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 TECHNICAL DATA SHEET

# PMAFIX IP68 - BVIVG-U - Fitting

Straight, for MIL-C5015 connector with UN female thread

## PMA



IP68, polyamide fitting for flexible non-metallic conduit



### Applications:

- For cable protection systems in a wide range of applications

### Features & Benefits:

- Easy installation: simple push fit assembly
- Very high impact resistance
- Vibration-proof connection to PMA conduits
- 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
- MIL connector series C5015

### 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](http://www.pma.ch)  
(Technical Information / Chemical Resistance)

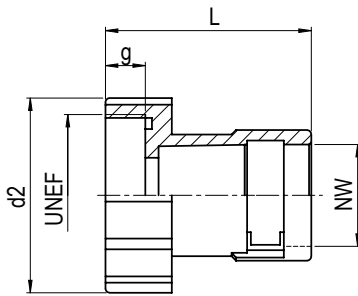
### Environmental properties:

- 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	d2		
black	UN	NW	MIL	g	L	d2	kg/100 pcs	pcs/PU
BVIVG-U152	5/8"-24UNEF	12	10	8.0	36.5	23.5	0.7	50
BVIVG-U187	3/4"-20UNEF	17	14	9.0	46.5	30.5	1.5	50
BVIVG-U210	7/8"-20UNEF	10	16	9.0	37.0	29.0	0.9	50
BVIVG-U212	7/8"-20UNEF	12	16	9.0	38.5	29.0	1.0	50
BVIVG-U217	7/8"-20UNEF	17	16	9.0	46.5	30.5	1.1	50
BVIVG-U242	1"-20UNEF	12	18	9.0	40.5	32.0	1.1	50
BVIVG-U243	1"-20UNEF	23	18	9.0	55.0	32.0	1.9	30
BVIVG-U247	1"-20UNEF	17	18	9.0	47.5	32.0	1.2	50
BVIVG-U292	1 3/16"-18UNEF	12	20	9.0	40.5	35.0	1.3	50
BVIVG-U293	1 3/16"-18UNEF	23	20	9.0	55.0	35.0	1.9	30
BVIVG-U297	1 3/16"-18UNEF	17	20	9.0	47.5	35.0	1.6	50
BVIVG-U299	1 3/16"-18UNEF	29	20	9.0	47.0	44.0	1.8	20
BVIVG-U349	1 3/8"-18UNEF	29	22	9.0	52.0	44.0	2.6	20
BVIVG-U352	1 7/16"-18UNEF	12	24	10.0	39.0	44.0	1.7	50
BVIVG-U353	1 7/16"-18UNEF	23	24	9.0	52.0	44.0	2.0	30
BVIVG-U356	1 7/16"-18UNEF	36	24	9.0	63.0	53.5	2.4	20
BVIVG-U357	1 7/16"-18UNEF	17	24	9.0	46.5	44.0	1.9	50
BVIVG-U359	1 7/16"-18UNEF	29	24	9.0	52.0	44.0	2.1	20
BVIVG-U433	1 3/4"-18UNS	23	32	10.0	52.0	53.0	2.5	30
BVIVG-U436	1 3/4"-18UNS	36	32	10.0	62.5	53.5	3.3	20
BVIVG-U437	1 3/4"-18UNS	17	32	10.0	46.5	53.0	2.3	50
BVIVG-U439	1 3/4"-18UNS	29	32	10.0	51.5	53.0	2.7	20
BVIVG-U503	2"-18UNS	23	36	10.0	51.5	58.0	2.7	30
BVIVG-U506	2"-18UNS	36	36	10.0	62.5	58.0	3.4	20
BVIVG-U508	2"-18UNS	48	36	10.0	64.5	66.0	4.5	10
BVIVG-U509	2"-18UNS	29	36	10.0	55.0	58.0	3.6	20
BVIVG-U563	2 1/4"-16UN	23	40	10.0	51.0	64.0	2.9	30
BVIVG-U566	2 1/4"-16UN	36	40	10.0	62.0	64.0	3.7	20
BVIVG-U568	2 1/4"-16UN	48	40	10.0	64.0	66.0	4.5	10
BVIVG-U569	2 1/4"-16UN	29	40	10.0	51.0	64.0	2.8	20
BVIVG-U628	2 1/2"-16UN	48	-	10.0	64.0	72.0	4.9	10

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:

- Fitting with conduit locking clip (OVN2)
- conduit gasket (NVN3),
- O-ring (OR)

#### Assembly instructions:

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

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