Cable glands for unarmoured cables for Hazardous Locations

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

Use

These barrier cable glands are designed for use with unarmored cables used in environments where there is a risk of explosion due to the presence of flammable gases, vapors, or combustible dusts (Class I Division 1 / Zone 1). These cable glands play a crucial role in maintaining the integrity of the enclosure by preventing the ingress of hazardous substances and preventing potential explosions from propagating outside the hazardous area. They are made of nickel-plated brass or AISI 316 stainless steel and are available on request in brass or aluminum. The barrier is created through a special two-component liquid resin that completely seals the conductors inside the cable gland body. They are certified by c(UL)us, c(CSA) us, IECEx, and ATEX.

Technical data

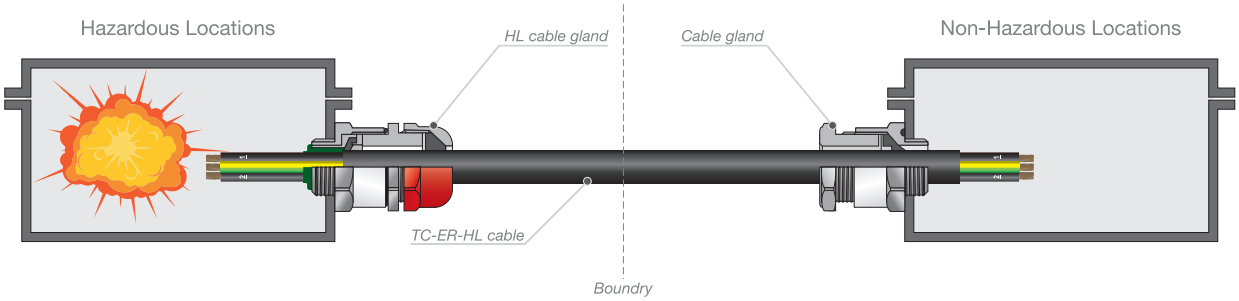
Characteristics	Value/property
Material	Nickel-plated brass or AISI 316 stainless steel, brass or aluminum available upon request.
Sealing type	Explosion proof, RapidEx liquid resin barrier seal on conductors and watertight seal on outer sheath of cable.
Compatible cables	Unarmored cables including TC-ER-HL, Extra Hard Usage Cords, TC-ER, TC and unarmored Type P/Marine Shipboard Cable where permitted by the NFPA70 (NEC) and/or CSA C22.1 (CE Code). Cable/cable gland matching table in Appendix R1.
Temperature range	-60°C, +85°C
Storage temperature of resin	+5 °C, +25 °C
Protection class(1)	NEMA Type 4X IP66, IP67, IP68(2)
Standards of construction	BS 6121-1, EN/IEC 62444, ISO 965-1, ISO 965-3, ASME B1.20.1; EN/IEC 60079-0, -1, -7, -15, -31; CSA C22.2 No 0, 18, 25, 30, 94, 174; CSA C22.2 No 60079-0, -1, -7, -15, -31; UL 50, UL 514B, UL 2225, UL 60079-0, -1, -7, -15, ANSI/ISA 60079-31
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 2G, Ex db IIC Gb, Ex eb IIC Gb; Ⓔx II 1D Ex ta IIIC Da; Ⓔx II 3G, Ex nR IIC Gc ; Ⓔx I M2 Ex db I Mb(3), Ex eb I Mb(3) IECEx: Ex db IIC Gb, Ex eb IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da, Ex db I Mb(3), Ex eb I Mb(3) (CSA)us(4): Class I, Div 1 and 2, Groups A, B, C, and D; Class II, Div 1 and 2, Groups E, F, and G; Class III, Div 1 and 2; Type 4X; Oil Resistance II; Class I, Zone 1, AEx d IIC Gb, AEx e IIC Gb; Class I, Zone 2, AEx nR IIC Gc; Class I, Zone 20, AEx ta IIIC Da c(CSA)(4): Class I, Div 1 and 2, Groups A, B, C, and D; Class II, Div 1and 2, Groups E, F and G; Class III, Div 1 and 2; Type 4X; Oil Resistance II; Ex d IIC Gb, Ex e IIC Gb, Ex nR IIC Gc, Ex ta IIIC Da c(UL)us(4): Class I, Div 1 and 2, Groups A, B, C, and D; Class II, Div 1 and 2, Groups F and G Others: 2014/34/UE ATEX

(1) Only if installed with original accessories.

(2) IP68 tested at 30 meters for 12 hours.

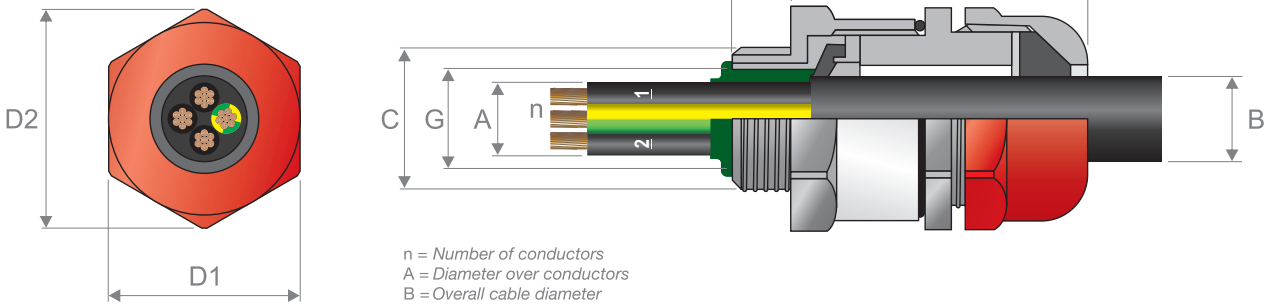
(3) Aluminum version is not permitted in Group I mining applications.

(4) Where the cable type is permitted by the National Electrical Code (NEC) and/or Canadian Electrical Code (CE Code).



