
 TECHNICAL DATA SHEET

PMAFIX IP68 - BVNZ-P - Strain relief fitting

Straight, PG thread



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
(Technical Information / Chemical Resistance)

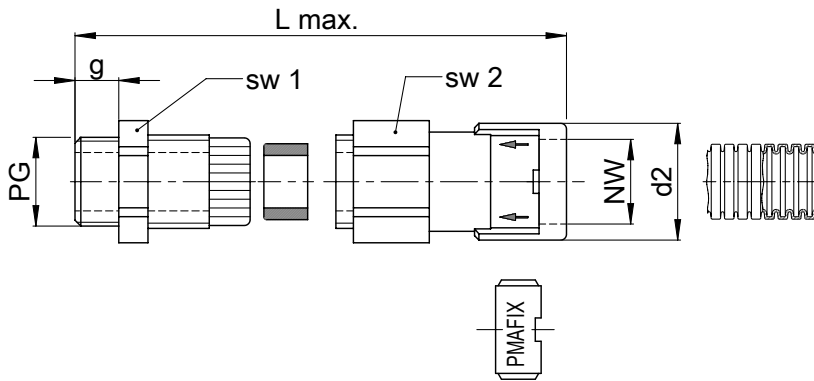
Environmental properties:

- 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
BVNZ-P090S	SVNZ-P090S	9	10	4.0 - 8.0	7.5	56.0	21.5	19	19	1.5	50
BVNZ-P112S	SVNZ-P112S	11	12	5.0 - 10.0	8.0	60.5	24.0	22	22	1.8	50
BVNZ-P132S	SVNZ-P132S	13.5	12	6.0 - 12.0	9.0	62.0	27.0	24	24	1.8	50
BVNZ-P137S	SVNZ-P137S	13.5	17	6.0 - 12.0	9.0	69.0	30.0	24	24	2.7	50
BVNZ-P167S	SVNZ-P167S	16	17	10.0 - 14.0	10.0	72.0	30.0	27	27	2.7	50
BVNZ-P163S	SVNZ-P163S	16	23	10.0 - 14.0	10.0	79.0	38.0	27	27	4.1	30
BVNZ-P213S	SVNZ-P213S	21	23	13.0 - 18.0	11.0	82.0	39.0	33	36	4.1	30
BVNZ-P299S	SVNZ-P299S	29	29	18.0 - 25.0	11.0	85.0	46.5	42	42	5.3	20
BVNZ-P366S	SVNZ-P366S	36	36	22.0 - 32.0	13.0	112.0	60.0	53	55	9.2	20
BVNZ-P488S	SVNZ-P488S	48	48	34.0 - 44.0	14.0	112.0	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 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

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

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