

3

4

5

## 1 ▸ SERIES

## 2 ▸ NUMBER OF CONTACTS

0 2 6 0 4 4 0 6 2 0 8 0 0 9 8 1 4 4 1 6 2

## 3 ▸ MOULDING POLARITY

NF C-UTE C 93-424

ESA/ESCC 3401/03901B

SPACE GRADE

|    |    |    |                     |    |    |    |                      |    |   |    |                            |
|----|----|----|---------------------|----|----|----|----------------------|----|---|----|----------------------------|
| 12 | -  | 54 | Female plug         | 1A | -  | -  | Tinned female plug** | 26 | - | 46 | Tinned female receptacle*  |
| 13 | 55 | 55 | Male plug           | 1B | -  | -  | Tinned male plug**   | 27 | - | 47 | Tinned male receptacle*    |
| 16 | -  | 56 | Tinned female plug* | 22 | 44 | 44 | Female receptacle    | 2A | - | -  | Tinned female receptacle** |
| 17 | -  | 57 | Tinned male plug*   | 23 | -  | 45 | Male receptacle      | 2B | - | -  | Tinned male receptacle**   |

## 4 ▸ TERMINATION STYLES

|     |                                  |     |                                                 |     |                               |
|-----|----------------------------------|-----|-------------------------------------------------|-----|-------------------------------|
| 1 0 | 90° length 3 mm ("A" moulding)   | 3 0 | Through board solder - straight - length 4.5 mm | 5 1 | Wire wrap (3 wrapping levels) |
| 1 0 | 90° length 3 mm ("B" moulding)   | 3 1 | Through board solder - straight - length 5.6 mm | 9 0 | Male - male                   |
| 1 1 | 90° length 4 mm ("A" moulding)   | 4 0 | Solder bucket                                   | 9 1 | Female - male                 |
| 1 3 | 90° length 5.5 mm ("B" moulding) | 5 0 | Wire wrap (2 wrapping levels)                   |     |                               |

## 5 ▸ MOUNTING HARDWARE

GUIDE STYLES (consult us for special guides)

|     |                                                   |     |                                                     |     |                                                             |
|-----|---------------------------------------------------|-----|-----------------------------------------------------|-----|-------------------------------------------------------------|
| 110 | Male polarised, transverse mount <sup>(1)</sup>   | 127 | Male unpolarised, vertical mount <sup>(2)</sup>     | 156 | Male unpolarised, transverse mount <sup>(2)</sup>           |
| 111 | Male polarised, vertical mount <sup>(2)</sup>     | 128 | Male unpolarised, float mount <sup>(2)</sup>        | 173 | Female unpolarised, transverse mount <sup>(1)</sup>         |
| 112 | Male polarised, vertical mount <sup>(2)</sup>     | 130 | Female unpolarised, vertical mount <sup>(2)</sup>   | 174 | Female polarised, transverse mount <sup>(1)</sup>           |
| 113 | Male polarised, float mount <sup>(2)</sup>        | 133 | Female unpolarised, transverse mount <sup>(2)</sup> | 190 | Female power or mass contact, vertical mount <sup>(2)</sup> |
| 121 | Female polarised, vertical mount <sup>(2)</sup>   | 143 | Female polarised, vertical mount <sup>(2)</sup>     | 191 | Male power or mass contact, transverse mount <sup>(1)</sup> |
| 123 | Female polarised, float mount <sup>(2)</sup>      | 153 | Female unpolarised, transverse mount <sup>(2)</sup> | 703 | Female - male unpolarised guide <sup>(2)</sup>              |
| 124 | Female polarised, transverse mount <sup>(2)</sup> | 154 | Female polarised, transverse mount <sup>(2)</sup>   |     |                                                             |
| 125 | Male unpolarised, transverse mount <sup>(1)</sup> | 155 | Male unpolarised, transverse mount <sup>(2)</sup>   |     |                                                             |

## LOCKING STYLES

| FEMALE |                                            | MALE |                                            |
|--------|--------------------------------------------|------|--------------------------------------------|
| 202    | Jackscrew, vertical mount <sup>(2)</sup>   | 201  | Jackscrew, free connector <sup>(2)</sup>   |
| 203    | Jackscrew, transverse mount <sup>(1)</sup> | 205  | Jackscrew, transverse mount <sup>(1)</sup> |
| 204    | Jackscrew, transverse mount <sup>(2)</sup> | 206  | Jackscrew, free connector <sup>(2)</sup>   |
| 207    | Jackscrew, vertical mount <sup>(2)</sup>   |      |                                            |

<sup>(1)</sup> Moulding A - <sup>(2)</sup> Moulding B

\* For 90° &amp; straight terminations (splicing on PCB)

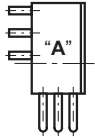
\*\* RoHS conform for 90° &amp; straight terminations (splicing on PCB)

## ► MOULDING STYLES

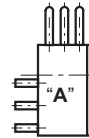
## PLUG

## RECEPTACLE

## ONE PART (moulding A)

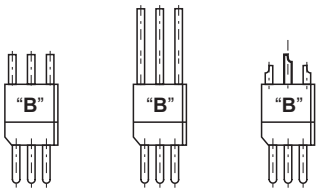


- Fitted with male contacts**
- 90° through board solder

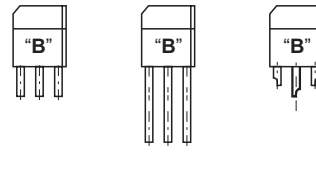


- Fitted with male contacts**
- 90° through board solder  
(same design as the "A" plug type but printed as receptacle)

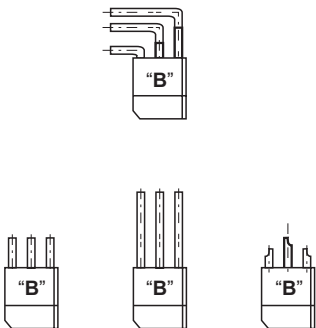
## TWO PARTS (moulding B)



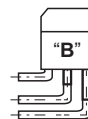
- Fitted with male contacts (pins)**
- Straight through board solder
  - Wire wrap type  
(2 and 3 wrapping levels)
  - Solder bucket



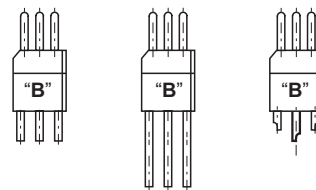
- Fitted with female contacts**
- Straight through board solder
  - Wire wrap type  
(2 and 3 wrapping levels)
  - Solder bucket  
(same design as the "B" plug type but printed as receptacle)



- Fitted with female contacts (sockets)**
- 90° through board solder  
*Note: the spacing of the rows for board preparation is different to the spacing of the plug fitted with the 90° termination*
  - Straight through board solder
  - Wire wrap type  
(2 and 3 wrapping levels)
  - Solder bucket



- Fitted with female contacts (sockets)**
- 90° through board solder  
*Note: the spacing of the rows for board preparation is different to the spacing of the plug fitted with the 90° termination*



- Fitted with male contacts (pins)**
- Straight through board solder
  - Wire wrap type  
(2 and 3 wrapping levels)
  - Solder bucket  
(same design as the "B" plug type but printed as receptacle)

