



## Cable glands, IP68



## INFO

### Cable glands polyamide IP68

#### Properties:

integrated strain relief, fully mounted, RoHS-compliant.

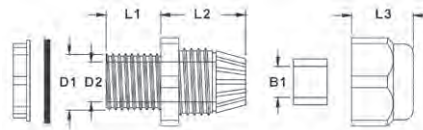
HAUPA cable glands do protect electric equipment (switchboards, distribution boxes) against mechanical influences, dust, and humidity by connecting a cable tight and sealed to the housing.

HAUPA offers next to metric as well PG cable glands.

HAUPA cable glands are IP68 (dust and humidity) to protect human against the potential risk during usage.

### Cable glands IP 68, metric or PG, assembled with washer and lock nut, fully mounted

material: polyamide 6.6, (gland body: PA 6.6, halogen free, seal: TPR, halogen free, washer: PVC), colour: light- grey or black, temperature range: - 40°C to + 85°C, vibration protection: integrated anti- twist protection for vibration- firm assembly, fire class: according to UL 94 V-2, protection category: IP68, properties: integrated strain relief; easy to install, RoHS- compliant, completely assembled as shown



Art. no.	colour		KB	D1	D2	B1	L1	L2	L3	WS	kg/100	PU	
250040	light- grey	<b>M12</b>	3 - 6,5	12,0	8,3	6,9	7,9	19,6	13,6	15	0,024	10	4.250
250042	light- grey	<b>M16</b>	5 - 10	16	10,9	9,6	15,5	23,4	16,9	22	0,024	10	1.700
250044	light- grey	<b>M20</b>	8 - 12	20,0	14,1	12,5	10,0	25,0	18,1	24	0,024	10	1.200
250046	light- grey	<b>M20</b>	10 - 14	20,0	15,0	14,8	10,0	28,5	18,5	27	0,024	10	1.190
250048	light- grey	<b>M20</b>	10 - 14	20,0	15,0	14,8	15,0	28,5	18,5	27	0,024	10	1.190
250050	light- grey	<b>M25</b>	13 - 18	25,0	18,6	18,4	15,2	29,4	22,3	33	0,024	10	680
250052	light- grey	<b>M32</b>	18 - 25	32,0	26,0	25,0	14,7	34,5	25,7	42	0,024	10	340
250054	light- grey	<b>M40</b>	22 - 32	40,0	33,7	33,1	18,4	41,7	31,3	54	0,024	5	230
250056	light- grey	<b>M50</b>	30 - 38	50,0	41,9	40,0	17,8	44,2	31,3	61	0,024	5	160
250058	light- grey	<b>M63</b>	34 - 44	61,0	55,0	43,2	18,5	44,6	32,7	66	0,024	5	120

Art. no.	colour		KB	D1	D2	B1	L1	L2	L3	WS	kg/100	PU	
250080	black	<b>M12</b>	3 - 6,5	12,0	8,3	6,9	7,9	19,6	13,6	15	0,024	10	4.250
250082	black	<b>M16</b>	5 - 10	16	10,9	9,6	15,5	23,4	16,9	22	0,024	10	1.700
250084	black	<b>M20</b>	8 - 12	20,0	14,1	12,5	10,0	25,0	18,1	24	0,024	10	1.200
250086	black	<b>M20</b>	10 - 14	20,0	15,0	14,8	10,0	28,5	18,5	27	1,620	10	1.190
250088	black	<b>M20</b>	10 - 14	20,0	15,0	14,8	15,0	28,5	18,5	27	17,000	10	1.190
250090	black	<b>M25</b>	13 - 18	25,0	18,6	18,4	15,2	29,4	22,3	33	2,690	10	680
250092	black	<b>M32</b>	18 - 25	32,0	26,0	25,0	14,7	34,5	25,7	42	4,560	10	340
250094	black	<b>M40</b>	22 - 32	40,0	33,7	33,1	18,4	41,7	31,3	54	8,100	5	230
250096	black	<b>M50</b>	30 - 38	50,0	41,9	40,0	17,8	44,2	31,3	61	10,100	5	160
250098	black	<b>M63</b>	34 - 44	61,0	55,0	43,2	18,5	44,6	32,7	66	11,400	5	120