Coding and dimensions

Cable gland



n = *Number of conductors*
A = *Diameter over conductors*
B = *Overall cable diameter*

Code	Material	Thread	Cable's size [mm (inch)]				Sizes [mm (inch)]					Weight [g (oz)]
			n	A	B		D1	D2	E	F	G	
			Max	Max	Min	Max						
PC810_M020X010ON	ON	M20 X 1.5	21	8,6 (0,339)	3,1 (0,122)	8,6 (0,339)	30,0 (1,181)	33,0 (1,299)	15,0 (0,591)	53,1 (2,091)	8,6 (0,339)	200 (7,05)
PC810_M020X020ON	ON	M20 X 1.5	21	11,7 (0,461)	6,1 (0,240)	11,7 (0,461)	30,0 (1,181)	33,0 (1,299)	15,0 (0,591)	53,1 (2,091)	11,7 (0,461)	200 (7,05)
PC810_M020X030ON	ON	M20 X 1.5	21	12,6 (0,496)	6,5 (0,256)	14,0 (0,551)	30,0 (1,181)	33,0 (1,299)	15,0 (0,591)	54,2 (2,134)	12,9 (0,508)	200 (7,05)
PC810_M020X040ON	ON	M20 X 1.5	21	12,6 (0,496)	10,0 (0,394)	15,9 (0,626)	30,0 (1,181)	33,0 (1,299)	15,0 (0,591)	54,2 (2,134)	12,9 (0,508)	200 (7,05)
PC810_M025X010ON	ON	M25 X 1.5	30	17,5 (0,689)	11,1 (0,437)	20,0 (0,787)	36,0 (1,417)	39,6 (1,559)	15,0 (0,591)	60,0 (2,362)	17,9 (0,705)	330 (11,64)
PC810_M032X010ON	ON	M32 X 1.5	50	23,6 (0,929)	17,0 (0,669)	26,3 (1,035)	41,0 (1,614)	45,1 (1,776)	15,0 (0,591)	61,1 (2,406)	23,9 (0,941)	590 (20,81)
PC810_M032X020ON	ON	M32 X 1.5	50	23,6 (0,929)	20,0 (0,787)	27,4 (1,079)	41,0 (1,614)	45,1 (1,776)	15,0 (0,591)	61,1 (2,406)	23,9 (0,941)	590 (20,81)
PC810_M040X010ON	ON	M40 X 1.5	59	30,0 (1,181)	22,0 (0,866)	32,1 (1,264)	50,0 (1,969)	55,0 (2,165)	15,0 (0,591)	62,4 (2,457)	30,3 (1,193)	560 (19,75)
PC810_M050X010ON	ON	M50 X 1.5	89	36,6 (1,441)	29,5 (1,161)	38,2 (1,504)	55,0 (2,165)	60,5 (2,382)	15,0 (0,591)	65,2 (2,567)	36,9 (1,453)	660 (23,28)
PC810_M050X020ON	ON	M50 X 1.5	89	41,0 (1,614)	35,6 (1,402)	44,0 (1,732)	60,0 (2,362)	66,0 (2,598)	15,0 (0,591)	67,6 (2,661)	41,3 (1,626)	730 (25,75)
PC810_M063X010ON	ON	M63 X 1.5	115	47,9 (1,886)	40,1 (1,579)	49,9 (1,965)	70,0 (2,756)	77,0 (3,031)	15,0 (0,591)	71,1 (2,799)	48,4 (1,906)	1.070 (37,74)
PC810_M063X020ON	ON	M63 X 1.5	115	53,7 (2,114)	47,2 (1,858)	55,9 (2,201)	75,0 (2,953)	82,5 (3,248)	15,0 (0,591)	70,4 (2,772)	54,0 (2,126)	1.060 (37,39)
PC810_M075X010ON	ON	M75 X 1.5	140	59,9 (2,358)	52,8 (2,079)	61,9 (2,437)	80,0 (3,150)	88,0 (3,465)	15,0 (0,591)	75,3 (2,965)	60,2 (2,370)	1.300 (45,86)
PC810_M075X020ON	ON	M75 X 1.5	140	64,3 (2,531)	59,1 (2,327)	67,9 (2,673)	85,0 (3,346)	93,5 (3,681)	15,0 (0,591)	74,9 (2,949)	64,2 (2,528)	1.300 (45,86)
PC810_M090X010ON	ON	M90 X 2.0	140	75,3 (2,965)	66,6 (2,622)	79,4 (3,126)	108,0 (4,252)	118,8 (4,677)	20,0 (0,787)	94,8 (3,732)	75,6 (2,976)	3.020 (106,53)

