

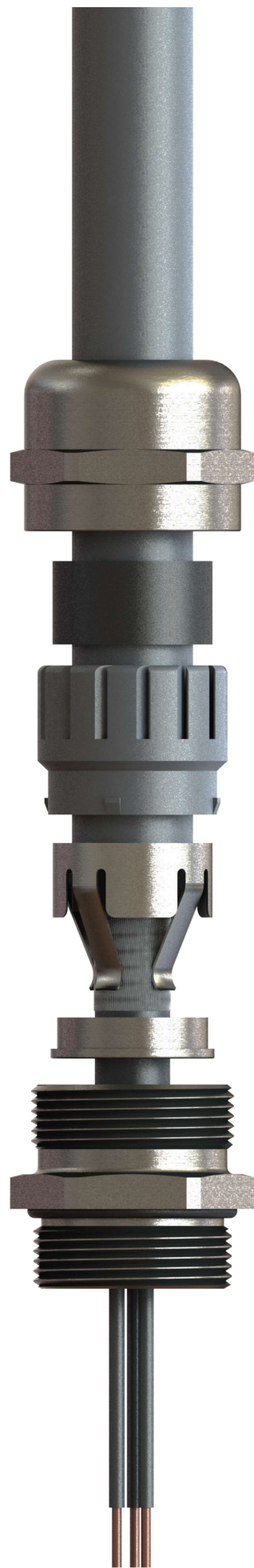
EMC 3 Cable Glands Brass

The new generation of Bimed's EMC and derivation gland shows significant advantages compared to other existing cable glands. The patented contact system inside the gland allows all degrees of freedom which are necessary to install a cable easily; the cable can be pulled forward and backward inside the gland without damaging the cable shielding. This is realized by specially designed contact elements. This feature is most advantageous when connectorizing the single cores of the cable.

Also the cable can easily be rotated inside the gland without damaging the cable shielding – most important when installing the gland at an industrial connector. The unique mechanism of the integrated contact system therefore show the following features:

For small cable diameters in the lower clamping range of the gland the contact system won't touch the cable braiding during the installation process at all. For bigger cable diameters in the upper clamping range of the gland, the contact system will rotate freely inside the gland together with the cable itself. Only when tightening the cap the contact element will be fixed and will be pressed against the cable shielding to ensure a low resistance electrical contact between gland and cable braiding. Simultaneously IP68 protection class and cable anchorage according to the EN 62444 is achieved.

This straight forward application and convenient installation of the gland saves a lot of time and therefore a lot of money. Shielding and derivation tests performed with this gland show exceptional values. So this EMC and derivation gland from Bimed will be used wherever an outstanding performance is needed. Simple application, fast installation together with the patented contact system makes Bimed's gland unique among the cable glands



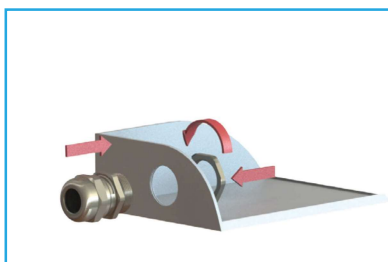
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Installation instructions for EMC3 cable glands

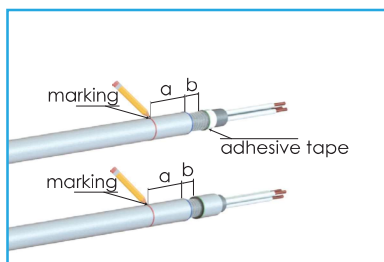
In order to avoid electromagnetic interference EMC cable glands include a special EMC component that enlarges the contact with the cable shield. Assembly must be done by trained people only.

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

The shield diameter must fit.



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

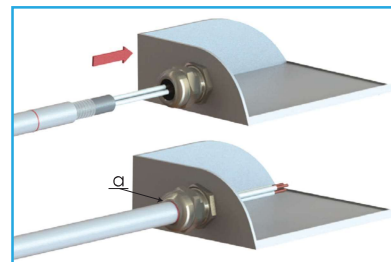


2. a. Remove the outer sheath of the cable carefully and don't cut into the shielding (braiding).

