

EMC 2 Cable Glands Brass

These EMC cable glands combine several advantages in one product. First, you get the same clamping ranges as the standard brass glands. The Ingress Protection Rating is IP68. In order to get a low electrical impedance between the cable gland and the braiding of the cable the cable gland does not have to be disassembled. Secondly, a perfect shielding will be achieved by just tightening the dome nut. This high tech cable gland consists of a nickel plated brass body, PA6 clamping insert, an EMC contact element and choloprene seal. The components are pre-assembled.

To install an EMC cable gland remove approx. 5 – 10 mm (0.20 – 0.39) of the insulation of the cable. Insert the cable in to the cable gland and adjust it without the contact elements touching the braiding. Tighten the cap and conductivity will be established. The design of the contact elements will adapt to different cable diameters according to the clamping range of the cable glands. Since the clamping insert of the cable gland is as long as the gland itself electrical shortcuts between the body and individual wires will be avoided.

Tightening the dome nut will have three different effects: The cable will be centered in the cable gland, the choloprene seal will ensure IP 68 protection, and the design of the dome cap will provide appropriate strain relief. All is done by just one turn of the dome cap. Even uninstalling the cable is easy; open the dome cap and pull the cable out of the cable gland together with the insert, which can then be removed easily.

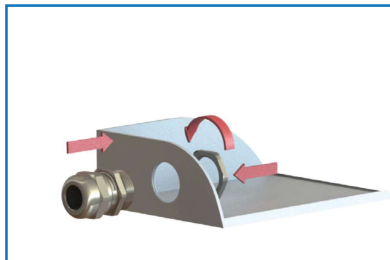


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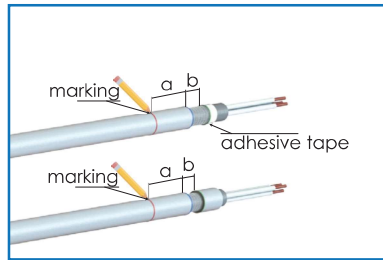
Installation instructions for EMC2 cable glands

In order to avoid electromagnetic interference EMC cable glands include a special EMC component that enlarges the contact with the cable shield. Assembly must be done by trained people only.

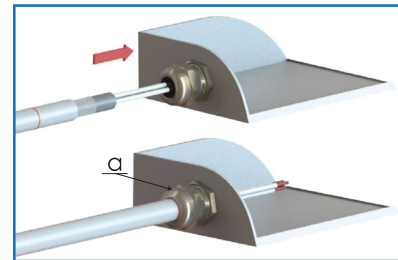
Under clamping pressure the outer sheath of a cable can shrink. We recommend to choosing cable glands whose lower clamping range is sufficiently smaller than the cable's outer dimension.



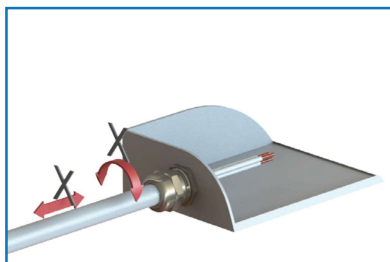
1. Install cable gland to the enclosure with the indicated "torque body". In order to increase contact quality EMC locknut utilization is recommended.



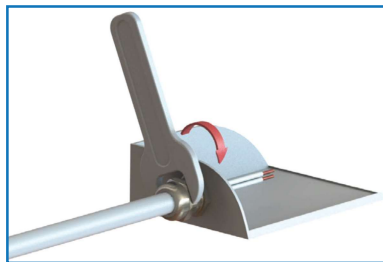
2. a. Remove the outer sheath of the cable carefully and don't cut into the shielding (braiding).
b. Use adhesive tape (preferred: adhesive copper band with conductive adhesive) or part of the outer sheath to protect the end part of the wires. See diagram above.
c. For required exposed length of shielding "b" please see diagram and table in products manual.
d. Mark dimension "a" on outer sheath accordingly. (See table.)



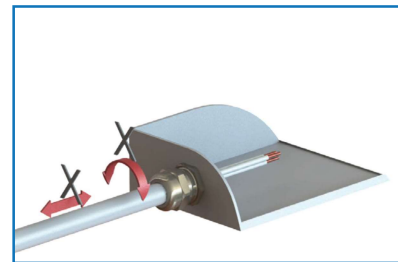
3. Insert cable into cable gland until marking "a" aligns with cap. EMC component will contact shielding.



