KMC SERIES

High Density PCB Connectors
## TECHNICAL CHARACTERISTICS

<table>
<thead>
<tr>
<th>Dimension</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact diameter</td>
<td>HYPERTAC® type Ø 0.50 mm rear removable</td>
</tr>
<tr>
<td>Number of contact</td>
<td>Up to 162</td>
</tr>
</tbody>
</table>
| Pitch | 1.905 mm between rows  
1.27 mm between quincuncial contacts |
| Rows | 3 |

### MATERIALS & PLATINGS

<table>
<thead>
<tr>
<th>Component</th>
<th>Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>Contact</td>
<td>Brass or bronze</td>
</tr>
<tr>
<td>Moulding</td>
<td>Glass fiber filled diallyl - Phtalate</td>
</tr>
<tr>
<td>Guides</td>
<td>Stainless steel or nickel plated brass</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Standard</th>
<th>ESA</th>
</tr>
</thead>
</table>
| 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  
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

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current rating (at 25°C)</td>
<td>3 A max</td>
</tr>
<tr>
<td>Dielectric withstanding voltage</td>
<td>800 Vrms</td>
</tr>
<tr>
<td>Contact resistance</td>
<td>≤ 8 mΩ</td>
</tr>
<tr>
<td>Insulation resistance</td>
<td>&gt; 10⁴ mΩ (500 Vcc)</td>
</tr>
</tbody>
</table>

### MECHANICAL

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mating &amp; unmating cycle</td>
<td>5000</td>
</tr>
<tr>
<td>Guiding</td>
<td>By two outside guides (2 guiding styles) and one central guide (3 guiding styles)</td>
</tr>
<tr>
<td>Keying</td>
<td>By rotating of outside polarised guides (up to 16 keying)</td>
</tr>
</tbody>
</table>

### ENVIRONMENTAL

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature range</td>
<td>-55° C + 125° C</td>
</tr>
<tr>
<td>Conformity</td>
<td>ESA/ESCC 3401/039, NF C-UTE C 93-424</td>
</tr>
</tbody>
</table>

---

Dimension are in mm
# HOW TO ORDER

## HYPERTAC & ESA CORRESPONDANCE TABLE

<table>
<thead>
<tr>
<th>ESA</th>
<th>3401/039 01B</th>
</tr>
</thead>
<tbody>
<tr>
<td>KMC</td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>2</td>
</tr>
<tr>
<td>3</td>
<td>4</td>
</tr>
<tr>
<td>5</td>
<td></td>
</tr>
</tbody>
</table>

## SERIES

1

## NUMBER OF CONTACTS

| 026 | 044 | 062 | 080 | 098 | 144 | 162 |

## MOULDING POLARITY

### NF C-UTE C 93-424

<table>
<thead>
<tr>
<th>12</th>
<th>54</th>
<th>Female plug</th>
<th>1A</th>
<th>-</th>
<th>-</th>
<th>26</th>
<th>46</th>
<th>Tinned female plug**</th>
</tr>
</thead>
<tbody>
<tr>
<td>13</td>
<td>55</td>
<td>Male plug</td>
<td>1B</td>
<td>-</td>
<td>-</td>
<td>27</td>
<td>47</td>
<td>Tinned male plug**</td>
</tr>
<tr>
<td>16</td>
<td>56</td>
<td>Tinned female plug*</td>
<td>22</td>
<td>44</td>
<td>44</td>
<td>Female receptacle</td>
<td>2A</td>
<td>-</td>
</tr>
<tr>
<td>17</td>
<td>57</td>
<td>Tinned male plug*</td>
<td>23</td>
<td>-</td>
<td>45</td>
<td>Male receptacle</td>
<td>2B</td>
<td>-</td>
</tr>
</tbody>
</table>

