

Cable gland

Without reduction sealing insert

8161/8-M50-3523 Art. No. 239184



- 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 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 | 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 i |
|------------|------|

Ambient Conditions

| | |
|----------------------|-------------------|
| Ambient temperature | -40 °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 | EPDM profile seal |
| Material sealing ring | EPDM |
| Material | Polyamide |

Installation Equipment and Accessories



Cable gland

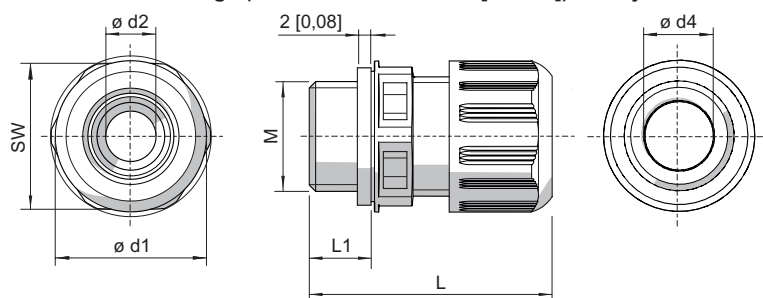
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Mechanical Data

| | |
|----------------------|------------------------|
| Material 2 | Glass fibre reinforced |
| Silicone-free | Yes |
| Self-extinguishing | Yes |
| Flame retardant | Yes |
| Halogen-free | Yes |
| Surface resistance | $\leq 10^{13} \Omega$ |
| Clamping range | 23 – 35 mm |
| Clamping range max. | 35 mm |
| Clamping range min. | 23 mm |
| Armouring type | Unarmoured cable types |
| Dimension L | 59 ... 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 | 7 J |
| Impact strength | 7 J |
| Colour | Blue |
| Lot size | 4 |
| Weight | 0.107 kg |
| 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 = 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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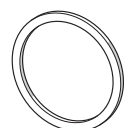
| | | | | | | | | | | |
|-----|-------------|-----------------|-----------------|--------------|--------------|---------------------|---------------------|-------|------------|------------|
| M16 | 20.00 mm | 31 ... 37 mm | 37 ... 43 mm | 9.000 mm | 15.000 mm | 5.00 - 9.00 mm | 2.00 - 9.00 mm | 22 mm | 10.3 mm | 9.3 mm |
| M20 | 24.00 mm | 36 ... 43 mm | 41 ... 48 mm | 10.000 mm | 15.000 mm | 7.00 - 13.00 mm | 4.00 - 13.00 mm | 27 mm | 13.3 mm | 13.3 mm |
| M25 | 29.00 mm | 38 ... 46 mm | 43 ... 51 mm | 10.000 mm | 15.000 mm | 10.00 - 17.00 mm | 7.00 - 17.00 mm | 32 mm | 17.3 mm | 17.3 mm |
| M32 | 36.00 mm | 42 ... 50 mm | 45 ... 53 mm | 12.000 mm | 15.000 mm | 13.00 - 21.00 mm | 9.00 - 21.00 mm | 40 mm | 21.3 mm | 21.3 mm |
| M40 | 46.00 mm | 52 ... 65 mm | 58 ... 71 mm | 12.000 mm | 18.000 mm | 17.00 - 28.00 mm | 12.00 - 28.00 mm | 51 mm | 28.3 mm | 30 mm |
| M50 | 55.00 mm | 59 ... 72 mm | 63 ... 76 mm | 14.000 mm | 18.000 mm | 23.00 - 35.00 mm | 16.00 - 35.00 mm | 61 mm | 35.3 mm | 40 mm |
| M63 | 68.00 mm | 64 ... 78 mm | 67 ... 81 mm | 15.000 mm | 18.000 mm | 34.00 - 48.00 mm | 28.00 - 48.00 mm | 75 mm | 48.3 mm | 53 mm |

Accessories and Spare Parts

Flat gasket (standard), EPDM (-40 ... +75 °C)

Replacement seals for cable glands

Art. No.



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

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

To fasten the cable glands in through holes

Art. No.



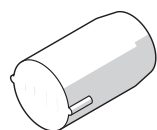
Material: Nickel-plated brass Lot size: 25
Thread size: M50

241564

Plug (-60 ... +75 °C)

For closing unused cable glands

Art. No.



Thread size with reduction sealing insert: M50 Lot size: 25
Diameter: 25 mm
Material: Polyamide

240058

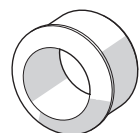
Thread size without reduction sealing insert: M50 Lot size: 10
Thread size with reduction sealing insert: M63
Diameter: 35 mm
Material: Polyamide

240060

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

For cable glands

Art. No.



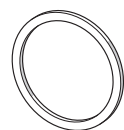
Connection thread: M50 x 1.5 Lot size: 50
Clamping range: 16 – 25 mm

239450

Flat gasket silicone (-60 ... +75°C)

Replacement seals for low temperature

Art. No.



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

240253

Installation Equipment and Accessories



Cable gland

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Locknut, plastic (-40 ... +75 °C)

To fasten the cable glands in through holes

Art. No.



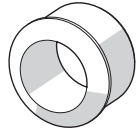
Material: Polyamide Lot size: 25
Thread size: M50

239466

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

For low temperature

Art. No.



Connection thread: M50 x 1.5 Lot size: 50
Clamping range: 16 – 25 mm

239458

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