

TECHNICAL DATA SHEET

PMAFIX IP68 - BVNV-N - Fitting

Straight, NPT thread

PMA



IP68, polyamide fitting 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 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:

- 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 (Technical Information / Chemical Resistance)

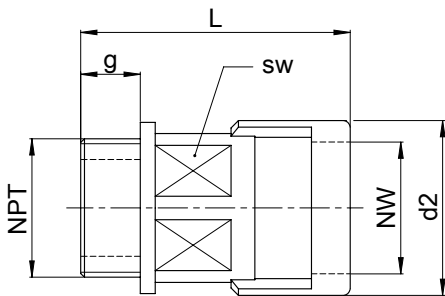
Environmental properties:

- Free from halogens and cadmium
- RoHS and REACH compliant

Product selection:

| Part no. | | Thread size | Conduit size | Dimensions in mm (nom.) | | | | Weight | Packing unit |
|------------|------------|-------------|--------------|-------------------------|------|------|------|------------|--------------|
| black | grey | NPT | NW | g | L | d2 | SW | kg/100 pcs | pcs/PU |
| BVNV-N020 | SVNV-N020 | 1/2 " | 10 | 13.0 | 38.5 | 26.0 | 17.0 | 0.7 | 50 |
| BVNV-N022 | SVNV-N022 | 1/2 " | 12 | 13.0 | 41.5 | 26.0 | 20.0 | 0.8 | 50 |
| BVNV-N027 | SVNV-N027 | 1/2 " | 17 | 13.0 | 49.5 | 29.5 | 26.0 | 1.3 | 50 |
| BVNV-N043 | SVNV-N043 | 3/4 " | 23 | 14.0 | 54.0 | 37.0 | 32.0 | 1.9 | 30 |
| BVNV-N069 | SVNV-N069 | 1 " | 29 | 15.0 | 56.0 | 44.0 | 40.0 | 2.7 | 20 |
| BVNV-N076 | SVNV-N076 | 1 1/4 " | 36 | 18.0 | 71.0 | 55.0 | 50.0 | 5.0 | 20 |
| BVNV-N088 | SVNV-N088 | 1 1/2 " | 48 | 18.0 | 71.5 | 69.0 | 65.0 | 7.3 | 10 |
| BVNV-N098 | SVNV-N098 | 2 " | 48 | 18.0 | 71.5 | 69.0 | 65.0 | 7.5 | 10 |
| BVNV-N0201 | SVNV-N0201 | 1/2 " | 1 | 13.0 | 48.5 | 28.0 | 25.0 | 1.3 | 50 |
| BVNV-N0202 | SVNV-N0202 | 1/2 " | 2 | 13.0 | 49.0 | 30.0 | 27.0 | 1.3 | 50 |

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



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

| Thermal properties: | Value: | Test parameters: | Test method: |
|------------------------------------|----------------|------------------|------------------|
| 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 |

| Fire safety properties: | Value: | Test parameters: | Test method: |
|-------------------------|-----------------------|------------------|----------------|
| 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 ²) |
| Toxicity | < 0.75 CIT _{NLP} | | 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 ²) |
| Toxicity | < 1.5 CIT _{NLP} | | 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 7239 |

Content of delivery:

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

Assembly instructions:

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

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