

Installation equipment and accessories

STAHL

Cable gland

Without reduction sealing insert

8161/8-M12-0603 Art. No. 239178



- 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), IECEX (PTB), Korea (KGS)
Declaration of conformity	ATEX (EUK)

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	$\leq 10^{13} \Omega$

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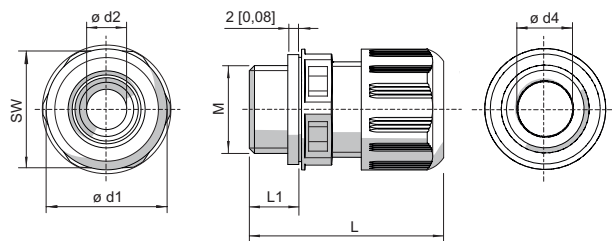
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Mechanical Data

Clamping range	3 – 6 mm
Armouring type	Unarmoured cable types
Clamping range	3 ... 6 mm
Total length	29 to 34 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	7 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
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	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

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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
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

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

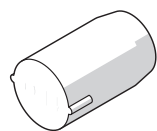
Art. No.Material: Polyamide Lot size: 100
Thread size: M12

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

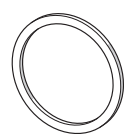
Diameter: 6 mm Lot size: 50

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

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