## TERMINATION STYLES

### 90° length 3 mm (“A” moulding)

<table>
<thead>
<tr>
<th>1</th>
<th>0</th>
<th>90° length 3 mm (“A” moulding)</th>
<th>3</th>
<th>0</th>
<th>Through board solder - straight - length 4.5 mm</th>
<th>5</th>
<th>1</th>
<th>Wire wrap (3 wrapping levels)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>90° length 3 mm (“B” moulding)</td>
<td>3</td>
<td>1</td>
<td>Through board solder - straight - length 5.6 mm</td>
<td>9</td>
<td>0</td>
<td>Male - male</td>
</tr>
<tr>
<td>1</td>
<td>0</td>
<td>90° length 4 mm (“A” moulding)</td>
<td>3</td>
<td>0</td>
<td>Solder bucket</td>
<td>9</td>
<td>1</td>
<td>Female - male</td>
</tr>
<tr>
<td>1</td>
<td>0</td>
<td>90° length 5.5 mm (“B” moulding)</td>
<td>5</td>
<td>0</td>
<td>Wire wrap (2 wrapping levels)</td>
<td></td>
<td></td>
<td></td>
</tr>
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</table>

## MOUNTING HARDWARE

### GUIDE STYLES (consult us for special guides)

<table>
<thead>
<tr>
<th>1</th>
<th>10</th>
<th>Male polarised, transverse mount (1)</th>
<th>1</th>
<th>27</th>
<th>Male unpolarised, vertical mount (2)</th>
<th>1</th>
<th>56</th>
<th>Male unpolarised, transverse mount (2)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>11</td>
<td>Male polarised, vertical mount (2)</td>
<td>1</td>
<td>28</td>
<td>Male unpolarised, float mount (2)</td>
<td>1</td>
<td>73</td>
<td>Female unpolarised, transverse mount (1)</td>
</tr>
<tr>
<td>1</td>
<td>12</td>
<td>Male polarised, vertical mount (2)</td>
<td>1</td>
<td>30</td>
<td>Female unpolarised, vertical mount (2)</td>
<td>1</td>
<td>74</td>
<td>Female polarised, transverse mount (1)</td>
</tr>
<tr>
<td>1</td>
<td>13</td>
<td>Male polarised, float mount (2)</td>
<td>1</td>
<td>33</td>
<td>Female unpolarised, transverse mount (2)</td>
<td>1</td>
<td>75</td>
<td>Female polarised, transverse mount (1)</td>
</tr>
<tr>
<td>1</td>
<td>121</td>
<td>Female polarised, vertical mount (2)</td>
<td>1</td>
<td>43</td>
<td>Female polarised, vertical mount (2)</td>
<td>1</td>
<td>703</td>
<td>Female - male unpolarised guide (2)</td>
</tr>
<tr>
<td>1</td>
<td>123</td>
<td>Female polarised, float mount (2)</td>
<td>1</td>
<td>53</td>
<td>Female polarised, transverse mount (2)</td>
<td>1</td>
<td>703</td>
<td>Female - male unpolarised guide (2)</td>
</tr>
<tr>
<td>1</td>
<td>124</td>
<td>Female polarised, transverse mount (2)</td>
<td>1</td>
<td>54</td>
<td>Female polarised, transverse mount (2)</td>
<td>1</td>
<td>703</td>
<td>Female - male unpolarised guide (2)</td>
</tr>
<tr>
<td>1</td>
<td>125</td>
<td>Male unpolarised, transverse mount (1)</td>
<td></td>
<td>1</td>
<td>55</td>
<td>Male unpolarised, transverse mount (1)</td>
<td>1</td>
<td>55</td>
</tr>
</tbody>
</table>

### LOCKING STYLES

<table>
<thead>
<tr>
<th>FEMALE</th>
<th>MALE</th>
</tr>
</thead>
<tbody>
<tr>
<td>202</td>
<td>201</td>
</tr>
<tr>
<td>203</td>
<td>205</td>
</tr>
<tr>
<td>204</td>
<td>206</td>
</tr>
<tr>
<td>207</td>
<td></td>
</tr>
</tbody>
</table>

(1) Moulding A - (2) Moulding B

* For 90° & straight terminations (splicing on PCB)
** RoHS conform for 90° & straight terminations (splicing on PCB)
MOULDING STYLES

PLUG

ONE PART (moulding A)

- Fitted with male contacts
  - 90° through board solder

RECEPTACLE

- 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
  - 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
  - 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
  - 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
    - (same design as the “B” plug type but printed as receptacle)
**CONTACT TERMINATIONS**

### PLUG

<table>
<thead>
<tr>
<th>Male</th>
<th>Female</th>
<th>Receptacle</th>
</tr>
</thead>
<tbody>
<tr>
<td>90° THROUGH BOARD SOLDER</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ref: 10</td>
<td>Ref: 10 (only A Moulding)</td>
<td></td>
</tr>
</tbody>
</table>

Moulding "A"

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 | MALE | FEMALE

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

**ONE PART (moulding A)**

- 90° male plug: KMC ... 13 10 ...
- 90° male receptacle: KMC ... 23 10 ...