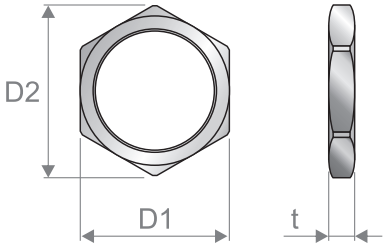
Code	Material	Thread	Cable's size [mm (inch)]				Sizes [mm (inch)]					Weight [g (oz)]
			n	A	B		D1	D2	E	F	G	
			Max	Max	Min	Max						
PC810_M100X010ON	ON	M100 X 2.0	200	83,6 (3,291)	76,0 (2,992)	90,9 (3,579)	123,0 (4,843)	135,3 (5,327)	20,0 (0,787)	86,3 (3,398)	85,9 (3,382)	4.000 (141,10)
PC810_N050X010ON	ON	NPT 1/2"	21	8,6 (0,339)	3,1 (0,122)	8,6 (0,339)	30,0 (1,181)	33,0 (1,299)	19,9 (0,783)	53,1 (2,091)	8,6 (0,339)	200 (7,05)
PC810_N050X020ON	ON	NPT 1/2"	21	11,7 (0,461)	6,1 (0,240)	11,7 (0,461)	30,0 (1,181)	33,0 (1,299)	19,9 (0,783)	53,1 (2,091)	11,7 (0,461)	200 (7,05)
PC810_N050X030ON	ON	NPT 1/2"	21	12,6 (0,496)	6,5 (0,256)	14,0 (0,551)	30,0 (1,181)	33,0 (1,299)	19,9 (0,783)	54,2 (2,134)	12,9 (0,508)	200 (7,05)
PC810_N050X040ON	ON	NPT 1/2"	21	12,6 (0,496)	10,0 (0,394)	15,9 (0,626)	30,0 (1,181)	33,0 (1,299)	19,9 (0,783)	54,2 (2,134)	12,9 (0,508)	200 (7,05)
PC810_N075X010ON	ON	NPT 3/4"	30	17,5 (0,689)	11,1 (0,437)	20,0 (0,787)	36,0 (1,417)	39,6 (1,559)	20,2 (0,795)	60,0 (2,362)	17,9 (0,705)	330 (11,64)
PC810_N100X010ON	ON	NPT 1"	50	23,6 (0,929)	17,0 (0,669)	26,3 (1,035)	41,0 (1,614)	45,1 (1,776)	25,0 (0,984)	61,1 (2,406)	23,9 (0,941)	590 (20,81)
PC810_N100X020ON	ON	NPT 1"	50	23,6 (0,929)	20,0 (0,787)	27,4 (1,079)	41,0 (1,614)	45,1 (1,776)	25,0 (0,984)	61,1 (2,406)	23,9 (0,941)	590 (20,81)
PC810_N125X010ON	ON	NPT 1"1/4	59	30,0 (1,181)	22,0 (0,866)	32,1 (1,264)	50,0 (1,969)	55,0 (2,165)	25,6 (1,008)	62,4 (2,457)	30,3 (1,193)	560 (19,75)
PC810_N150X010ON	ON	NPT 1"1/2	89	36,6 (1,441)	29,5 (1,161)	38,2 (1,504)	55,0 (2,165)	60,5 (2,382)	26,1 (1,028)	65,2 (2,567)	36,9 (1,453)	660 (23,28)
PC810_N200X010ON	ON	NPT 2"	89	41,0 (1,614)	35,6 (1,402)	44,0 (1,732)	60,0 (2,362)	66,0 (2,598)	26,9 (1,059)	67,6 (2,661)	41,3 (1,626)	730 (25,75)
PC810_N200X020ON	ON	NPT 2"	115	47,9 (1,886)	40,1 (1,579)	49,9 (1,965)	70,0 (2,756)	77,0 (3,031)	26,9 (1,059)	71,1 (2,799)	48,4 (1,906)	1.070 (37,74)
PC810_N250X010ON	ON	NPT 2"1/2	115	53,7 (2,114)	47,2 (1,858)	55,9 (2,201)	75,0 (2,953)	82,5 (3,248)	39,9 (1,571)	70,4 (2,772)	54,0 (2,126)	1.060 (37,39)
PC810_N250X020ON	ON	NPT 2"1/2	140	59,9 (2,358)	52,8 (2,079)	61,9 (2,437)	80,0 (3,150)	88,0 (3,465)	39,9 (1,571)	75,3 (2,965)	60,2 (2,370)	1.300 (45,86)
PC810_N300X010ON	ON	NPT 3"	140	64,3 (2,531)	59,1 (2,327)	67,9 (2,673)	85,0 (3,346)	93,5 (3,681)	41,5 (1,634)	74,9 (2,949)	64,2 (2,528)	1.300 (45,86)
PC810_N350X010ON	ON	NPT 3"1/2	140	75,3 (2,965)	66,6 (2,622)	79,4 (3,126)	108,0 (4,252)	118,8 (4,677)	42,8 (1,685)	94,8 (3,732)	75,6 (2,976)	3.020 (106,53)
PC810_N350X020ON	ON	NPT 3"1/2	200	83,6 (3,291)	76,0 (2,992)	90,9 (3,579)	123,0 (4,843)	135,3 (5,327)	42,8 (1,685)	86,3 (3,398)	85,9 (3,382)	4.000 (141,10)
PC810_M020X010AI	AI	M20 X 1.5	21	8,6 (0,339)	3,1 (0,122)	8,6 (0,339)	30,0 (1,181)	33,0 (1,299)	15,0 (0,591)	53,1 (2,091)	8,6 (0,339)	188 (6,63)
PC810_M020X020AI	AI	M20 X 1.5	21	11,7 (0,461)	6,1 (0,240)	11,7 (0,461)	30,0 (1,181)	33,0 (1,299)	15,0 (0,591)	53,1 (2,091)	11,7 (0,461)	188 (6,63)
PC810_M020X030AI	AI	M20 X 1.5	21	12,6 (0,496)	6,5 (0,256)	14,0 (0,551)	30,0 (1,181)	33,0 (1,299)	15,0 (0,591)	54,2 (2,134)	12,9 (0,508)	188 (6,63)
PC810_M020X040AI	AI	M20 X 1.5	21	12,6 (0,496)	10,0 (0,394)	15,9 (0,626)	30,0 (1,181)	33,0 (1,299)	15,0 (0,591)	54,2 (2,134)	12,9 (0,508)	188 (6,63)
PC810_M025X010AI	AI	M25 X 1.5	30	17,5 (0,689)	11,1 (0,437)	20,0 (0,787)	36,0 (1,417)	39,6 (1,559)	15,0 (0,591)	60,0 (2,362)	17,9 (0,705)	310 (10,94)
PC810_M032X010AI	AI	M32 X 1.5	50	23,6 (0,929)	17,0 (0,669)	26,3 (1,035)	41,0 (1,614)	45,1 (1,776)	15,0 (0,591)	61,1 (2,406)	23,9 (0,941)	555 (19,56)
PC810_M032X020AI	AI	M32 X 1.5	50	23,6 (0,929)	20,0 (0,787)	27,4 (1,079)	41,0 (1,614)	45,1 (1,776)	15,0 (0,591)	61,1 (2,406)	23,9 (0,941)	555 (19,56)
PC810_M040X010AI	AI	M40 X 1.5	59	30,0 (1,181)	22,0 (0,866)	32,1 (1,264)	50,0 (1,969)	55,0 (2,165)	15,0 (0,591)	62,4 (2,457)	30,3 (1,193)	526 (18,57)
PC810_M050X010AI	AI	M50 X 1.5	89	36,6 (1,441)	29,5 (1,161)	38,2 (1,504)	55,0 (2,165)	60,5 (2,382)	15,0 (0,591)	65,2 (2,567)	36,9 (1,453)	620 (21,88)
PC810_M050X020AI	AI	M50 X 1.5	89	41,0 (1,614)	35,6 (1,402)	44,0 (1,732)	60,0 (2,362)	66,0 (2,598)	15,0 (0,591)	67,6 (2,661)	41,3 (1,626)	686 (24,21)
PC810_M063X010AI	AI	M63 X 1.5	115	47,9 (1,886)	40,1 (1,579)	49,9 (1,965)	70,0 (2,756)	77,0 (3,031)	15,0 (0,591)	71,1 (2,799)	48,4 (1,906)	1.006 (35,48)
PC810_M063X020AI	AI	M63 X 1.5	115	53,7 (2,114)	47,2 (1,858)	55,9 (2,201)	75,0 (2,953)	82,5 (3,248)	15,0 (0,591)	70,4 (2,772)	54,0 (2,126)	996 (35,15)
PC810_M075X010AI	AI	M75 X 1.5	140	59,9 (2,358)	52,8 (2,079)	61,9 (2,437)	80,0 (3,150)	88,0 (3,465)	15,0 (0,591)	75,3 (2,965)	60,2 (2,370)	1.222 (43,10)

