

# Installation equipment and accessories

## Cable gland For low temperature

### With reduction sealing insert

8161/8-M16-0902-LT Art. No. 329695



- 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 explosion protection	Ⓔ II 2 G Ex eb IIC Gb
ATEX dust explosion protection	Ⓔ II 2 D Ex tb IIIC Db
Certificates	Korea (KGS)
Declaration of conformity	ATEX (EUK), China (CCC)

### Ambient Conditions

Ambient temperature	-40 °C ... +75 °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	SI profile seal
Sealing ring material	SI
Material	Polyamide, Glass fibre reinforced
Silicone-free	No
Self-extinguishing	Yes
Flame-retardant	Yes
Halogen-free	Yes
Surface resistance	$\leq 10^{13} \Omega$
Clamping range	2 – 9 mm
Armouring type	Unarmoured cable types

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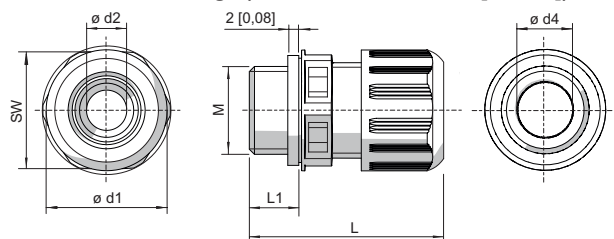
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## Mechanical Data

Clamping range	2 ... 9 mm
Total length	31 ... 37 mm
Width across corners	22 mm
Width across flats	20 mm
Thread size	M16
Thread length	9 mm
Thread pitch	1,5 mm
Impact strength (IEC 60079)	4 J
Colour	Blue
Lot size	50
Weight	9 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-mension d1	Di-mension d2	Di-mension 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
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

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.