## ► CONTACT TERMINATIONS

## PLUG

## RECEPTACLE

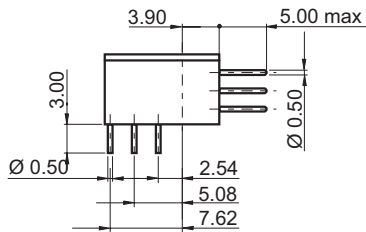
## MALE

## FEMALE

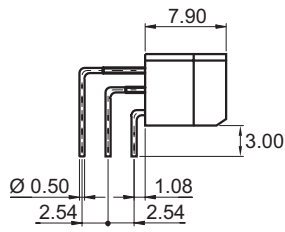
## FEMALE

## MALE

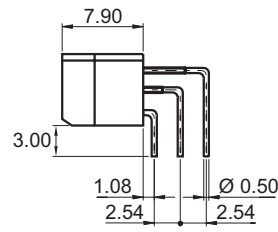
## 90° THROUGH BOARD SOLDER

Ref: **10** Ref: **10** (only A Moulding)

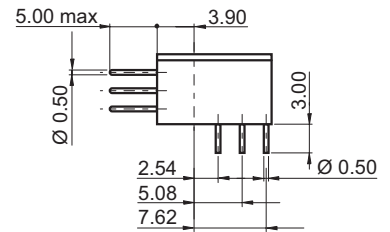
Moulding "A"



Moulding "B"

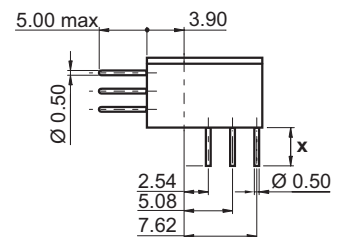
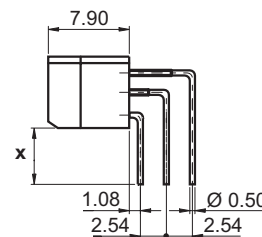
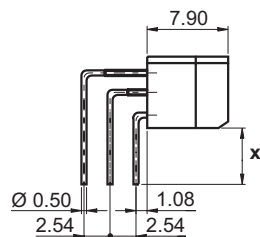
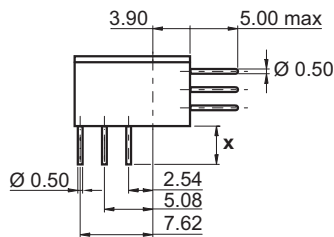


Moulding "B"

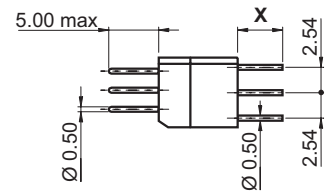
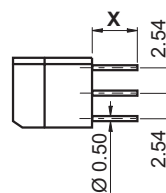
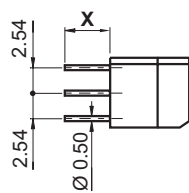
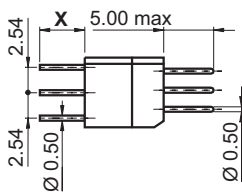


Moulding "A"

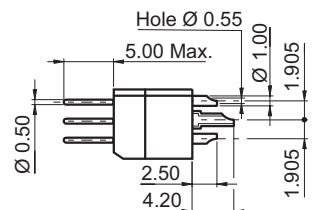
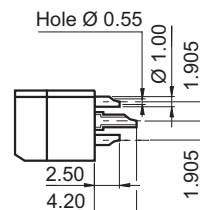
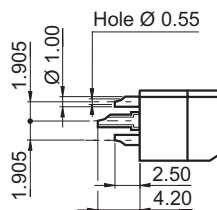
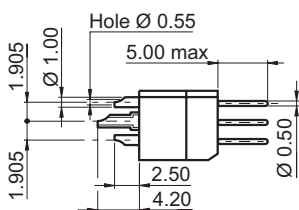
## 90° THROUGH BOARD SOLDER

Moulding A Ref: **11** (X=4.00) Moulding B Ref: **13** (X=5.50)

## STRAIGHT THROUGH BOARD SOLDER

Ref: **30** (X=4.50) Ref: **30** Ref: **31** (X=5.60) Ref: **31**

## SOLDER BUCKET (AWG 26 max)

Ref: **40** Ref: **40**

Note: moulding A and B need different preparation board details for 90° tail termination.

## ► CONTACT TERMINATIONS

## PLUG

## RECEPTACLE

MALE

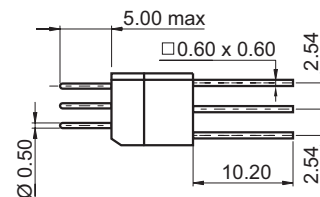
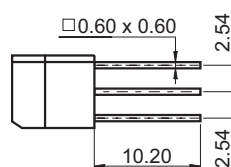
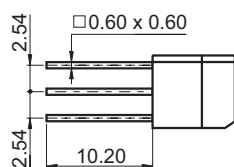
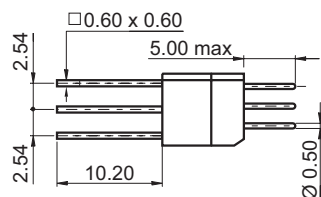
FEMALE

FEMALE

MALE

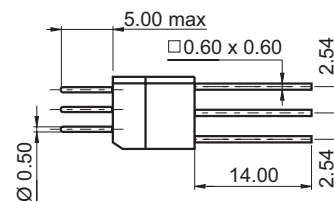
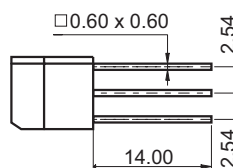
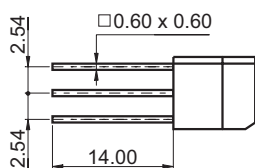
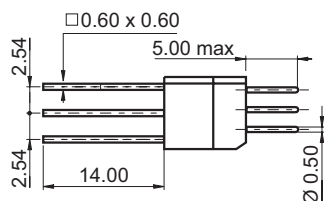
## WIRE WRAP (2 wrapping levels)

Ref: 50 Ref: 50



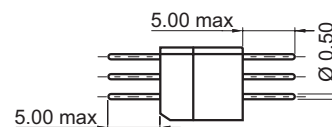
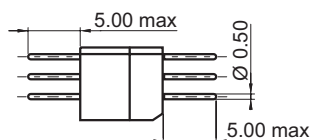
## WIRE WRAP (3 wrapping levels)

Ref: 51 Ref: 51



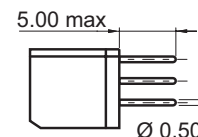
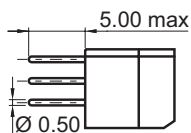
## SAVER (Male-Male)

