

Installation Equipment and Accessories

STAHL

Cable gland

With reduction sealing insert

8161/8-M20-1304 Art. No. 239164



- For safe cable entry in Ex e and Ex i areas
- Can be used at temperatures of between -60 ... +75 °C, degree of protection IP68
- Available in Ex e and Ex i versions (Ex i version distinguished by its blue cap nut)
- Suitable for cable diameters from 1 ... 48 mm
- Versions with multi-seal inserts

WebCode 8161B



R. STAHL's 8161/7 and 8161/8 series cable entries can be used to safely run cables into Ex e enclosures. They are suitable for cables between 1 and 48 mm in diameter. They are available for Ex e and Ex i circuits – the Ex i version can be distinguished by its blue cap nut. An integrated stopping plug can be used to seal any cable entries that are not being used.

Technical Data

Explosion Protection

Application range (zones)	1 2 21 22
Certificate IECEX Gas	IECEX PTB 14.0011 X
Certificate ATEX Gas	PTB 14 ATEX 1008 X
Certificate IECEX Dust	IECEX PTB 14.0011 X
Certificate ATEX Dust	PTB 14 ATEX 1008 X
Ambient temperature °C	-40 ... +75 °C
Gas explosion protection IECEX	Ex eb IIC Gb
Gas explosion protection ATEX	Ex II 2 G Ex eb IIC Gb
Dust explosion protection IECEX	Ex tb IIIC Db
Dust explosion protection ATEX	Ex II 2 D Ex tb IIIC Db
Certificates	ATEX (PTB), Brazil (ULB), EAC (LPE), IECEX (PTB), Korea (KGS)
EAC certificate	TS RU S-DE.AA71.B.00083

Electrical Data

Ex version	Ex i
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Ambient Conditions

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

Mechanical Data

Degree of protection (IP)	IP66
Type 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

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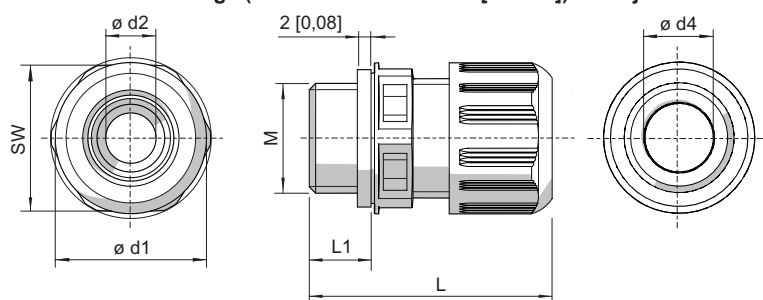
With reduction sealing insert

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Mechanical Data

Material	Polyamide
Material2	Glass fibre reinforced
Silicone-free	Yes
Self-extinguishing	Yes
Flame retardant	Yes
Halogen-free	Yes
Surface resistance	$\leq 10^{13} \Omega$
Clamping range	4 – 13 mm
Max. clamping range	13 mm
Min. clamping range	4 mm
Armouring type	Unarmoured cable types
Dimension L	36 ... 43 mm
Dimension d1	27 mm
Dimension d2	13.3 mm
Dimension d4	13.3 mm
Width across corners	27 mm
Width across flats	24 mm
Thread size	M20
Thread length	10 mm
Thread pitch	1,5 mm
Impact strength	7 J
Colour	Blue
Lot size	50
Weight	0.013 kg

Dimensional Drawings (All Dimensions in mm [inches]) – Subject to Alterations



M = Thread size
SW = Width across flats
L1 = Thread length
L = Dimension L

Thread size	Width across flats	Dimension L	Thread length	Clamping range	Dimension d1	Dimension d2	Dimension d4
M20	24.00 mm	36 ... 43 mm	10.000 mm	4.00 - 13.00 mm	27 mm	13.3 mm	13.3 mm

Accessories and Spare Parts

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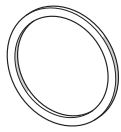
Cable gland

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Flat gasket (standard), EPDM (-40 ... +75 °C)

Replacement seals for cable glands

Art. No.

For cable glands 8161/-M20-13 Lot size: 100
Connection thread: M20

222371

For cable glands 8161/-M20-13 Lot size: 50
Connection thread: M20

222364

Locknut, brass nickel-plated (-60 ... +75 °C)

To fasten the cable glands in through holes

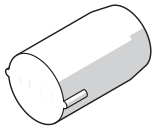
Art. No.

Material: Nickel-plated brass Lot size: 100
Thread size: M20

241520

Plug (-60 ... +75 °C)

For closing unused cable glands

Art. No.

Thread size without reduction sealing insert: M20 Lot size: 50
Thread size with reduction sealing insert: M25
Diameter: 12 mm
Material: Polyamide

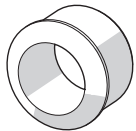
240049

Thread size without reduction sealing insert: M16 Lot size: 50
Thread size with reduction sealing insert: M20
Diameter: 8 mm
Material: Polyamide

240048

Reduction sealing insert (standard), EPDM (-40 ... +75 °C)

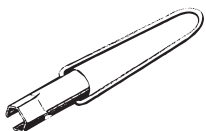
For cable glands

Art. No.

Connection thread: M20 x 1,5 Lot size: 50
Clamping range: 4 – 8 mm

239446

Special key

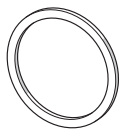
Art. No.

Thread size: M20 Packaging unit: 1

114208

Flat gasket silicone (-60 ... +75°C)

Replacement seals for low temperature

Art. No.

For cable glands 8161/-M20-13 Lot size: 100
Connection thread: M20

240249

Locknut, plastic (-40 ... +75 °C)

To fasten the cable glands in through holes

Art. No.

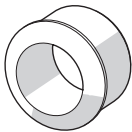
Material: Polyamide Lot size: 100
Thread size: M20

239462

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Reduction sealing insert, silicone (-60 ... +75 °C) For low temperature		Art. No.
	Connection thread: M20 x 1,5 Lot size: 50 Clamping range: 4 – 8 mm	239454

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