TECHNICAL DATA SHEET

PMAFIX IP68 - BVYR - Y-Junction

IP68, polyamide Y-junction for flexible non-metallic conduit

Applications:
• For cable protection systems in a wide range of applications

Features & Benefits:
• Very high impact resistance
• Vibration-proof connection to PMAFLEX Conduits
• Easy installation
• High conduit pull-out strength
• Can be easily re-opened with a screwdriver
• 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:
• High-grade, specially formulated polyamide 6

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, 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>Conduit size</th>
<th>Dimensions in mm (nom.)</th>
<th>Weight</th>
<th>Packing unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>BVYR-100707</td>
<td>SVYR-100707</td>
<td>10 7 7 63.0 21.0 21.0 24.0 21.0 15.0 16 2xM4 32.0 11.0</td>
<td>1.2</td>
<td>20</td>
</tr>
<tr>
<td>BVYR-121010</td>
<td>SVYR-121010</td>
<td>12 10 10 69.0 24.0 24.0 27.0 24.0 19.0 18 2xM4 39.0 12.0</td>
<td>1.9</td>
<td>20</td>
</tr>
<tr>
<td>BVYR-171212</td>
<td>SVYR-171212</td>
<td>17 12 12 80.0 30.0 32.0 34.0 32.0 22.0 22 2xM5 46.0 15.0</td>
<td>2.8</td>
<td>20</td>
</tr>
<tr>
<td>BVYR-231717</td>
<td>SVYR-231717</td>
<td>23 17 17 98.0 38.0 42.0 38.0 42.0 30.0 29 2xM6 60.0 19.0</td>
<td>5.2</td>
<td>20</td>
</tr>
<tr>
<td>BVYR-292323</td>
<td>SVYR-292323</td>
<td>29 23 23 109.0 45.0 48.0 37.0 48.0 37.0 33 2xM6 74.0 23.0</td>
<td>8.0</td>
<td>10</td>
</tr>
<tr>
<td>BVYR-362929</td>
<td>SVYR-362929</td>
<td>36 29 29 130.0 54.0 58.0 50.0 58.0 43.0 36 2xM6 87.0 27.0</td>
<td>11.2</td>
<td>5</td>
</tr>
<tr>
<td>BVYR-483636</td>
<td>SVYR-483636</td>
<td>48 36 36 144.0 68.0 70.0 50.0 70.0 50.0 48 2xM6 104.0 34.0</td>
<td>15.7</td>
<td>5</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>
</tbody>
</table>

- Fire hazard level: HL3
- Oxygen index: > 32 %
- Smoke density: < 150 Ds max.
- Toxicity: < 0.75 CIT₉₅₉₅

- Fire performance NFPA 130:  
  - Flammability: compliant  
  - Smoke density: compliant

- Heat and visible smoke: 26.00 MJ/kg
- Smoke emission toxicity: compliant
- Smoke emission toxicity: compliant

- NFPA 130  
  - Flammability: compliant  
  - Smoke density: compliant

- ASTM E 162  
  - Flammability: compliant  
  - Smoke density: compliant

- ASTM E 662  
  - Flammability: compliant  
  - Smoke density: compliant

- ASTM E 1354  
  - Heat and visible smoke: compliant

- Bombardier SMP 800-C  
  - Smoke emission toxicity: compliant

- Boeing BSS 7241  
  - Smoke emission toxicity: compliant

### Content of delivery:

- Y-junction with conduit locking clip (OVN2)
- Conduit gasket (NVN3)

### Assembly instructions:

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