

Pressacavo EMC

EMC cable glands

“UL/CSA Listed”



Impiego - Use

Nel settore industriale la compatibilità elettromagnetica (EMC) è un requisito essenziale per garantire il corretto funzionamento di macchine e sistemi elettronici sensibili alle interferenze elettromagnetiche. Tali effetti indesiderati, tuttavia, possono essere contrastati con la schermatura efficace di tutti i componenti e non solo i cavi. Come componenti passivi, i pressacavo devono garantire che la qualità della schermatura nei punti sensibili delle interconnessioni rimanga intatta e che non ci siano perdite dovute alla schermatura. I pressacavo EMC garantiscono la continuità della schermatura nei punti di ingresso dei cavi, contribuendo in modo attivo al mantenimento delle prestazioni EMC dell'impianto. Sono particolarmente indicati per applicazioni con azionamenti a frequenza variabile (VFD), dove è richiesta un'elevata efficacia EMC per la riduzione delle interferenze elettromagnetiche. Grazie al sistema di contatto conduttivo elastico, lo schermo del cavo viene bloccata in modo diretto e uniforme, garantendo un'elevata efficacia EMC con bassa impedenza di trasferimento, senza rischio di danneggiamento dello schermo durante le operazioni di installazione o smontaggio. La speciale geometria costruttiva consente una distribuzione omogenea della forza di serraggio sul cavo, assicurando stabilità meccanica e affidabilità nel tempo. Completati di o-ring sul filetto, questi pressacavo sono disponibili con filettatura corta o lunga e possono essere installati sia con controdado sia su fori filettati. La guarnizione garantisce una buona resistenza chimica e una classe di protezione fino a IP69 ed è conforme ai requisiti Type 4X, risultando idonea anche per ambienti industriali gravosi e applicazioni in esterno.

In the industrial sector, electromagnetic compatibility (EMC) is an essential requirement to ensure the proper operation of machines and electronic systems that are sensitive to electromagnetic interference. Such undesirable effects, however, can be effectively mitigated by ensuring proper shielding of all system components, and not only the cables. As passive components, cable glands must ensure that the quality of the shielding at critical interconnection points remains intact and that no loss in shielding effectiveness occurs. EMC cable glands ensure the continuity of the shielding at cable entry points, actively contributing to the maintenance of the system's EMC performance. They are particularly suitable for applications involving variable frequency drives (VFDs), where high EMC effectiveness is required to reduce electromagnetic interference. Thanks to the elastic conductive contact system, the cable shield is clamped directly and uniformly, ensuring high EMC performance with low transfer impedance, without any risk of damage to the shield during installation or removal. The special design geometry allows a uniform distribution of the clamping force on the cable, ensuring mechanical stability and long-term reliability. Complete with an O-ring on the thread, these cable glands are available with short or long threads and can be installed either with a locknut or directly into threaded entries. The sealing gasket provides good chemical resistance and offers a degree of protection up to IP69, while complying with Type 4X requirements, making the product suitable for harsh industrial environments and outdoor applications.

