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 TECHNICAL DATA SHEET

# PMAFIX IP68 - BVNZ-M - Strain relief fitting

## Straight, metric thread

### PMA



IP68, polyamide thread strain relief fitting  
for flexible non-metallic conduit



#### Applications:

- In machine and plant construction
- For separation of damp and dry areas

#### Features & Benefits:

- Very high impact resistance
- Vibration-proof connection to PMA conduits
- Easy installation
- High conduit pull-out strength
- Integrated strain relief optimally holds and seals cables
- If several conductors are used with the connector multiple sealing inserts should be considered
- 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)
- IP68 (up to 5 bar at the cable)

#### Materials:

- Fitting body: high-grade, specially formulated polyamide 6
- Gland body: polyamide 6
- Sealing insert: CR/NBR

#### 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)

#### 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)

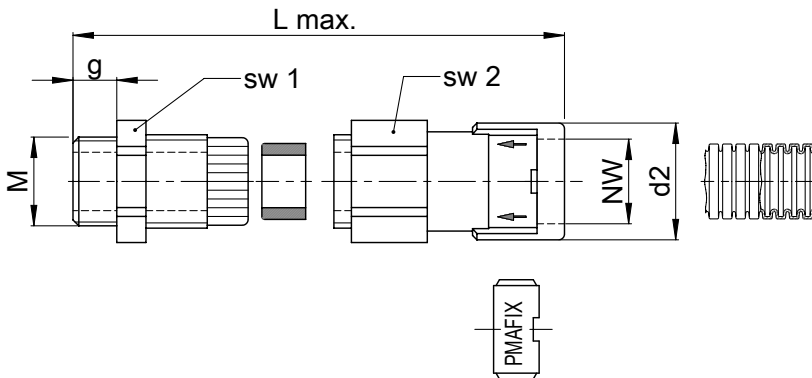
#### Environmental properties:

- Free from halogens and cadmium
- RoHS and REACH compliant

**Product selection:**

Part no.		Thread size	Conduit size	Cable clamping range in mm	Dimensions in mm (nom.)					Weight	Packing unit
black	grey	metric	NW	K	g	L	d2	SW1	SW2	kg/100pcs	pcs/PU
BVNZ-M162S	SVNZ-M162S	M16x1.5	12	5.0 - 10.0	8.0	62.0	24.5	22	22	1.5	50
BVNZ-M202S	SVNZ-M202S	M20x1.5	12	6.0 - 12.0	8.0	62.0	27.0	24	24	1.6	50
BVNZ-M207S	SVNZ-M207S	M20x1.5	17	10.0 - 14.0	8.0	72.0	30.0	27	27	2.4	50
BVNZ-M203S	SVNZ-M203S	M20x1.5	23	10.0 - 14.0	8.0	79.0	38.0	27	27	4.0	30
BVNZ-M253S	SVNZ-M253S	M25x1.5	23	13.0 - 18.0	8.0	81.0	39.0	33	36	4.1	30
BVNZ-M329S	SVNZ-M329S	M32x1.5	29	18.0 - 25.0	10.0	85.0	46.0	42	42	5.3	20
BVNZ-M406S	SVNZ-M406S	M40x1.5	36	22.0 - 32.0	10.0	108.5	60.0	53	55	9.2	20
BVNZ-M508S	SVNZ-M508S	M50x1.5	48	30.0 - 38.0	12.0	119.5	70.0	60	65	16.0	10
BVNZ-M638S	SVNZ-M638S	M63x1.5	48	34.0 - 44.0	12.0	119.5	76.0	65	70	14.2	10

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 7239

Note: Fire safety properties only applicable for PMA raw material

#### Content of delivery:

- Fitting with strain relief insert
- Conduit locking clip (OVN2)
- Thread gasket (SVN4)
- Conduit seal (NVN3)

#### Assembly instructions:

- Please consider the appropriate assembly instructions on [www.pma.ch](http://www.pma.ch)

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