Code	Material	Thread	Cable's size [mm (inch)]				Sizes [mm (inch)]					Weight [g (oz)]
			n	A	B		D1	D2	E	F	G	
			Max	Max	Min	Max						
PC810_M075X020AI	AI	M75 X 1.5	140	64,3 (2,531)	59,1 (2,327)	67,9 (2,673)	85,0 (3,346)	93,5 (3,681)	15,0 (0,591)	74,9 (2,949)	64,2 (2,528)	1.222 (43,10)
PC810_M090X010AI	AI	M90 X 2.0	140	75,3 (2,965)	66,6 (2,622)	79,4 (3,126)	108,0 (4,252)	118,8 (4,677)	20,0 (0,787)	94,8 (3,732)	75,6 (2,976)	2.839 (100,14)
PC810_M100X010AI	AI	M100 X 2.0	200	83,6 (3,291)	76,0 (2,992)	90,9 (3,579)	123,0 (4,843)	135,3 (5,327)	20,0 (0,787)	86,3 (3,398)	85,9 (3,382)	3.760 (132,63)
PC810_N050X010AI	AI	NPT 1/2"	21	8,6 (0,339)	3,1 (0,122)	8,6 (0,339)	30,0 (1,181)	33,0 (1,299)	19,9 (0,783)	53,1 (2,091)	8,6 (0,339)	188 (6,63)
PC810_N050X020AI	AI	NPT 1/2"	21	11,7 (0,461)	6,1 (0,240)	11,7 (0,461)	30,0 (1,181)	33,0 (1,299)	19,9 (0,783)	53,1 (2,091)	11,7 (0,461)	188 (6,63)
PC810_N050X030AI	AI	NPT 1/2"	21	12,6 (0,496)	6,5 (0,256)	14,0 (0,551)	30,0 (1,181)	33,0 (1,299)	19,9 (0,783)	54,2 (2,134)	12,9 (0,508)	188 (6,63)
PC810_N050X040AI	AI	NPT 1/2"	21	12,6 (0,496)	10,0 (0,394)	15,9 (0,626)	30,0 (1,181)	33,0 (1,299)	19,9 (0,783)	54,2 (2,134)	12,9 (0,508)	188 (6,63)
PC810_N075X010AI	AI	NPT 3/4"	30	17,5 (0,689)	11,1 (0,437)	20,0 (0,787)	36,0 (1,417)	39,6 (1,559)	20,2 (0,795)	60,0 (2,362)	17,9 (0,705)	310 (10,94)
PC810_N100X010AI	AI	NPT 1"	50	23,6 (0,929)	17,0 (0,669)	26,3 (1,035)	41,0 (1,614)	45,1 (1,776)	25,0 (0,984)	61,1 (2,406)	23,9 (0,941)	555 (19,56)
PC810_N100X020AI	AI	NPT 1"	50	23,6 (0,929)	20,0 (0,787)	27,4 (1,079)	41,0 (1,614)	45,1 (1,776)	25,0 (0,984)	61,1 (2,406)	23,9 (0,941)	555 (19,56)
PC810_N125X010AI	AI	NPT 1"1/4	59	30,0 (1,181)	22,0 (0,866)	32,1 (1,264)	50,0 (1,969)	55,0 (2,165)	25,6 (1,008)	62,4 (2,457)	30,3 (1,193)	526 (18,57)
PC810_N150X010AI	AI	NPT 1"1/2	89	36,6 (1,441)	29,5 (1,161)	38,2 (1,504)	55,0 (2,165)	60,5 (2,382)	26,1 (1,028)	65,2 (2,567)	36,9 (1,453)	620 (21,88)
PC810_N200X010AI	AI	NPT 2"	89	41,0 (1,614)	35,6 (1,402)	44,0 (1,732)	60,0 (2,362)	66,0 (2,598)	26,9 (1,059)	67,6 (2,661)	41,3 (1,626)	686 (24,21)
PC810_N200X020AI	AI	NPT 2"	115	47,9 (1,886)	40,1 (1,579)	49,9 (1,965)	70,0 (2,756)	77,0 (3,031)	26,9 (1,059)	71,1 (2,799)	48,4 (1,906)	1.006 (35,48)
PC810_N250X010AI	AI	NPT 2"1/2	115	53,7 (2,114)	47,2 (1,858)	55,9 (2,201)	75,0 (2,953)	82,5 (3,248)	39,9 (1,571)	70,4 (2,772)	54,0 (2,126)	996 (35,15)
PC810_N250X020AI	AI	NPT 2"1/2	140	59,9 (2,358)	52,8 (2,079)	61,9 (2,437)	80,0 (3,150)	88,0 (3,465)	39,9 (1,571)	75,3 (2,965)	60,2 (2,370)	1.222 (43,10)
PC810_N300X010AI	AI	NPT 3"	140	64,3 (2,531)	59,1 (2,327)	67,9 (2,673)	85,0 (3,346)	93,5 (3,681)	41,5 (1,634)	74,9 (2,949)	64,2 (2,528)	1.222 (43,10)
PC810_N350X010AI	AI	NPT 3"1/2	140	75,3 (2,965)	66,6 (2,622)	79,4 (3,126)	108,0 (4,252)	118,8 (4,677)	42,8 (1,685)	94,8 (3,732)	75,6 (2,976)	2.839 (100,14)
PC810_N350X020AI	AI	NPT 3"1/2	200	83,6 (3,291)	76,0 (2,992)	90,9 (3,579)	123,0 (4,843)	135,3 (5,327)	42,8 (1,685)	86,3 (3,398)	85,9 (3,382)	3.760 (132,63)