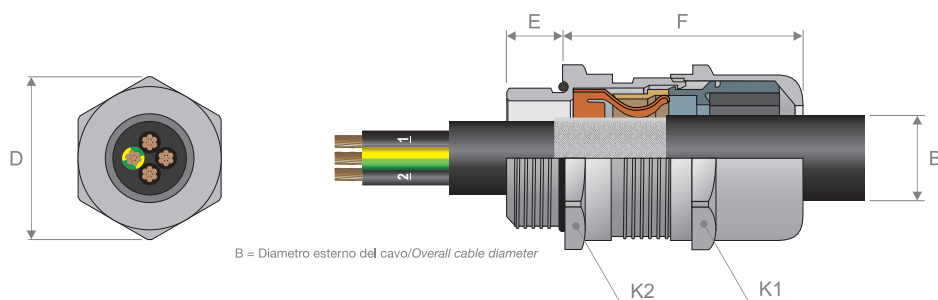
Dati tecnici - Technical data

Caratteristica - Characteristics	Valore/proprietà - Value/property
Materiale <i>Material</i>	Ottone nichelato, acciaio inossidabile AISI 303 e AISI 316L <i>Nickel-plated brass, AISI 303 and AISI 316L stainless steel</i>
Materiale dell'anello di tenuta <i>Sealing ring material</i>	Lega di rame <i>Copper alloy</i>
Materiale dell'anello di tenuta <i>Sealing ring material</i>	Cloroprene, tenuta stagna sulla guaina esterna <i>Chloroprene, watertight seal on outer sheath of cable</i>
Materiale dell'oring <i>O-ring material</i>	NBR <i>NBR</i>
Cavi compatibili <i>Compatible cables</i>	Cavi schermati non armati. Tabella di accoppiamento cavo/pressacavo in Appendice R3. <i>Non-armoured shielded cables. Cable/cable gland matching table in Appendix R3.</i>
Temperatura di esercizio <i>Temperature range</i>	-20°C, +100°C
Grado di protezione ⁽¹⁾ <i>Protection class⁽¹⁾</i>	UL Type 1, 4X, 12, 13 IP66, IP68 ⁽²⁾ , IP69
Riferimenti normativi costruttivi <i>Standards of construction</i>	EN/IEC 62444, EN 60423, ASME B1.20.1 UL 50E, UL 514B (ccn QCRV, QCRV7) CSA C22.2 N. 18.3, CSA C22.2 N. 94.2
Riferimenti normativi d'impiego <i>Standards of use</i>	NPFA 70 (NEC), NFPA 79, UL 508a CSA C22.1 (CE Code), CSA C22.2 N.301, CSA C22.2 N.286 UL 50E, UL 514B, CSA C22.2 N. 18.3, CSA C22.2 N. 94.2 IEC 61000-5-2

(1) Solo se installati con accessori originali. / Only if installed with original accessories.
(2) IP68 testato a 5 bar per 30 min. / IP68 tested at 5 bar for 30 min.



