

8161/7-M63-4834-LT Art. No. 239209



- For safe cable entry in Ex e and Ex i areas
- Can be used at temperatures of between -60 ... +75 °C, degree of protection IP68
- Available in Ex e and Ex i versions (Ex i version distinguished by its blue cap nut)
- Suitable for cable diameters from 1 ... 48 mm
- Versions with multi-seal inserts

WebCode **8161B**



R. STAHL's 8161/7 and 8161/8 series cable entries can be used to safely run cables into Ex e enclosures. They are suitable for cables between 1 and 48 mm in diameter. They are available for Ex e and Ex i circuits – the Ex i version can be distinguished by its blue cap nut. An integrated stopping plug can be used to seal any cable entries that are not being used.

### Technical Data

#### Explosion Protection

|                                 |                                                               |
|---------------------------------|---------------------------------------------------------------|
| Application range (zones)       | 1<br>2<br>21<br>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   | Ex II 2 G Ex eb IIC Gb                                        |
| ATEX dust certificate           | PTB 14 ATEX 1008 X                                            |
| ATEX dust explosion protection  | Ex II 2 D Ex tb IIIC Db                                       |
| EAC certificate                 | TS RU S-DE.AA71.B.00083                                       |
| EAC gas explosion protection    | Ex 1 Ex e II Gb X                                             |
| EAC dust explosion protection   | Ex tb IIIC Db X                                               |
| Certificates                    | ATEX (PTB), Brazil (ULB), EAC (LPE), IECEX (PTB), Korea (KGS) |

#### Electrical Data

|            |      |
|------------|------|
| Ex version | Ex e |
|------------|------|

#### Ambient Conditions

|                      |                   |
|----------------------|-------------------|
| Ambient temperature  | -60 °C ... +75 °C |
| Use at the height of | < 2000 m          |

#### Mechanical Data

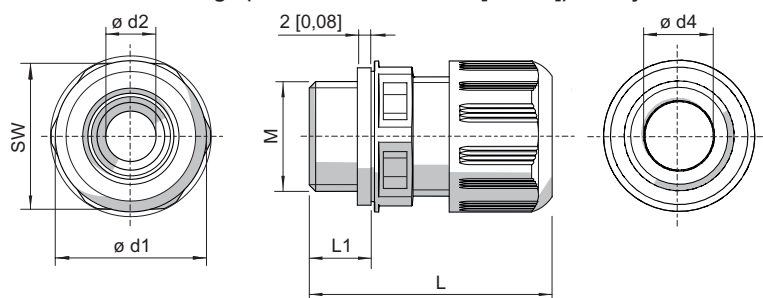
|                           |                                                                 |
|---------------------------|-----------------------------------------------------------------|
| Degree of protection (IP) | IP66                                                            |
| Degree of protection note | IP68 at 5 bar 30 min. (IP protection according to IEC/EN 60529) |
| Sealing material          | SI profile seal                                                 |
| Material sealing ring     | SI                                                              |
| Material                  | Polyamide                                                       |

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### Mechanical Data

|                      |                        |
|----------------------|------------------------|
| Material 2           | Glass fibre reinforced |
| Silicone-free        | No                     |
| Self-extinguishing   | Yes                    |
| Flame retardant      | Yes                    |
| Halogen-free         | Yes                    |
| Surface resistance   | $\leq 10^{13} \Omega$  |
| Clamping range       | 34 – 48 mm             |
| Clamping range max.  | 48 mm                  |
| Clamping range min.  | 34 mm                  |
| Armouring type       | Unarmoured cable types |
| Dimension L          | 64 ... 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      | 4 J                    |
| Impact strength      | 7 J                    |
| Colour               | Black                  |
| Lot size             | 1                      |
| Weight               | 0.155 kg               |
| 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 = Dimension L

### Cable glands without bend protection

| Thread size | Width across flats | Dimension L  | Dimension L (with long thread) | Thread length | Thread length (long thread) | Clamping range | Clamping range + reduction sealing insert | Dimension d1 | Dimension d2 | Dimension d4 |
|-------------|--------------------|--------------|--------------------------------|---------------|-----------------------------|----------------|-------------------------------------------|--------------|--------------|--------------|
| M12         | 16,00 mm           | 29 ... 34 mm | 35 ... 40 mm                   | 9.000 mm      | 15.000 mm                   | 3.00 - 6.00 mm | 1.00 - 6.00 mm                            | 18 mm        | 7.3 mm       | 6.3 mm       |

