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 TECHNICAL DATA SHEET

# PMAFIX IP68 - NVNV-M - Fitting

## Straight, metric thread

### PMA



IP68, metal thread fitting for flexible non-metallic conduit



#### Applications:

- For applications with high technical requirements

#### Features & Benefits:

- Very high impact resistance
- High thread and system connection strength
- Vibration-proof connection to PMA conduits
- Easy installation
- High conduit pull-out strength
- 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)

#### Materials:

- Fitting body: high-grade, specially formulated polyamide 6
- Thread: nickel-plated brass

#### 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](http://www.pma.ch) (Technical Information / Chemical Resistance)

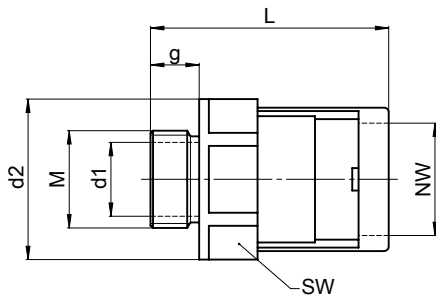
#### Environmental properties:

- Free from halogens and cadmium
- RoHS and REACH compliant

**Product selection:**

Part no.		Conduit size	Dimensions in mm (nom.)				Weight	Packing unit
black	grey	NW	g	d1	d2	SW	kg/100 pcs	pcs/PU
NVNV-M120-10	MVNV-M120-10	10	10.0	5.5	21.0	19	1.4	50
NVNV-M120-5	MVNV-M120-5	10	5.0	5.5	21.0	19	1.2	50
NVNV-M160-10	MVNV-M160-10	10	10.0	9.5	24.0	19	1.8	50
NVNV-M160-5	MVNV-M160-5	10	5.0	9.5	24.0	19	1.5	50
NVNV-M162-10	MVNV-M162-10	12	10.0	9.5	26.0	24	2.0	50
NVNV-M162-5	MVNV-M162-5	12	5.0	9.5	26.0	24	1.7	50
NVNV-M202-10	MVNV-M202-10	12	10.0	13.5	28.0	24	2.5	50
NVNV-M202-6	MVNV-M202-6	12	6.0	13.5	28.0	24	2.3	50
NVNV-M207-10	MVNV-M207-10	17	10.0	13.5	33.0	30	3.1	50
NVNV-M207-6	MVNV-M207-6	17	6.0	13.5	33.0	30	2.8	50
NVNV-M257-11	MVNV-M257-11	17	11.0	18.0	35.0	30	3.7	50
NVNV-M257-7	MVNV-M257-7	17	7.0	18.0	35.0	30	3.3	50
NVNV-M253-11	MVNV-M253-11	23	11.0	18.5	39.0	36	4.2	30
NVNV-M253-7	MVNV-M253-7	23	7.0	18.5	39.0	36	3.8	30
NVNV-M323-13	MVNV-M323-13	23	13.0	24.0	43.0	36	5.5	30
NVNV-M323-8	MVNV-M323-8	23	8.0	24.0	43.0	36	4.6	30
NVNV-M329-13	MVNV-M329-13	29	13.0	25.0	50.0	46	6.2	20
NVNV-M329-8	MVNV-M329-8	29	8.0	25.0	50.0	46	5.7	20
NVNV-M409-13	MVNV-M409-13	29	13.0	31.5	53.0	46	9.2	20
NVNV-M409-8	MVNV-M409-8	29	8.0	31.5	53.0	46	7.9	20
NVNV-M406-13	MVNV-M406-13	36	13.0	32.5	59.0	55	10.9	20
NVNV-M406-8	MVNV-M406-8	36	8.0	32.5	59.0	55	9.3	20
NVNV-M506-14	MVNV-M506-14	36	14.0	39.5	65.0	55	15.1	20
NVNV-M506-9	MVNV-M506-9	36	9.0	39.5	65.0	55	13.3	20
NVNV-M508-14	MVNV-M508-14	48	14.0	41.5	71.0	65	16.9	10
NVNV-M508-9	MVNV-M508-9	48	9.0	41.5	71.0	65	15.2	10
NVNV-M638-14	MVNV-M638-14	48	14.0	51.5	75.0	65	16.5	10
NVNV-M638-10	MVNV-M638-10	48	10.0	51.5	75.0	65	15.0	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 CITNLP		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 CITNLP		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

#### Content of delivery:

- Fitting with conduit locking clip (OVN2)
- Conduit gasket (NVN3)
- Thread gasket (SVN4)
- O-ring

#### Assembly instructions:

- Please consider the appropriate assembly instructions on [www.pma.ch](http://www.pma.ch)
- O-ring or thread gasket, select the best solution for your application

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