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 TECHNICAL DATA SHEET

# PMA Automation - BTK - Ball joint sleeve

## PMA


**Applications:**

- This ball joint sleeve is used in BSH tube clamps for gliding and guiding PMA conduits

**Features & Benefits:**

- Increased degree of freedom for cable packs
- The ball joint offers additional flexibility and reduces mechanical stress on the conduit
- Can be used with strain relief insert TR to fix the conduit in axial direction
- Easy to install and exchange

**Materials:**

- High-grade, specially formulated polyamide 6

**Compatible with:**

- PMA Automation BSH Tube clamp
- PMAFLEX Pro Conduits
- PMAFLEX Multilayer Conduits
- PMAFLEX Conduits

**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)

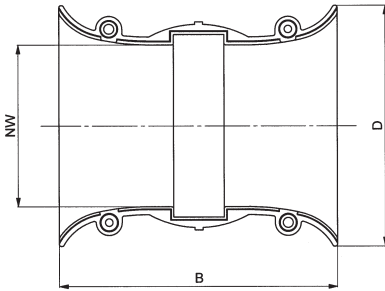
**Environmental properties:**

- Free from halogens and cadmium
- RoHS and REACH compliant

**Product selection:**

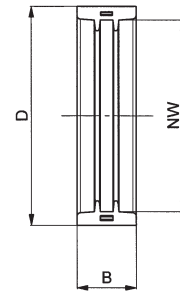
Part no.	Conduit size	Dimensions in mm (nom.)			Weight	Packing unit
function: glide      function: strain relief	NW	B	D	PT screws	kg/100 pcs	pcs/PU
-                      BTK-R70 + BTR-R70G + BGN-R56G/70G	56	138.5	121.0	KA 50x20	25.5	1
BTK-R70              BTK-R70 + BTR-R70G	70	138.5	121.0	KA 50x20	22.1	1

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

**Product selection:**

Part no.	Conduit size	Dimensions in mm (nom.)		Weight	Packing unit
function: glide	NW	B	D	kg/100 pcs	pcs/PU
BTR-R70G	70	24.5	91.0	4.2	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 <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

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

**Content of delivery:**

- Depending on the combination

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