TECHNICAL DATA SHEET

PMAFIX IP68 - BNVZ-M - Strain relief fitting
Straight, metric thread

Applications:
- In machine and plant construction
- For separation of damp and dry areas

Features & Benefits:
- Very high impact resistance
- Vibration-proof connection to PMA conduits
- Easy installation
- High conduit pull-out strength
- Integrated strain relief optimally holds and seals cables
- If several conductors are used with the connector multiple sealing inserts should be considered
- Very good chemical properties
- Fits both conduit profiles - fine (T) and coarse (G)

Ingress protection:
- IP66, IP68 & IP69 (EN/IEC 60529)
- IP69, 100 bar with Water impact protection (WPS-ring)
- IP68 (up to 5 bar at the cable)

Materials:
- Fitting body: high-grade, specially formulated polyamide 6
- Gland body: polyamide 6
- Sealing insert: CR/NBR

Compatible with:
- PMAFLEX Pro Conduits
- PMAFLEX Multilayer Conduits
- PMAFLEX Conduits
- PMA Smart Line Conduits

Conforms to:
- EN 45545-2 HL3 (R23 & R23)
- NFPA 130
- UL 94 (V0)

Weathering resistance:
- Very good UV resistance and weathering characteristics, particularly in black

Colour:
- Black
- Grey

Chemical properties:
- Please refer to www.pma.ch
  (Technical Information / Chemical Resistance)

Environmental properties:
- Free from halogens and cadmium
- RoHS and REACH compliant
## Product selection:

<table>
<thead>
<tr>
<th>Part no.</th>
<th>Thread size</th>
<th>Conduit size</th>
<th>Cable clamping range in mm</th>
<th>Dimensions in mm (nom.)</th>
<th>Weight</th>
<th>Packing unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>BVNZ-M162S SVNZ-M162S</td>
<td>M16x1.5</td>
<td>12</td>
<td>5.0 - 10.0</td>
<td>8.0 62.0 24.5 22 22</td>
<td>1.5</td>
<td>50</td>
</tr>
<tr>
<td>BVNZ-M202S SVNZ-M202S</td>
<td>M20x1.5</td>
<td>12</td>
<td>6.0 - 12.0</td>
<td>8.0 62.0 27.0 24 24</td>
<td>1.6</td>
<td>50</td>
</tr>
<tr>
<td>BVNZ-M207S SVNZ-M207S</td>
<td>M20x1.5</td>
<td>17</td>
<td>10.0 - 14.0</td>
<td>8.0 72.0 30.0 27 27</td>
<td>2.4</td>
<td>50</td>
</tr>
<tr>
<td>BVNZ-M203S SVNZ-M203S</td>
<td>M20x1.5</td>
<td>23</td>
<td>10.0 - 14.0</td>
<td>8.0 79.0 38.0 27 27</td>
<td>4.0</td>
<td>30</td>
</tr>
<tr>
<td>BVNZ-M253S SVNZ-M253S</td>
<td>M25x1.5</td>
<td>23</td>
<td>13.0 - 18.0</td>
<td>8.0 81.0 39.0 33 36</td>
<td>4.1</td>
<td>30</td>
</tr>
<tr>
<td>BVNZ-M329S SVNZ-M329S</td>
<td>M32x1.5</td>
<td>29</td>
<td>18.0 - 25.0</td>
<td>10.0 85.0 46.0 42 42</td>
<td>5.3</td>
<td>20</td>
</tr>
<tr>
<td>BVNZ-M406S SVNZ-M406S</td>
<td>M40x1.5</td>
<td>36</td>
<td>22.0 - 32.0</td>
<td>10.0 108.5 60.0 53 55</td>
<td>9.2</td>
<td>20</td>
</tr>
<tr>
<td>BVNZ-M508S SVNZ-M508S</td>
<td>M50x1.5</td>
<td>48</td>
<td>30.0 - 38.0</td>
<td>12.0 119.5 70.0 60 65</td>
<td>16.0</td>
<td>10</td>
</tr>
<tr>
<td>BVNZ-M638S SVNZ-M638S</td>
<td>M63x1.5</td>
<td>48</td>
<td>34.0 - 44.0</td>
<td>12.0 119.5 76.0 65 70</td>
<td>14.2</td>
<td>10</td>
</tr>
</tbody>
</table>

Our customer service dept. or local distribution partner will be pleased to help you concerning product availability and lead time.
Mechanical Properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Test parameters</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tensile modulus</td>
<td>1'200 ... 3'700 N/mm²</td>
<td></td>
<td>ISO 527</td>
</tr>
<tr>
<td>Tensile strength</td>
<td>45 ... 65 N/mm²</td>
<td></td>
<td>ISO 527</td>
</tr>
<tr>
<td>Notched bar impact test</td>
<td>4 ... 20 kJ/m²</td>
<td></td>
<td>ISO 180/1C</td>
</tr>
</tbody>
</table>

Vibration and shock standard
Cat. 2
IEC 61373, IEC 60068-2-27 / -64

Thermal properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Test parameters</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Continuous application temperature</td>
<td>– 50 ... + 105 °C</td>
<td></td>
<td>PMA DO 9.21-4510</td>
</tr>
<tr>
<td>Upper application temperature</td>
<td>+ 120° C</td>
<td>(20'000 h)</td>
<td>PMA DO 9.21-4360</td>
</tr>
<tr>
<td>Short-term</td>
<td>+ 160 °C</td>
<td>(168 h)</td>
<td>PMA DO 9.21-4360</td>
</tr>
</tbody>
</table>

Fire safety properties:

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Test parameters</th>
<th>Test method</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fire performance</td>
<td>non flame-propagating</td>
<td></td>
<td>IEC EN 61386-1</td>
</tr>
<tr>
<td>Flame class</td>
<td>V0</td>
<td></td>
<td>UL 94</td>
</tr>
<tr>
<td>Oxygen index</td>
<td>&gt; 32 %</td>
<td></td>
<td>EN ISO 4589-2</td>
</tr>
<tr>
<td>Smoke density</td>
<td>&lt; 150 Ds max.</td>
<td></td>
<td>EN ISO 5659-2</td>
</tr>
<tr>
<td>Toxicity</td>
<td>&lt; 0.75 CIT&lt;sub&gt;50&lt;/sub&gt;</td>
<td></td>
<td>NF X 70-100-1/-: (600°C)</td>
</tr>
</tbody>
</table>

Fire performance NFPA 130:

- Flammability: compliant
- Smoke density: compliant

Heat and visible smoke

26.00 MJ/kg
ASTM E 1354

Smoke emission toxicity

compliant
Bombardier SMP 800-C
Boeing BSS 7239

Note: Fire safety properties only applicable for PMA raw material

Content of delivery:

• Fitting with strain relief insert
• Conduit locking clip (OVN2)
• Thread gasket (SVN4)
• Conduit seal (NVN3)

Assembly instructions:

• Please consider the appropriate assembly instructions on www.pma.ch