

12 Installation Material and Accessories



Cable Glands Series 8161

- Explosion protection to
 - CENELEC
 - IEC
- For use in
 - Zone 1 and Zone 2
 - Zone 21 and Zone 22
- Explosion protection type "increased safety"
- Degree of protection IP 68
- EEx e and EEx i versions
- As single or multi-cable entry
- Integrated plug (accessory) for closing unused cable entries
- Cable diameter ranges from 4 mm up to 48 mm
- Protective collar with sprayed-on sealing lip (up to M 32 x 1.5)

09343e00

STAHL

The cable glands Series 8161 are certified for use in "increased Safety" type enclosures. For entry intrinsically safe circuits a version with blue cap nut is available.

Zones 1 & 2, 21 & 22

Selection table							
Version	Thread size	Number of entries	Cable dia. range [mm]	Width across flats [mm]	Packing unit piece	Ordering code	Weight kg
8161/5 EEx e (black)	M 16 x 1.5	1	4 ... 9	SW 20	50	8161039030	0,423
	M 20 x 1.5	1	6 ... 13	SW 24	50	8161025030	0,630
	M 25 x 1.5	1	7 ... 17	SW 29	50	8161026030	1,004
		4	3 ... 6	SW 29	50	8161035030	1,058
	M 32 x 1.5	1	13 ... 21	SW 36	25	8161027030	0,789
		4	5 ... 7	SW 36	25	8161037030	0,908
	M 40 x 1.5	1	17 ... 28	SW 46	10	8161028030	0,678
	M 50 x 1.5	1	23 ... 35	SW 55	4	8161029030	0,421
8161/6 EEx i (black with blue cap nut)	M 63 x 1.5	1	31 ... 48	SW 68	1	8161082010	0,120
	M 16 x 1.5	1	4 ... 9	SW 20	50	8161040030	0,424
	M 20 x 1.5	1	6 ... 13	SW 24	50	8161030030	0,641
	M 25 x 1.5	1	7 ... 17	SW 29	50	8161031030	0,920
		4	3 ... 6	SW 29	50	8161036030	1,072
	M 32 x 1.5	1	13 ... 21	SW 36	25	8161032030	0,796
		4	5 ... 7	SW 36	25	8161038030	0,910
	M 40 x 1.5	1	17 ... 28	SW 46	10	8161033030	0,675
	M 50 x 1.5	1	23 ... 35	SW 55	4	8161034030	0,422
	M 63 x 1.5	1	31 ... 48	SW 68	1	8161090010	0,120

Technical Data					
Explosion protection					
Gas explosion protection	⊕ II 2 G EEx e II				
Dust explosion protection	⊕ II 2 D IP 66				
Certificates					
Gas explosion protection	PTB 00 ATEX 3119 X				
Dust explosion protection	PTB 00 ATEX 3119 X				
Other certificates	IECEX				
Material					
Cable gland	Polyamide, glass fibre reinforced, flame resistant, self-extinguishing				
Impact strength	Impact energy high, 7 J				
Ambient temperature	- 20 °C ... + 75 °C				
Degree of protection	IP 66 IP 68 at 6 bar 24 h				
Colour	8161/5: black (EEx e) 8161/6: nozzle black, cap nut blue (EEx i)				
Mounting	Wall resp. flange thickness for installation cable glands				
		Wall resp. flange thickness for mounting in threaded holes		for mounting with locknuts in through holes	
	Thread size	Wall in plastic [mm]	Wall in metal [mm]	Wall in plastic [mm]	Wall in metal [mm]
	M 16 x 1.5 M 20 x 1.5 M 25 x 1.5	≥ 5	≥ 3	2 ... 6.5	1 ... 6.5
	M 32 x 1.5 M 40 x 1.5 M 50 x 1.5 M 63 x 1.5	≥ 5	≥ 3	2 ... 8	1 ... 8