Ref: 90



## SAVER (Female-Male)

Ref: 91 Ref: 91



**Note:** moulding A and B need different preparation board details for 90° tail termination.

## ► DIMENSIONS

## 26 TO 98 CONTACTS

## 144 TO 162 CONTACTS

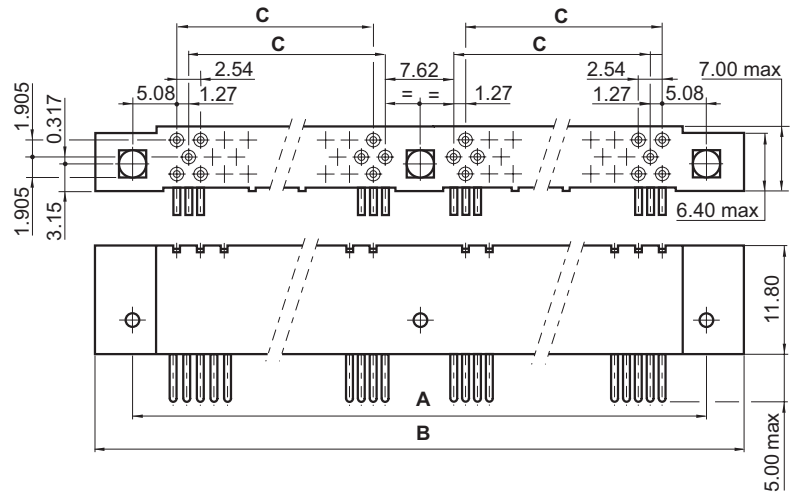
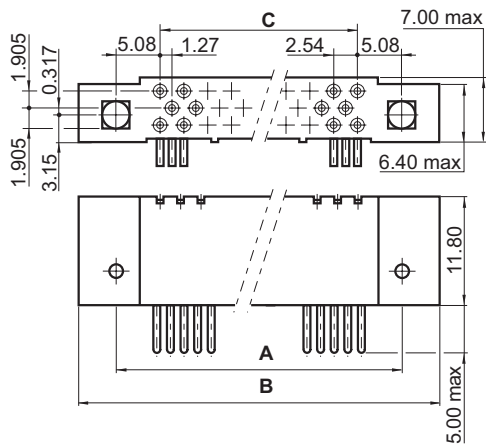
## ONE PART (moulding A)

90° male plug

KMC ... 13 10 ...

90° male receptacle

KMC ... 23 10 ...



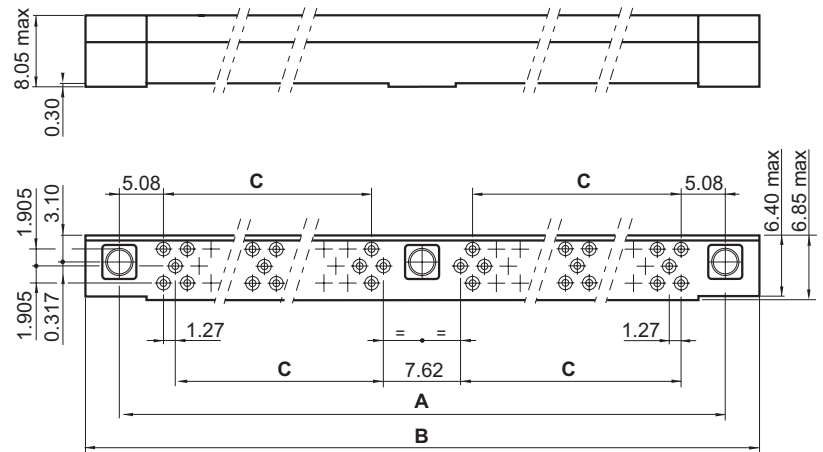
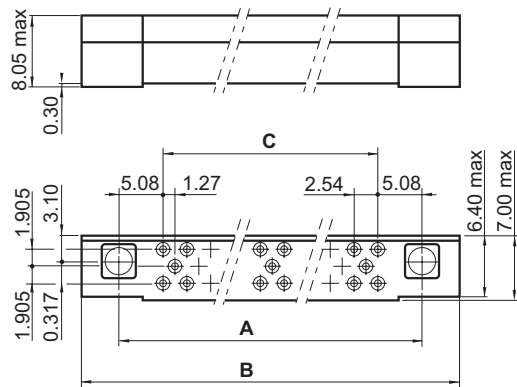
## TWO PARTS (moulding B)

Female or male receptacle

KMC ... 2 ...

Female or male plug

KMC ... 1 ...

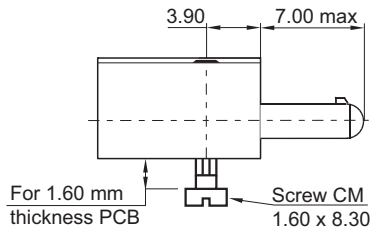
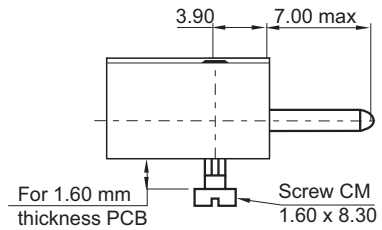
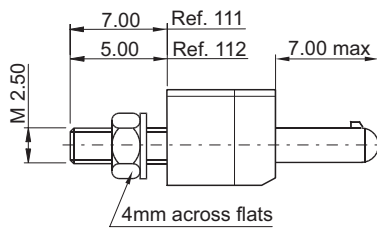
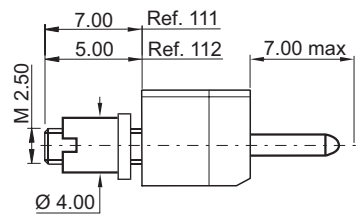
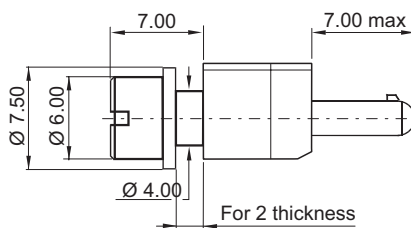
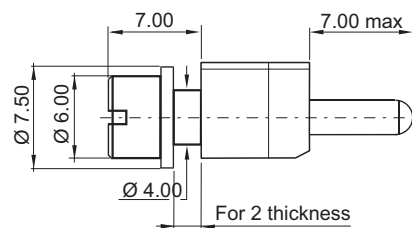
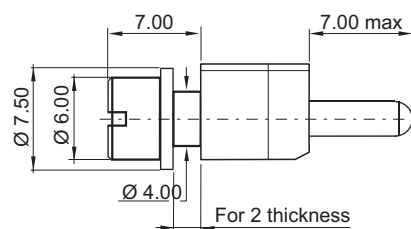


| No. of contacts | 26    | 44    | 62    | 80    | 98    | 144    | 162    |
|-----------------|-------|-------|-------|-------|-------|--------|--------|
| A               | 30.48 | 45.72 | 60.96 | 76.20 | 91.44 | 137.16 | 152.40 |
| B max           | 38.50 | 53.70 | 69.00 | 84.20 | 99.50 | 145.20 | 160.40 |
| C               | 20.32 | 35.56 | 50.80 | 66.04 | 81.28 | 58.42  | 66.04  |

