TECHNICAL DATA SHEET

PMAFIX IP68 - NVNV-N - Fitting
Straight, NPT thread

IP68, metal thread fitting for flexible non-metallic conduit

Applications:
- For applications with high technical requirements

Features & Benefits:
- Very high impact resistance
- High thread and system connection strength
- Vibration-proof connection to PMA conduits
- Easy Installation
- High conduit pull-out strength
- 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)

Materials:
- Fitting body: high-grade, specially formulated polyamide 6
- Thread: nickel-plated brass

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)
- UL 1696 (UL file E80294)
- CSA C22.2 No. 227.3-05 (CSA file LL 88703)

Weathering resistance:
- Very good UV resistance and weathering characteristics

Colour:
- Black

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

Environmental properties:
- Free from halogens and cadmium
- RoHS and REACH compliant
<table>
<thead>
<tr>
<th>Part no.</th>
<th>Thread size</th>
<th>Conduit size</th>
<th>Dimensions in mm (nom.)</th>
<th>Weight</th>
<th>Packing unit</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>kg/100 pcs</td>
<td>pcs/PU</td>
</tr>
<tr>
<td>black</td>
<td>NPT</td>
<td>NW</td>
<td>g L d1 d2 SW</td>
<td></td>
<td></td>
</tr>
<tr>
<td>NVNV-N022</td>
<td>1/2&quot;</td>
<td>12</td>
<td>15.4 48.1 12.4 28.0 24</td>
<td>3.7</td>
<td>50</td>
</tr>
<tr>
<td>NVNV-N027</td>
<td>1/2&quot;</td>
<td>17</td>
<td>15.4 56.4 12.8 33.0 30</td>
<td>4.3</td>
<td>50</td>
</tr>
<tr>
<td>NVNV-N043</td>
<td>3/4&quot;</td>
<td>23</td>
<td>15.7 58.7 17.3 39.0 36</td>
<td>6.0</td>
<td>30</td>
</tr>
<tr>
<td>NVNV-N069</td>
<td>1&quot;</td>
<td>29</td>
<td>19.6 63.9 23.2 50.0 46</td>
<td>10.0</td>
<td>20</td>
</tr>
<tr>
<td>NVNV-N076</td>
<td>1 1/4&quot;</td>
<td>36</td>
<td>20.2 78.6 31.2 59.0 55</td>
<td>17.5</td>
<td>20</td>
</tr>
<tr>
<td>NVNV-N088</td>
<td>1 1/2&quot;</td>
<td>48</td>
<td>20.6 79.0 37.0 71.0 65</td>
<td>20.0</td>
<td>10</td>
</tr>
<tr>
<td>NVNV-N098</td>
<td>2&quot;</td>
<td>48</td>
<td>21.4 79.8 47.5 71.0 65</td>
<td>25.0</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>ISO 527</td>
<td></td>
</tr>
<tr>
<td>Notched bar impact test</td>
<td>4 ... 20 kJ/m²</td>
<td>ISO 180/1C</td>
<td></td>
</tr>
</tbody>
</table>

Vibration and shock standard

Cat. 2

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 (20’000 h)</td>
<td></td>
<td>PMA DO 9.21-4360</td>
</tr>
<tr>
<td>Short-term</td>
<td>≥ 160°C (168 h)</td>
<td></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>IEC EN 61386-1</td>
<td></td>
</tr>
<tr>
<td>Flame class</td>
<td>V0</td>
<td>UL 94</td>
<td></td>
</tr>
<tr>
<td>Fire hazard level</td>
<td>HL3</td>
<td>EN 45545-2 (R22)</td>
<td></td>
</tr>
<tr>
<td>Oxygen index</td>
<td>&gt; 32 %</td>
<td>EN ISO 4589-2</td>
<td></td>
</tr>
<tr>
<td>Smoke density</td>
<td>&lt; 150 Ds max.</td>
<td>EN ISO 5659-2 (25 kW/m²)</td>
<td></td>
</tr>
<tr>
<td>Toxicity</td>
<td>&lt; 0.75 CIT&lt;sub&gt;50&lt;/sub&gt;</td>
<td>NF X 70-100-1/-2: (600°C)</td>
<td></td>
</tr>
<tr>
<td>Fire hazard level</td>
<td>HL3</td>
<td>EN 45545-2 (R23)</td>
<td></td>
</tr>
<tr>
<td>Oxygen index</td>
<td>&gt; 32 %</td>
<td>EN ISO 4589-2</td>
<td></td>
</tr>
<tr>
<td>Smoke density</td>
<td>&lt; 300 Ds max.</td>
<td>EN ISO 5659-2 (25 kW/m²)</td>
<td></td>
</tr>
<tr>
<td>Toxicity</td>
<td>&lt; 1.5 CIT&lt;sub&gt;50&lt;/sub&gt;</td>
<td>NF X 70-100-1/-2: (600°C)</td>
<td></td>
</tr>
<tr>
<td>Heat and visible smoke</td>
<td>26.00 MJ/kg</td>
<td>ASTM E 162</td>
<td></td>
</tr>
<tr>
<td>Smoke emission toxicity</td>
<td>compliant</td>
<td>Bombardier SMP 800-C</td>
<td></td>
</tr>
<tr>
<td>Smoke emission toxicity</td>
<td>compliant</td>
<td>Boeing BSS 7239</td>
<td></td>
</tr>
</tbody>
</table>

Content of delivery:

- Fitting with conduit locking clip (OVN2)
- Conduit gasket (NVN3)
- Thread gasket (SVN4)
- O-ring

Assembly instructions:

- Please consider the appropriate assembly instructions on www.pma.ch
- O-ring or thread gasket, select the best solution for your application

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