

TECHNICAL DATA SHEET

# PMAFIX IP68 - BVTR - T-Junction

**PMA**



IP68, polyamide T-junction for flexible non-metallic conduit



**Applications:**

- For cable protection systems in a wide range of applications

**Features & Benefits:**

- Very high impact resistance
- Vibration-proof connection to PMAFLEX Conduits
- Easy installation
- High conduit pull-out strength
- Can be easily re-opened with a screwdriver
- 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:**

- High-grade, specially formulated polyamide 6

**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)
- CSA C22.2 No. 227.3-05 (CSA file LL 88703)

**Weathering resistance:**

- Very good UV resistance and weathering characteristics, particularly in black

**Colour:**

- Black
- Grey

**Chemical properties:**

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

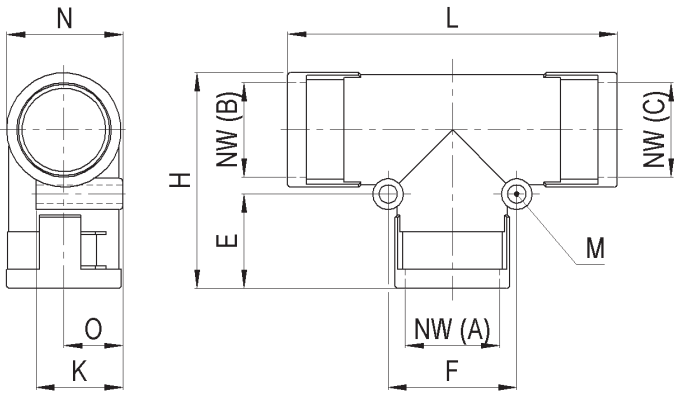
**Environmental properties:**

- Free from halogens and cadmium
- RoHS and REACH compliant

**Product selection:**

Part no.		Conduit size			Dimensions in mm (nom.)								Weight	Packing unit
black	grey	NW (A)	NW (B)	NW (C)	A	B	C	F	I	M	N	O	kg/100 pcs	pcs/PU
BVTR-101010	SVTR-101010	10	10	10	19.0	21.0	39.5	16.0	59.0	2xM4	21.0	10.5	1.5	20
BVTR-121212	SVTR-121212	12	12	12	22.5	26.5	47.5	18.5	71.5	2xM4	24.0	12.0	1.7	20
BVTR-171717	SVTR-171717	17	17	17	29.5	34.0	61.5	22.0	93.5	2xM5	30.0	15.0	3.2	20
BVTR-231717/01	SVTR-231717/01	23	17	17	32.0	42.5	65.0	37.0	95.0	2xM8	37.0	19.0	4.6	20
BVTR-232323	SVTR-232323	23	23	23	30.5	41.5	70.0	28.0	106.5	2xM5	37.5	22.5	5.5	20
BVTR-292929	SVTR-292929	29	29	29	31.5	48.0	77.5	32.5	111.0	2xM5	44.5	27.5	6.5	10
BVTR-363636	SVTR-363636	36	36	36	44.0	57.0	99.0	40.0	150.5	2xM6	54.5	33.5	12.8	5
BVTR-484848	SVTR-484848	48	48	48	43.0	71.0	111.5	47.5	163.0	2xM6	66.5	33.5	22.0	5

Our customer service dept. or local distribution partner will be pleased to help you concerning product availability and lead time



<b>Mechanical Properties:</b>	<b>Value:</b>	<b>Test parameters:</b>	<b>Test method:</b>
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

<b>Thermal properties:</b>	<b>Value:</b>	<b>Test parameters:</b>	<b>Test method:</b>
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

<b>Fire safety properties:</b>	<b>Value:</b>	<b>Test parameters:</b>	<b>Test method:</b>
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 7241

#### Content of delivery:

- T-junction with conduit locking clip (OVN2)
- Conduit gasket (NVN3)

#### Assembly instructions:

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

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