
 TECHNICAL DATA SHEET

PMAFIX Pro - NKAH-M - Fitting

45° elbow, metric thread

PMA



IP68 & IP69, two piece metal thread fitting for flexible non-metallic conduit



Applications:

- For applications with the highest technical requirements under the most demanding environmental conditions

Features & Benefits:

- Very high impact resistance - even at very low temperatures
- High connection strength - to conduit and mating parts on thread side
- Easy push-in assembly - guarantees correct installation
- Screwdriver required for dismantling - impeding unauthorized or accidental opening
- Space-saving construction - no additional room required for dismantling
- Universal - fits both conduit profiles - fine (T) and coarse (G)

Ingress protection:

- IP66, IP68 & IP69 (EN/IEC 60529)
Even when the conduit connection is continually in motion

Materials:

- Fitting body: high-grade, specially formulated polyamide 6
- Locking and sealing element: made from specially formulated, polyamide 6 and crosslinked polyester elastomer
- 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)

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)

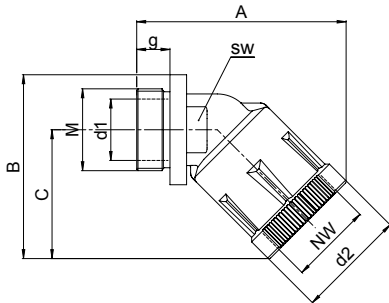
Environmental properties:

- Free from halogens and cadmium
- RoHS and REACH compliant

Product selection:

Part no.		Thread size	Conduit size	Dimensions in mm (nom.)							Weight	Packing unit
black	grey	metric	NW	g	d1	d2	SW	A	B	C	kg/100 pcs	pcs/PU
NKAH-M120-10	MKAH-M120-10	M12x1.5	10	11.0	5.5	25.0	14.0	55.5	43.0	33.0	1.9	50
NKAH-M160-10	MKAH-M160-10	M16x1.5	10	10.0	9.5	25.0	14.0	55.5	45.0	33.0	2.2	50
NKAH-M162-10	MKAH-M162-10	M16x1.5	12	10.0	9.5	28.5	17.0	62.5	50.0	38.0	2.5	50
NKAH-M202-10	MKAH-M202-10	M20x1.5	12	10.0	12.5	28.5	17.0	62.5	52.0	38.0	3.0	50
NKAH-M207-10	MKAH-M207-10	M20x1.5	17	10.0	13.5	35.0	22.0	71.0	59.5	45.0	4.0	50
NKAH-M257-11	MKAH-M257-11	M25x1.5	17	11.0	17.0	35.0	22.0	72.0	62.5	45.0	4.5	50
NKAH-M253-11	MKAH-M253-11	M25x1.5	23	11.0	18.5	43.0	28.0	80.0	68.0	50.5	5.5	30
NKAH-M323-13	MKAH-M323-13	M32x1.5	23	13.0	23.0	43.0	28.0	82.0	72.0	50.5	6.7	30
NKAH-M329-13	MKAH-M329-13	M32x1.5	29	13.0	25.0	51.5	36.0	93.0	79.5	58.0	9.0	20
NKAH-M409-13	MKAH-M409-13	M40x1.5	29	13.0	29.0	55.0	36.0	94.5	85.5	58.0	12.0	20
NKAH-M406-13	MKAH-M406-13	M40x1.5	36	13.0	32.5	61.0	46.0	105.5	93.5	66.0	14.0	20
NKAH-M506-14	MKAH-M506-14	M50x1.5	36	14.0	37.5	65.0	46.0	106.5	98.5	66.0	17.0	20
NKAH-M508-14	MKAH-M508-14	M50x1.5	48	14.0	41.0	73.0	55.0	120.0	111.0	76.0	21.0	10
NKAH-M638-14	MKAH-M638-14	M63x1.5	48	14.0	48.5	73.0	55.0	120.0	114.0	76.0	21.5	10

Our customer service dept. or local distribution partner will be pleased to help you concerning product availability and lead time
Fitting size NW12 - NW48 UL recognized to UL 1696 (UL file E 80294)



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
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

Content of delivery:

- Fitting body
- Locking and sealing element (KNH2)
- Thread gasket (SVN4)
- O-ring

Assembly instructions:

- Please consider the appropriate assembly instructions on www.pma.ch
- For information about the locking and sealing element please see data sheet No. 26990 for KNH2
- O-ring or thread gasket, select the best solution for your application

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