

Installation equipment and accessories



Cable gland

With reduction sealing insert

8161/7-M63-4828 Art. No. 239161



- For safely running cables into Ex e and Ex i areas
- Can be used in a temperature range from -60 to +75 °C, degree of protection IP68
- Available in Ex e and Ex i versions; the Ex i version is identified by a blue cap nut
- Cable dia. ranges from 1 to 48 mm
- Versions with multi-seal inserts

MY R. STAHL 8161B



R. STAHL's Series 8161/7 and 8161/8 cable glands can be used to safely run cables into Ex e enclosures. They are suitable for cable diameters between 1 and 48 mm. They are available for Ex e and Ex i electrical circuits – the Ex i version can be distinguished by its blue cap nut. A stopping plug for unused entries can be integrated into the entries.

Technical Data

Explosion Protection

| | |
|---------------------------------|--|
| Ex version | Ex e |
| Application range (zones) | 1, 2, 21, 22 |
| IECEX gas certificate | IECEX PTB 14.0011 X |
| IECEX gas explosion protection | Ex eb IIC Gb |
| IECEX dust certificate | IECEX PTB 14.0011 X |
| IECEX dust explosion protection | Ex tb IIIC Db |
| ATEX gas certificate | PTB 14 ATEX 1008 X |
| ATEX gas explosion protection | ⊕ II 2 G Ex eb IIC Gb |
| ATEX dust certificate | PTB 14 ATEX 1008 X |
| ATEX dust explosion protection | ⊕ II 2 D Ex tb IIIC Db |
| Certificates | ATEX (PTB), Brazil (ULB), IECEX (PTB), Korea (KGS) |
| Declaration of conformity | ATEX (EUK) |

Ambient Conditions

| | |
|----------------------|-------------------|
| Ambient temperature | -40 °C ... +75 °C |
| Use at the height of | < 2000 m |

Mechanical Data

| | |
|---------------------------|---|
| Strain relief | No |
| Degree of protection (IP) | IP66 |
| Degree of protection note | IP68 at 5 bar 30 min. (IP protection according to IEC/EN 60529) |
| Sealing material | EPDM profile seal |
| Sealing ring material | EPDM |
| Material | Polyamide, Glass fibre reinforced |
| Silicone-free | Yes |
| Self-extinguishing | Yes |
| Flame-retardant | Yes |
| Halogen-free | Yes |
| Surface resistance | $\leq 10^{13} \Omega$ |

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Mechanical Data

| | |
|-----------------------------|------------------------|
| Clamping range | 28 – 48 mm |
| Armouring type | Unarmoured cable types |
| Clamping range | 28 ... 48 mm |
| Total length | 64 to 78 mm |
| Dimension d1 | 75 mm |
| Dimension d2 | 48.3 mm |
| Dimension d4 | 53 mm |
| Width across corners | 75 mm |
| Width across flats | 68 mm |
| Thread size | M63 |
| Thread length | 15 mm |
| Thread pitch | 1,5 mm |
| Impact strength (IEC 60079) | 7 J |
| Impact strength | 7 J |
| Colour | Black |
| Lot size | 1 |
| Weight | 155 g |
| Weight | 0.34 lb |

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



M = Thread size
 SW = Width across flats
 L1 = Thread length
 L = Total length

Cable glands without bend protection

| Thread size | Width across flats | Total length | Total length (with long thread) | Thread length | Thread length (long thread) | Clamping range | Clamping range + reduction sealing insert | Di-men-sion d1 | Di-men-sion d2 | Di-men-sion d4 |
|-------------|--------------------|--------------|---------------------------------|---------------|-----------------------------|----------------|---|----------------|----------------|----------------|
| M12 | 16.00 mm | 29 to 34 mm | 35 to 40 mm | 9 mm | 15 mm | 3 - 6 mm | 1 - 6 mm | 18 mm | 7.3 mm | 6.3 mm |
| M16 | 20.00 mm | 31 to 37 mm | 37 to 43 mm | 9 mm | 15 mm | 5 - 9 mm | 2 - 9 mm | 22 mm | 10.3 mm | 9.3 mm |
| M20 | 24.00 mm | 36 to 43 mm | 41 to 48 mm | 10 mm | 15 mm | 7 - 13 mm | 4 - 13 mm | 27 mm | 13.3 mm | 13.3 mm |
| M25 | 29.00 mm | 38 to 46 mm | 43 to 51 mm | 10 mm | 15 mm | 10 - 17 mm | 7 - 17 mm | 32 mm | 17.3 mm | 17.3 mm |
| M32 | 36.00 mm | 42 to 50 mm | 45 to 53 mm | 12 mm | 15 mm | 13 - 21 mm | 9 - 21 mm | 40 mm | 21.3 mm | 21.3 mm |
| M40 | 46.00 mm | 52 to 65 mm | 58 to 71 mm | 12 mm | 18 mm | 17 - 28 mm | 12 - 28 mm | 51 mm | 28.3 mm | 30 mm |

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| | | | | | | | | | | |
|-----|-------------|----------------|----------------|-------|-------|------------|------------|-------|------------|----------|
| M50 | 55.00 mm | 59 to 72 mm | 63 to 76 mm | 14 mm | 18 mm | 23 - 35 mm | 16 - 35 mm | 61 mm | 35.3 mm | 40 mm |
| M63 | 68.00 mm | 64 to 78 mm | 67 to 81 mm | 15 mm | 18 mm | 34 - 48 mm | 28 - 48 mm | 75 mm | 48.3 mm | 53 mm |

Accessories

Jam nut, nickel-plated brass


Art. No.

| | | |
|--|--|--------|
|  | Material: Nickel-plated brass Lot size: 10 Thread size: M63 | 241565 |
|--|--|--------|

Jam nut, plastic (-40 to +75 °C)

For mounting the cable entries in through holes

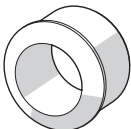
Art. No.

| | | |
|--|--|--------|
|  | Material: Polyamide Lot size: 10 Thread size: M63 | 239467 |
|--|--|--------|

Reduction sealing insert, silicone (-60 to +75 °C)

For low temperatures

Art. No.

| | | |
|--|--|--------|
|  | Connection thread: M63 x 1.5 Lot size: 10 Cable dia. range: 28 to 38 mm | 239459 |
|--|--|--------|

Plug (-60 to +75 °C; depending on the cable gland used)

For sealing unused cable glands

Material: Polyamide

Art. No.

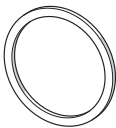
| | | |
|--|------------------------------|--------|
|  | Diameter: 35 mm Lot size: 10 | 240060 |
| | Diameter: 48 mm Lot size: 10 | 240062 |

Spare Parts

Flat seal (standard), EPDM (-40 to +75 °C)

Replacement seals for cable glands

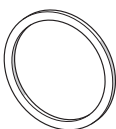
Art. No.

| | | |
|--|---|--------|
|  | For cable glands 8161/-M63-48 Lot size: 100 Connection thread: M63 | 222376 |
| | For cable glands 8161/-M63-48 Lot size: 50 Connection thread: M63 | 222369 |

Silicone flat seal (-60 to +75 °C)

Replacement seals for low temperatures

Art. No.

| | | |
|--|---|--------|
|  | For cable glands 8161/-M63-48 Lot size: 100 Connection thread: M63 | 240254 |
|--|---|--------|

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