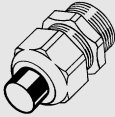


Installation Material and Accessories

Cable Glands

Series 8161

Accessories and spare parts

Designation	Illustration	Description	Ordering code	Weight kg
Special key	 05263E00	for tightening the cable glands respectively the cap nuts for cable entries		
		Thread size Type Packing unit		
		M 16 x 1.5 8161/..-M16-9 1	5986130	0,120
		M 20 x 1.5 8161/..-M20-13 1	5986140	0,132
		M 25 x 1.5 8161/..-M25-17 8161/..-M25-96 1	5986110	0,163
		M 32 x 1.5 8161/..-M32-21 8161/..-M32-97 1	5986150	0,237
		M 40 x 1.5 8161/..-M40-28 1	5986160	0,274
Plug	 05572E00	in polyamide, red For closing unused cable entries for cable entries		
		Thread size Type Kind of entry Packing unit		
		M 16 x 1.5 8161/..-M16-9 single 50	8161005590	0,061
		M 20 x 1.5 8161/..-M20-13 single 50	8161003590	0,140
		M 25 x 1.5 8161/..-M25-17 single 25	8161001590	0,130
		M 25 x 1.5 8161/..-M25-96 multi 50	8161007590	0,031
		M 32 x 1.5 8161/..-M32-21 single 25	8161008590	0,206
		M 32 x 1.5 8161/..-M32-97 multi 50	8161006590	0,044
Flat gasket	 04968E00	as additional gasket for onerous mounting conditions for cable entries		
		Thread size Type Packing unit		
		M 16 x 1.5 8161/..-M16-9 50	8161001950	0,017
		M 20 x 1.5 8161/..-M20-13 50	8161002950	0,022
		M 25 x 1.5 8161/..-M25-... 50	8161003950	0,023
		M 32 x 1.5 8161/..-M32-... 25	8161004950	0,014
		M 40 x 1.5 8161/..-M40-28 10	8161005950	0,012
		M 50 x 1.5 8161/..-M50-35 4	8161006950	0,007
		M 63 x 1.5 8161/..-M63-48 1	8161007950	0,003

Accessories and spare parts

Designation	Illustration	Description	Ordering code	Weight kg
Locknut		Brass, nickled plated For fixing the cable entries in through holes for cable entries		
		Thread size Type Packing unit		
		M 16 x 1.5 8161/..-M16-9 50	8161001910	0,135
		M 20 x 1.5 8161/..-M20-13 50	8161002910	0,241
		M 25 x 1.5 8161/..-M25-... 50	8161003910	0,348
		M 32 x 1.5 8161/..-M32-... 25	8161004910	0,267
		M 40 x 1.5 8161/..-M40-28 10	8161005910	0,218
		M 50 x 1.5 8161/..-M50-35 4	8161006910	0,109
		M 63 x 1.5 8161/..-M63-48 1	8161007910	0,054

Dimension drawings (all dimensions in mm) - subject to alterations

Thread size M	Dimensions [mm]							
	SW	d ₁	l ₁		l ₂	Cable dia. range	d ₂	d ₄
			min.	max.				
M 16 x 1.5	20	22	31	37	9	4 ... 9	10.3	9.3
M 20 x 1.5	24	27	36	45	10	6 ... 13	13.3	13.3
M 25 x 1.5	29 29	32 32	38 38	47 47	10 10	7 ... 17 4 x 3 ... 6	17.3	17.3
M 32 x 1.5	36 36	40 40	42 42	51 51	12 12	13 ... 21 4 x 5 ... 7	21.3	21.3
M 40 x 1.5	46	51	52	65	12	17 ... 28	28.3	30
M 50 x 1.5	55	61	59	72	14	23 ... 35	35.3	40
M 63 x 1.5	68	75	64	78	15	31 ... 48	48.3	53

We reserve the right to make alterations to the technical data, weights, dimensions, designs and products available without notice.
The illustrations cannot be considered binding.