



09343600

## 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)

STAHL

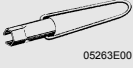
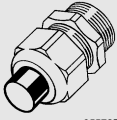

The cable glands Series 8161 are certified for use in "increased Safety" type enclosures. For entry intrinsically safe circuits a version with blue cap nut is available.

# Zones 1 & 2, 21 & 22




Selection table							
Version	Thread size	Number of entries	Cable dia. range	Width across flats	Packing unit	Ordering code	Weight
			[mm]	[mm]			
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	4 ... 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
M 63 x 1.5	1	31 ... 48	SW 68	1	8161082010	0,120	
8161/6 EEx i (black with blue cab nut)	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	4 ... 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	- 40 °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]
	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

Accessories and spare parts					
Designation	Illustration	Description	Ordering code	Weight	
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	<b>5986130</b>	0,120	
		M 20 x 1.5      8161/.-M20-13      1	<b>5986140</b>	0,132	
		M 25 x 1.5      8161/.-M25-17 8161/.-M25-96      1	<b>5986110</b>	0,163	
		M 32 x 1.5      8161/.-M32-21 8161/.-M32-97      1	<b>5986150</b>	0,237	
		M 40 x 1.5      8161/.-M40-28      1	<b>5986160</b>	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	<b>8161005590</b>	0,061	
		M 20 x 1.5      8161/.-M20-13      single      50	<b>8161003590</b>	0,140	
		M 25 x 1.5      8161/.-M25-17      single      25	<b>8161001590</b>	0,130	
		M 25 x 1.5      8161/.-M25-96      multi      50	<b>8161007590</b>	0,031	
		M 32 x 1.5      8161/.-M32-21      single      25	<b>8161008590</b>	0,206	
M 32 x 1.5      8161/.-M32-97      multi      50	<b>8161006590</b>	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	<b>8161001950</b>	0,017	
		M 20 x 1.5      8161/.-M20-13      50	<b>8161002950</b>	0,022	
		M 25 x 1.5      8161/.-M25-...      50	<b>8161003950</b>	0,023	
		M 32 x 1.5      8161/.-M32-...      25	<b>8161004950</b>	0,014	
		M 40 x 1.5      8161/.-M40-28      10	<b>8161005950</b>	0,012	
		M 50 x 1.5      8161/.-M50-35      4	<b>8161006950</b>	0,007	
M 63 x 1.5      8161/.-M63-48      1	<b>8161007950</b>	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	<b>8161001910</b>	0,135
		M 20 x 1.5	8161/-.M20-13	50	<b>8161002910</b>	0,241
		M 25 x 1.5	8161/-.M25-...	50	<b>8161003910</b>	0,348
		M 32 x 1.5	8161/-.M32-...	25	<b>8161004910</b>	0,267
		M 40 x 1.5	8161/-.M40-28	10	<b>8161005910</b>	0,218
		M 50 x 1.5	8161/-.M50-35	4	<b>8161006910</b>	0,109
M 63 x 1.5	8161/-.M63-48	1	<b>8161007910</b>	0,054		

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

Thread size M	Dimensions [mm]							
	SW	d <sub>1</sub>	l <sub>1</sub>		l <sub>2</sub>	Cable dia. range	d <sub>2</sub>	d <sub>4</sub>
			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	32	38	47	10	7 ... 17	17.3	17.3
	29	32	38	47	10	4 x 3 ... 6		
M 32 x 1.5	36	40	42	51	12	13 ... 21	21.3	21.3
	36	40	42	51	12	4 x 5 ... 7		
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.