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

- The cable glands are supplied complete with a resin pack.
- Locknuts and sealing gaskets are not included, provided separately.
- Yellow brass and aluminum versions are available upon specific request and for a minimum quantity.
- Reduced NPT threads are available upon specific request and for a minimum quantity.
- 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

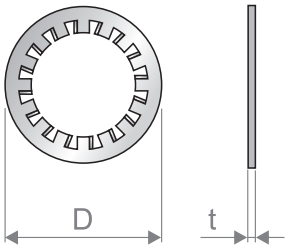


Code	Material	Thread	Sizes [mm (inch)]			Weight [g (oz)]
			t	D1	D2	
PC81G_M020X010ON	ON	M20 X 1.5	3,2 (0,126)	24,0 (0,945)	27,7 (1,091)	7 (0,25)
PC81G_M025X010ON	ON	M25 X 1.5	3,2 (0,126)	30,0 (1,181)	34,6 (1,362)	12 (0,42)
PC81G_M032X010ON	ON	M32 X 1.5	3,2 (0,126)	36,0 (1,417)	41,6 (1,638)	13 (0,46)
PC81G_M040X010ON	ON	M40 X 1.5	4,8 (0,189)	46,0 (1,811)	53,1 (2,091)	26 (0,92)
PC81G_M050X010ON	ON	M50 X 1.5	6,3 (0,248)	55,0 (2,165)	63,5 (2,500)	54 (1,90)
PC81G_M063X010ON	ON	M63 X 1.5	6,3 (0,248)	70,0 (2,756)	80,8 (3,181)	64 (2,26)
PC81G_M075X010ON	ON	M75 X 1.5	6,3 (0,248)	84,0 (3,307)	97,0 (3,819)	100 (3,53)
PC81G_M090X010ON	ON	M90 X 2.0	9,5 (0,374)	106,0 (4,173)	122,4 (4,819)	264 (9,31)
PC81G_M100X010ON	ON	M100 X 2.0	9,5 (0,374)	123,0 (4,843)	142,0 (5,591)	445 (15,70)
PC81G_N050X010ON	ON	NPT 1/2"	4,8 (0,189)	27,0 (1,063)	31,2 (1,228)	7 (0,25)
PC81G_N075X010ON	ON	NPT 3/4"	4,8 (0,189)	33,0 (1,299)	38,1 (1,500)	12 (0,42)
PC81G_N100X010ON	ON	NPT 1"	4,8 (0,189)	41,0 (1,614)	47,3 (1,862)	13 (0,46)
PC81G_N125X010ON	ON	NPT 1"1/4	4,8 (0,189)	50,0 (1,969)	57,7 (2,272)	26 (0,92)
PC81G_N150X010ON	ON	NPT 1"1/2	5,0 (0,197)	60,0 (2,362)	69,3 (2,728)	54 (1,90)
PC81G_N200X010ON	ON	NPT 2"	5,0 (0,197)	75,0 (2,953)	88,6 (3,488)	64 (2,26)
PC81G_N250X010ON	ON	NPT 2"1/2	10,0 (0,394)	84,0 (3,307)	97,0 (3,819)	100 (3,53)
PC81G_N300X010ON	ON	NPT 3"	10,0 (0,394)	100,0 (3,937)	115,5 (4,547)	264 (9,31)
PC81G_N350X010ON	ON	NPT 3"1/2	11,2 (0,441)	114,3 (4,500)	132,0 (5,197)	350 (12,35)
PC81G_M020X010AI	AI	M20 X 1.5	3,2 (0,126)	24,0 (0,945)	27,7 (1,091)	5 (0,17)
PC81G_M025X010AI	AI	M25 X 1.5	3,2 (0,126)	30,0 (1,181)	34,6 (1,362)	7 (0,25)
PC81G_M032X010AI	AI	M32 X 1.5	3,2 (0,126)	36,0 (1,417)	41,6 (1,638)	34 (1,21)
PC81G_M040X010AI	AI	M40 X 1.5	4,8 (0,189)	46,0 (1,811)	53,1 (2,091)	20 (0,71)
PC81G_M050X010AI	AI	M50 X 1.5	6,3 (0,248)	55,0 (2,165)	63,5 (2,500)	29 (1,03)
PC81G_M063X010AI	AI	M63 X 1.5	6,3 (0,248)	70,0 (2,756)	80,8 (3,181)	64 (2,26)
PC81G_M075X010AI	AI	M75 X 1.5	6,3 (0,248)	84,0 (3,307)	97,0 (3,819)	100 (3,53)
PC81G_M090X010AI	AI	M90 X 2.0	9,5 (0,374)	106,0 (4,173)	122,4 (4,819)	267 (9,41)
PC81G_M100X010AI	AI	M100 X 2.0	9,5 (0,374)	123,0 (4,843)	142,0 (5,591)	379 (13,37)
PC81G_N050X010AI	AI	NPT 1/2"	4,8 (0,189)	27,0 (1,063)	31,2 (1,228)	10 (0,35)
PC81G_N075X010AI	AI	NPT 3/4"	4,8 (0,189)	33,0 (1,299)	38,1 (1,500)	12 (0,42)
PC81G_N100X010AI	AI	NPT 1"	4,8 (0,189)	41,0 (1,614)	47,3 (1,862)	26 (0,90)
PC81G_N125X010AI	AI	NPT 1"1/4	4,8 (0,189)	50,0 (1,969)	57,7 (2,272)	37 (1,31)
PC81G_N150X010AI	AI	NPT 1"1/2	5,0 (0,197)	60,0 (2,362)	69,3 (2,728)	47 (1,66)
PC81G_N200X010AI	AI	NPT 2"	5,0 (0,197)	75,0 (2,953)	88,6 (3,488)	43 (1,50)
PC81G_N250X010AI	AI	NPT 2"1/2	10,0 (0,394)	84,0 (3,307)	97,0 (3,819)	177 (6,24)
PC81G_N300X010AI	AI	NPT 3"	10,0 (0,394)	100,0 (3,937)	115,5 (4,547)	685 (24,18)
PC81G_N350X010AI	AI	NPT 3"1/2	11,2 (0,441)	114,3 (4,500)	132,0 (5,197)	339 (11,94)

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

Note. Yellow brass and aluminum versions are available upon specific request and for a minimum quantity.

