

TECHNICAL DATA SHEET

PMAFIX IP68 - NSHV-U - Fitting

90° curved elbow, swivel female metal UNEF thread

PMA



IP68, swivel 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
- Suitable for occasional rotation
- 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: black anodized aluminium

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)

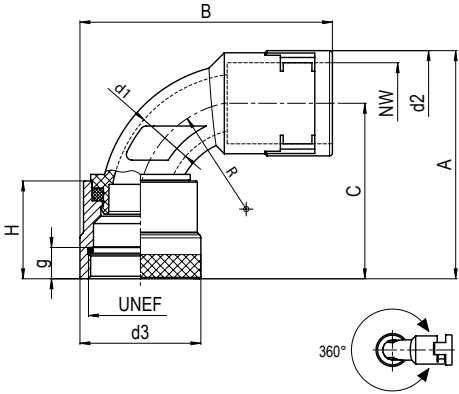
Environmental properties:

- Free from halogens and cadmium
- RoHS and REACH compliant

Product selection:

Part no.	Thread size	Conduit size	Dimensions in mm (nom.)										Weight	Packing unit
black	UN	NW	g	H	d1	d2	E	SW	A	B	C	R	kg/100 pcs	pcs/PU
NSHV-U357/01	1 7/16"-18 UNEF	17	11.0	34.4	14.5	29.5	42.5	26.0	71.5	79.5	56.5	30.5	7.5	1
NSHV-U353/01	1 7/16"-18 UNEF	23	11.0	34.4	19.5	37.0	42.5	29.0	80.5	89.0	62.0	38.0	9.0	1
NSHV-U503/01	2"-18 UNS UNEF	23	11.0	36.0	19.5	37.0	55.0	36.0	82.0	95.0	63.5	38.0	10.0	1
NSHV-U509/01	2"-18 UNS UNEF	29	11.0	35.0	28.5	44.0	58.0	46.0	91.0	102.0	69.0	45.0	13.5	1
NSHV-U506/01	2"-18 UNS UNEF	36	11.0	36.0	36.0	53.5	55.0	55.0	102.5	123.0	76.0	53.0	15.0	1

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

Content of delivery:

- Swivel fitting with conduit locking clip (OVN2)
- Conduit gasket (NVN3)
- O-ring

Assembly instructions:

- Please consider the appropriate assembly instructions on www.pma.ch

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