

Installation equipment and accessories

Cable gland For low temperature



8161/8-M50-3523-LT Art. No. 239216



- 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 i |
| 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 | -60 °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 | SI profile seal |
| Sealing ring material | SI |
| Material | Polyamide |
| Material 2 | Glass fibre reinforced |
| Silicone-free | No |

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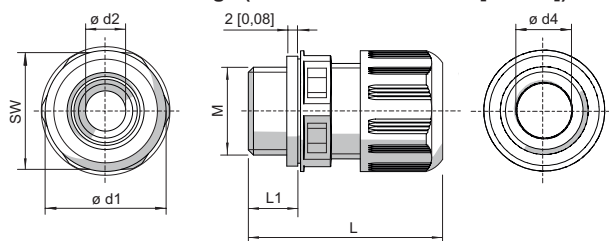


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Mechanical Data

| | |
|-----------------------------|------------------------|
| Self-extinguishing | Yes |
| Flame-retardant | Yes |
| Halogen-free | Yes |
| Surface resistance | $\leq 10^{13} \Omega$ |
| Clamping range | 23-35 mm |
| Armouring type | Unarmoured cable types |
| Clamping range | 23 ... 35 mm |
| Total length | 59 to 72 mm |
| Dimension d1 | 61 mm |
| Dimension d2 | 35.3 mm |
| Dimension d4 | 40 mm |
| Width across corners | 61 mm |
| Width across flats | 55 mm |
| Thread size | M50 |
| Thread length | 14 mm |
| Thread pitch | 1,5 mm |
| Impact strength (IEC 60079) | 4 J |
| Impact strength | 7 J |
| Colour | Blue |
| Lot size | 4 |
| Weight | 107 g |
| Weight | 0.24 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-mension d1 | Di-mension d2 | Di-mension 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 |

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| | | | | | | | | | | |
|-----|-------------|----------------|----------------|-------|-------|----------|----------|-------|------------|------------|
| 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 |
| 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 (-60 to +75 °C)

For mounting the cable entries in through holes

Art. No.

| | | | |
|--|---|--------------|--------|
|  | Material: Nickel-plated brass Thread size: M50 | Lot size: 25 | 241564 |
|--|---|--------------|--------|

Jam nut, plastic (-40 to +75 °C)

For mounting the cable entries in through holes

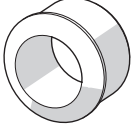
Art. No.

| | | | |
|---|---|--------------|--------|
|  | Material: Polyamide Thread size: M50 | Lot size: 25 | 239466 |
|---|---|--------------|--------|

Reduction sealing insert (standard), EPDM (-40 to +75 °C)

For cable glands

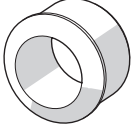
Art. No.

| | | | |
|--|---|----------------|--------|
|  | Connection thread: M50 x 1.5 Clamping range: 16 to 25 mm | Batch size: 10 | 239450 |
|--|---|----------------|--------|

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

For low temperatures

Art. No.

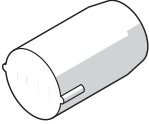
| | | | |
|--|---|--------------|--------|
|  | Connection thread: M50 x 1.5 Cable dia. range: 16 to 25 mm | Lot size: 10 | 239458 |
|--|---|--------------|--------|

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

For sealing unused cable glands

Material: Polyamide

Art. No.

| | | | |
|--|-----------------|--------------|--------|
|  | Diameter: 25 mm | Lot size: 25 | 240058 |
| | Diameter: 35 mm | Lot size: 10 | 240060 |

Spare Parts

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

Replacement seals for cable glands

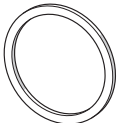
Art. No.

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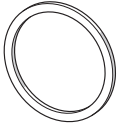
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| | | |
|--|--|--------|
|  | For cable glands 8161/.-M50-35 Lot size: 100 Connection thread: M50 | 222375 |
| | For cable glands 8161/.-M50-35 Lot size: 50 Connection thread: M50 | 222368 |

Silicone flat seal (-60 to +75 °C)

Replacement seals for low temperatures

Art. No.

| | | |
|--|--|--------|
|  | For cable glands 8161/.-M50-35 Lot size: 100 Connection thread: M50 | 240253 |
|--|--|--------|

We reserve the right to make alterations to the technical data, dimensions, weights, designs and products available without notice. The illustrations cannot be considered binding.