

Installation equipment and accessories

STAHL

Cable gland

Without reduction sealing insert

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



- 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	-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	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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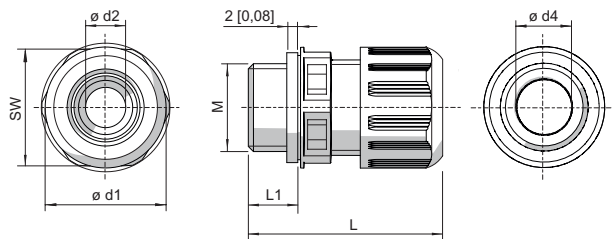
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Mechanical Data

Clamping range	23 – 35 mm
Armouring type	Unarmoured cable types
Clamping range	23 ... 35 mm
Total length	59 to 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 (IEC 60079)	7 J
Impact strength	7 J
Colour	Blue
Lot size	4
Weight	107 g
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 = 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	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	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

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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: 25
Thread size: M50

241564

Jam nut, plastic (-40 to +75 °C)

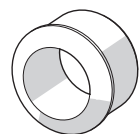
For mounting the cable entries in through holes

Art. No.Material: Polyamide Lot size: 25
Thread size: M50

239466

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

For low temperatures

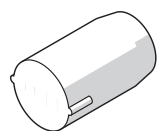
Art. No.Connection thread: M50 x 1.5 Lot size: 10
Cable dia. range: 16 to 25 mm

239458

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

For sealing unused cable glands

Material: Polyamide

Art. No.

Diameter: 25 mm Lot size: 25

240058

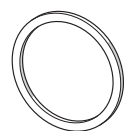
Diameter: 35 mm Lot size: 10

240060

Spare Parts

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

Replacement seals for cable glands

Art. No.For cable glands 8161/-M50-35 Lot size: 100
Connection thread: M50

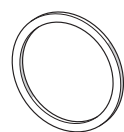
222375

For cable glands 8161/-M50-35 Lot size: 50
Connection thread: M50

222368

Silicone flat seal (-60 to +75 °C)

Replacement seals for low temperatures

Art. No.For cable glands 8161/-M50-35 Lot size: 100
Connection thread: M50

240253

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