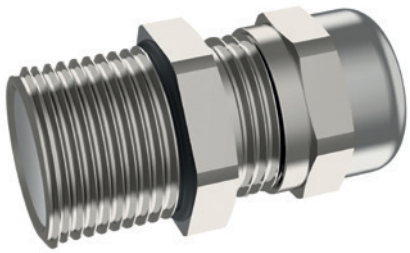
Cable glands for TC cables

For use in Ordinary Locations and Class/Division/Zone and Atex Hazardous Locations – “UL/CSA Listed”



Use

These cable glands are designed for use with Tray Cables (TC, TC-ER, TC-ER-HL) in ordinary locations, for industrial and commercial electrical installations such as control panels, enclosures, and equipment, as well as for applications in environments where the risk of explosion due to the presence of flammable gases or combustible vapors is limited to abnormal or accidental conditions (Class I Division 2 / Zone 2), limited to the versions specifically certified for such environments. The cable glands help maintain the degree of protection of the enclosure by preventing the ingress of dust, moisture, and external agents. They are manufactured in nickel-plated brass, AISI 316 stainless steel, and aluminum. The sealing system is based on elastomeric gaskets that ensure proper tightening and effective sealing on the cable. Versions intended for hazardous locations are c(UL)us certified for Class I Division 2 and ATEX / IECEx certified for Zone 2, making them suitable for use in areas with an occasional presence of explosive atmospheres.

Technical data

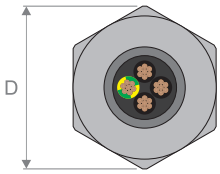
Characteristics	Value/property
Material	Nickel-plated brass, AISI 316L stainless steel or aluminum
Sealing ring material	Chloroprene, made of 3 concentric elements, water-tight seal on outer sheath of cable
O-ring material	Chloroprene
Compatible cables	Unarmored TC, TC-ER and TC-ER-HL cables. Cable/cable gland matching table in Appendix R2.
Temperature range	-40°C, +80°C
Protection class(1)	UL Type 4X IP66, IP68(2)
Standards of construction	EN/IEC 62444, ISO 965-1, ISO 965-3, ASME B1.20.1 EN/IEC 60079-0, -1, -7, -31 UL 50E, UL 514B (ccn QPOZ, QPOZ2), UL 2225 (ccn CYMJ, CYMJ7) UL/ANSI 60079-0, -7, -31 CSA C22.2 N. 18.3, N. 94.2, N. 14 CSA C22.2 N. 60079-0, -7, -31
Standards of use	NPFA 70 (NEC), NFPA 79, UL 508a CSA C22.1 (CE Code), CSA C22.2 N.301, CSA C22.2 N.286 ATEX: Ⓔx II 2GD, Ex db IIC Gb, Ex eb IIC Gb, Ex tb IIIC Db IECEx: Ex db IIC Gb, Ex eb IIC Gb, Ex tb IIIC Db (UL)us: Class I, Div 2, Groups C, D (3); Zone 1, AEx e IIC Gb; Zone 21, AEx tb IIIC Db; Zone 2, AEx e IIC Gc; Zone 22, AEx tc IIIC Dc; Zone 22, AEx tc IIIC c(UL): Class I, Div 2, Groups C, D (3); Zone 1, Ex e IIC Gb; Zone 21, Ex tb IIIC Db; Zone 2, Ex e IIC Gc; Zone 22, Ex tc IIIC Dc; Zone 21, Ex tb IIIC Db Others: 2014/34/UE ATEX

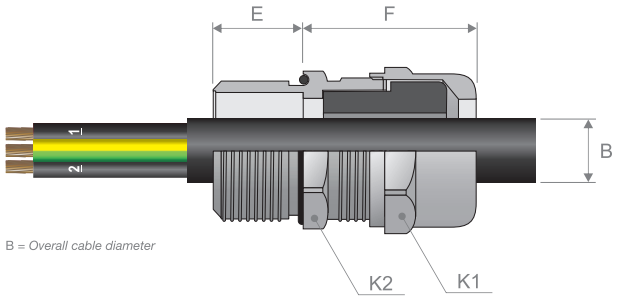
(1) Only if installed with original accessories.

(2) IP68 tested at 5 bar for 30 min.

(3) Cable glands are certified according to UL 2225 and marked with protection type “e” and are permitted for use in Class I, Division 2.