#### 144 TO 162 CONTACTS

**ONE PART (moulding A)**

- KMC ... 13 10 ...
- KMC ... 23 10 ...

**TWO PARTS (moulding B)**

- Female or male receptacle: KMC ... 2 ...
- Female or male plug: KMC ... 1 ...

<table>
<thead>
<tr>
<th>No. of contacts</th>
<th>26</th>
<th>44</th>
<th>62</th>
<th>80</th>
<th>98</th>
<th>144</th>
<th>162</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>30.48</td>
<td>45.72</td>
<td>60.96</td>
<td>76.20</td>
<td>91.44</td>
<td>137.16</td>
<td>152.40</td>
</tr>
<tr>
<td>B max</td>
<td>38.50</td>
<td>53.70</td>
<td>69.00</td>
<td>84.20</td>
<td>99.50</td>
<td>145.20</td>
<td>160.40</td>
</tr>
<tr>
<td>C</td>
<td>20.32</td>
<td>35.56</td>
<td>50.80</td>
<td>66.04</td>
<td>81.28</td>
<td>58.42</td>
<td>66.04</td>
</tr>
</tbody>
</table>
### GUIDE DEVICE & POLARITY TERMINATION COMPATIBILITY CHART

**Legend:**
- Compatible
- Compatible special saver connector

**Legend:**
- FP = Female Plug
- MP = Male Plug
- FR = Female Receptacle
- MR = Male Receptacle

<table>
<thead>
<tr>
<th>Polarity</th>
<th>All</th>
<th>All</th>
<th>A</th>
<th>B</th>
<th>90°</th>
<th>Straight</th>
<th>Solder bucket</th>
<th>Mini-wrap</th>
<th>Female-male</th>
<th>Male-male</th>
<th>Guide devices</th>
</tr>
</thead>
<tbody>
<tr>
<td>MP 13</td>
<td></td>
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</table>

**Moulding:**
- 703
- 190
- 174
- 173
- 154

**Contact:**
- Male or female
<table>
<thead>
<tr>
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<tr>
<td>Female/male</td>
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**Guide devices**

<table>
<thead>
<tr>
<th>153</th>
<th>133</th>
<th>130</th>
<th>123</th>
<th>124</th>
<th>143/121</th>
</tr>
</thead>
</table>

**Male guides**

**Female guides**
MALE GUIDE STYLES

POLARISED TRANSVERSE MOUNT (moulding A)
Ref: 110  Ref: 110
For 1.60 mm thickness PCB
Screw CM 1.60 x 8.30
3.90  7.00 max

UNPOLARISED TRANSVERSE MOUNT (moulding A)
CENTRAL GUIDE (KMC 144-162)
Ref: 110
For 1.60 mm thickness PCB
Screw CM 1.60 x 8.30
3.90  7.00 max

POLARISED VERTICAL MOUNT (moulding B)
Ref: 111  Ref: 112
4mm across flats
7.00  7.00 max
5.00
M 2.50

UNPOLARISED VERTICAL MOUNT (moulding B)
CENTRAL GUIDE (KMC 144-162)
Ref: 111  Ref: 112
7.00 max
5.00
M 2.50
Ø 4.00

POLARISED VERTICAL FLOAT MOUNT (moulding B)
Ref: 113
For 2 thickness
Ø 7.50
Ø 6.00
Ø 4.00
7.00  7.00 max

UNPOLARISED VERTICAL FLOAT MOUNT (moulding B)
CENTRAL GUIDE (KMC 144-162)
Ref: 111  Ref: 112
7.00 max
5.00
M 2.50
Ø 4.00
For 2 thickness

