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 TECHNICAL DATA SHEET

# PMAFIX IP66 - BVNDZ-P - Strain relief fitting

## Straight, PG thread

### PMA



IP66, 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: simple push fit assembly
- 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 (EN/IEC 60529)
- 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)

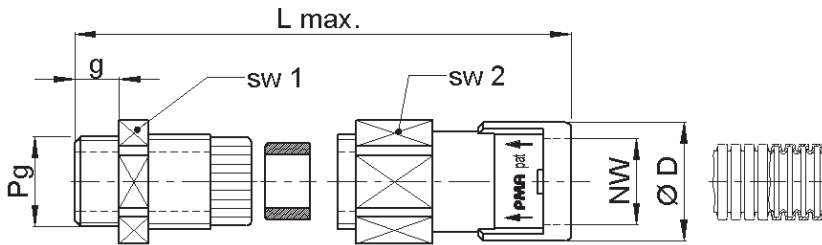
#### Environmental properties:

- 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	PG	NW	K	g	L	d2	SW1	SW2	kg/100pcs	pcs/PU
BVNDZ-P090GT	SVNDZ-P090GT	9	10	4.0 - 8.0	7.5	56.0	21.5	19	19	0.7	50
BVNDZ-P112GT	SVNDZ-P112GT	11	12	5.0 - 10.0	8.0	60.5	24.0	22	22	1.2	50
BVNDZ-P132GT	SVNDZ-P132GT	13.5	12	6.0 - 12.0	9.0	62.0	27.0	24	24	1.3	50
BVNDZ-P137GT	SVNDZ-P137GT	13.5	17	6.0 - 12.0	9.0	69.0	30.0	24	24	1.6	50
BVNDZ-P167GT	SVNDZ-P167GT	16	17	10.0 - 14.0	10.0	72.0	30.0	27	27	1.9	50
BVNDZ-P163GT	SVNDZ-P163GT	16	23	10.0 - 14.0	10.0	79.0	38.0	27	27	2.6	30
BVNDZ-P213GT	SVNDZ-P213GT	21	23	13.0 - 18.0	11.0	82.0	39.0	33	36	3.6	30
BVNDZ-P299GT	SVNDZ-P299GT	29	29	18.0 - 25.0	11.0	85.0	46.5	42	42	4.8	20
BVNDZ-P366GT	SVNDZ-P366GT	36	36	22.0 - 32.0	13.0	112.0	60.0	53	55	9.7	20
BVNDZ-P488GT	SVNDZ-P488GT	48	48	34.0 - 44.0	14.0	112.0	76.0	65	70	14.8	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
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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
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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)
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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)
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Fire performance NFPA 130:			NFPA 130
- Flammability	compliant		ASTM E 162
- Smoke density	compliant		ASTM E 662
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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 premounted conduit locking clip (AFN2)
- Strain relief insert

#### Assembly instructions:

- Push-in with a slight twist and pull back slightly to ensure the conduit clicks into place
- 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](http://www.pma.ch)

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