Coding and dimensions





B = Overall cable diameter

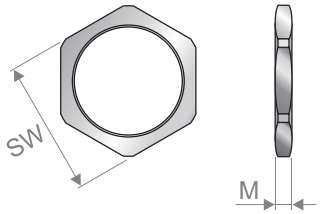
Code	Material	Thread	Sizes [mm (inch)]						
			B		D	K1	K2	E	F
			Min	Max					
PCM800_M016X010ON (2) (3)	ON	M16 X 1.5	4,0 (0,157)	12,0 (0,472)	24,5 (0,965)	22,0 (0,866)	22,0 (0,866)	16,0 (0,630)	33,0 (1,299)
PCM800_M020X010ON (1) (3)	ON	M20 X 1.5	4,0 (0,157)	12,0 (0,472)	24,5 (0,965)	22,0 (0,866)	22,0 (0,866)	16,0 (0,630)	29,0 (1,142)
PCM800_M025X010ON (3)	ON	M25 X 1.5	4,0 (0,157)	12,0 (0,472)	31,0 (1,220)	22,0 (0,866)	28,0 (1,102)	16,0 (0,630)	29,0 (1,142)
PCM800_M025X020ON (1) (3)	ON	M25 X 1.5	10,0 (0,394)	18,0 (0,709)	31,0 (1,220)	28,0 (1,102)	28,0 (1,102)	16,0 (0,630)	32,5 (1,280)
PCM800_M032X010ON (3)	ON	M32 X 1.5	10,0 (0,394)	18,0 (0,709)	39,0 (1,535)	28,0 (1,102)	35,0 (1,378)	16,0 (0,630)	32,5 (1,280)
PCM800_M032X020ON (1) (3)	ON	M32 X 1.5	14,0 (0,551)	24,0 (0,945)	39,0 (1,535)	35,0 (1,378)	35,0 (1,378)	16,0 (0,630)	35,0 (1,378)
PCM800_M040X010ON (3)	ON	M40 X 1.5	14,0 (0,551)	24,0 (0,945)	49,5 (1,949)	35,0 (1,378)	45,0 (1,772)	18,0 (0,709)	35,0 (1,378)
PCM800_M040X020ON (1) (3)	ON	M40 X 1.5	22,0 (0,866)	32,0 (1,260)	49,5 (1,949)	45,0 (1,772)	45,0 (1,772)	18,0 (0,709)	42,5 (1,673)
PCM800_M050X010ON (3)	ON	M50 X 1.5	22,0 (0,866)	32,0 (1,260)	61,0 (2,402)	45,0 (1,772)	55,0 (2,165)	18,0 (0,709)	42,5 (1,673)
PCM800_M050X020ON (1) (3)	ON	M50 X 1.5	26,0 (1,024)	35,0 (1,378)	61,0 (2,402)	50,0 (1,969)	55,0 (2,165)	18,0 (0,709)	45,5 (1,791)
PCM800_M050X030ON (1) (3)	ON	M50 X 1.5	35,0 (1,378)	44,0 (1,732)	70,0 (2,756)	64,0 (2,520)	64,0 (2,520)	18,0 (0,709)	45,0 (1,772)
PCM800_M063X010ON (1) (3)	ON	M63 X 1.5	35,0 (1,378)	45,0 (1,772)	75,0 (2,953)	64,0 (2,520)	68,0 (2,677)	18,0 (0,709)	45,0 (1,772)
PCM800_N050X010ON (1)	ON	NPT 1/2"	4,0 (0,157)	12,0 (0,472)	24,5 (0,965)	22,0 (0,866)	22,0 (0,866)	16,0 (0,630)	29,0 (1,142)
PCM800_N075X020ON (1)	ON	NPT 3/4"	10,0 (0,394)	18,0 (0,709)	31,0 (1,220)	28,0 (1,102)	28,0 (1,102)	16,0 (0,630)	32,0 (1,260)
PCM800_N100X020ON (1)	ON	NPT 1"	14,0 (0,551)	24,0 (0,945)	39,0 (1,535)	35,0 (1,378)	35,0 (1,378)	20,0 (0,787)	35,0 (1,378)
PCM800_N125X020ON (1)	ON	NPT 1"1/4	22,0 (0,866)	32,0 (1,260)	49,5 (1,949)	45,0 (1,772)	45,0 (1,772)	20,0 (0,787)	42,5 (1,673)
PCM800_N150X020ON (1)	ON	NPT 1"1/2	26,0 (1,024)	35,0 (1,378)	61,0 (2,402)	50,0 (1,969)	55,0 (2,165)	20,0 (0,787)	45,5 (1,791)
PCM800_N150X030ON (1)	ON	NPT 1"1/2	35,0 (1,378)	41,0 (1,614)	70,0 (2,756)	64,0 (2,520)	64,0 (2,520)	20,0 (0,787)	44,0 (1,732)
PCM800_M016X010A6 (2) (3)	A6	M16 X 1.5	4,0 (0,157)	12,0 (0,472)	24,5 (0,965)	22,0 (0,866)	22,0 (0,866)	16,0 (0,630)	33,0 (1,299)
PCM800_M020X010A6 (1) (3)	A6	M20 X 1.5	4,0 (0,157)	12,0 (0,472)	24,5 (0,965)	22,0 (0,866)	22,0 (0,866)	16,0 (0,630)	29,0 (1,142)
PCM800_M025X010A6 (3)	A6	M25 X 1.5	4,0 (0,157)	12,0 (0,472)	31,0 (1,220)	22,0 (0,866)	28,0 (1,102)	16,0 (0,630)	29,0 (1,142)
PCM800_M025X020A6 (1) (3)	A6	M25 X 1.5	10,0 (0,394)	18,0 (0,709)	31,0 (1,220)	28,0 (1,102)	28,0 (1,102)	16,0 (0,630)	32,5 (1,280)
PCM800_M032X010A6 (3)	A6	M32 X 1.5	10,0 (0,394)	18,0 (0,709)	39,0 (1,535)	28,0 (1,102)	35,0 (1,378)	16,0 (0,630)	32,5 (1,280)
PCM800_M032X020A6 (1) (3)	A6	M32 X 1.5	14,0 (0,551)	24,0 (0,945)	39,0 (1,535)	35,0 (1,378)	35,0 (1,378)	16,0 (0,630)	35,0 (1,378)
PCM800_M040X010A6 (3)	A6	M40 X 1.5	14,0 (0,551)	24,0 (0,945)	49,5 (1,949)	35,0 (1,378)	45,0 (1,772)	18,0 (0,709)	35,0 (1,378)
PCM800_M040X020A6 (1) (3)	A6	M40 X 1.5	22,0 (0,866)	32,0 (1,260)	49,5 (1,949)	45,0 (1,772)	45,0 (1,772)	18,0 (0,709)	42,5 (1,673)