POLARISED VERTICAL FLOAT MOUNT (moulding B)
Ref: 128
For 2 thickness
Ø 7.50
Ø 6.00
Ø 4.00
7.00  7.00 max

For 2 thickness
MALE GUIDE STYLES

UNPOLARISED TRANSVERSE MOUNT (moulding A)
Ref: 125

UNPOLARISED TRANSVERSE MOUNT (moulding A)
CENTRAL GUIDE (KMC 144-162)
Ref: 125

UNPOLARISED VERTICAL MOUNT (moulding B)
Ref: 127

UNPOLARISED VERTICAL MOUNT (moulding B)
CENTRAL GUIDE (KMC 144-162)
Ref: 127

UNPOLARISED TRANSVERSE MOUNT (moulding B)
Ref: 155

UNPOLARISED TRANSVERSE MOUNT (moulding B)
CENTRAL GUIDE (KMC 144-162)
Ref: 155

POLARISED TRANSVERSE MOUNT (moulding B)
Ref: 156

UNPOLARISED TRANSVERSE MOUNT (Moulding B)
CENTRAL GUIDE (KMC 144-162)
Ref: 156
FEMALE GUIDE STYLES

POLARISED VERTICAL MOUNT (moulding B)
Ref: 121  Ref: 143  Ref: 143

POLARISED TRANSVERSE MOUNT (moulding B)
Ref: 124

POLARISED VERTICAL FLOAT MOUNT (moulding B)
Ref: 123

ALL KEYING TYPES (moulding B)
Ref: 130

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

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

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)
Ref: 153

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

Polarised Transverse Mount (moulding A)
Ref: 174

MASS AND POWER CONTACT (moulding B)
Ref: 190

MALE

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

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

FEMALE - MALE

UNPOLARISED TRANSVERSE MOUNT (moulding B)
Ref: 703

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

### LOCKING DEVICE COMPATIBILITY CHART

<table>
<thead>
<tr>
<th>Male locking devices</th>
<th>Female locking devices</th>
</tr>
</thead>
<tbody>
<tr>
<td>204</td>
<td>201</td>
</tr>
<tr>
<td>203</td>
<td></td>
</tr>
<tr>
<td>202/207</td>
<td></td>
</tr>
</tbody>
</table>

**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 203 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

PLUG

MOULDING B

RECEPTACLE

026

044

062

080

098

144

162
BOARD PREPARATION DETAILS

TWO PARTS (moulding B)

26 TO 98 CONTACTS

MOTHER BOARD

144 TO 162 CONTACTS

DAUGHTER BOARD

Female or male, plug or receptacle, straight solder terminations 30 or 31
Guide styles: 111 - 112 - 121 - 127 - 130 - 143 - 190

Female or male, plug or receptacle, 90° termination
Guide styles: 153 - 154 - 155 - 156

<table>
<thead>
<tr>
<th>No. of contacts</th>
<th>26</th>
<th>44</th>
<th>62</th>
<th>80</th>
<th>98</th>
<th>144</th>
<th>162</th>
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<tr>
<td>A</td>
<td>30.48</td>
<td>45.72</td>
<td>60.96</td>
<td>76.20</td>
<td>91.44</td>
<td>137.16</td>
<td>152.40</td>
</tr>
<tr>
<td>B</td>
<td>20.32</td>
<td>35.56</td>
<td>50.80</td>
<td>66.04</td>
<td>81.28</td>
<td>58.42</td>
<td>66.04</td>
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<tr>
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<td>33.02</td>
<td>48.26</td>
<td>63.50</td>
<td>78.74</td>
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</tr>
</tbody>
</table>
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

<table>
<thead>
<tr>
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</tbody>
</table>
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

<table>
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</tbody>
</table>
BOARD PREPARATION DETAILS

ONE PART (moulding A)
DAUGHTER BOARD
144 TO 162 CONTACTS

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

<table>
<thead>
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</table>
PANEL PREPARATION DETAILS

TWO PARTS (moulding B)

26 TO 98 CONTACTS

MOTHER BOARD

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

DAUGHTER BOARD

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

<table>
<thead>
<tr>
<th>No. of contacts</th>
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