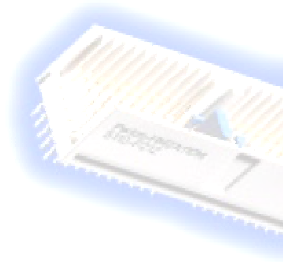


# **PerForm 2.0™** Hard Metric Connectors

Type A, Female, right angle  
IEC 61076-4-101



|  |   |
|--|---|
|  | <ul style="list-style-type: none"> <li>- According to IEC 61076-4-101 and IEC 917</li> <li>- 25 mm basic system unit</li> <li>- High contact density with 2 mm grid spacing</li> <li>- 50 mm connector module</li> <li>- Different termination lengths available</li> <li>- All terminations with compliant eye of needle press-fit design</li> <li>- Plated through hole diameter 0.6 mm</li> <li>- Available with grounding rows</li> <li>- Different coding devices available</li> </ul> |
|--|---|

## PRODUCT DATA

### Electric data

|                       |                |
|-----------------------|----------------|
| Current rating        | 1 A at +70 °C  |
| Test voltage          | 750 V AC (rms) |
| Insulation resistance | 10 Gohm (min)  |
| Temperature range     | -55... +125 °C |

### Materials

|                       |   |
|-----------------------|---|
| Housing material      | Thermoplastic resin, glass-fibre filled, UL 94 V-0                    |
| Contact material      | Copper alloy  |
| Contact plating       | Gold over nickel or..<br>Gold flash over nickel palladium over nickel |
| Press-in zone plating | Tinlead over nickel   |

### Physical data

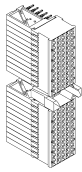
|                  |  |
|------------------|--|
| Press-in Force   | 26 ± 6N/pin on nominal hole diameter (0.6 ± 0.05 mm) |
| Retention Force  |  |
| Mating force     | 20 ± 5N/pin on nominal hole diameter (0.6 ± 0.05 mm) |
| Withdrawal Force | 0.75 N/contact max.<br>0.15 N/contact min.           |

### PCB data

|                                  |                                 |
|----------------------------------|---------------------------------|
| Diameter of plated through holes | 0.6 ± 0.05 mm                   |
| Recommended PCB hole platings    | Cu 25-50 µm, Sn or SnPb < 10 µm |
| PCB Thickness                    | 1.4 – 5.6 mm                    |

**Valukumpu Oy** ■ Raivaajantie 1 ■ FI-80100 Joensuu ■ Finland  
 ■ Tel. +358-13-564 320 ■ Fax +358-13-313 600 ■ www.valukumpu.fi  
 ■ e-mail: sales @valukumpu.fi



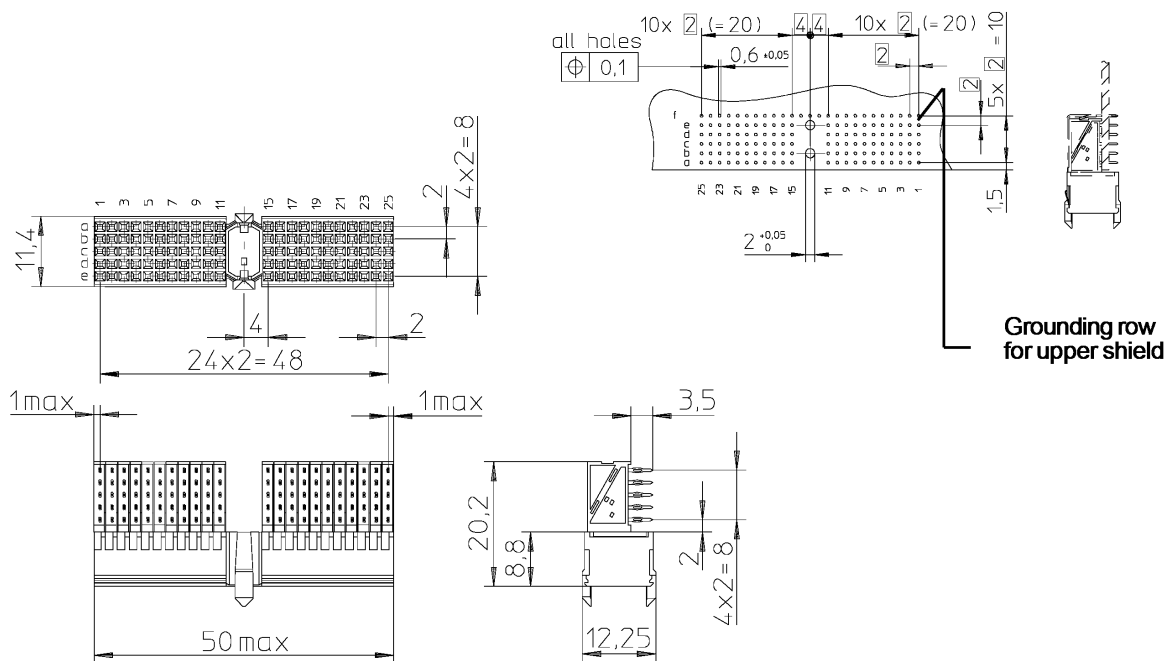


## TYPE A 22 Female connectors, right angle

| Identification                                  | Number of contacts | Performance level | Part number          |
|---|--------------------|-------------------|----------------------|
| TYPE A 22                                       | 110                | 1                 | HM2A22110F51000-L111 |
|   | 110                | 1                 | HM2A22110F51000-L121 |
|   | 110                | 2                 | HM2A22110F51000-L112 |
|   | 110                | 2                 | HM2A22110F51000-L122 |
| TYPE A 22<br>With pre-installed<br>upper shield | 110                | 1                 | HM2A22110F51001-L111 |
|   | 110                | 1                 | HM2A22110F51001-L121 |
|   | 110                | 2                 | HM2A22110F51001-L112 |
|   | 110                | 2                 | HM2A22110F51001-L122 |
| LOWER SHIELD<br>for A 22                        |                    |                   | HM2 SHA22L           |

### Mechanical dimensions and PCB layout

#### View on component side



- 1 performance level (AU/NiPd 1,25 µm)
- 2 performance level (AU/NiPd 0,8 µm)

Valukumpu Oy ■ Raivaajantie 1 ■ FI-80100 Joensuu ■ Finland  
 ■ Tel. +358-13-564 320 ■ Fax +358-13-313 600 ■ www.valukumpu.fi  
 ■ e-mail: sales @valukumpu.fi



Valukumpu Oy