

TECHNICAL DATA SHEET

PMAFIX IP66 - BVAD-M - Fitting

45° elbow, metric thread

PMA



One-piece, polyamide fitting for flexible non-metallic conduit



Applications:

- For cable protection systems in a wide range of applications

Features & Benefits:

- Easy installation: simple push fit assembly
- Very high impact resistance
- Vibration-proof connection to PMA conduits
- 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 (EN/IEC 60529)

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)

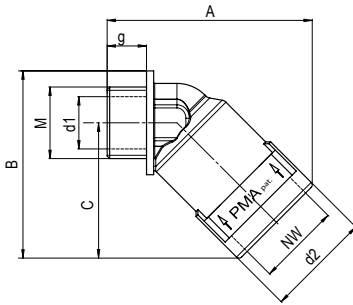
Environmental properties:

- 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 | metric | NW | g | d2 | A | B | C | kg/100 pcs | pcs/PU |
| BVAD-M120GT | SVAD-M120GT | M12x1.5 | 10 | 11.0 | 20.0 | 43.0 | 36.5 | 26.5 | 0.5 | 50 |
| BVAD-M160GT | SVAD-M160GT | M16x1.5 | 10 | 11.0 | 22.0 | 43.0 | 37.5 | 26.5 | 0.7 | 50 |
| BVAD-M162GT | SVAD-M162GT | M16x1.5 | 12 | 11.0 | 23.5 | 47.5 | 41.0 | 29.5 | 1.0 | 50 |
| BVAD-M202GT | SVAD-M202GT | M20x1.5 | 12 | 11.0 | 26.0 | 47.5 | 42.5 | 29.5 | 1.4 | 50 |
| BVAD-M207GT | SVAD-M207GT | M20x1.5 | 17 | 11.0 | 29.5 | 57.5 | 52.5 | 38.0 | 1.6 | 50 |
| BVAD-M253GT | SVAD-M253GT | M25x1.5 | 23 | 12.0 | 37.0 | 66.0 | 59.5 | 43.5 | 2.3 | 30 |
| BVAD-M329GT | SVAD-M329GT | M32x1.5 | 29 | 15.0 | 44.0 | 74.5 | 67.0 | 47.0 | 3.7 | 20 |
| BVAD-M406GT | SVAD-M406GT | M40x1.5 | 36 | 19.0 | 53.5 | 93.5 | 86.5 | 61.0 | 6.6 | 20 |
| BVAD-M506GT | SVAD-M506GT | M50x1.5 | 36 | 19.0 | 59.0 | 93.5 | 90.5 | 61.0 | 7.3 | 20 |
| BVAD-M508GT | SVAD-M508GT | M50x1.5 | 48 | 19.0 | 66.0 | 100.0 | 96.5 | 67.0 | 8.0 | 10 |
| BVAD-M638GT | SVAD-M638GT | M63x1.5 | 48 | 19.0 | 75.0 | 100.0 | 104.5 | 67.0 | 10.2 | 10 |

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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