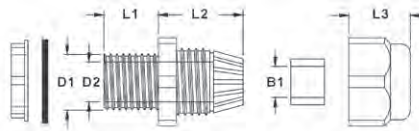
Art. no.	colour		KB	D1	D2	B1	L1	L2	L3	WS	kg/100	PU	
250060	light- grey	<b>PG7</b>	3,5 - 6	12,5	8,3	6,9	7,9	20,0	13,3	15	0,024	10	4.250
250062	light- grey	<b>PG9</b>	4 - 8	15,2	10,5	7,8	7,9	22,0	15,1	19	0,024	10	2.980
250064	light- grey	<b>PG11</b>	5 - 10	18,6	13,2	10,8	7,9	23,7	18,3	22	0,024	10	2.040
250066	light- grey	<b>PG13,5</b>	6 - 12	20,4	15,5	12,5	8,9	24,6	18,9	24	0,024	10	1.530
250068	light- grey	<b>PG16</b>	10 - 14	22,5	17,2	15,0	9,8	26,2	19,5	27	0,024	10	1.190
250070	light- grey	<b>PG21</b>	13 - 18	28,3	22,4	18,5	10,8	30,0	23,7	33	0,024	10	680
250072	light- grey	<b>PG29</b>	18 - 25	37,0	30,6	25,3	10,8	35,0	27,4	42	0,024	10	380
250074	light- grey	<b>PG36</b>	22 - 32	47,0	35,3	36,3	7,9	42,3	30,3	53	0,024	5	200
250076	light- grey	<b>PG42</b>	30 - 38	54,0	40,0	40,4	14,5	44,0	31,2	60	0,024	5	140
250078	light- grey	<b>PG48</b>	34 - 44	59,3	46,2	46,3	15,6	42,7	31,3	65	0,024	5	130

Art. no.	colour		KB	D1	D2	B1	L1	L2	L3	WS	kg/100	PU	
250100	black	<b>PG7</b>	3,5 - 6	12,5	8,3	6,9	7,9	20,0	13,3	15	0,560	10	4.250
250102	black	<b>PG9</b>	4 - 8	15,2	10,5	7,8	7,9	22,0	15,1	19	7,500	10	2.980
250104	black	<b>PG11</b>	5 - 10	18,6	13,2	10,8	7,9	23,7	18,3	22	1,030	10	2.040
250106	black	<b>PG13,5</b>	6 - 12	20,4	15,5	12,5	8,9	24,6	18,9	24	1,400	10	1.530
250108	black	<b>PG16</b>	10 - 14	22,5	17,2	15,0	9,8	26,2	19,5	27	1,560	10	1.190
250110	black	<b>PG21</b>	13 - 18	28,3	22,4	18,5	10,8	30,0	23,7	33	2,480	10	680
250112	black	<b>PG29</b>	18 - 25	37,0	30,6	25,3	10,8	35,0	27,4	42	4,160	10	380
250114	black	<b>PG36</b>	22 - 32	47,0	35,3	36,3	7,9	42,3	30,3	53	8,240	5	200
250116	black	<b>PG42</b>	30 - 38	54,0	40,0	40,4	14,5	44,0	31,2	60	10,800	5	140
250118	black	<b>PG48</b>	34 - 44	59,3	46,2	46,3	15,6	42,7	31,3	65	11,600	5	130

