

TECHNICAL DATA SHEET

PMA Accessories - BGN - Half-Shell Inserts

Strain relief half-shell Inserts

PMA



Strain Relief Half-Shell Inserts for axial fixation of conduits for dynamic systems



Applications:

- Fixation of PMA conduits in conjunction with system supports, particularly in traction and machine applications

Features & Benefits:

- Easy installation
- Provide axial strain relief for conduits but allowing rotation
- Especially suitable for dynamic applications
- Flexible combination with system blocks
- Variety of fixation possibilities
- Excellent impact strength

Materials:

- High-grade, specially formulated polyamide 6

Compatible with:

- PMAFLEX Pro Conduits
- PMAFLEX Multilayer Conduits
- PMAFLEX Conduits
- PMA Smart Line Conduits

Weathering resistance:

- Very good UV resistance and weathering characteristics

Colour:

- Black

Chemical properties:

- Please refer to www.pma.ch (Technical Information / Chemical Resistance)

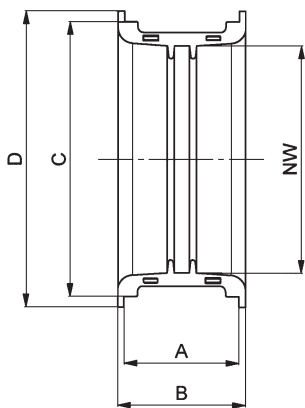
Environmental properties:

- Free from halogens and cadmium
- RoHS and REACH compliant

Product selection:

Part no.	Conduit size	Dimensions in mm (nom.)				Weight	Packing unit
		A	B	C	D		
black	NW					kg/100 pcs	pcs/PU
BGN-S12T	12	26.0	34.0	22.0	26.5	0.7	50
BGN-S17T	17	26.0	34.0	27.5	32.0	0.9	50
BGN-S23T	23	26.0	34.0	34.5	39.5	1.3	30
BGN-S29T	29	26.0	34.0	41.0	47.0	1.5	30
BGN-S36T	36	26.0	36.5	49.0	55.0	1.9	20
BGN-S48T	48	26.0	34.0	60.5	66.5	2.3	20
BGN-S17G	17	26.0	34.0	27.5	32.0	0.9	50
BGN-S23G	23	26.0	34.0	34.5	39.5	1.3	30
BGN-S29G	29	26.0	34.0	41.0	47.0	1.5	30
BGN-S36G	36	26.0	34.0	49.0	55.0	1.9	20
BGN-S48G	48	26.0	34.0	60.5	66.5	2.3	20
BGN-S70G	70	30.0	38.0	87.5	93.5	4.1	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 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:

- 1 pair half-shells

Assembly instructions:

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

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