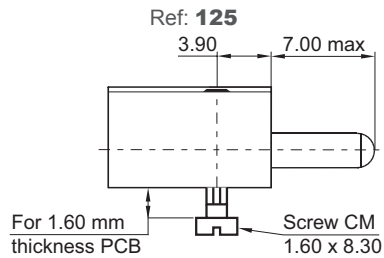
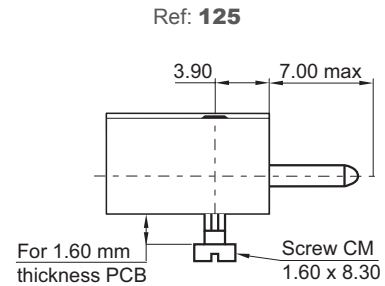
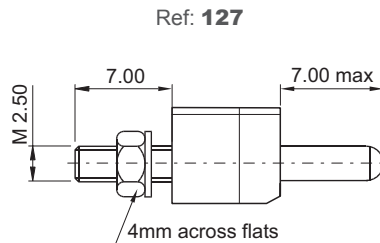
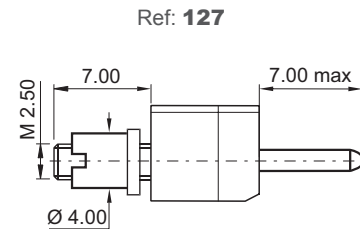
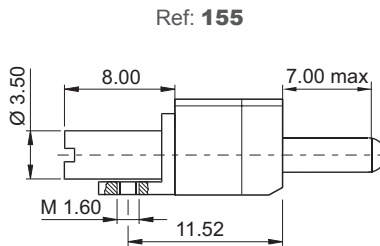
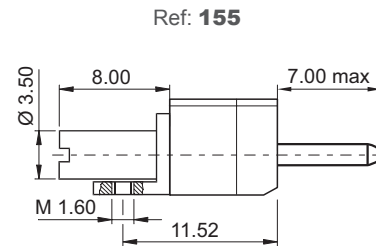
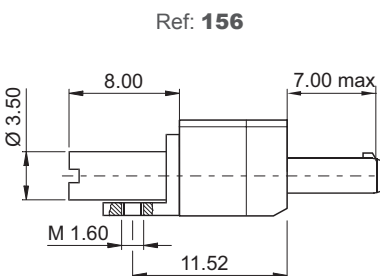
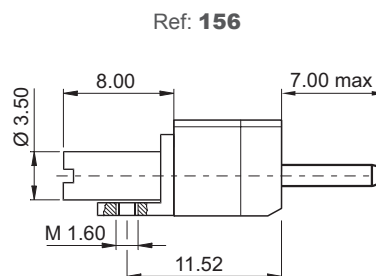


[illegible]

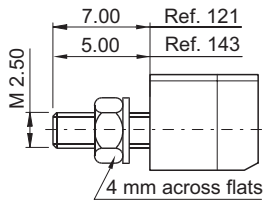
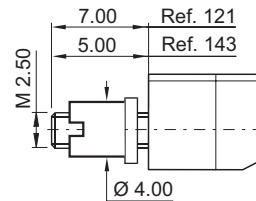
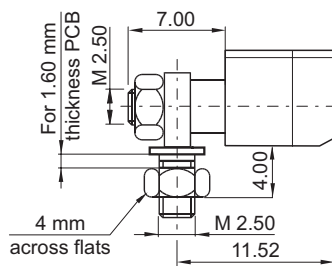
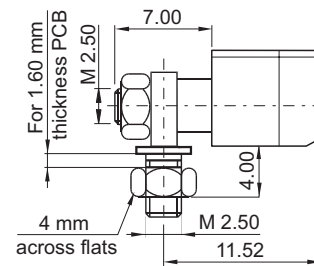
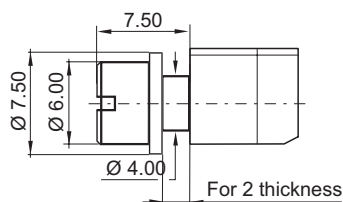
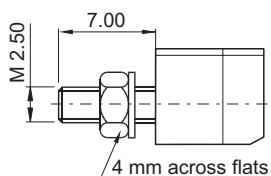
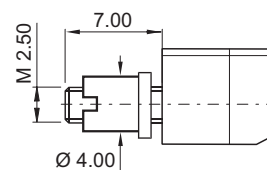
## ► MALE GUIDE STYLES

**POLARISED TRANSVERSE MOUNT  
(moulding A)**Ref: **110** Ref:  **110****UNPOLARISED TRANSVERSE MOUNT (moulding A)  
CENTRAL GUIDE (KMC 144-162)****POLARISED VERTICAL MOUNT  
(moulding B)**Ref: **111** Ref: **112****UNPOLARISED VERTICAL MOUNT (moulding B)  
CENTRAL GUIDE (KMC 144-162)****POLARISED VERTICAL FLOAT MOUNT  
(moulding B)**Ref: **113****UNPOLARISED VERTICAL FLOAT MOUNT  
(moulding B)  
CENTRAL GUIDE (KMC 144-162)****POLARISED VERTICAL FLOAT MOUNT  
(moulding B)**Ref: **128**

## ► MALE GUIDE STYLES

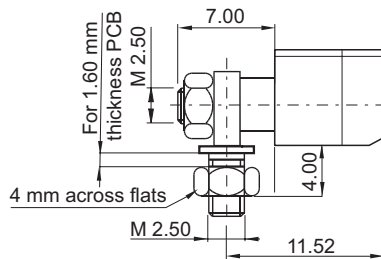
UNPOLARISED TRANSVERSE MOUNT  
(moulding A)UNPOLARISED TRANSVERSE MOUNT (moulding A)  
CENTRAL GUIDE (KMC 144-162)UNPOLARISED VERTICAL MOUNT  
(moulding B)UNPOLARISED VERTICAL MOUNT (moulding B)  
CENTRAL GUIDE (KMC 144-162)UNPOLARISED TRANSVERSE MOUNT  
(moulding B)UNPOLARISED TRANSVERSE MOUNT (moulding B)  
CENTRAL GUIDE (KMC 144-162)POLARISED TRANSVERSE MOUNT  
(moulding B)UNPOLARISED TRANSVERSE MOUNT (Moulding B)  
CENTRAL GUIDE (KMC 144-162)

## ► FEMALE GUIDE STYLES

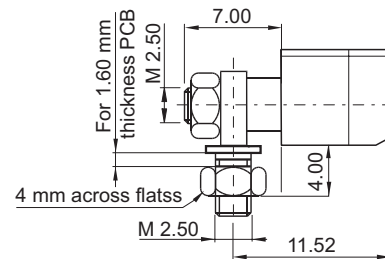
**POLARISED VERTICAL MOUNT  
(moulding B)**Ref:  **121** Ref: **143** Ref:  **143****UNPOLARISED VERTICAL MOUNT (moulding B)  
CENTRAL GUIDE (KMC 144-162)****POLARISED TRANSVERSE MOUNT  
(moulding B)**Ref: **124****UNPOLARISED TRANSVERSE MOUNT (moulding B)  
CENTRAL GUIDE (KMC 144-162)****POLARISED VERTICAL FLOAT MOUNT  
(moulding B)**Ref: **123****ALL KEYING TYPES  
(moulding B)**Ref: **130****ALL KEYING TYPES (moulding B)  
CENTRAL GUIDE (KMC 144-162)**

## ► FEMALE GUIDE STYLES

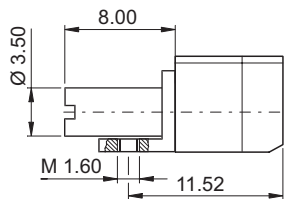
### ALL KEYING TYPES (moulding B)

Ref: **133**

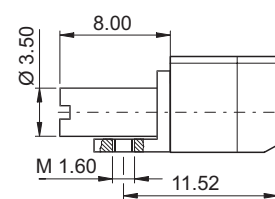
### ALL KEYING TYPES (moulding B) CENTRAL GUIDE (KMC 144-162)



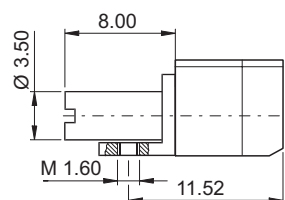
### ALL KEYING TYPES (moulding B)

Ref: **153**

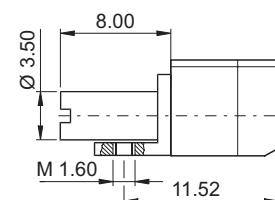
### ALL KEYING TYPES (moulding B) CENTRAL GUIDE (KMC 144-162)