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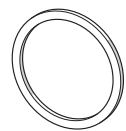
|     |             |                 |                 |              |              |                     |                     |       |            |            |
|-----|-------------|-----------------|-----------------|--------------|--------------|---------------------|---------------------|-------|------------|------------|
| M16 | 20.00<br>mm | 31 ... 37<br>mm | 37 ... 43<br>mm | 9.000<br>mm  | 15.000<br>mm | 5.00 - 9.00<br>mm   | 2.00 - 9.00<br>mm   | 22 mm | 10.3<br>mm | 9.3<br>mm  |
| M20 | 24.00<br>mm | 36 ... 43<br>mm | 41 ... 48<br>mm | 10.000<br>mm | 15.000<br>mm | 7.00 -<br>13.00 mm  | 4.00 -<br>13.00 mm  | 27 mm | 13.3<br>mm | 13.3<br>mm |
| M25 | 29.00<br>mm | 38 ... 46<br>mm | 43 ... 51<br>mm | 10.000<br>mm | 15.000<br>mm | 10.00 -<br>17.00 mm | 7.00 -<br>17.00 mm  | 32 mm | 17.3<br>mm | 17.3<br>mm |
| M32 | 36.00<br>mm | 42 ... 50<br>mm | 45 ... 53<br>mm | 12.000<br>mm | 15.000<br>mm | 13.00 -<br>21.00 mm | 9.00 -<br>21.00 mm  | 40 mm | 21.3<br>mm | 21.3<br>mm |
| M40 | 46.00<br>mm | 52 ... 65<br>mm | 58 ... 71<br>mm | 12.000<br>mm | 18.000<br>mm | 17.00 -<br>28.00 mm | 12.00 -<br>28.00 mm | 51 mm | 28.3<br>mm | 30<br>mm   |
| M50 | 55.00<br>mm | 59 ... 72<br>mm | 63 ... 76<br>mm | 14.000<br>mm | 18.000<br>mm | 23.00 -<br>35.00 mm | 16.00 -<br>35.00 mm | 61 mm | 35.3<br>mm | 40<br>mm   |
| M63 | 68.00<br>mm | 64 ... 78<br>mm | 67 ... 81<br>mm | 15.000<br>mm | 18.000<br>mm | 34.00 -<br>48.00 mm | 28.00 -<br>48.00 mm | 75 mm | 48.3<br>mm | 53<br>mm   |

### Accessories and Spare Parts

#### Flat gasket (standard), EPDM (-40 ... +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

#### Locknut, brass nickel-plated (-60 ... +75 °C)

##### To fasten the cable glands in through holes

Art. No.



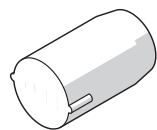
Material: Nickel-plated brass Lot size: 10  
Thread size: M63

241565

#### Plug (-60 ... +75 °C)

##### For closing unused cable glands

Art. No.



Thread size without reduction sealing insert: M50 Lot size: 10  
Thread size with reduction sealing insert: M63  
Diameter: 35 mm  
Material: Polyamide

240060

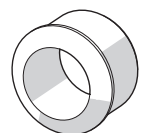
Thread size without reduction sealing insert: M63 Lot size: 10  
Diameter: 48 mm  
Material: Polyamide

240062

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

##### For cable glands

Art. No.



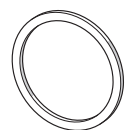
Connection thread: M63 x 1.5 Lot size: 50  
Clamping range: 28 – 38 mm

239451

#### Flat gasket silicone (-60 ... +75°C)

##### Replacement seals for low temperature

Art. No.



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

240254

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### Locknut, plastic (-40 ... +75 °C)

To fasten the cable glands in through holes

Art. No.



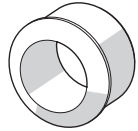
Material: Polyamide Lot size: 10  
Thread size: M63

239467

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

For low temperature

Art. No.



Connection thread: M63 x 1.5 Lot size: 50  
Clamping range: 28 – 38 mm

239459

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.