TECHNICAL DATA SHEET

PMA Accessories - BGPM - System support
Series of supports for 1-3 conduits

The most compact and lightest design of its kind on the market, saving space and weight in your application

Applications:
- In railway vehicle construction and other applications where fixation of parallel running conduits and cables is required

Features & Benefits:
- Design:
  a) Light weight
  b) Quick installation, possible with one hand
  c) Compact design
  d) Conduit rotation possible preventing torsion
  e) Axial fixation of conduit and/or cables
- Pre-assembly possible:
  a) For the bottom half of the support
  b) Conduit retained in one half of the support by clips
- Multi-purpose usage:
  a) Support for conduits
  b) Reduction half shell for conduits of smaller size
- User-friendly installation:
  a) Clearance holes for M6 threaded screws for fixation
  b) Use of Allen-screws and hexagonal-head-screws possible
  c) Support clips assist quick installation
- High impact resistance

Materials:
- High-grade, specially formulated polyamide 6

Compatible with:
- PMAFLEX Pro Conduit
- PMAFLEX Multilayer Conduit
- PMAFLEX Conduit
- PMA Smart Line Conduit
- Half-shell inserts (datasheet no. 40055)

Conforms to:
- EN 45545-2 HL3 (R22 & R23)
- NFPA 130
- UL 94 (V0)

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
**BGPM - System Support**

**Benefits and key features**

- **Size marking:** Conduit size (NW) marking shows compatibility

- **Complete range is designed for use with M6 fixation screws:**
  an industry standard allowing installation with the same tool regardless of the size of the conduit holder.
  Compatible with Allen and hexagonal-head-screws

- **Assymetrical clips:** hold conduits in one half of the support before the second half is attached. This allows the harness to be configured elsewhere and then fixed to the train with the M6 screws

- **Assymetrical pins:** hold the two halves of the support together before the M6 screws are installed

- **Ribs:** provide strain relief for the conduit

- **Holes for pre-attachment:** allow the bottom half of the support to be fixed to a plate or chassis

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**BGPM - System Support**

**Composition of the system**

- **Multiple Holder:** provides axial strain relief for conduits but allowing rotation so that torsion does not transfer to the conduit

- **Adaptor:** allows adaptation to support smaller conduit sizes
<table>
<thead>
<tr>
<th>Part no.</th>
<th>Conduit Profile</th>
<th>Conduit size</th>
<th>Number of conduits</th>
<th>Dimensions in mm (nom.)</th>
<th>Weight</th>
<th>Packing unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>black</td>
<td>T/G</td>
<td>NW</td>
<td>No.</td>
<td>L  B  C</td>
<td>kg/100 pcs</td>
<td>pcs/PU</td>
</tr>
<tr>
<td>BGPM-1x17</td>
<td>T/G</td>
<td>17</td>
<td>1</td>
<td>48  30  33</td>
<td>2.7</td>
<td>30</td>
</tr>
<tr>
<td>BGPM-1x23</td>
<td>T/G</td>
<td>23</td>
<td>1</td>
<td>55  30  40</td>
<td>3.3</td>
<td>30</td>
</tr>
<tr>
<td>BGPM-2x23</td>
<td>T/G</td>
<td>23</td>
<td>2</td>
<td>87  30  40</td>
<td>4.6</td>
<td>30</td>
</tr>
<tr>
<td>BGPM-1x36</td>
<td>T/G</td>
<td>36</td>
<td>1</td>
<td>70  30  55</td>
<td>5.4</td>
<td>30</td>
</tr>
<tr>
<td>BGPM-3x36</td>
<td>T/G</td>
<td>36</td>
<td>3</td>
<td>163 30  55</td>
<td>9.9</td>
<td>30</td>
</tr>
<tr>
<td>BGPM-1x48</td>
<td>T/G</td>
<td>48</td>
<td>1</td>
<td>82  30  66</td>
<td>6.9</td>
<td>30</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>ISO 527</td>
<td></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>

## 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>PMA DO 9.21-4510</td>
<td></td>
</tr>
<tr>
<td>Upper application temperature</td>
<td>+ 120°C</td>
<td>PMA DO 9.21-4360</td>
<td></td>
</tr>
<tr>
<td>Short-term</td>
<td>+ 160 °C</td>
<td>PMA DO 9.21-4360</td>
<td></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 non flame-propagating</td>
<td></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>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</td>
<td></td>
</tr>
<tr>
<td>Toxicity</td>
<td>&lt; 0.75 CIT_{slp}</td>
<td>NF X 70-100-1/-2: (600°C)</td>
<td></td>
</tr>
</tbody>
</table>

## Content of delivery:

- System support

## Assembly instructions:

- For possible combinations, please see page 2