### POLARISED TRANSVERSE MOUNT (moulding B)

Ref: **154**

### UNPOLARISED TRANSVERSE MOUNT (moulding B) CENTRAL GUIDE (KMC 144-162)

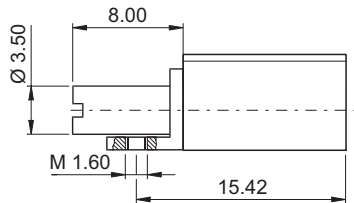


► GUIDE STYLES

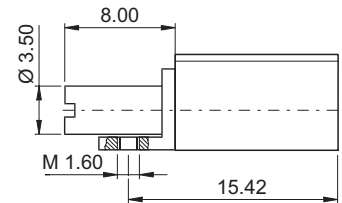
FEMALE

UNPOLARISED TRANSVERSE MOUNT  
(moulding A)

Ref: 173

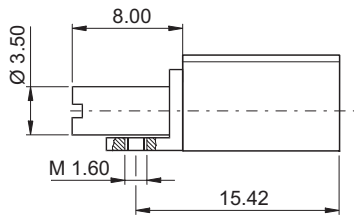


UNPOLARISED TRANSVERSE MOUNT (moulding A)  
CENTRAL GUIDE (KMC 144-162)

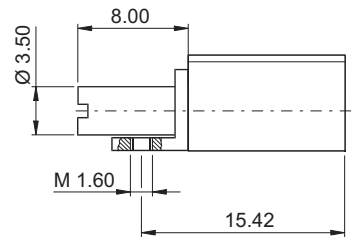


POLARISED TRANSVERSE MOUNT  
(moulding A)

Ref: 174



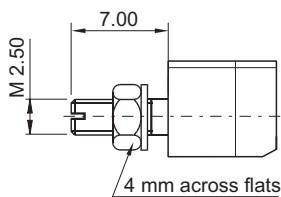
UNPOLARISED TRANSVERSE MOUNT (moulding A)  
CENTRAL GUIDE (KMC 144-162)



FEMALE

MASS AND POWER CONTACT  
(moulding B)

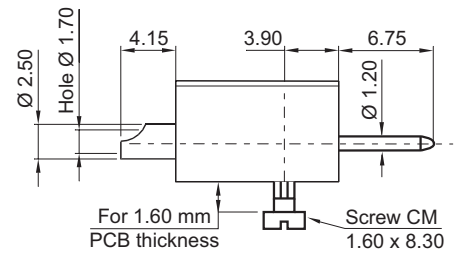
Ref: 190



MALE

MASS AND POWER CONTACT  
(moulding A)

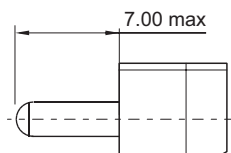
Ref: 191



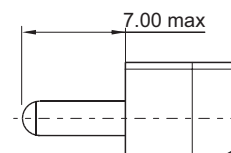
FEMALE - MALE

UNPOLARISED TRANSVERSE MOUNT  
(moulding B)

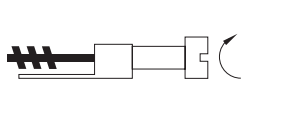
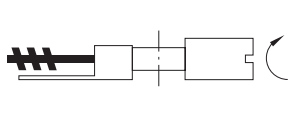
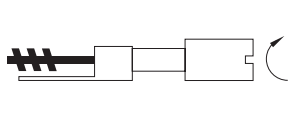
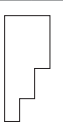
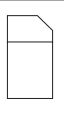
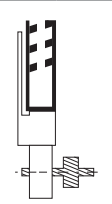
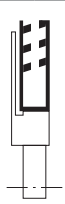
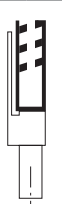
Ref: 703 Ref: 703



UNPOLARISED TRANSVERSE MOUNT (moulding B)  
CENTRAL GUIDE (KMC 144-162)



## ► LOCKING DEVICE COMPATIBILITY CHART

|                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |     |          |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-----|----------|
|                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |  | A   | Moulding |
|                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |  | B   |          |
|                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |  | 206 |          |
|                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |  | 205 |          |
|                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |  | 201 |          |
|  |  |  |  |  | Male locking devices                                                               |     |          |
| A                                                                                  | B                                                                                  | 204                                                                                | 203                                                                                | 202/207                                                                            | Female locking devices                                                             |     |          |
| Moulding                                                                           |                                                                                    |                                                                                    |                                                                                    |                                                                                    |                                                                                    |     |          |

Compatible

 Compatible

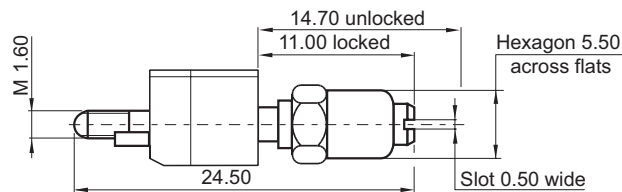
NOTE: the connector must be fitted with its locking devices before soldering on the PCB (straight through board solder):

- Connector on PCB: impossibility to change the keying.
  - If you need to change the keying:
    - pierce PCB through Ø 3.70, fixing devices
    - use 054826.000R shouldered washer
- } (for 202 and 207)

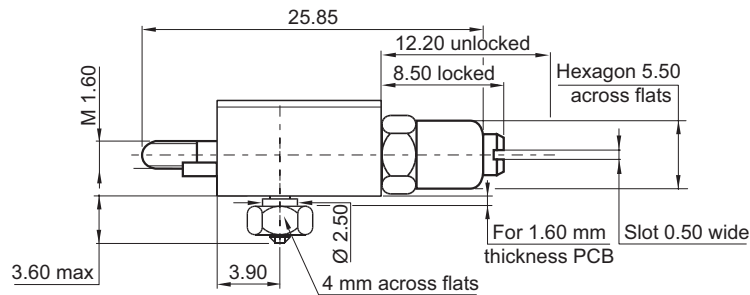
## ► LOCKING STYLES

## MALE

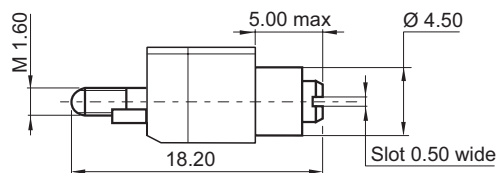
## JACKSCREW, FREE CONNECTOR (moulding B)

Ref: **201** Ref:  **201**For **KMC 144-162** the supplied central guide is Ref: **111**

## JACKSCREW, TRANSVERSE MOUNT (moulding A)

Ref: **205**For **KMC 144-162** the supplied central guide is Ref: **110**

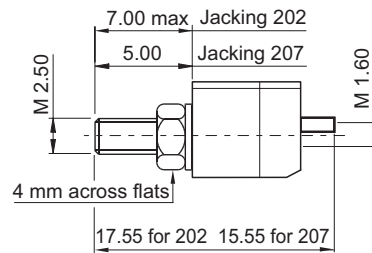
## JACKSCREW, FREE CONNECTOR (moulding B)

Ref: **206** Ref:  **206**For **KMC 144-162** the supplied central guide is Ref: **112**