Code	Material	Thread	Sizes [mm (inch)]						
			B		D	K1	K2	E	F
			Min	Max					
PCM800_M050X010A6 (3)	A6	M50 X 1.5	22,0 (0,866)	32,0 (1,260)	61,0 (2,402)	45,0 (1,772)	55,0 (2,165)	18,0 (0,709)	42,5 (1,673)
PCM800_M050X020A6 (1) (3)	A6	M50 X 1.5	26,0 (1,024)	35,0 (1,378)	61,0 (2,402)	50,0 (1,969)	55,0 (2,165)	18,0 (0,709)	45,5 (1,791)
PCM800_M050X030A6 (1) (3)	A6	M50 X 1.5	35,0 (1,378)	44,0 (1,732)	70,0 (2,756)	64,0 (2,520)	64,0 (2,520)	18,0 (0,709)	45,0 (1,772)
PCM800_M063X010A6 (1) (3)	A6	M63 X 1.5	35,0 (1,378)	45,0 (1,772)	75,0 (2,953)	64,0 (2,520)	68,0 (2,677)	18,0 (0,709)	45,0 (1,772)
PCM800_N050X010A6 (1)	A6	NPT 1/2"	4,0 (0,157)	12,0 (0,472)	24,5 (0,965)	22,0 (0,866)	22,0 (0,866)	16,0 (0,630)	29,0 (1,142)
PCM800_N075X020A6 (1)	A6	NPT 3/4"	10,0 (0,394)	18,0 (0,709)	31,0 (1,220)	28,0 (1,102)	28,0 (1,102)	16,0 (0,630)	32,0 (1,260)
PCM800_N100X020A6 (1)	A6	NPT 1"	14,0 (0,551)	24,0 (0,945)	39,0 (1,535)	35,0 (1,378)	35,0 (1,378)	20,0 (0,787)	35,0 (1,378)
PCM800_N125X020A6 (1)	A6	NPT 1"1/4	22,0 (0,866)	32,0 (1,260)	49,5 (1,949)	45,0 (1,772)	45,0 (1,772)	20,0 (0,787)	42,5 (1,673)
PCM800_N150X020A6 (1)	A6	NPT 1"1/2	26,0 (1,024)	35,0 (1,378)	61,0 (2,402)	50,0 (1,969)	55,0 (2,165)	20,0 (0,787)	45,5 (1,791)
PCM800_N150X030A6 (1)	A6	NPT 1"1/2	35,0 (1,378)	41,0 (1,614)	70,0 (2,756)	64,0 (2,520)	64,0 (2,520)	20,0 (0,787)	44,0 (1,732)
PCM800_M016X010AL (2) (3)	AL	M16 X 1.5	4,0 (0,157)	12,0 (0,472)	24,5 (0,965)	22,0 (0,866)	22,0 (0,866)	16,0 (0,630)	33,0 (1,299)
PCM800_M020X010AL (1) (3)	AL	M20 X 1.5	4,0 (0,157)	12,0 (0,472)	24,5 (0,965)	22,0 (0,866)	22,0 (0,866)	16,0 (0,630)	29,0 (1,142)
PCM800_M025X010AL (3)	AL	M25 X 1.5	4,0 (0,157)	12,0 (0,472)	31,0 (1,220)	22,0 (0,866)	28,0 (1,102)	16,0 (0,630)	29,0 (1,142)
PCM800_M025X020AL (1) (3)	AL	M25 X 1.5	10,0 (0,394)	18,0 (0,709)	31,0 (1,220)	28,0 (1,102)	28,0 (1,102)	16,0 (0,630)	32,5 (1,280)