4. Do not pull or rotate cable after insertion. In doing so cable gland and shielding will be damaged.



5. Tighten cap and apply indicated "torque cap".



6. Do not pull or rotate cable after cap has been tightened. It will damage cable gland and shielding.




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EMC cable glands with fixed spring contact

- Specially designed EMC protective cable glands.
- Long-lasting contact by high definition contact spring.
- Easy assembly: 1- install cable gland 2- prepare cable sheath 3- insert cable 4- tighten cap.
- High quality strain relief and Seal, reliable performance for EMC applications.

Technical Details

Material	Body, Cap	Brass Nickel plated
	Seal	CR (Chloroprene)
	Clamping Insert	PA 6 (Polyamide 6)
	Contact Spring	Special Copper Alloy
	O-Ring	NBR
Ingress Protection Rating		IP 68 - 5 Bar, 30 min
UL Environmental Rating		TYPE 4X acc. to UL 50E
Flammability		V2 according to UL94
Operating Temperature	Permanent	-20 °C to +100 °C
	Intermittent	-40 °C to +150 °C
Thread Type	<ul style="list-style-type: none"> • Metric EN 60423 • PG DIN 40430 • NPT ANSI B1.20.1 • Other thread types also available upon request. 	
Cable Type		Shielded
Accessories	<ul style="list-style-type: none"> • EMC Lock nuts • Dome plugs • Gaskets (Washers) 	
Remarks	<ul style="list-style-type: none"> • In compliance with DIN EN 62444. • We recommend the use of threaded holes and/or the use of special EMC lock nuts to ensure high quality EMC contact quality. • Some approvals do not cover all sizes. • O-ring available in Metric and PG threads as a standard. For NPT threads O-ring available upon request. • All accessories must be ordered separately. • Other lock nut types also available upon request. 	

Approvals	Certificate Number	Standards
	40039349	DIN EN 62444
	E199260	UL514B UL50E CSA22.2 No 18.3-12, CSA22.2 No 94.2-15
	TAE00003WY	EN 62444

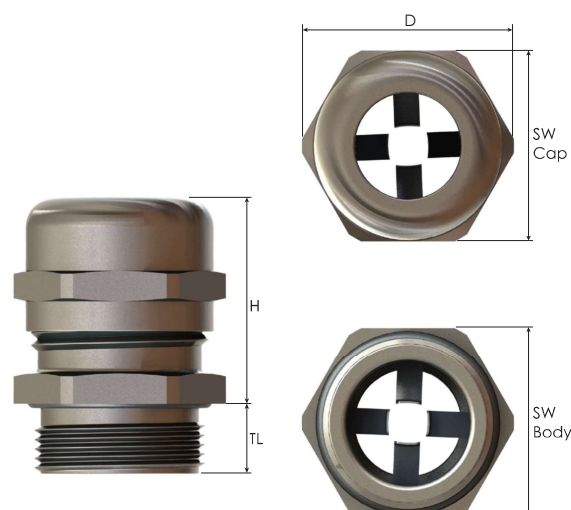
For details of approvals see our webpage.



Thread Type METRIC acc. to EN 60423

Outer Thread Size (Male)	Clamping Range	Shield Diameter	Outer Thread Length	Spanner Width		Outer Ø	max. Height	Part Number
				Cap	Body			
	Ø min-max mm	Ø min-max mm	TL mm	SW Cap mm	SW Body mm	D mm	H mm	
M12x1,5	3,0 - 6,5	2,5 - 4,5	6,0	14	14	15,5	24,0	BMEM-0S
	3,0 - 6,5	2,5 - 4,5	12,0	14	14	15,5	24,0	BMEN-0S
M16x1,5	4,0 - 8,0	3,5 - 6,0	7,0	17	18	20,0	25,5	BMEM-01
	4,0 - 8,0	3,5 - 6,0	12,0	17	18	20,0	25,5	BMEN-01
M20x1,5	5,0 - 10,0	4,0 - 8,0	6,5	20	20	22,0	31,5	BMEM-01S
	6,0 - 12,0	5,0 - 10,0	8,0	22	22	24,5	26,5	BMEM-02
M25x1,5	6,0 - 12,0	5,0 - 10,0	12,0	22	22	24,5	26,5	BMEN-02
	10,0 - 14,0	8,5 - 11,5	8,0	24	27	30,0	30,0	BMEM-03
M32x1,5	10,0 - 14,0	8,5 - 11,5	12,0	24	27	30,0	30,0	BMEN-03
	13,0 - 18,0	11,0 - 14,0	8,0	30	30	33,0	40,0	BMEM-03S
M40x1,5	13,0 - 18,0	11,0 - 14,0	9,0	30	34	37,5	35,0	BMEM-04
	13,0 - 18,0	11,0 - 14,0	15,0	30	34	37,5	35,0	BMEN-04
M50x1,5	18,0 - 25,0	16,0 - 20,0	9,0	40	40	44,5	46,0	BMEM-04S
	18,0 - 25,0	16,0 - 20,0	9,0	40	43	48,5	40,5	BMEM-05
M63x1,5	18,0 - 25,0	16,0 - 20,0	15,0	40	43	48,5	40,5	BMEN-05
	22,0 - 32,0	20,0 - 27,0	9,0	50	50	55,5	54,5	BMEM-05S
M63x1,5	22,0 - 32,0	20,0 - 27,0	9,0	50	55	61,0	50,0	BMEM-06
	22,0 - 32,0	20,0 - 27,0	15,0	50	55	61,0	50,0	BMEN-06
M63x1,5	34,0 - 44,0	31,0 - 40,0	14,0	64	68	75,0	55,0	BMEM-07
	34,0 - 44,0	31,0 - 40,0	18,0	64	68	75,0	55,0	BMEN-07