# SlimTop cable glands polyamide IP68

## SlimTop - cable glands IP 68, metric or PG, assembled with washer and lock nut, industry

material: polyamide 6.6, (gland body: PA 6.6, halogen free, seal: TPR, halogen free, washer: PVC), colour: light- grey or black, temperature range: - 40°C to + 85°C, vibration protection: integrated anti- twist protection for vibration- firm assembly, fire class: according to UL 94 V-2, protection category: IP68, properties: integrated strain relief, not mounted, easy to install, RoHS- compliant

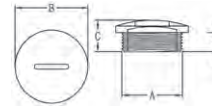


Art. no.	colour	KB	D1	D2	B1	L1	L2	L3	WS	kg/100	PU		
250140	light- grey	<b>M12</b>	3 - 6,5	12,0	7,3	7,1	8,0	19,6	12,7	15	0,400	10	4.250
250142	light- grey	<b>M16</b>	5 - 10	16,0	10,7	10,4	8,0	23,3	16,1	20	0,800	10	1.700
250044	light- grey	<b>M20</b>	8 - 12	20,0	14,1	12,5	10,0	25,0	18,1	24	0,024	10	1.200
250144	light- grey	<b>M25</b>	11 - 17	25,0	18,0	17,3	8,0	30,0	20,0	29	1,400	10	680
250146	light- grey	<b>M32</b>	15 - 21	32,0	25,7	21,6	10,0	35,4	24,1	36	2,900	10	340
250148	light- grey	<b>M40</b>	20 - 28	40,0	32,7	28,6	10,0	39,4	27,5	46	4,800	5	230
250150	light- grey	<b>M50</b>	27 - 35	50,0	42,4	35,8	12,0	43,4	31,8	55	8,300	5	160
250152	light- grey	<b>M63</b>	32 - 42	63,0	55,0	48,8	12,0	46,4	33,7	66	10,200	5	120
250120	light- grey	<b>M12</b>	3 - 6,5	12,0	7,3	7,1	8,0	19,6	12,7	15	0,400	10	4.250
250122	light- grey	<b>M16</b>	5 - 10	16,0	10,7	10,4	8,0	23,3	16,1	20	0,8	10	1.700
250084	black	<b>M20</b>	8 - 12	20,0	14,1	12,5	10,0	25,0	18,1	24	0,024	10	1.200
250124	light- grey	<b>M25</b>	11 - 17	25,0	14,1	17,3	20,0	25	18,1	29	1,400	10	680
250126	light- grey	<b>M32</b>	15 - 21	32,0	25,7	21,6	10,0	35,4	24,1	36	2,900	10	340
250128	light- grey	<b>M40</b>	20 - 28	40,0	32,7	28,6	10,0	39,4	27,5	46	4,800	5	230
250130	light- grey	<b>M50</b>	27 - 35	50,0	42,4	35,8	12,0	43,4	31,8	55	8,300	5	160
250132	light- grey	<b>M63</b>	32 - 42	63,0	55,0	48,8	12,0	46,4	33,7	66	10,200	5	120

