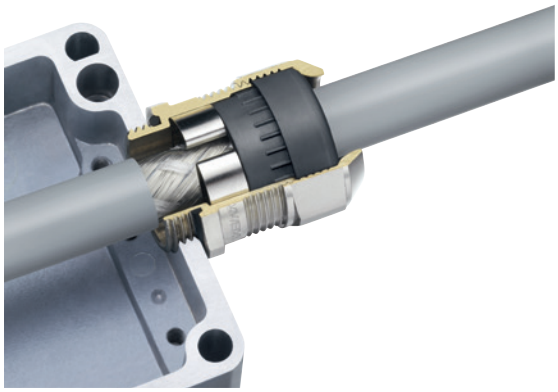
EMC cable glands

Use

The electromagnetic compatibility (EMC) in the industrial sector plays a key role because complex machines and systems are extremely susceptible to electromagnetic interference. Such undesired effects, however, can be counteracted with the effective shielding of all components and not only cables. As passive components, cable glands must ensure that the quality of the shielding at sensitive interconnection points remains intact and that there are no losses due to the shielding.
The EMC cable glands guarantee a powerful, protective clamping of the cable shield and excellent shield contact providing for the smallest possible transfer impedance. The shape of the contact spring not only allows for a large clamping range to the shield but also for easy disassembly without damaging the EMC braid.
Our EMC metallic cable glands are produced with a particular geometry that assures an equal cable compression having a large clamping and sealing areas designed for a secure and flexible everyday use. These cable glands, supplied with the o-ring on thread side, are produced with a short or long thread for secure fastening with thread or the special EMC counter nut with cutter teeth. The elastic sealing rings have a good chemical resistance and they provide a reliable seal with a guaranteed IP 68 (10 bar) and IP 69K protection classes. On request we can provide a "multiple" cable gland producing a customized sealing ring, it is sufficient to provide number and diameter of the cables to be wired.

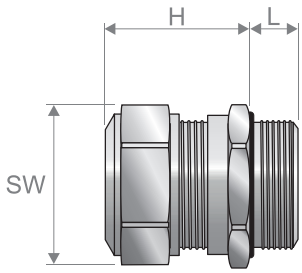


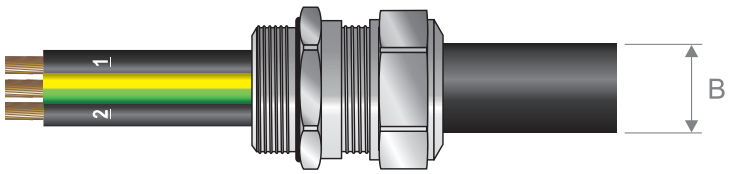
Technical data

Characteristics	Value/property
Material	Nickel-plated brass
Material of the contact spring	Steeel
Sealing ring material	TPE, two-pieces.
O-ring material	NBR
Compatible cables	Non-armoured shielded cables
Temperature range	-60°C, +100°C
Protection class	IP 68 (10 bar) IP 69K
Standards of construction	EN/IEC 62444 UL 514B (ccn QCRV2, QCRV8) CSA C22.2 N. 18.3
Standards of use	NFPA 79, UL 508a CSA C22.1 (CE Code), CSA C22.2 N.301, CSA C22.2 N.286 UL 514B, CSA C22.2 N.18.3