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Thread Type **NPT** acc. to ANSI B1.20.1

Outer Thread Size (Male)	Clamping Range	Shield Diameter	Outer Thread Length	Spanner Width		Outer Ø	max. Height	Part Number
				Cap	Body			
	Ø min-max mm	Ø min-max mm	TL mm	SW Cap mm	SW Body mm	D mm	H mm	
NPT 3/8"	5,0 - 10,0	4,0 - 8,0	11,5	20	20	22,0	31,5	BNEM-01
NPT 1/2"	6,0 - 12,0	5,0 - 10,0	13,0	22	22	24,5	27,5	BNEM-02
NPT 3/4"	13,0 - 18,0	11,0 - 14,0	13,0	30	30	33,0	38,0	BNEM-03
NPT 1"	18,0 - 25,0	16,0 - 20,0	13,0	40	43	48,5	45,5	BNEM-04

Thread Type **PG** acc. to DIN 40430

Outer Thread Size (Male)	Clamping Range	Shield Diameter	Outer Thread Length	Spanner Width		Outer Ø	max. Height	Part Number
				Cap	Body			
	Ø min-max mm	Ø min-max mm	TL mm	SW Cap mm	SW Body mm	D mm	H mm	
PG 7	3,0 - 6,5	2,5 - 4,5	6,0	14	14	15,5	24,0	BSEM-01
	3,0 - 6,5	2,5 - 4,5	8,0	14	14	15,5	24,0	BSEN-01
PG 9	4,0 - 8,0	3,5 - 6,0	6,0	17	17	18,9	25,5	BSEM-02
	4,0 - 8,0	3,5 - 6,0	10,0	17	17	18,9	25,5	BSEN-02
PG 11	5,0 - 10,0	4,0 - 8,0	6,0	20	20	22,0	28,0	BSEM-03
	5,0 - 10,0	4,0 - 8,0	10,0	20	20	22,0	28,0	BSEN-03
PG 13,5	6,0 - 12,0	5,0 - 10,0	6,5	22	22	24,5	26,5	BSEM-04
	6,0 - 12,0	5,0 - 10,0	10,0	22	22	24,5	26,5	BSEN-04
PG 16	10,0 - 14,0	8,5 - 11,5	6,5	24	24	26,5	30,0	BSEM-05
	10,0 - 14,0	8,5 - 11,5	10,0	24	24	26,5	30,0	BSEN-05
PG 21	13,0 - 18,0	11,0 - 14,0	7,2	30	30	33,0	35,0	BSEM-06
	13,0 - 18,0	11,0 - 14,0	12,0	30	30	33,0	35,0	BSEN-06
PG 29	18,0 - 25,0	16,0 - 20,0	8,0	40	40	44,5	40,5	BSEM-07
	18,0 - 25,0	16,0 - 20,0	12,0	40	40	44,5	40,5	BSEN-07
PG 36	22,0 - 32,0	20,0 - 27,0	9,0	50	50	55,5	50,0	BSEM-08
	22,0 - 32,0	20,0 - 27,0	14,0	50	50	55,5	50,0	BSEN-08
PG 42	30,0 - 38,0	28,0 - 34,0	12,0	58	58	64,0	51,0	BSEM-09
	30,0 - 38,0	28,0 - 34,0	16,0	58	58	64,0	51,0	BSEN-09
PG 48	34,0 - 44,0	31,0 - 40,0	14,0	64	64	70,0	55,0	BSEM-10
	34,0 - 44,0	31,0 - 40,0	18,0	64	64	70,0	55,0	BSEN-10

Order Coding

Part Number	- Gasket (Washer)	EMC Lock Nut	Sealing Plug
Mandatory	- Option	Option	Option
See table	- WC Chloroprene WS Silicone	EL EMC Lock nut	P Dome Plug T Dust Plug
Example			
BMEM-03	- WC	EL	P