

TECHNICAL DATA SHEET

PMAFIX Pro - BKIHG-U - Fitting

For MIL-C5015 connectors series, UN female thread

PMA



IP68 & IP69, two piece polyamide 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

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

Colour:

- Black

Chemical properties:

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

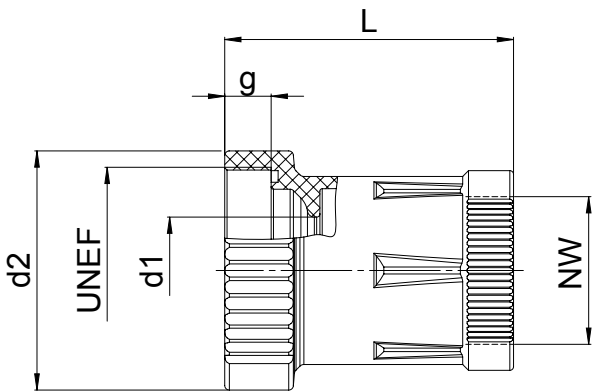
Environmental properties:

- Free from halogens and cadmium
- RoHS and REACH compliant

Product selection:

Part no.	Thread size	Conduit size	Connector size	Dimensions in mm (nom.)				Weight	Packing unit
				g	L	d1	d2		
black	UN	NW	MIL	g	L	d1	d2	kg/100 pcs	pcs/PU
BKIHG-U212	7/8"-20UNEF	12	16	9.0	47.0	12.5	28.5	1.0	50
BKIHG-U217	7/8"-20UNEF	17	16	9.0	52.5	13.0	35.0	1.6	50
BKIHG-U242	1"-20UNEF	12	18	9.0	47.0	12.5	31.0	1.1	50
BKIHG-U243	1"-20UNEF	23	18	9.0	55.5	17.0	43.0	2.1	30
BKIHG-U247	1"-20UNEF	17	18	9.0	52.5	16.5	35.0	1.6	50
BKIHG-U292	1 3/16"-18UNEF	12	20	9.0	50.5	12.5	36.0	1.4	50
BKIHG-U293	1 3/16"-18UNEF	23	20	9.0	55.5	21.0	43.0	2.1	30
BKIHG-U297	1 3/16"-18UNEF	17	20	9.0	52.5	16.5	36.0	1.7	50
BKIHG-U299	1 3/16"-18UNEF	29	20	9.0	61.0	21.0	51.5	3.5	20
BKIHG-U353	1 7/16"-18UNEF	23	24	9.0	55.5	23.0	43.0	2.2	30
BKIHG-U357	1 7/16"-18UNEF	17	24	9.0	58.0	16.5	43.0	2.1	50
BKIHG-U359	1 7/16"-18UNEF	29	24	9.0	61.0	28.0	51.5	3.6	20
BKIHG-U433	1 3/4"-18UNS	23	32	10.0	62.5	23.0	51.5	3.0	30
BKIHG-U439	1 3/4"-18UNS	29	32	10.0	62.0	29.0	51.5	3.8	20
BKIHG-U503	2"-18UNS	23	36	10.0	67.0	23.0	58.0	3.5	30
BKIHG-U506	2"-18UNS	36	36	10.0	67.0	37.0	60.5	5.0	20
BKIHG-U508	2"-18UNS	48	36	10.0	73.5	42.0	73.0	6.9	10
BKIHG-U509	2"-18UNS	29	36	10.0	67.5	29.0	58.0	4.5	20
BKIHG-U566	2 1/4"-16UN	36	40	10.0	72.0	37.0	65.0	5.9	20
BKIHG-U568	2 1/4"-16UN	48	40	10.0	73.5	48.0	73.0	7.0	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
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)
- 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

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