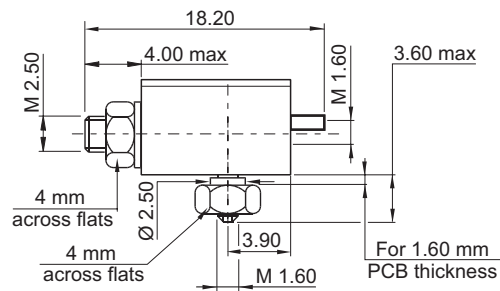
## ► LOCKING STYLES

## FEMALE

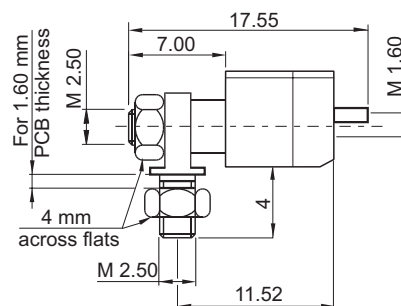
## NON ROTATING JACKSCREW, VERTICAL MOUNT (moulding B)

Ref: **202** Ref:  **202**For **KMC 144-162** jackscrew 202 the supplied central guide is Ref: **121**Ref: **207**jackscrew 207 the supplied central guide is Ref: **143**

## NON ROTATING JACKSCREW, TRANSVERSE MOUNT (moulding A)

Ref: **203**For **KMC 144-162** jackscrew 202 the supplied central guide is Ref: **173**

## NON ROTATING JACKSCREW, TRANSVERSE MOUNT (moulding B)

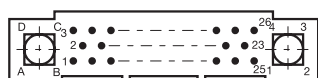
Ref: **204** Ref:  **204**For **KMC 144-162** the supplied central guide is Ref: **111**

► MATING SIDE LAYOUT VIEW

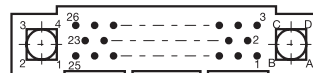
MOULDING A

PLUG

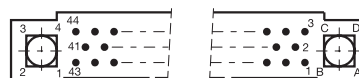
RECEPTACLE



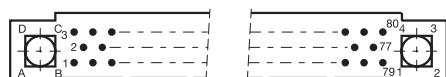
026



044



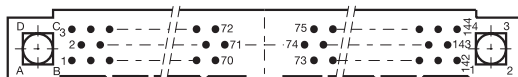
062



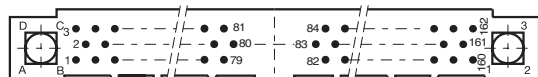
080



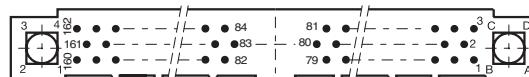
098



144



162



► MATING SIDE LAYOUT VIEW

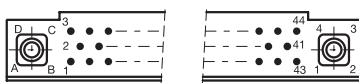
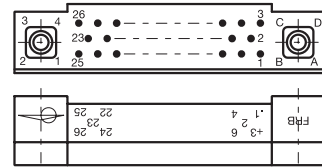
MOULDING B

PLUG

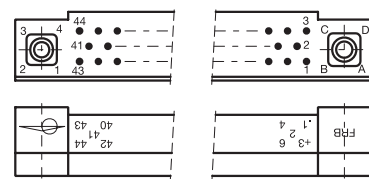
RECEPTACLE



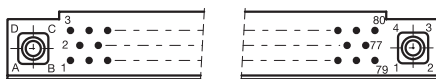
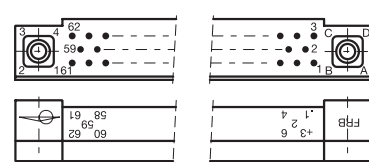
026



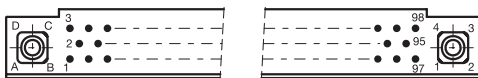
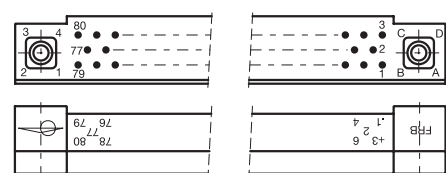
044



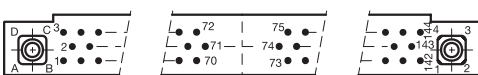
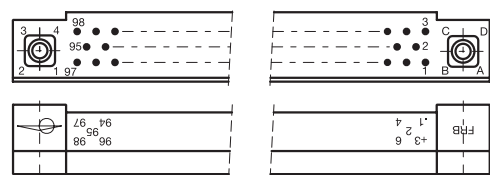
062



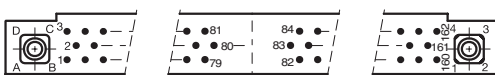
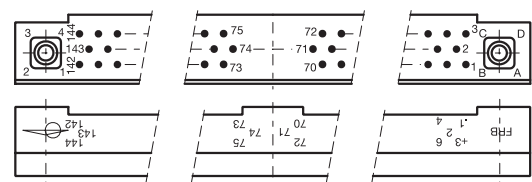
080



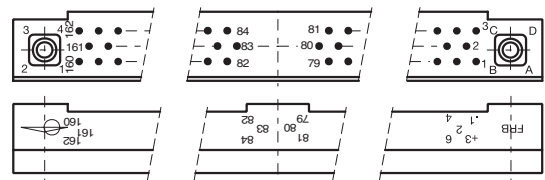
098



144



162





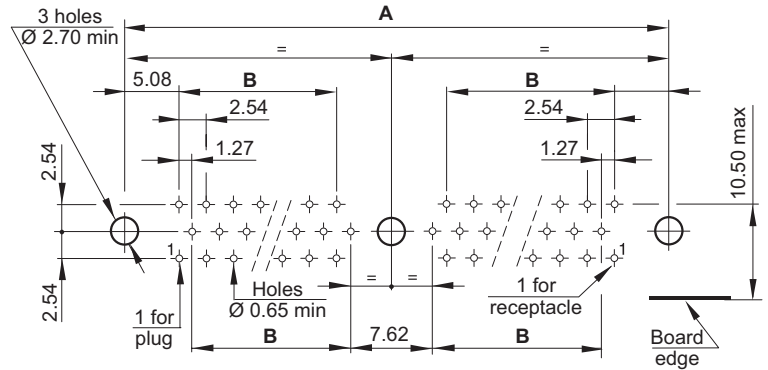
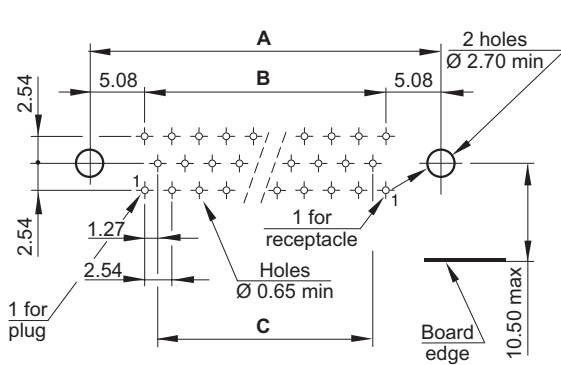
## ► BOARD PREPARATION DETAILS