PCM800_M032X010AL (3)	AL	M32 X 1.5	10,0 (0,394)	18,0 (0,709)	39,0 (1,535)	28,0 (1,102)	35,0 (1,378)	16,0 (0,630)	32,5 (1,280)
PCM800_M032X020AL (1) (3)	AL	M32 X 1.5	14,0 (0,551)	24,0 (0,945)	39,0 (1,535)	35,0 (1,378)	35,0 (1,378)	16,0 (0,630)	35,0 (1,378)
PCM800_M040X010AL (3)	AL	M40 X 1.5	14,0 (0,551)	24,0 (0,945)	49,5 (1,949)	35,0 (1,378)	45,0 (1,772)	18,0 (0,709)	35,0 (1,378)
PCM800_M040X020AL (1) (3)	AL	M40 X 1.5	22,0 (0,866)	32,0 (1,260)	49,5 (1,949)	45,0 (1,772)	45,0 (1,772)	18,0 (0,709)	42,5 (1,673)
PCM800_M050X010AL (3)	AL	M50 X 1.5	22,0 (0,866)	32,0 (1,260)	61,0 (2,402)	45,0 (1,772)	55,0 (2,165)	18,0 (0,709)	42,5 (1,673)
PCM800_M050X020AL (1) (3)	AL	M50 X 1.5	26,0 (1,024)	35,0 (1,378)	61,0 (2,402)	50,0 (1,969)	55,0 (2,165)	18,0 (0,709)	45,5 (1,791)
PCM800_M050X030AL (1) (3)	AL	M50 X 1.5	35,0 (1,378)	44,0 (1,732)	70,0 (2,756)	64,0 (2,520)	64,0 (2,520)	18,0 (0,709)	45,0 (1,772)
PCM800_M063X010AL (1) (3)	AL	M63 X 1.5	35,0 (1,378)	45,0 (1,772)	75,0 (2,953)	64,0 (2,520)	68,0 (2,677)	18,0 (0,709)	45,0 (1,772)
PCM800_N050X010AL (1)	AL	NPT 1/2"	4,0 (0,157)	12,0 (0,472)	24,5 (0,965)	22,0 (0,866)	22,0 (0,866)	16,0 (0,630)	29,0 (1,142)
PCM800_N075X020AL (1)	AL	NPT 3/4"	10,0 (0,394)	18,0 (0,709)	31,0 (1,220)	28,0 (1,102)	28,0 (1,102)	16,0 (0,630)	32,0 (1,260)
PCM800_N100X020AL (1)	AL	NPT 1"	14,0 (0,551)	24,0 (0,945)	39,0 (1,535)	35,0 (1,378)	35,0 (1,378)	20,0 (0,787)	35,0 (1,378)
PCM800_N125X020AL (1)	AL	NPT 1"1/4	22,0 (0,866)	32,0 (1,260)	49,5 (1,949)	45,0 (1,772)	45,0 (1,772)	20,0 (0,787)	42,5 (1,673)
PCM800_N150X020AL (1)	AL	NPT 1"1/2	26,0 (1,024)	35,0 (1,378)	61,0 (2,402)	50,0 (1,969)	55,0 (2,165)	20,0 (0,787)	45,5 (1,791)
PCM800_N150X030AL (1)	AL	NPT 1"1/2	35,0 (1,378)	41,0 (1,614)	70,0 (2,756)	64,0 (2,520)	64,0 (2,520)	20,0 (0,787)	44,0 (1,732)

