
 TECHNICAL DATA SHEET

PMA Automation - BGN - Half-shell inserts

PMA


Applications:

- In automation applications

Features & Benefits:

- Easy installation
- To be used in combination with tube clamp BSH
- Slide half-shells allow axial movement of the conduit to reduce stress
- Strain relief half-shells fix the conduit against axial movement but allow rotation to prevent torsion
- Half-shell reduction BGN-R56G/70 allows the use of conduit with NW56 and can be used with following products:
 - ball joint sleeve TK with strain relief insert BTR
 - ball joint termination BKE

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 (Technical Information / Chemical Resistance)

Environmental properties:

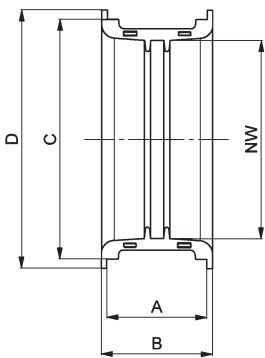
- Free from halogens and cadmium
- RoHS and REACH compliant

Product selection:

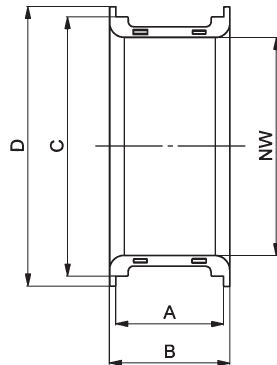
| Part no. | | | Conduit profile | Conduit size | Dimensions in mm (nom.) | | | | Weight kg/100 pcs | Packing unit pcs/PU |
|---------------|-------------|--------------|-----------------|--------------|-------------------------|----|------|-------|----------------------|------------------------|
| strain relief | slide | reduction | | | A | B | C | D | | |
| BGN-S23T | | | T | 23 | 26 | 34 | 34.5 | 39.5 | 1.3 | 30 |
| BGN-S23G | | | G | 23 | 26 | 34 | 34.5 | 39.5 | 1.3 | 30 |
| BGN-S29GT | | | T + G | 29 | 26 | 34 | 41 | 47 | 1.5 | 30 |
| | BGN-R29 | | T + G | 29 | 26 | 34 | 41 | 47 | 1.5 | 30 |
| BGN-R36GT/48 | BGN-R36/48 | | T + G | 36 | 26.5 | 34 | 60 | 66.5 | 3.5 | 20 |
| BGN-S36GT | | | T + G | 36 | 26 | 34 | 49 | 55 | 1.9 | 20 |
| | BGN-R36 | | T + G | 36 | 26 | 34 | 49 | 55 | 2 | 20 |
| BGN-S48T | | | T | 48 | 26 | 34 | 60.5 | 66.5 | 2.3 | 20 |
| BGN-S48G | | | G | 48 | 26 | 34 | 60.5 | 66.5 | 2.3 | 20 |
| | BGN-R48 | | T + G | 48 | 26 | 34 | 60.5 | 66.5 | 2.3 | 20 |
| BGN-S56G | BGN-R56 | | G | 56 | 30 | 38 | 75 | 81 | 3.8 | 10 |
| BGN-R56G/70 | | | G | 56 | 40 | 45 | 94.5 | 103.5 | 10.2 | 10 |
| | BGN-R56S/70 | | G | 56 | 40 | 45 | 94.5 | 103.5 | 10.2 | 10 |
| | | BGN-R56G/70G | G | 56 | 27 | 35 | 76 | 80 | 10.2 | 10 |
| BGN-R70G | BGN-R70 | | G | 70 | 40 | 45 | 94.5 | 103.5 | 7.5 | 10 |

