

## TECHNICAL DATA SHEET

# PMA Accessories - WPS - Water impact protection

## Two-piece

**PMA**



Water impact protection with click cap for PMAFIX fitting series



### Applications:

- Construction of railways and vehicles, machine tool industry
- For increased ingress protection requirements for high pressure / steam jet cleaning applications

### Features & Benefits:

- Extremely shock resistant
- Based on PMAFIX/PMAFLEX system with ingress protection of IP68
- Additional protection against water jet impact
- Increased ingress protection of PMAFIX systems up to IP69
- Quick mounting
- Possible for subsequent installation (retrofit)
- High retention forces
- Optimal fixation due to integrated rib
- Groove for additional fixation

### Ingress protection:

- IPX9 = at 80 - 100 bar water jet pressure
- Until 80°C water temperature

### Materials:

- High-grade, specially formulated polyamide 6

### Compatible with:

- Suitable with all PMAFIX fitting series
- Fits to all PMA conduit profiles

### Conforms to:

- EN 45545-2 HL3 (R22 & R23)
- NFPA 130
- UL 94 (V0)

### Weathering resistance:

- Very good UV resistance and weathering characteristics

### Colour:

- Black

### Chemical properties:

- Excellent resistance to fuels, mineral oil, fat, alkalies, common solvents, glycols, bases and weak acids

Please refer to [www.pma.ch](http://www.pma.ch)  
(Technical Information / Chemical Resistance)

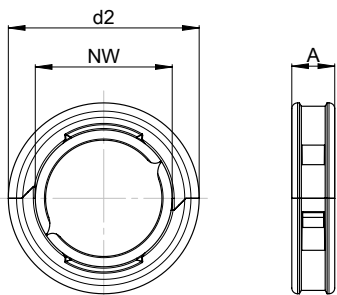
### Environmental properties:

- Free from halogens and cadmium
- RoHS and REACH compliant

**Product selection:**

Part no.	Conduit size	Dimensions in mm (nom.)		Weight	Packing unit
black	NW	d2	A	kg/100 pcs	pcs/PU
WPS-NW10	10	22.0	8.0	0.2	50
WPS-NW12	12	26.0	8.0	0.2	50
WPS-NW17	17	33.0	8.0	0.3	50
WPS-NW23	23	40.0	9.0	0.5	30
WPS-NW29	29	47.0	9.5	0.7	20
WPS-NW36	36	59.0	10.0	1.3	20
WPS-NW48	48	71.0	10.0	2.3	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 <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
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 <sup>2</sup> )
Toxicity	< 0.75 CIT <sub>NLP</sub>		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 <sup>2</sup> )
Toxicity	< 1.5 CIT <sub>NLP</sub>		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:

- Two-piece water impact protection

#### Assembly instructions:

- Please consider the appropriate assembly instructions on [www.pma.ch](http://www.pma.ch)

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