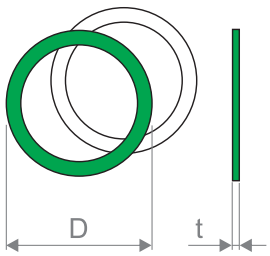
Serrated washer



Code	Material	Cable gland size	Sizes [mm (inch)]		Weight [g (oz)]
			t	D	
PC81D_M020X010AI	AI	M20	3,9 (0,154)	32,5 (1,280)	4 (0,14)
PC81D_M025X010AI	AI	M25	3,9 (0,154)	40,0 (1,575)	8 (0,28)
PC81D_M032X010AI	AI	M32	3,9 (0,154)	43,5 (1,713)	9 (0,32)
PC81D_M040X010AI	AI	M40	3,9 (0,154)	64,5 (2,539)	22 (0,78)
PC81D_M050X010AI	AI	M50	3,9 (0,154)	80,0 (3,150)	30 (1,06)
PC81D_M063X010AI	AI	M63	3,9 (0,154)	100,0 (3,937)	50 (1,76)
PC81D_M075X010AI	AI	M75	4,1 (0,161)	112,0 (4,409)	65 (2,29)
PC81D_M090X010AI	AI	M90	4,1 (0,161)	135,0 (5,315)	90 (3,17)
PC81D_M100X010AI	AI	M100	4,1 (0,161)	145,0 (5,709)	150 (5,29)
PC81D_N050X010AI	AI	NPT 1/2"	3,9 (0,154)	32,5 (1,280)	5 (0,18)
PC81D_N075X010AI	AI	NPT 3/4"	3,9 (0,154)	40,0 (1,575)	12 (0,42)
PC81D_N100X010AI	AI	NPT 1"	3,9 (0,154)	43,5 (1,713)	5 (0,18)
PC81D_N125X010AI	AI	NPT 1"1/4	3,9 (0,154)	64,5 (2,539)	20 (0,71)
PC81D_N150X010AI	AI	NPT 1"1/2	3,9 (0,154)	80,0 (3,150)	45 (1,59)
PC81D_N200X010AI	AI	NPT 2"	3,9 (0,154)	100,0 (3,937)	60 (2,12)
PC81D_N250X010AI	AI	NPT 2"1/2	3,9 (0,154)	112,0 (4,409)	100 (3,53)
PC81D_N300X010AI	AI	NPT 3"	4,1 (0,161)	135,0 (5,315)	60 (2,12)
PC81D_N350X010AI	AI	NPT 3"1/2	4,1 (0,161)	145,0 (5,709)	60 (2,12)

Materials' description: AI = AISI 316 stainless steel

Sealing gasket

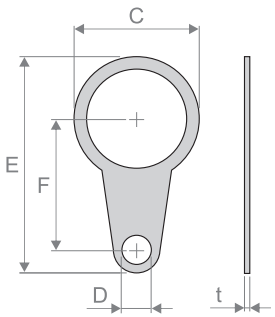


Code	Material	Cable gland size	Sizes [mm (inch)]		Weight [g (oz)]
			t	D	
PC81S_M020X010BI	BI	M20	2,0 (0,079)	28,3 (1,114)	1 (0,04)
PC81S_M025X010BI	BI	M25	2,0 (0,079)	34,5 (1,356)	3 (0,11)
PC81S_M032X010BI	BI	M32	2,0 (0,079)	44,2 (1,740)	4 (0,13)
PC81S_M040X010BI	BI	M40	2,0 (0,079)	52,8 (2,079)	3 (0,09)
PC81S_M050X010BI	BI	M50	2,0 (0,079)	64,8 (2,551)	3 (0,09)
PC81S_M063X010BI	BI	M63	2,0 (0,079)	77,9 (3,067)	5 (0,19)
PC81S_M075X010BI	BI	M75	2,0 (0,079)	95,9 (3,776)	8 (0,29)
PC81S_M090X010BI	BI	M90	2,0 (0,079)	110,6 (4,354)	9 (0,30)
PC81S_M100X010BI	BI	M100	2,0 (0,079)	120,7 (4,752)	14 (0,49)
PC81S_N050X010VE	VE	NPT 1/2"	2,0 (0,079)	29,7 (1,167)	1 (0,05)
PC81S_N075X010VE	VE	NPT 3/4"	2,0 (0,079)	34,4 (1,354)	3 (0,11)
PC81S_N100X010VE	VE	NPT 1"	2,0 (0,079)	44,4 (1,748)	4 (0,13)

Code	Material	Cable gland size	Sizes [mm (inch)]		Weight [g (oz)]
			t	D	
PC81S_N125X010VE	VE	NPT 1"1/4	2,0 (0,079)	55,9 (2,201)	4 (0,13)
PC81S_N150X010VE	VE	NPT 1"1/2	2,0 (0,079)	64,8 (2,551)	5 (0,18)
PC81S_N200X010VE	VE	NPT 2"	2,0 (0,079)	77,6 (3,055)	5 (0,18)
PC81S_N250X010VE	VE	NPT 2"1/2	2,0 (0,079)	95,9 (3,776)	8 (0,28)
PC81S_N300X010VE	VE	NPT 3"	2,0 (0,079)	110,6 (4,354)	12 (0,42)
PC81S_N350X010VE	VE	NPT 3"1/2	2,0 (0,079)	120,7 (4,752)	14 (0,49)