Materials' description: ON = Nickel-plated brass, A6 = AISI 316L stainless steel, AL = Aluminum

(1) Cable gland for ordinary locations and Class/Division/Zone hazardous locations – UL Listed (ccn QPOZ) and c(UL)us Listed (ccn CYMJ, CYMJ7) certified.
(2) Cable gland for ordinary locations – UL Recognized (ccn QPOZ2) certified.
(3) Cable gland for explosive hazardous areas – ATEX/IECEx certified.
- Locknuts are not included, provided separately.
- Due to the production tolerances to which electrical cables are subject, it is recommended to choose the correct cable gland by measuring the minimum and maximum diameter of the cable to be installed.

Lock nut



Code	Material	Thread	Tightening key [mm (inch)] SW	Sizes [mm (inch)] M
PCFM10_M016X	ON	M16x1,5	19,0 (0,748)	3,0 (0,118)
PCFM10_M020X	ON	M20x1,5	24,0 (0,945)	3,5 (0,138)
PCFM10_M025X	ON	M25x1,5	30,0 (1,181)	4,0 (0,157)
PCFM10_M032X	ON	M32x1,5	36,0 (1,417)	4,0 (0,157)
PCFM10_M040X	ON	M40x1,5	46,0 (1,811)	5,0 (0,197)
PCFM10_M050X	ON	M50x1,5	55,0 (2,165)	5,5 (0,217)
PCFM10_M063X	ON	M63x1,5	70,0 (2,756)	6,0 (0,236)
PCFM11_N050XON	ON	NPT 1/2"	24,0 (0,945)	5,0 (0,197)
PCFM11_N075XON	ON	NPT 3/4"	34,0 (1,339)	6,0 (0,236)
PCFM11_N100XON	ON	NPT 1"	42,0 (1,654)	6,0 (0,236)
PCFM11_N125XON	ON	NPT 1"1/4	52,0 (2,047)	7,0 (0,276)
PCFM11_N150XON	ON	NPT 1"1/2	60,0 (2,362)	7,0 (0,276)
PCFM10_M016XA6	A6	M16x1,5	19,0 (0,748)	3,0 (0,118)
PCFM10_M020XA6	A6	M20x1,5	24,0 (0,945)	3,5 (0,138)
PCFM10_M025XA6	A6	M25x1,5	30,0 (1,181)	3,5 (0,138)
PCFM10_M032XA6	A6	M32x1,5	36,0 (1,417)	4,5 (0,177)
PCFM10_M040XA6	A6	M40x1,5	46,0 (1,811)	4,5 (0,177)
PCFM10_M050XA6	A6	M50x1,5	55,0 (2,165)	5,5 (0,217)
PCFM10_M063XA6	A6	M63x1,5	70,0 (2,756)	6,0 (0,236)
PCFM11_N050XA6	A6	NPT 1/2"	24,0 (0,945)	5,0 (0,197)
PCFM11_N075XA6	A6	NPT 3/4"	35,0 (1,378)	6,0 (0,236)
PCFM11_N100XA6	A6	NPT 1"	46,0 (1,811)	6,0 (0,236)
PCFM11_N125XA6	A6	NPT 1"1/4	55,0 (2,165)	7,0 (0,276)
PCFM11_N150XA6	A6	NPT 1"1/2	60,0 (2,362)	7,0 (0,276)

Materials' description: ON = Nickel-plated brass, AI = AISI 316L stainless steel

Code composition

PC	□□□□	_	□	□□□	X	□□□	□□

Family	To be inserted
Cable gland	M800
Lock nut	FM10, FM11

Version	To be inserted
Metric	M
NPT	N

Thread	To be inserted
M16, M20, …, M100	016, 020, …, 100
NPT 1/2", 3/4", …, 4"	050, 075, …, 400

Material	To be inserted
Nickel-plated brass	ON
AISI 316L stainless steel	A6
Aluminum	AL

Diameter range
Code depending on the cable range.