## Dummy plugs



Dummy plugs light- grey and black



Art. no.	colour	A	B	DD	kg/100	PU		
250196	light- grey	<b>M12</b>	11,7	15,0	10,0	6,0	0,090	100
250198	light- grey	<b>M16</b>	15,7	20,0	10,5	6,0	0,150	100
250200	light- grey	<b>M20</b>	19,9	24,0	12,8	6,0	0,220	100
250202	light- grey	<b>M25</b>	24,7	29,7	12,8	7,8	0,350	100
250204	light- grey	<b>M32</b>	31,7	36,6	13,3	7,8	0,330	50
250206	light- grey	<b>M40</b>	39,9	45,8	13,4	7,8	0,420	50
250208	light- grey	<b>M50</b>	49,4	55,5	16,2	9,8	1,300	10
250210	light- grey	<b>M63</b>	62,4	69,3	17,5	11,8	1,800	10
250212	light- grey	<b>PG7</b>	12,2	14,8	10,0	6,0	0,090	100
250214	light- grey	<b>PG9</b>	15,1	18,7	10,4	6,0	0,140	100
250216	light- grey	<b>PG11</b>	18,5	21,7	10,4	6,0	0,140	100
250218	light- grey	<b>PG13,5</b>	20,3	23,7	10,3	6,0	0,210	100
250220	light- grey	<b>PG16</b>	22,3	27,0	10,3	6,0	0,290	100
250222	light- grey	<b>PG21</b>	28,2	32,8	12,8	7,8	0,480	100
250224	light- grey	<b>PG29</b>	37,0	44,1	13,2	7,8	0,400	50
250226	light- grey	<b>PG36</b>	47,0	52,6	13,7	7,8	0,500	50
250228	light- grey	<b>PG42</b>	54,0	59,5	16,2	9,6	0,090	10
250230	light- grey	<b>PG48</b>	59,6	64,2	17,5	11,8	1,800	10
250160	black	<b>M12</b>	11,7	15,0	10,0	6,0	0,090	100
250162	black	<b>M16</b>	15,7	20,0	10,5	6,0	0,150	100
250164	black	<b>M20</b>	19,9	24,0	10,5	6,0	0,220	100
250166	black	<b>M25</b>	24,7	29,7	12,8	7,8	0,350	100
250168	black	<b>M32</b>	31,7	36,6	13,3	7,8	0,330	50
250170	black	<b>M40</b>	39,9	45,8	13,4	7,8	0,420	50
250172	black	<b>M50</b>	49,4	55,5	16,2	9,8	1,300	10
250174	black	<b>M63</b>	62,4	69,3	17,5	11,8	1,800	10
250176	black	<b>PG7</b>	12,2	14,8	10,0	6,0	0,090	100
250178	black	<b>PG9</b>	15,1	18,7	10,4	6,0	0,140	100
250180	black	<b>PG11</b>	18,5	21,7	10,4	6,0	0,140	100
250182	black	<b>PG13,5</b>	20,3	23,7	10,3	6,0	0,210	100
250184	black	<b>PG16</b>	22,3	27,0	10,3	6,0	0,290	100
250186	black	<b>PG21</b>	28,2	32,8	12,8	7,8	0,480	100
250188	black	<b>PG29</b>	37,0	44,1	13,2	7,8	0,400	50
250190	black	<b>PG36</b>	47,0	52,6	13,7	7,8	0,500	50
250192	black	<b>M12</b>	54,0	59,5	16,2	9,6	1,300	10
250194	black	<b>PG48</b>	59,6	64,2	17,5	11,8	1,800	10

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# Cable glands brass nickel-plated, IP68

## INFO

### Cable glands polyamide IP68

#### Properties:

integrated strain relief, fully mounted, RoHS-compliant.

HAUPA cable glands do protect electric equipment (switchboards, distribution boxes) against mechanical influences, dust, and humidity by connecting a cable tight and sealed to the housing.

HAUPA offers next to metric as well PG cable glands.

For an EMC-compatible installation, brass cable glands inclusive EMC insets should be used.

HAUPA cable glands are IP68 (dust and humidity) to protect human against the potential risk during usage.

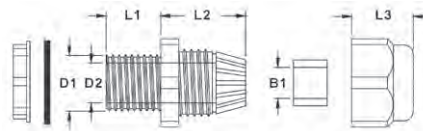
### Cable glands brass nickel-plated, IP68, fully mounted

