TECHNICAL DATA SHEET

EMCFIX - BVEMV-P - Fitting

Straight, IP68, PG metal thread

Applications:
- For EMC sensitive applications in railway vehicle and machine building industry

Features & Benefits:
- Very high impact resistance
- Vibration-proof connection to PMA conduits
- High shielding values and low coupling resistance, low transfer impedances
- 360° braid termination: high degree of safety in case of short-circuiting
- Can be preassembled in cable harness systems
- Self-extinguishing
- Fits both conduit profiles - fine (T) and coarse (G)

Ingress protection fitting & conduit connection:
- IP66, IP68 & IP69 (EN/IEC 60529)
- IP69, 100 bar with Water impact protection (WPS-ring)

Materials:
- High-grade, specially formulated polyamide 6
- EMC adapter made from nickel-plated aluminium

Compatible with:
- PMAFLEX, PMAFLEX Pro, PMA Smart Line
- PMA screening braids
- Shielded cables

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

Colour:
- Black

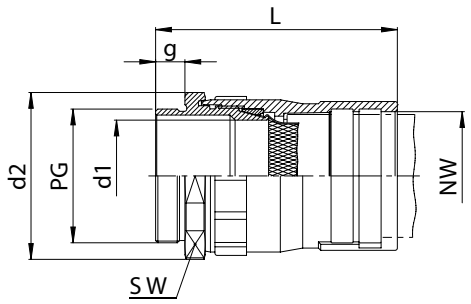
Chemical properties:
- Please refer to www.pma.ch

Environmental properties:
- Free from halogens and cadmium
- RoHS and REACH compliant

Product selection:

Part no.	Thread size	Conduit size	fits to metal braid			Dimensions in mm (nom.)				Weight	Packing unit
black	PG	NW	F.CK	F.CU	F.HY	g	L	d1	d2	kg/100 pcs	pcs/PU
BVEMV-P090	9	10	10	10	*	11.0	75.0	9.0	27.0	3.0	1
BVEMV-P112	11	12	12.5	12	12	11.0	78.0	11.0	30.0	4.1	1
BVEMV-P137	13	17	15	20	15	11.0	87.0	15.0	34.0	5.3	1
BVEMV-P167	16	17	15	20	15	11.0	87.0	15.0	34.0	5.3	1
BVEMV-P213	21	23	20 / (25)	20	20	12.0	95.0	23.0	43.0	7.7	1
BVEMV-P299	29	29	25 / (30)	20 / (40)	35	12.0	95.0	30.0	49.0	9.8	1
BVEMV-P366	36	36	30 / (35)	40	40	13.0	104.0	38.0	58.0	10.1	1
BVEMV-P488	48	48	35	40	40	15.0	110.0	49.0	74.0	11.9	1

Our customer service dept. or local distribution partner will be pleased to help you concerning product availability and lead time.
*on request ( ) possible alternative



Mechanical Properties:	Value:	Test parameters:	Test method:
Tensile modulus	1‘200 ... 3‘700 N/mm²		ISO 527
Tensile strength	45 ... 65 N/mm²		ISO 527
Notched bar impact test	4 ... 20 kJ/m²		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	(20'000h)	PMA DO 9.21-4360
Short-term	+160°C	(168h)	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/m2)
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/m2)
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

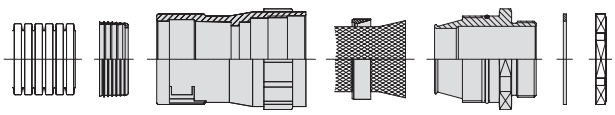
Note: Fire safety properties only applicable for PMA Fitting body

Content of delivery:

- Fitting with conduit locking clip (OVN2)
- EMV adapter, cone ring
- Conduit seal (NVN3)
- Thread gasket (SVN4)
- O-ring (OR)

Assembly instructions:

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



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