## TWO PARTS (moulding B)

## 26 TO 98 CONTACTS

## 144 TO 162 CONTACTS

## DAUGHTER BOARD



Female or male, plug or receptacle, 90° termination  
Guide styles: 124 - 133

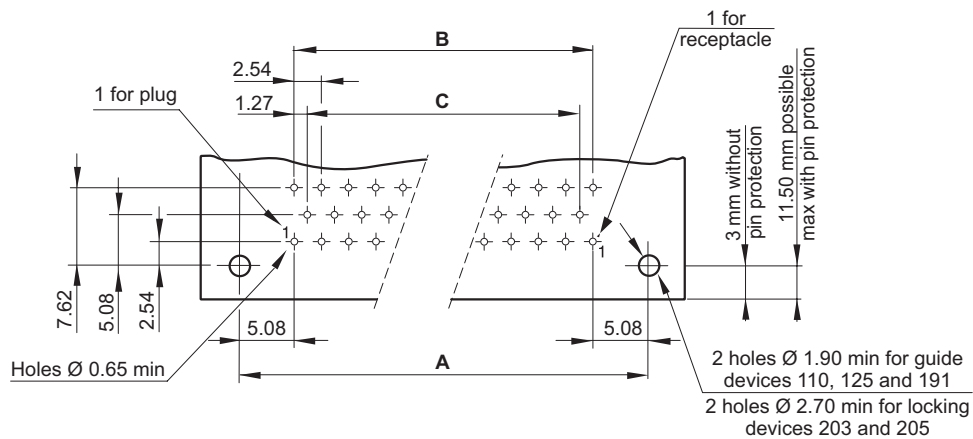
| No. of contacts | 26    | 44    | 62    | 80    | 98    | 144    | 162    |
|-----------------|-------|-------|-------|-------|-------|--------|--------|
| A               | 30.48 | 45.72 | 60.96 | 76.20 | 91.44 | 137.16 | 152.40 |
| B               | 20.32 | 35.56 | 50.80 | 66.04 | 81.28 | 58.42  | 66.04  |
| C               | 17.78 | 33.02 | 48.26 | 63.50 | 78.74 | —      | —      |

## ► BOARD PREPARATION DETAILS

## ONE PART (moulding A)

## DAUGHTER BOARD

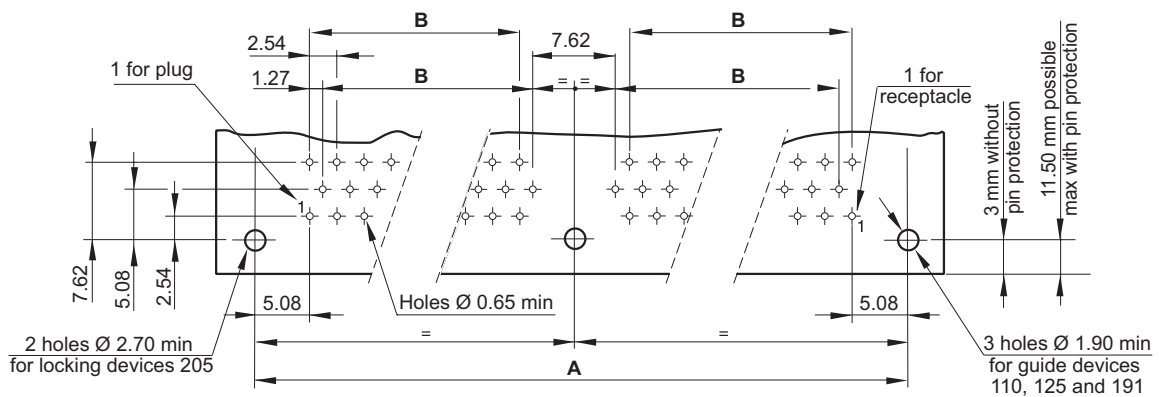
## 26 TO 98 CONTACTS



Male, plug or receptacle, 90° termination

Guide styles: 110 - 125 - 191 - 203 - 205

## 144 TO 162 CONTACTS



Male, plug or receptacle, 90° termination

Guide styles: 110 - 125 - 191 - 205

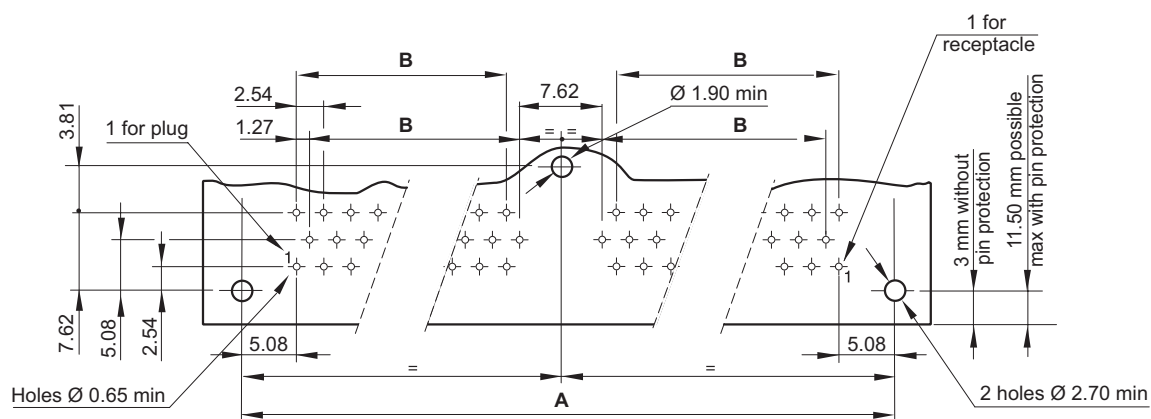
| No. of contacts | 26    | 44    | 62    | 80    | 98    | 144    | 162    |
|-----------------|-------|-------|-------|-------|-------|--------|--------|
| A               | 30.48 | 45.72 | 60.96 | 76.20 | 91.44 | 137.16 | 152.40 |
| B               | 20.32 | 35.56 | 50.80 | 66.04 | 81.28 | 58.42  | 66.04  |
| C               | 17.78 | 33.02 | 48.26 | 63.50 | 78.74 | —      | —      |

## ▶ BOARD PREPARATION DETAILS

### ONE PART (moulding A)

## DAUGHTER BOARD

## 144 TO 162 CONTACTS



**Male, plug or receptacle, 90° termination**  
**Locking styles: 203**

| No. of contacts | 26    | 44    | 62    | 80    | 98    | 144    | 162    |
|-----------------|-------|-------|-------|-------|-------|--------|--------|
| A               | 30.48 | 45.72 | 60.96 | 76.20 | 91.44 | 137.16 | 152.40 |
| B               | 20.32 | 35.56 | 50.80 | 66.04 | 81.28 | 58.42  | 66.04  |
| C               | 17.78 | 33.02 | 48.26 | 63.50 | 78.74 | —      | —      |

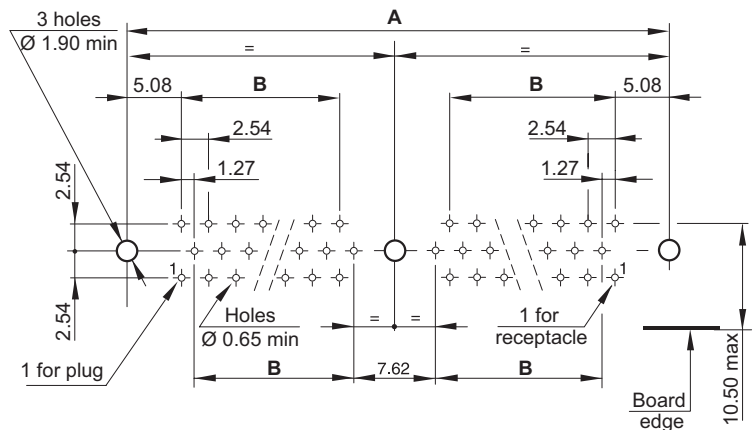
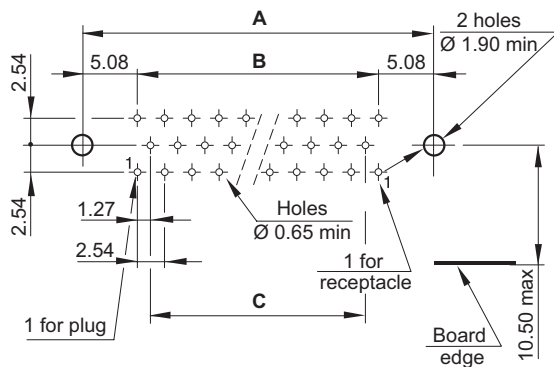
## ► PANEL PREPARATION DETAILS