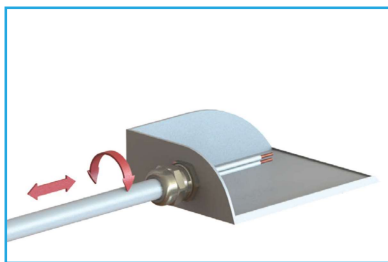
b. Use adhesive tape (preferred: adhesive copper band with conductive adhesive) or part of the outer sheath to protect the end part of the wires. See diagram above.

c. For required exposed length of shielding "b" please see diagram and table in products manual.

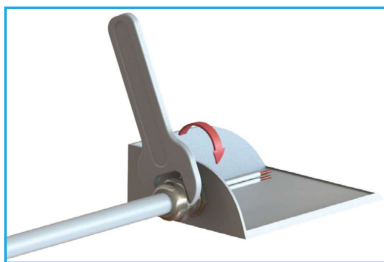
d. Mark dimension "a" on outer sheath accordingly. (See table.)



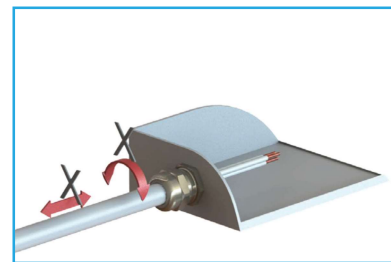
3. Insert cable into cable gland until marking "a" aligns with cap.



4. Do not pull or rotate cable after insertion if no adhesive copper tape is used (2b). Otherwise cable gland and shielding could be damaged.



5. Tighten cap and apply indicated "torque cap". EMC component will contact shielding.






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 moving spring contact

- Specially designed EMC protective cable glands.
- Long-lasting contact by high definition contact spring.
- Moving spring contact offers reduced risk of sheath damage.
- Easy assembly: install cable gland - prepare cable sheath - insert cable - tighten cap.
- High quality strain relief and Seal, reliable performance for EMC applications.
- Up-to-date international approvals.

up to date information on approvals.

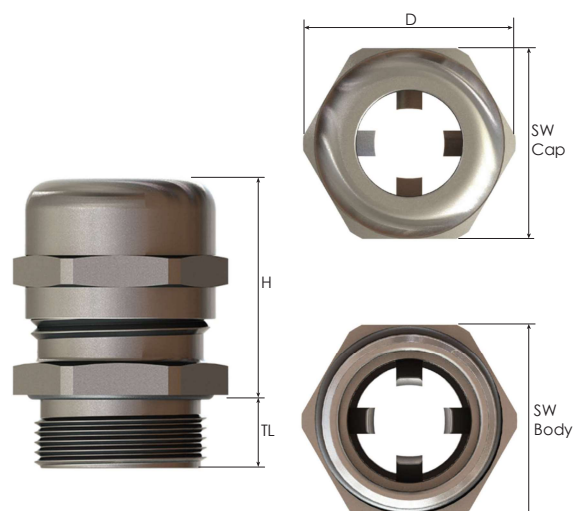
Technical Details		
Material	Body, Cap	Brass Nickel plated
	Seal	CR (Chloroprene)
	Clamping Insert	PA 6 (Polyamide 6)
	Contact Spring	Special Copper Alloy
	O-Ring	NBR
Ingress Protection Rating		IP 68 - 5 Bar, 30 min
UL Environmental Rating		TYPE 4X acc. to UL 50E
Flammability		V2 according to UL94
Operating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



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-E2	-	WC	EL	P

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Industrial Applications

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-E5
M16x1,5	5,0 - 10,0	4,0 - 8,0	7,0	20	20	22,0	32,0	BMEM-E1
M20x1,5	6,0 - 12,0	5,0 - 10,0	8,0	22	22	24,5	29,5	BMEM-E2
M25x1,5	11,0 - 17,0	9,5 - 15,0	8,0	27	27	30,0	33,5	BMEM-E3
M32x1,5	15,0 - 21,0	13,5 - 19,0	8,0	34	34	37,5	38,0	BMEM-E4
M40x1,5	19,0 - 28,0	17,0 - 25,0	9,0	43	43	48,5	48,0	BMEM-E5
M50x1,5	27,0 - 38,0	25,0 - 32,0	9,0	58	58	64,0	56,0	BMEM-E6
M63x1,5	34,0 - 44,0	31,0 - 41,0	14,0	64	68	75,0	59,5	BMEM-E7