Materials' description: BI = White color Nylon, VE = Green color Nylon

Earth tag



Code	Material	Cable gland size	Short circuit symm fault current for 1 sec [kA]	Sizes [mm (inch)]					Weight [g (oz)]
				t	C	D	E	F	
PC81T_M020X010ON	ON	M20	3,06	1,3 (0,050)	27,2 (1,070)	M6	52,3 (2,060)	33,0 (1,300)	8 (0,28)
PC81T_M025X010ON	ON	M25	4,06	1,5 (0,060)	35,1 (1,380)	M6	59,2 (2,330)	35,6 (1,400)	10 (0,35)
PC81T_M032X010ON	ON	M32	5,4	1,5 (0,060)	45,2 (1,780)	M12	77,0 (3,030)	43,2 (1,700)	16 (0,56)
PC81T_M040X010ON	ON	M40	7,2	1,5 (0,060)	53,6 (2,110)	M13	88,6 (3,490)	45,5 (1,790)	21 (0,74)
PC81T_M050X010ON	ON	M50	10,4	1,5 (0,060)	65,3 (2,570)	M13	111,3 (4,380)	58,2 (2,290)	37 (1,31)
PC81T_M063X010ON	ON	M63	10,4	1,5 (0,060)	82,6 (3,250)	M13	128,8 (5,070)	66,8 (2,630)	48 (1,69)
PC81T_M075X010ON	ON	M75	10,4	1,5 (0,060)	95,5 (3,760)	M13	141,5 (5,570)	72,9 (2,870)	54 (1,90)
PC81T_M090X010ON	ON	M90	10,4	2,0 (0,080)	114,3 (4,500)	M13	161,0 (6,340)	85,1 (3,350)	55 (1,94)
PC81T_M100X010ON	ON	M100	10,4	2,0 (0,080)	125,0 (4,920)	M13	194,8 (7,670)	118,1 (4,650)	200 (7,05)
PC81T_N050X010ON	ON	NPT 1/2"	3,06	1,3 (0,050)	27,2 (1,070)	M6	52,8 (2,080)	33,0 (1,300)	8 (0,28)
PC81T_N075X010ON	ON	NPT 3/4"	4,06	1,5 (0,060)	35,1 (1,380)	M6	59,2 (2,330)	35,6 (1,400)	10 (0,35)
PC81T_N100X010ON	ON	NPT 1"	5,4	1,5 (0,060)	45,2 (1,780)	M12	77,0 (3,030)	43,2 (1,700)	16 (0,56)
PC81T_N125X010ON	ON	NPT 1"1/4	7,2	1,5 (0,060)	53,6 (2,110)	M13	88,6 (3,490)	45,5 (1,790)	21 (0,74)
PC81T_N150X010ON	ON	NPT 1"1/2	10,4	1,5 (0,060)	65,3 (2,570)	M13	111,3 (4,380)	58,2 (2,290)	37 (1,31)
PC81T_N200X010ON	ON	NPT 2"	10,4	1,5 (0,060)	82,6 (3,250)	M13	128,8 (5,070)	66,8 (2,630)	48 (1,69)
PC81T_N250X010ON	ON	NPT 2"1/2	10,4	1,5 (0,060)	95,5 (3,760)	M13	141,5 (5,570)	72,9 (2,870)	54 (1,90)
PC81T_N300X010ON	ON	NPT 3"	10,4	2,0 (0,080)	114,0 (4,490)	M13	161,0 (6,340)	85,1 (3,350)	90 (3,17)
PC81T_N350X010ON	ON	NPT 3"1/2	10,4	2,0 (0,080)	125,0 (4,920)	M13	194,8 (7,670)	103,1 (4,060)	65 (2,29)
PC81T_M020X010AI	AI	M20	3,06	1,3 (0,050)	27,2 (1,070)	M6	52,3 (2,060)	33,0 (1,300)	8 (0,28)

Code	Material	Cable gland size	Short circuit symm fault current for 1 sec [kA]	Sizes [mm (inch)]					Weight [g (oz)]
				t	C	D	E	F	
PC81T_M025X010AI	AI	M25	4,06	1,5 (0,060)	35,1 (1,380)	M6	59,2 (2,330)	35,6 (1,400)	10 (0,35)
PC81T_M032X010AI	AI	M32	5,4	1,5 (0,060)	45,2 (1,780)	M12	77,0 (3,030)	43,2 (1,700)	16 (0,56)
PC81T_M040X010AI	AI	M40	7,2	1,5 (0,060)	53,6 (2,110)	M13	88,6 (3,490)	45,5 (1,790)	21 (0,74)
PC81T_M050X010AI	AI	M50	10,4	1,5 (0,060)	65,3 (2,570)	M13	111,3 (4,380)	58,2 (2,290)	37 (1,31)
PC81T_M063X010AI	AI	M63	10,4	1,5 (0,060)	82,6 (3,250)	M13	128,8 (5,070)	66,8 (2,630)	48 (1,69)
PC81T_M075X010AI	AI	M75	10,4	1,5 (0,060)	95,5 (3,760)	M13	141,5 (5,570)	72,9 (2,870)	51 (1,80)
PC81T_M090X010AI	AI	M90	10,4	2,0 (0,080)	114,3 (4,500)	M13	161,0 (6,340)	85,1 (3,350)	55 (1,94)
PC81T_M100X010AI	AI	M100	10,4	2,0 (0,080)	125,0 (4,920)	M13	194,8 (7,670)	118,1 (4,650)	200 (7,05)
PC81T_N050X010AI	AI	NPT 1/2"	3,06	1,3 (0,050)	27,2 (1,070)	M6	52,8 (2,080)	33,0 (1,300)	8 (0,28)
PC81T_N075X010AI	AI	NPT 3/4"	4,06	1,5 (0,060)	35,1 (1,380)	M6	59,2 (2,330)	35,6 (1,400)	10 (0,35)
PC81T_N100X010AI	AI	NPT 1"	5,4	1,5 (0,060)	45,2 (1,780)	M12	77,0 (3,030)	43,2 (1,700)	200 (7,05)
PC81T_N125X010AI	AI	NPT 1"1/4	7,2	1,5 (0,060)	53,6 (2,110)	M13	88,6 (3,490)	45,5 (1,790)	26 (0,92)
PC81T_N150X010AI	AI	NPT 1"1/2	10,4	1,5 (0,060)	65,3 (2,570)	M13	111,3 (4,380)	58,2 (2,290)	38 (1,34)
PC81T_N200X010AI	AI	NPT 2"	10,4	1,5 (0,060)	82,6 (3,250)	M13	128,8 (5,070)	66,8 (2,630)	48 (1,69)
PC81T_N250X010AI	AI	NPT 2"1/2	10,4	1,5 (0,060)	95,5 (3,760)	M13	141,5 (5,570)	72,9 (2,870)	51 (1,80)
PC81T_N300X010AI	AI	NPT 3"	10,4	2,0 (0,080)	114,0 (4,490)	M13	161,0 (6,340)	85,1 (3,350)	60 (2,12)
PC81T_N350X010AI	AI	NPT 3"1/2	10,4	2,0 (0,080)	125,0 (4,920)	M13	194,8 (7,670)	103,1 (4,060)	65 (2,29)

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

Note. Yellow brass and aluminum versions are available upon specific request and for a minimum quantity.

