

# Installation equipment and accessories

STAHL

## Cable gland

With reduction sealing insert

8161/8-M20-1304 Art. No. 239164



- 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), China (NEPSI), IECEX (PTB), Korea (KGS) |
| Declaration of conformity       | ATEX (EUK), China (CCC)                                           |

### 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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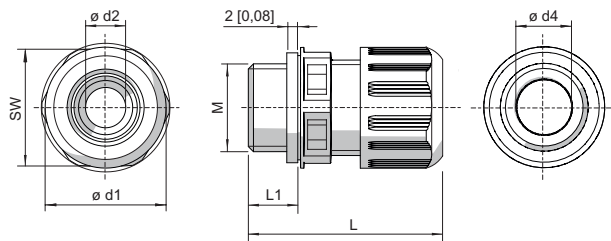
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#### Mechanical Data

|                             |                        |
|-----------------------------|------------------------|
| Clamping range              | 4 – 13 mm              |
| Armouring type              | Unarmoured cable types |
| Clamping range              | 4 ... 13 mm            |
| Dimension d1                | 27 mm                  |
| Dimension d2                | 13.3 mm                |
| Dimension d4                | 13.3 mm                |
| Width across corners        | 27 mm                  |
| Width across flats          | 24 mm                  |
| Thread size                 | M20                    |
| Thread length               | 10 mm                  |
| Thread pitch                | 1,5 mm                 |
| Impact strength (IEC 60079) | 7 J                    |
| Colour                      | Blue                   |
| Total length                | 36 to 43 mm            |
| Lot size                    | 50                     |
| Weight                      | 10 g                   |
| Weight                      | 0.02 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 + 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                       | 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                       | 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                       | 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                       | 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                       | 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                       | 12 - 28 mm                                | 51 mm          | 28.3 mm        | 30 mm          |

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

## Accessories

### Jam nut, nickel-plated brass

**Art. No.**

Material: Nickel-plated brass Lot size: 100  
Thread size: M20

241520

### Jam nut, plastic (-40 to +75 °C)

For mounting the cable entries in through holes

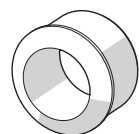
**Art. No.**

Material: Polyamide Lot size: 100  
Thread size: M20

239462

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

For cable glands

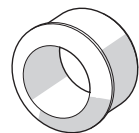
**Art. No.**

Connection thread: M20 x 1.5 Batch size: 50  
Clamping range: 4 to 8 mm

239446

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

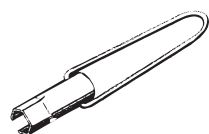
For low temperatures

**Art. No.**

Connection thread: M20 x 1.5 Lot size: 50  
Cable dia. range: 4 to 8 mm

239454

### Special key

**Art. No.**

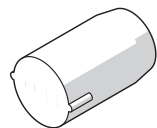
Thread size: M20 Packaging unit: 1

114208

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

For sealing unused cable glands

Material: Polyamide

**Art. No.**

Diameter: 8 mm Lot size: 50

240048

Diameter: 12 mm Lot size: 50

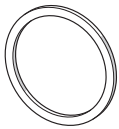
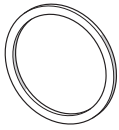
240049

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Spare Parts

| Flat seal (standard), EPDM (-40 to +75 °C)                                       |                                                                           |  | Art. No. |
|----------------------------------------------------------------------------------|---------------------------------------------------------------------------|--|----------|
| Replacement seals for cable glands                                               |                                                                           |  |          |
|  | For cable glands 8161/.-M20-13    Lot size: 100<br>Connection thread: M20 |  | 222371   |
|                                                                                  | For cable glands 8161/.-M20-13    Lot size: 50<br>Connection thread: M20  |  | 222364   |
| Silicone flat seal (-60 to +75 °C)                                               |                                                                           |  | Art. No. |
| Replacement seals for low temperatures                                           |                                                                           |  |          |
|  | For cable glands 8161/.-M20-13    Lot size: 100<br>Connection thread: M20 |  | 240249   |

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.