Material: brass nickel-plated, (halogen free)

lock nut/washer: TPR

temperature range: - 40°C to + 120°C

protection category: IP68



Art. no.	KB	D1	D2	B1	L1	L2	L3	WS	kg/100	PU	
250600	<b>M12</b>	3 - 8,5	12,0	8,4	6,8	6,2	17	10,9	14	0,024	10
250602	<b>M16</b>	4 - 8	16,0	12,0	8,6	7,7	18,0	12,9	18	0,024	10
250604	<b>M20</b>	6 - 12	20,0	16,0	11,9	8,1	20,0	13,9	22	0,030	10
250606	<b>M25</b>	10-14	25,0	20,5	14,5	8,5	20,2	14,0	24-27	0,043	10
250608	<b>M32</b>	15-22	32,0	27,0	21,5	10	24,5	18,0	35	0,085	10
250610	<b>M40</b>	18-25	40,0	35,5	25,5	11	27,0	19,0	40-45	0,140	5
250611	<b>M40</b>	22-30	40,0	35,0	30,5	11,0	28,0	20,5	45	0,140	5
250612	<b>M50</b>	32-38	50,0	44,0	39,0	13	32,0	23,0	55-57	0,260	5
250614	<b>M63</b>	37-44	63,0	55,5	44,5	14	34,0	22,0	64-68	0,380	5

Art. no.	KB	D1	D2	B1	L1	L2	L3	WS	kg/100	PU	
250630	<b>PG7</b>	3-6,5	12,0	8,5	6,9	6,5	16,5	10,8	14	0,013	10
250632	<b>PG9</b>	4-8	14,8	11,8	8,5	8,1	18,9	12,7	17	0,019	10
250634	<b>PG11</b>	5 - 10	18,2	14,2	10,5	8	18,5	13,5	20-21	0,028	10
250636	<b>PG13,5</b>	6-12	20,1	16,2	12,1	7,7	20,5	13,9	23-22	0,033	10
250638	<b>PG16</b>	10-14	22,2	18,3	14,5	8,3	19,7	14,2	25-24	0,038	10
250640	<b>PG21</b>	13-18	28,2	23,8	18,2	8,8	23,3	16,5	30	0,060	10
250642	<b>PG29</b>	18-25	36,6	32,4	25,2	10,0	26,3	19,4	40	0,111	10
250644	<b>PG36</b>	25-33	46,0	41,5	33,2	11,0	32,0	22,0	50	0,190	5
250646	<b>PG42</b>	32-38	53,8	47,7	38,7	12,0	32,0	22,0	57	0,255	5
250648	<b>PG48</b>	37 - 44	59,0	52,6	44,5	12,6	33,9	22,8	64	0,345	5

#### PG threads

Threads Ident.	external mm	Core-hole mm
Pg 7	12,5	11,3
Pg 9	15,2	13,9
Pg 11	18,6	17,3
Pg 13,5	20,4	19,1
Pg 16	22,5	21,2
Pg 21	28,3	26,8
Pg 29	37,0	35,5
Pg 36	47,0	45,5
Pg 42	54,0	52,5
Pg 48	59,3	57,8

#### Metric thread

Threads Ident.	external mm	Core-hole mm
M 12	12,0	12,5
M 16	16,0	16,5
M 20	20,0	20,5
M 25	25,0	25,5
M 32	32,0	32,5
M 40	40,0	40,5
M 50	50,0	50,5
M 63	63,0	63,5

#### Converting PG to metric

PG size	Diameter mm	Cable diameter mm	Conversion to metric mm
Pg 7	12,5	6,0	M 12 x 1,5
Pg 7	12,5	6,0	M 16 x 1,5
Pg 9	15,5	8,0	M 16 x 1,5
Pg 11	18,6	10,0	M 20 x 1,5
Pg 13,5	20,4	12,0	M 20 x 1,5
Pg 13,5	20,4	12,0	M 25 x 1,5
Pg 16	22,5	14,0	M 20 x 1,5
Pg 16	22,5	14,0	M 25 x 1,5
Pg 21	28,3	18,0	M 25 x 1,5
Pg 21	28,3	18,0	M 32 x 1,5
Pg 29	28,3	18,0	M 32 x 1,5
Pg 29	28,3	18,0	M 40 x 1,5
Pg 36	47,0	32,0	M 50 x 1,5
Pg 42	54,0	38,0	M 50 x 1,5
Pg 42	54,0	38,0	M 63 x 1,5
Pg 48	59,3	43,0	M 63 x 1,5