Shroud

Selection table for the shroud according to the chosen cable gland.

Cable gland	Shroud code
PC810_M020X010□□	PC81C_06
PC810_M020X020□□	PC81C_06
PC810_M020X030□□	PC81C_06
PC810_M020X040□□	PC81C_06
PC810_M025X010□□	PC81C_09
PC810_M032X010□□	PC81C_10
PC810_M032X020□□	PC81C_10
PC810_M040X010□□	PC81C_13
PC810_M050X010□□	PC81C_15
PC810_M050X020□□	PC81C_18
PC810_M063X010□□	PC81C_21
PC810_M063X020□□	PC81C_23
PC810_M075X010□□	PC81C_25
PC810_M075X020□□	PC81C_27
PC810_M090X010□□	PC81C_31
PC810_M100X010□□	PC81C_33LSF
PC810_N050X010□□	PC81C_06
PC810_N050X020□□	PC81C_06
PC810_N050X030□□	PC81C_06
PC810_N050X040□□	PC81C_06
PC810_N075X010□□	PC81C_09
PC810_N100X010□□	PC81C_10
PC810_N100X020□□	PC81C_10
PC810_N125X010□□	PC81C_13
PC810_N150X010□□	PC81C_15
PC810_N200X010□□	PC81C_18
PC810_N200X020□□	PC81C_21
PC810_N250X010□□	PC81C_23
PC810_N250X020□□	PC81C_25
PC810_N300X010□□	PC81C_27
PC810_N350X010□□	PC81C_31
PC810_N350X020□□	PC81C_33LSF

Code composition

PC	□□□	_	□	□□□	X	□□□	□□

Family	To be inserted
Cable gland	810
Lock nut	81G
Serrated washer	81D
Sealing gasket	81S
Earth tag	81T
Shroud	81C

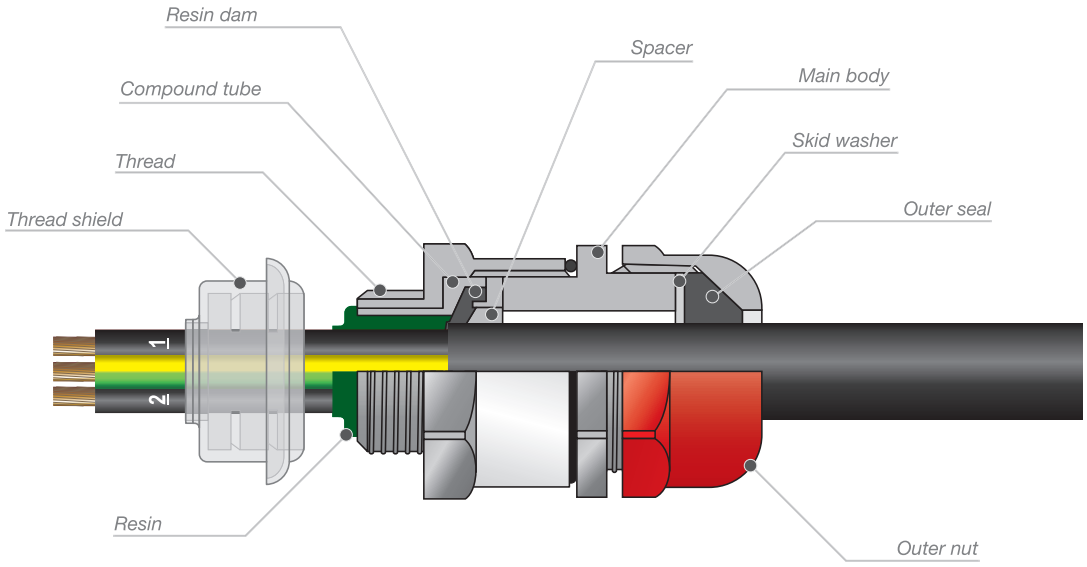
Version	To be inserted
Metric	M
NPT	N

Thread	To be inserted
M20, M25, …, M100	020, 025, …, 100
NPT 1/2", 3/4", …, 4"	050, 075, …, 400

Material	To be inserted
Brass	OT
Nickel-plated brass	ON
AISI 316 stainless steel	AI
Aluminum	AL
White nylon	BI
Green nylon	VE

Diameter range
Code depending on the cable range.

Mounting



- Installation should only be performed by a competent person using the correct tools. Read all instructions before beginning installation.
- The interface between a cable gland and the enclosure will require additional sealing to achieve ingress protection ratings higher than IP54. Original accessories are required to maintain IP66, 67 and 68.
- A earth tag should be used when it is necessary to provide an earth bond connection. Earth tags slip over the cable gland from inside/outside the enclosure and must be secured with a locknut, if fitted internally.
- Enclosures must be strong enough to support the cable and cable gland assembly. The enclosure surface finish must be smooth and flat to facilitate sealing with the sealing gasket.
- It is recommended that when using the cable gland with a through-hole, the hole must be circular, free of burrs and the diameter no larger than 0.7 mm above the thread major diameter. A suitable locknut shall be used to secure the product.
- Cable glands do not have any serviceable parts and are therefore not intended to be repaired.
- The cable glands are only suitable for fixed installations according to ATEX and IECEx requirements.
- Cables must be effectively clamped to prevent pulling or twisting according to ATEX and IECEx requirements.
- Connectors with metric entry threads are only suitable for Areas Classified in Zones unless fitted with an approved metric to NPT thread conversion adaptor.
- Installation must be according to CSA C22.1 (CE Code) wiring methods for the types of cables that can be used in Class I, Div. 1 and 2 and Class I, Zone 1 and 2 Classified Areas.
- Installation must be according to NFPA 70 (NEC) wiring methods for the types of cables that can be used in Class I, Div. 1 and 2 and Class I, Zone 1 and 2 Classified Areas.
- Prior to commissioning or operation of electrical equipment in the presence of flammable materials, the sealing compound must be cured for 24 hours at a temperature of no less than 5°C (41°F).
- For Metric and NPT threads, the installer shall follow guidance from the NFPA 70 (NEC) or CSA C22.1 (CE Code) to ensure that the enclosure entry meets the requirements for thread engagement.
- Carefully follow the instruction related to the resin compound.