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 TECHNICAL DATA SHEET

# PMAFIX IP68 - BVYR - Y-Junction

## PMA



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 (R22 & 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](http://www.pma.ch) (Technical Information / Chemical Resistance)

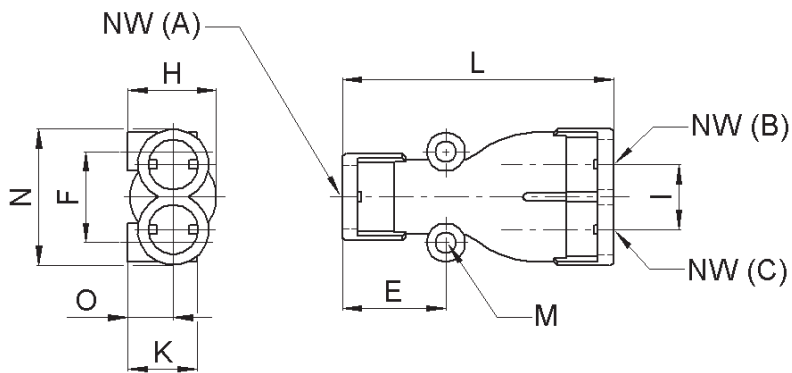
### Environmental properties:

- Free from halogens and cadmium
- RoHS and REACH compliant

**Product selection:**

| Part no.    |             | Conduit size |        |        | Dimensions in mm (nom.) |      |      |      |      |      |      |      |       |      | Weight     | Packing unit |
|-------------|-------------|--------------|--------|--------|-------------------------|------|------|------|------|------|------|------|-------|------|------------|--------------|
| black       | grey        | NW (A)       | NW (B) | NW (C) | L                       | H    | E    | A    | F    | I    | K    | M    | N     | O    | kg/100 pcs | pcs/PU       |
| BVYR-100707 | SVYR-100707 | 10           | 7      | 7      | 63.0                    | 21.0 | 21.0 | 24.0 | 21.0 | 15.0 | 16.0 | 2xM4 | 32.0  | 11.0 | 1.2        | 20           |
| BVYR-121010 | SVYR-121010 | 12           | 10     | 10     | 69.0                    | 24.0 | 24.0 | 27.0 | 24.0 | 19.0 | 18.0 | 2xM4 | 39.0  | 12.0 | 1.9        | 20           |
| BVYR-171212 | SVYR-171212 | 17           | 12     | 12     | 80.0                    | 30.0 | 32.0 | 34.0 | 32.0 | 22.0 | 22.0 | 2xM5 | 46.0  | 15.0 | 2.8        | 20           |
| BVYR-231717 | SVYR-231717 | 23           | 17     | 17     | 98.0                    | 38.0 | 42.0 | 38.0 | 42.0 | 30.0 | 29.0 | 2xM6 | 60.0  | 19.0 | 5.2        | 20           |
| BVYR-292323 | SVYR-292323 | 29           | 23     | 23     | 109.0                   | 45.0 | 48.0 | 37.0 | 48.0 | 37.0 | 33.0 | 2xM6 | 74.0  | 23.0 | 8.0        | 10           |
| BVYR-362929 | SVYR-362929 | 36           | 29     | 29     | 130.0                   | 54.0 | 58.0 | 50.0 | 58.0 | 43.0 | 36.0 | 2xM6 | 87.0  | 27.0 | 11.2       | 5            |
| BVYR-483636 | SVYR-483636 | 48           | 36     | 36     | 144.0                   | 68.0 | 70.0 | 50.0 | 70.0 | 50.0 | 48.0 | 2xM6 | 104.0 | 34.0 | 15.7       | 5            |

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



| <b>Mechanical Properties:</b> | <b>Value:</b>                     | <b>Test parameters:</b> | <b>Test method:</b>             |
|-------------------------------|-----------------------------------|-------------------------|---------------------------------|
| Tensile modulus               | 1'200 ... 3'700 N/mm <sup>2</sup> |                         | ISO 527                         |
| Tensile strength              | 45 ... 65 N/mm <sup>2</sup>       |                         | ISO 527                         |
| Notched bar impact test       | 4 ... 20 kJ/m <sup>2</sup>        |                         | ISO 180/1C                      |
| Vibration and shock standard  | Cat. 2                            |                         | IEC 61373, IEC 60068-2-27 / -64 |

| <b>Thermal properties:</b>         | <b>Value:</b>  | <b>Test parameters:</b> | <b>Test method:</b> |
|------------------------------------|----------------|-------------------------|---------------------|
| Continuous application temperature | -50 ... +105°C |                         | PMA DO 9.21-4510    |
| Upper application temperature      | +120°C         | (20'000 h)              | PMA DO 9.21-4360    |
| Short-term                         | +160°C         | (168 h)                 | PMA DO 9.21-4360    |

| <b>Fire safety properties:</b> | <b>Value:</b>         | <b>Test parameters:</b> | <b>Test method:</b> |
|--------------------------------|-----------------------|-------------------------|---------------------|
| Fire performance               | non flame-propagating |                         | IEC EN 61386-1      |
| Flame class                    | V0                    |                         | UL 94               |

|                   |                           |  |                                       |
|-------------------|---------------------------|--|---------------------------------------|
| Fire hazard level | HL3                       |  | EN 45545-2 (R22)                      |
| Oxygen index      | > 32 %                    |  | EN ISO 4589-2                         |
| Smoke density     | < 150 Ds max.             |  | EN ISO 5659-2 (25 kW/m <sup>2</sup> ) |
| Toxicity          | < 0.75 CIT <sub>NLP</sub> |  | NF X 70-100-1/-2: (600°C)             |

|                   |                          |  |                                       |
|-------------------|--------------------------|--|---------------------------------------|
| Fire hazard level | HL3                      |  | EN 45545-2 (R23)                      |
| Oxygen index      | > 32 %                   |  | EN ISO 4589-2                         |
| Smoke density     | < 300 Ds max.            |  | EN ISO 5659-2 (25 kW/m <sup>2</sup> ) |
| Toxicity          | < 1.5 CIT <sub>NLP</sub> |  | NF X 70-100-1/-2: (600°C)             |

|                            |           |  |            |
|----------------------------|-----------|--|------------|
| Fire performance NFPA 130: |           |  | NFPA 130   |
| - Flammability             | compliant |  | ASTM E 162 |
| - Smoke density            | compliant |  | ASTM E 662 |

|                         |             |  |                      |
|-------------------------|-------------|--|----------------------|
| Heat and visible smoke  | 26.00 MJ/kg |  | ASTM E 1354          |
| Smoke emission toxicity | compliant   |  | Bombardier SMP 800-C |
| Smoke emission toxicity | compliant   |  | Boeing BSS 7241      |

#### 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](http://www.pma.ch)

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