



EMC Cable Glands from Siemens are the perfect complement to PROTOFLEX-EMV screen cables providing an efficient shield connection that meets the requirements of both AS/NZS CISPR-11 and EN 55011.

Consisting of a few components they are quick and easy to install. Tightening the pressure nut causes the insert to press against two taper rings which, in turn, press on an endless spring washer, making its diameter taper, thus permanently bonding the screen braid of the threaded cable. The result is a low resistance connection between the cable screen and the housing of the electrical equipment via the gland body.

In order to conform with the radio interference suppression requirements set forth in EN 55011, the shield must be connected around its entire circumference and over an ample surface area at both ends of the cable.

ADVANTAGES

- easily assembled
- 360° bonding on screen
- large sealing ranges
- IP68
- high attenuation
- sheath can still be continued on into the equipment housing

THE EARTHING PROBLEM

The paint on cubicles and equipment housings has to be removed so the metal gland body is in direct contact with the bare metal of the equipment to ensure the earth bonding circuit is compliant.

THE SOLUTION

The 6 teeth of the lock nut are for equipotential bonding and scrape into the insulating layers of paint or powder to create a vibration-resistant contact.

- no surface corrosion
- very low-ohm transition; gland/housing
- no need to clean contact surface
- increases the installed vibration-resistance through frictional connection

Cable Cross Section	Cable Gland	Lock Nut
mm	Part No.	Part No.
4 x 1.5	100210368	100203808
4 x 2.5	100210999	100204211
4 x 4	100210738	100204211
4 x 6	100210708	100204211
4 x 10	100206872	100204211
3 x 16 + 3 x 2.5/3	100206246	100206391
3 x 25 + 3 x 4/3	100207312	100207739
3 x 35 + 3 x 16/3	100208193	100207739
3 x 50 + 3 x 25/3	100208574	100209917
3 x 70 + 3 x 35/3	100209510	100209917
3 x 95 + 3 x 50/3	100209202	100210718
3 x 120 + 3 x 50/3	100209598	100210718
3 x 150 + 3 x 70/3	100209276	100210735
3 x 185 + 3 x 95/3	100210042	100211073
4 x 240 + 3 x 120/3	100200893	100200894

Selection and Ordering Data

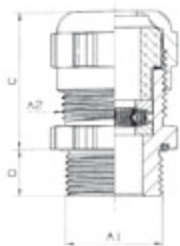


Fig. 1

Cable gland drawing and dimensions

Cable cross section	Glands Part No	Lock Nut Part No.	A1	Overall Thread Height C
mm	Part No.	Part No.		mm
4 x 1.5	100210368	100203808	M 20 x 1.5	31
4 x 2.5	100210999	100204211	M 25 x 1.5	32
4 x 4	100210738	100204211	M 25 x 1.5	32
4 x 6	100210708	100204211	M 25 x 1.5	32
4 x 10	100206872	100204211	M 25 x 1.5	34
3 x 16 + 3 x 2.5/3	100206246	100206391	M 32 x 1.5	39
3 x 25 + 3 x 4/3	100207312	100207739	M 40 x 1.5	45
3 x 35 + 3 x 16/3	100208193	100207739	M 40 x 1.5	45
3 x 50 + 3 x 25/3	100208574	100209917	M 50 x 1.5	50
3 x 70 + 3 x 35/3	100209510	100209971	M 50 x 1.5	58
3 x 95 + 3 x 50/3	100209202	100210718	M 63 x 1.5	58
3 x 120 + 3 x 50/3	100209598	100210718	M 63 x 1.5	58
3 x 185 + 3 x 95/3	100210042	100211073	M 75 x 1.5	47
3 x 240 + 3 x 120/3	100200893	100200894	M 80 x 2.0	61

Gland Part No	No. of Cores x Conductor size	Cable Diameter		Sealing Diameter
		Max mm	Min mm	Max mm
mm ²				
100210368	Protoflex EMV 4 x 1.5mm	11.5	7.0	11.0
100210999	Protoflex EMV 4 x 2.5mm	13.0	10.0	14.0
100210738	Protoflex EMV 4 x 4 mm	15.5	14.0	18.0
100210708	Protoflex EMV 4 x 6 mm	17.0	14.0	18.0
100206872	Protoflex EMV 4 x 10 mm	19.5	17.0	20.0
100206246	Protoflex EMV 3 x 16 + 3 x 2.5/3	21.0	19.0	23.0
100207312	Protoflex EMV 3 x 25 + 3 x 4/3	24.5	25.0	29.0
100208193	Protoflex EMV 3 x 35 + 3 x 16/3	28.0	25.0	29.0
100208574	Protoflex EMV 3 x 50 + 3 x 25/3	33.0	32.0	37.0
100209510	Protoflex EMV 3 x 70 + 3 x 35/3	37.0	37.0	41.0
100209202	Protoflex EMV 3 x 95 + 3 x 50/3	42.0	40.0	45.0
100209598	Protoflex EMV 3 x 120 + 3 x 50/3	46.5	45.0	51.0
100209276	Protoflex EMV 3 x 150 + 3 x 70/3	51.5	51.0	55.0
100210042	Protoflex EMV 3 x 185 + 3 x 95/3	57.0	54.0	58.0
100200893	Protoflex EMV 3 x 240 + 3 x 120/3	64.5	63.0	70.0