

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 (R23 & 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)

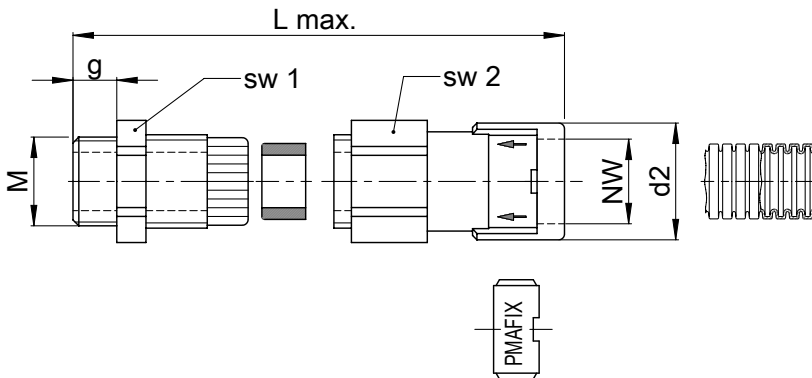
**Environmental properties:**

- 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



Mechanical Properties:	Value:	Test parameters:	Test method:
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

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 <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)

ABB Switzerland Ltd,  
PMA Cable Protection  
Aathalstrasse 90  
8610 Uster, Switzerland  
Phone: +41 58 585 00 11  
pma-info@ch.abb.com  
www.pma.ch

Let's write the future.  
Together. **abb.com**

We reserve the right to make technical changes or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB Installation Products Inc. does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein. Any reproduction, disclosure to third parties or utilization of its contents – in whole or in parts – is forbidden without prior written consent of ABB Inc. Copyright© 2019 ABB Installation Products Inc. All rights reserved