Coding and dimensions

Straight cable gland



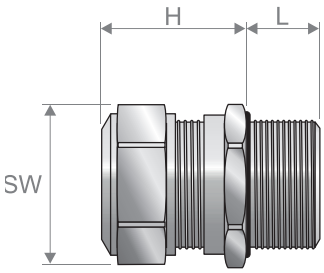


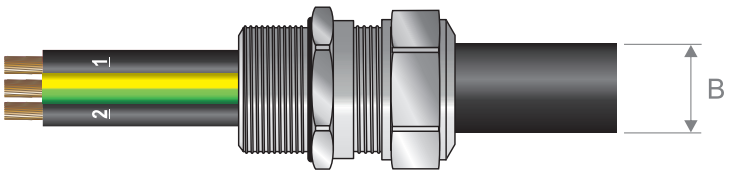
B = *Overall cable diameter*

Code	Thread	Tightening key SW [mm]	Cable diameter B Min/Max [mm]	Sizes [mm]		Packaging [pcs]
				H	L	
PCM500_M012X010 (1)	M12x1,5	15	3,5÷5,0	22,0	5,0	50
PCM500_M012X020 (1)	M12x1,5	15	5,0÷6,5	22,0	5,0	50
PCM500_M016X010 (1)	M16x1,5	18	6,0÷10,5	25,0	5,0	50
PCM500_M020X010 (1)	M20x1,5	24	8,0÷15,0	27,0	6,0	50
PCM500_M025X010 (1)	M25x1,5	30	12,5÷20,5	33,0	7,0	25
PCM500_M032X010 (1)	M32x1,5	36	17,0÷25,5	33,0	8,0	25
PCM500_M040X010 (1)	M40x1,5	46	24,0÷33,0	38,0	8,0	10
PCM500_M050X010 (1)	M50x1,5	55	33,0÷42,0	42,0	9,0	10
PCM500_M063X010 (1)	M63x1,5	70	40,0÷52,0	42,0	10,0	5

(1) c(UR)us Recognized certified (ccn QCRV,2, QCRV8)

Long straight cable gland



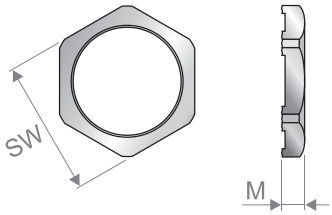


B = *Overall cable diameter*

Code	Thread	Tightening key SW [mm]	Cable diameter B Min/Max [mm]	Sizes [mm]		Packaging [pcs]
				H	L	
PCM501_M012X010 (1)	M12x1,5	15	3,5÷5,0	22,0	10,0	50
PCM501_M012X020 (1)	M12x1,5	15	5,0÷6,5	22,0	10,0	50
PCM501_M016X010 (1)	M16x1,5	18	6,0÷10,5	25,0	10,0	50
PCM501_M020X010 (1)	M20x1,5	24	8,0÷15,0	27,0	10,0	50
PCM501_M025X010 (1)	M25x1,5	30	12,5÷20,5	33,0	11,0	25
PCM501_M032X010 (1)	M32x1,5	36	17,0÷25,5	33,0	13,0	25
PCM501_M040X010 (1)	M40x1,5	46	24,0÷33,0	38,0	13,0	10
PCM501_M050X010 (1)	M50x1,5	55	33,0÷42,0	42,0	14,0	10
PCM501_M063X010 (1)	M63x1,5	70	40,0÷52,0	42,0	14,0	5

(1) c(UR)us Recognized certified (ccn QCRV,2, QCRV8)

Serrated lock nut



Code	Thread	Tightening key SW [mm]	Sizes M [mm]	Packaging [pcs]
PCFM50_M012X	M12x1,5	15	3,5	25
PCFM50_M016X	M16x1,5	19	3,5	25
PCFM50_M020X	M20x1,5	24	4,0	25
PCFM50_M025X	M25x1,5	30	4,0	10
PCFM50_M032X	M32x1,5	36	5,0	10
PCFM50_M040X	M40x1,5	46	5,3	10
PCFM50_M050X	M50x1,5	55	6,3	10
PCFM50_M063X	M63x1,5	70	7,0	10
PCFM50_P007X	Pg 7	15	3,3	25
PCFM50_P009X	Pg 9	18	3,3	25
PCFM50_P011X	Pg 11	21	3,5	25
PCFM50_P013X	Pg 13	24	3,5	25
PCFM50_P016X	Pg 16	26	3,5	25
PCFM50_P021X	Pg 21	32	4,0	10
PCFM50_P029X	Pg 29	41	4,6	10
PCFM50_P036X	Pg 36	50	5,8	10
PCFM50_P042X	Pg 42	60	5,8	10
PCFM50_P048X	Pg 48	64	6,5	10

Materials: Nickel-plated brass

Code composition

PC	□□□□	_	□	□□□	X	□□□

Diameter range
Code depending on the cable range.

Family
Code depending on the glands' family.

Version	To be interted
Metric	M

Thread	To be interted
M12, M16, …, M32	012, 016, …, 032

Lock nut

PC	□□□□	_	□	□□□

Family
Code depending on the lock nuts' family.

Version	To be interted
Metric	M
PG	P

Thread	To be interted
M12, M16, …, M63	012, 016, …, 063
Pg 7, Pg 9, …, Pg 48	007, 009, …, 048