

# Installation equipment and accessories

## Cable gland with multiple sealing insert

Black

8161/8-M25-9999-MFD-04035 Art. No. 265084



- 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

#### Ambient Conditions

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

#### Mechanical Data

Version	Multiple seal
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	$\leq 10^{13} \Omega$
Number of cables	4

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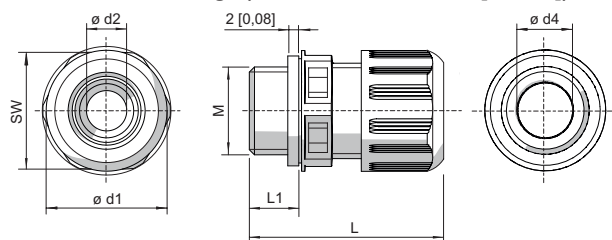
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### Mechanical Data

Clamping range	3.2 – 3.5 mm
Armouring type	Unarmoured cable types
Cable entry	1 x M25 – 4 x Ø 3,2 – 3,5 mm
Clamping range	3.2 ... 3.5 mm
Total length	38 to 46 mm
Width across corners	32 mm
Width across flats	29 mm
Thread size	M25
Thread length	10 mm
Thread pitch	1,5 mm
Impact strength (IEC 60079)	7 J
Impact strength	7 J
Colour	Blue
Lot size	50
Weight	20 g
Weight	0.04 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	Dimension d1	Dimension d2	Dimension 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
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

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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
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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.