TECHNICAL DATA SHEET

PMAFIX Pro - NKNH-M - Fitting

Straight, metric thread

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

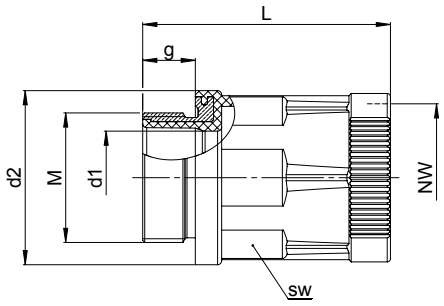
Chemical properties:
- Please refer to www.pma.ch
  (Technical Information / Chemical Resistance)

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	L	d1	d2	SW	kg/100 pcs	pcs/PU
NKNH-M120-10	MKNH-M120-10	M12x1.5	10	10.0	45.0	5.5	25.0	22	1.7	50
NKNH-M160-10	MKNH-M160-10	M16x1.5	10	10.0	45.0	9.5	25.0	22	2.1	50
NKNH-M162-10	MKNH-M162-10	M16x1.5	12	10.0	50.5	9.5	28.5	25	2.3	50
NKNH-M202-10	MKNH-M202-10	M20x1.5	12	10.0	50.5	12.5	28.5	25	2.8	50
NKNH-M207-10	MKNH-M207-10	M20x1.5	17	10.0	56.0	13.5	35.0	32	3.2	50
NKNH-M257-11	MKNH-M257-11	M25x1.5	17	11.0	57.0	16.5	35.0	32	4.0	50
NKNH-M253-11	MKNH-M253-11	M25x1.5	23	11.0	59.5	18.5	42.0	38	4.5	30
NKNH-M323-13	MKNH-M323-13	M32x1.5	23	13.0	61.5	23.0	43.0	38	5.6	30
NKNH-M329-13	MKNH-M329-13	M32x1.5	29	13.0	67.0	25.5	51.5	46	7.5	20
NKNH-M409-13	MKNH-M409-13	M40x1.5	29	13.0	68.5	29.0	53.0	46	10.5	20
NKNH-M406-13	MKNH-M406-13	M40x1.5	36	13.0	74.0	32.5	65.0	60	12.5	20
NKNH-M506-14	MKNH-M506-14	M50x1.5	36	14.0	75.0	37.0	65.0	60	17.0	20
NKNH-M508-14	MKNH-M508-14	M50x1.5	48	14.0	81.0	42.0	75.0	70	18.0	10
NKNH-M638-14	MKNH-M638-14	M63x1.5	48	14.0	81.0	48.5	75.0	70	19.0	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/mm²		ISO 527
Tensile strength	45 ... 65 N/mm²		ISO 527
Notched bar impact test	4 ... 20 kJ/m²		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/m2)
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/m2)
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

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