#### Wrench size for cable glands

Connecting threads PG	Wrench size	Connecting threads metric	Wrench size
PG7	SW 15	M12 x 1,5	SW 15
PG9	SW 19	M16 x 1,5	SW 19
PG11	SW 22	M20 x 1,5	SW 24
PG13,5	SW 24	M25 x 1,5	SW 30
PG16	SW 27	M32 x 1,5	SW 36
PG21	SW 33	M40 x 1,5	SW 46
PG29	SW 42	M50 x 1,5	SW 55
PG36	SW 53	M63 x 1,5	SW 66
PG42	SW 60		
PG48	SW 65		

# Cable glands brass nickel-plated, IP68

## EMC-Cable glands brass nickel-plated, IP68, fully mounted

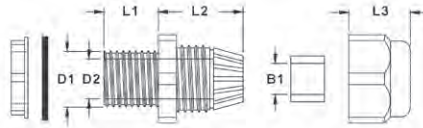
To ensure correct EMP installation, the brass cable screws with EMP inserts should be used.

Material: brass nickel-plated, (halogen free)

lock nut/washer: TPR

temperature range: - 40°C to + 120°C

protection category: IP68



Art. no.		KB	D1	D2	B1	L1	L2	L3	WS	kg/100	PU
250650	<b>M12</b>	3 - 8,5	12,0	8,4	6,8	6,2	17,0	10,9	14	0,013	10
250652	<b>M16</b>	4 - 8	16,0	12,0	8,6	7,7	18,0	12,9	18	0,024	10
250654	<b>M20</b>	6 - 12	20,0	16,0	11,9	8,1	20,0	13,9	22	0,030	10
250656	<b>M25</b>	10-14	25,0	20,5	14,5	8,5	20,2	14,0	24-27	0,043	10
250658	<b>M32</b>	15-22	32,0	27,0	21,5	10,0	24,5	18,0	35	0,085	10
250660	<b>M40</b>	18-25	40,0	35,5	25,5	11,0	27,0	19,0	40-45	0,140	5
250661	<b>M40</b>	22-30	40,0	35,0	30,5	11,0	28,0	20,5	45	0,140	5
250662	<b>M50</b>	32-38	50,0	44,0	39,0	13,0	32,0	23,0	55-57	0,260	5
250664	<b>M63</b>	37-44	63,0	55,5	44,5	14,0	34,0	22,0	64-68	0,380	5

Art. no.		KB	D1	D2	B1	L1	L2	L3	WS	kg/100	PU
250666	<b>PG7</b>	3-6,5	12,0	8,5	6,9	6,5	16,5	10,8	14	0,013	10
250668	<b>PG9</b>	4-8	14,8	11,8	8,5	8,1	18,9	12,7	17	0,019	10
250670	<b>PG11</b>	5-10	18,2	14,2	10,5	8,0	18,5	13,5	20-21	0,028	10
250672	<b>PG13,5</b>	6-12	20,1	16,2	12,1	7,7	20,5	13,9	23-22	0,033	10
250674	<b>PG16</b>	10-14	22,2	18,3	14,5	8,3	19,7	14,2	25-24	0,038	10
250676	<b>PG21</b>	13-18	28,2	23,8	18,2	8,8	23,3	16,5	30	0,024	10
250678	<b>PG29</b>	18-25	36,6	32,4	25,2	10,0	26,3	19,4	40	0,111	10
250680	<b>PG36</b>	25-33	46,0	41,5	33,2	11,0	32,0	22,0	50	0,190	5
250682	<b>PG42</b>	32-38	53,8	47,7	38,7	12,0	32,0	22,0	57	0,255	5
250684	<b>PG48</b>	37-44	59,0	52,6	44,5	12,6	33,9	22,8	64	0,345	5



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