

TECHNICAL DATA SHEET

PMA Accessories - BKN-M - Lock nut

Hexagonal, anti-abrasion, metric thread

PMA

Anti-abrasion lock nut to avoid sharp bends and/or abrasion of cables

**Applications:**

- Enlarged internal outlet radius to avoid sharp bends and/or abrasion of cables particularly in applications with increased mechanical requirements such as railway engineering

Features & Benefits:

- Simple application and installation
- For use in addition to and not instead of a fixing nut
- Excellent chafing characteristics
- Very good chemical properties

Materials:

- High-grade, specially formulated polyamide 6

Compatible with:

- PMAFIX Pro, PMAFIX, PMA Smart Line fittings

Conforms to:

- Metric thread according to ISO 228/I, DIN 259 Bl.2-11

Colour:

- Black

Chemical properties:

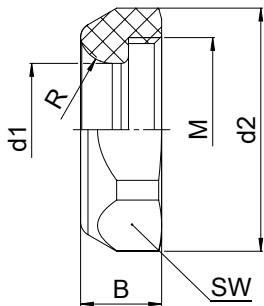
- Please refer to www.pma.ch
(Technical Information / Chemical Resistance)

Environmental properties:

- Free from halogens and cadmium
- RoHS and REACH compliant

Product selection:									
Part no.	Thread size	Dimensions in mm (nom.)						Weight	Packing unit
black	metric	g	d1	d2	SW	B	R	kg/100 pcs	pcs/PU
BKN-M16	M16x1.5	4.5	9.4	21.0	19.0	10.5	4.5	0.2	50
BKN-M20	M20x1.5	4.5	13.5	26.0	24.0	10.5	4.5	0.3	50
BKN-M25	M25x1.5	4.5	18.0	33.0	30.0	11.0	4.5	0.5	30
BKN-M32	M32x1.5	5	24.0	39.0	36.0	12.0	5	0.7	20
BKN-M40	M40x1.5	5	32.0	50.0	46.0	12.5	5.5	1.1	20

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 7241

Content of delivery:

- Anti-abrasion lock nut with enlarged internal radius

Assembly instructions:

- Fixation of the fitting should be ensured in a threaded hole or with lock nut. This part is intended to be used in addition to a fixing thread and not as a replacement for one. We recommend the use of a commercial thread locking compound e.g. Loctite) for permanent protection against vibrations.

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