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

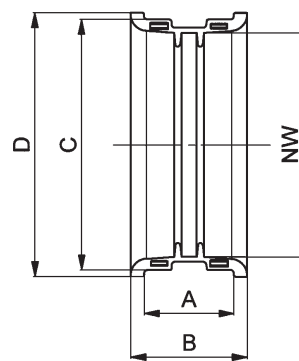
Strain relief



Slide



Reduction



| 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 |

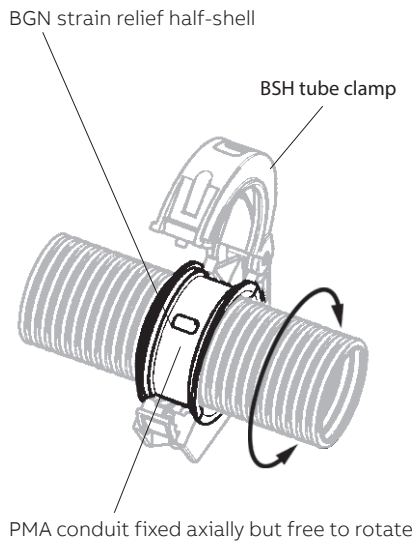
| Thermal properties: | Value: | Test parameters: | Test method: |
|------------------------------------|----------------|------------------|------------------|
| Continuous application temperature | -50 ... +105°C | | PMA DO 9.21-4510 |
| Upper application temperature | +120°C | (20'000 h) | PMA DO 9.21-4360 |
| Short-term | +160°C | (168 h) | PMA DO 9.21-4360 |

Content of delivery:

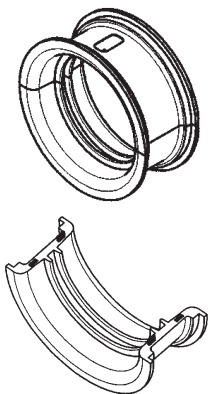
- 1 pair half-shells

Examples for combination possibilities

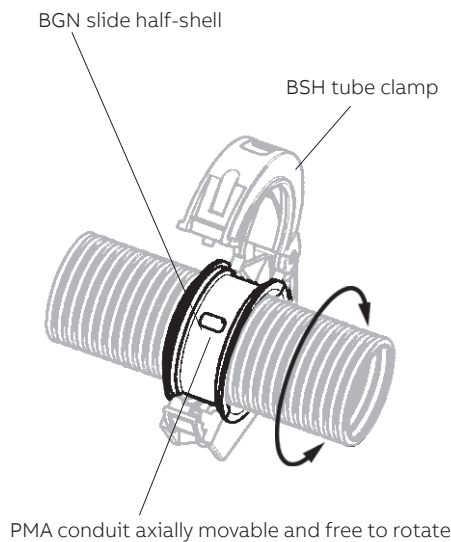
Strain relief half-shell



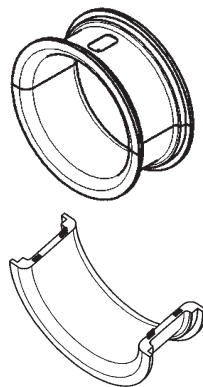
BGN-xxxG, BGN-xxxT



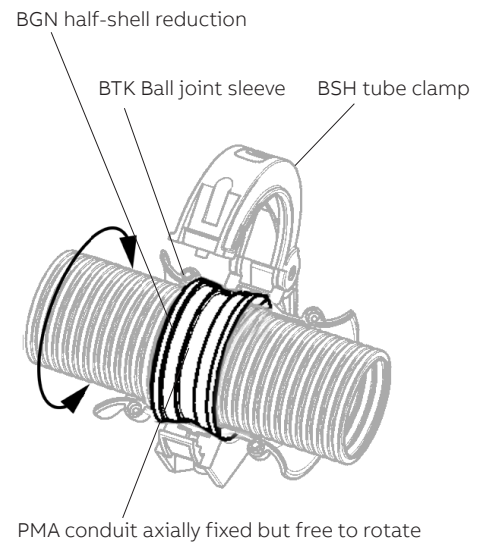
Slide half-shell



BGN-Rxx



Half-shell reduction



BGN-R56G/70G

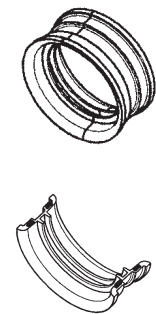


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