

Installation equipment and accessories

Cable gland

With reduction sealing insert

8161/8-M12-0601 Art. No. 239162

STAHL



- 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	15 °C ... +65 °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	≤ 10 ¹³ Ω

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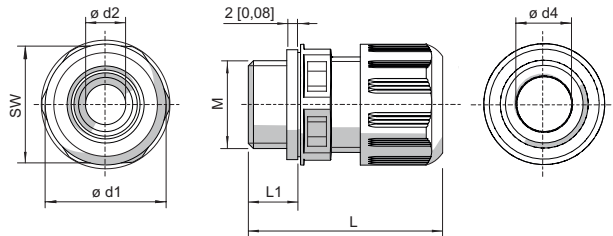
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Mechanical Data

Clamping range	1 – 6 mm
Armouring type	Unarmoured cable types
Clamping range	1 ... 6 mm
Dimension d1	18 mm
Dimension d2	7.3 mm
Dimension d4	6.3 mm
Width across corners	18 mm
Width across flats	16 mm
Thread size	M12
Thread length	9 mm
Thread pitch	1,5 mm
Impact strength (IEC 60079)	4 J
Impact strength note	Installation only in areas with a low risk of mechanical damage. If there is a higher risk, protect the cable gland from mechanical damage.
Colour	Blue
Total length	29 to 34 mm
Lot size	50
Weight	7 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

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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
M50	55.00 mm	59 to 72 mm	63 to 76 mm	14 mm	18 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	28 - 48 mm	75 mm	48.3 mm	53 mm

Accessories

Jam nut, nickel-plated brass

Art. No.

Material: Nickel-plated brass Lot size: 100
Thread size: M12

241518

Jam nut, plastic (-40 to +75 °C)

For mounting the cable entries in through holes

Art. No.

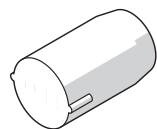
Material: Polyamide Lot size: 100
Thread size: M12

239460

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

For sealing unused cable glands

Material: Polyamide

Art. No.

Diameter: 3 mm Lot size: 50

240044

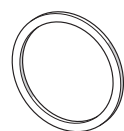
Diameter: 6 mm Lot size: 50

240046

Spare Parts

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

Replacement seals for cable glands

Art. No.

For cable glands 8161/..-M12-06... Lot size: 100
Connection thread: M12 x 1.5

240245

For cable glands 8161/..-M12-06.. Lot size: 50
Connection thread: M12 x 1.5

240244

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.