## TWO PARTS (moulding B)

## 26 TO 98 CONTACTS

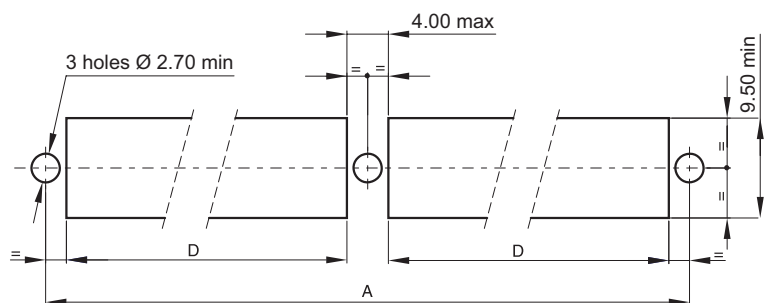
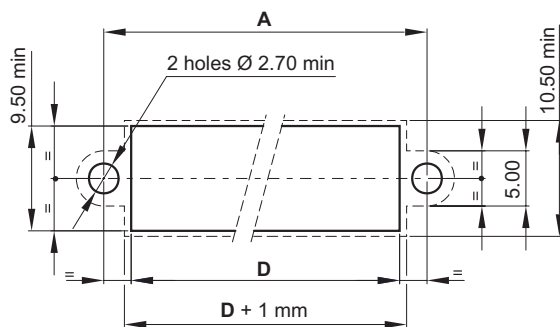
## 144 TO 162 CONTACTS

## MOTHER BOARD



Plug or receptacle, 90° termination  
Guide styles: 153 - 154 - 155 - 156

## DAUGHTER BOARD



— Fixed mount    --- Float mount (2 mm thickness)

Female or male, plug or receptacle, 90° termination 40 - 50 - 51  
Guide styles: 111 - 112 - 121 - 127 - 130 - 143 - 190 - (Fixed Mount)  
Guide styles: 113 - 123 - 128 - (Float Mount)  
Locking Styles: 202 - 207

| No. of contacts | 26    | 44    | 62    | 80    | 98    | 144    | 162    |
|-----------------|-------|-------|-------|-------|-------|--------|--------|
| A               | 30.48 | 45.72 | 60.96 | 76.20 | 91.44 | 137.16 | 152.40 |
| B               | 20.32 | 35.56 | 50.80 | 66.04 | 81.28 | 58.42  | 66.04  |
| C               | 17.78 | 33.02 | 48.26 | 63.50 | 78.74 | —      | —      |
| D               | 25.90 | 41.20 | 56.40 | 71.60 | 86.90 | 63.60  | 71.60  |

**Disclaimer 2014**

All of the information included in this catalogue is believed to be accurate at the time of printing. It is recommended, however, that users should independently evaluate the suitability of each product for their intended application and be sure that each product is properly installed, used and maintained to achieve desired results.

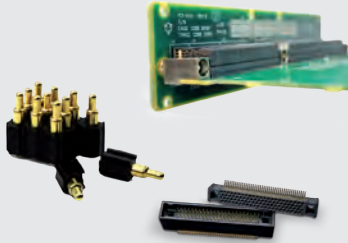
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# SMITHS CONNECTORS PRODUCT LINES

## PCB



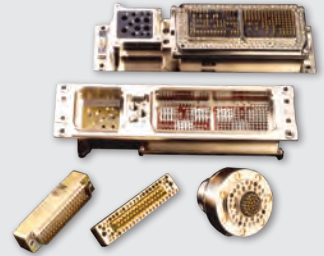
- ▶ Low, medium and high density board-to-board, cable to board and stacking
- ▶ Rugged standard
- ▶ Low profile
- ▶ Signal, power, coaxial & high speed configurations
- ▶ Spring probe connectors
- ▶ Mixed signal, power and coaxial contact connectors

## POWER



- ▶ Circular
- ▶ Configurable rectangular
- ▶ Ruggedized
- ▶ Single and Multi-Way Connectors
- ▶ Power contact up to 1,200 Amps
- ▶ Excellent performance in harsh environment conditions
- ▶ Cable assembling

## EMI/EMP FILTER



- ▶ EMI/RFI filtering and transient protection
- ▶ RoHS compliant solderless filter connectors available
- ▶ Circular, ARINC, D-Subminiature
- ▶ Filtered adapters for "bolt on" EMI solutions

## MODULAR/RECTANGULAR



- ▶ Configurable with modules for signal, power, coax, fiber optics and/or pneumatics
- ▶ Easy configuration in a single frame
- ▶ For rack & panel, and cable applications
- ▶ Guided hardware for blind
- ▶ D-sub connectors
- ▶ Micro-D style
- ▶ Signal connectors for hand held and docking stations

## CIRCULAR



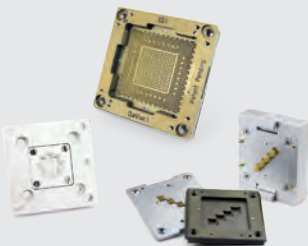
- ▶ Crimp and solder terminations
  - ▶ Various types of cable clamps
  - ▶ Stamped hyperboloid contact
- MEDICAL**
- ▶ Plastic & Metal
  - ▶ Push Pull/Push-button latch mechanism

## HEAVY DUTY



- ▶ Ultra reliable hyperboloid contact
- ▶ Modular solution: signal, power, data contacts, and fiber optics
- ▶ Up to o 250A, coax 50 ohms
- ▶ Rugged aluminum shell
- ▶ High resistance in harsh environment
- ▶ EMC shielding
- ▶ Easy cable mounting

## SPRING PROBES



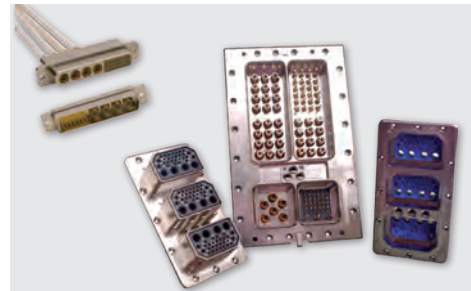
- ▶ Z-axis compliant
- ▶ Blind mate engagement
- ▶ Long cycle life
- ▶ High density
- ▶ Extreme miniaturization
- ▶ Printed circuit board test
- ▶ Bare board test
- ▶ Coaxial contacts

## MIL/AERO STANDARD



- ▶ MIL and ARINC standards
- ▶ Rectangular, Circular, D-Sub and Rack and Panel Connectors
- ▶ Filter, Fiber optic, high speed, RF, and spring probe connectors

## HIGH SPEED COPPER/FIBER



- ▶ Quadax and Twinax Connectors
- ▶ Rugged D-Sub Connectors
- ▶ ARINC and MIL-STD Contacts
- ▶ Micro Twinax/Quadax
- ▶ Butt-Joint and Expanded Beam Contacts
- ▶ ARINC 801 Termini
- ▶ Floating Fiber Termini



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