Codifiche e dimensioni - Coding and dimensions



Codice Code	Materiale Material	Filetto Thread	Dimensioni Sizes [mm (inch)]						
			B		D	K1	K2	E	F
			Min	Max					
PCM360_M012X0100N ⁽²⁾	ON	M12 X 1.5	3,0 (0,118)	6,5 (0,256)	15,5 (0,610)	14,0 (0,551)	14,0 (0,551)	6,0 (0,236)	30,0 (1,181)
PCM360_M016X0100N ⁽²⁾	ON	M16 X 1.5	5,0 (0,197)	10,0 (0,394)	22,0 (0,866)	20,0 (0,787)	20,0 (0,787)	6,0 (0,236)	35,0 (1,378)
PCM360_M020X0100N ⁽¹⁾	ON	M20 X 1.5	6,0 (0,236)	12,0 (0,472)	24,5 (0,965)	22,0 (0,866)	22,0 (0,866)	6,0 (0,236)	33,5 (1,319)
PCM360_M020X0200N ⁽¹⁾	ON	M20 X 1.5	7,5 (0,295)	14,0 (0,551)	26,8 (1,055)	24,0 (0,945)	24,0 (0,945)	8,0 (0,315)	41,5 (1,634)
PCM360_M025X0100N ⁽¹⁾	ON	M25 X 1.5	10,0 (0,394)	18,0 (0,709)	33,0 (1,299)	30,0 (1,181)	30,0 (1,181)	8,0 (0,315)	44,5 (1,752)
PCM360_M032X0100N ⁽¹⁾	ON	M32 X 1.5	16,0 (0,630)	25,0 (0,984)	44,5 (1,752)	40,0 (1,575)	40,0 (1,575)	9,0 (0,354)	55,0 (2,165)
PCM360_M040X0100N ⁽¹⁾	ON	M40 X 1.5	22,0 (0,866)	32,0 (1,260)	55,5 (2,185)	50,0 (1,969)	50,0 (1,969)	9,0 (0,354)	62,5 (2,461)
PCM360_M050X0100N ⁽¹⁾	ON	M50 X 1.5	30,0 (1,181)	38,0 (1,496)	64,0 (2,520)	58,0 (2,283)	58,0 (2,283)	9,0 (0,354)	74,0 (2,913)
PCM360_M063X0100N ⁽¹⁾	ON	M63 X 1.5	34,0 (1,339)	44,0 (1,732)	75,0 (2,953)	64,0 (2,520)	68,0 (2,677)	14,0 (0,551)	60,0 (2,362)
PCM360_M063X0200N ⁽¹⁾	ON	M63 X 1.5	37,0 (1,457)	53,0 (2,087)	83,0 (3,268)	75,0 (2,953)	75,0 (2,953)	10,0 (0,394)	75,0 (2,953)
PCM360_N025X0100N ⁽²⁾	ON	NPT 1/4"	3,0 (0,118)	6,5 (0,256)	16,5 (0,650)	14,0 (0,551)	15,0 (0,591)	11,5 (0,453)	30,0 (1,181)
PCM360_N037X0100N ⁽²⁾	ON	NPT 3/8"	5,0 (0,197)	10,0 (0,394)	22,0 (0,866)	20,0 (0,787)	20,0 (0,787)	11,5 (0,453)	35,0 (1,378)
PCM360_N050X0100N ⁽¹⁾	ON	NPT 1/2"	6,0 (0,236)	12,0 (0,472)	24,5 (0,965)	22,0 (0,866)	22,0 (0,866)	15,0 (0,591)	39,5 (1,555)
PCM360_N050X0200N ⁽¹⁾	ON	NPT 1/2"	7,5 (0,295)	14,0 (0,551)	26,8 (1,055)	24,0 (0,945)	24,0 (0,945)	15,0 (0,591)	41,5 (1,634)
PCM360_N075X0100N ⁽¹⁾	ON	NPT 3/4"	10,0 (0,394)	18,0 (0,709)	33,0 (1,299)	30,0 (1,181)	30,0 (1,181)	15,0 (0,591)	43,5 (1,713)
PCM360_N100X0100N ⁽¹⁾	ON	NPT 1"	16,0 (0,630)	25,0 (0,984)	44,5 (1,752)	40,0 (1,575)	40,0 (1,575)	20,0 (0,787)	54,0 (2,126)
PCM360_N125X0100N ⁽¹⁾	ON	NPT 1"1/4	22,0 (0,866)	32,0 (1,260)	55,5 (2,185)	50,0 (1,969)	50,0 (1,969)	20,0 (0,787)	63,0 (2,480)
PCM360_N150X0100N ⁽¹⁾	ON	NPT 1"1/2	30,0 (1,181)	38,0 (1,496)	64,0 (2,520)	58,0 (2,283)	58,0 (2,283)	22,0 (0,866)	73,0 (2,874)
PCM360_N200X0100N ⁽¹⁾	ON	NPT 2"	34,0 (1,339)	44,0 (1,732)	75,0 (2,953)	64,0 (2,520)	68,0 (2,677)	22,0 (0,866)	73,0 (2,874)
PCM360_M012X010A3 ⁽²⁾	A3	M12 X 1.5	3,0 (0,118)	6,5 (0,256)	15,5 (0,610)	14,0 (0,551)	14,0 (0,551)	6,0 (0,236)	30,0 (1,181)
PCM360_M016X010A3 ⁽²⁾	A3	M16 X 1.5	5,0 (0,197)	10,0 (0,394)	22,0 (0,866)	20,0 (0,787)	20,0 (0,787)	6,0 (0,236)	35,0 (1,378)
PCM360_M020X010A3 ⁽¹⁾	A3	M20 X 1.5	6,0 (0,236)	12,0 (0,472)	24,5 (0,965)	22,0 (0,866)	22,0 (0,866)	6,0 (0,236)	33,5 (1,319)
PCM360_M020X020A3 ⁽¹⁾	A3	M20 X 1.5	7,5 (0,295)	14,0 (0,551)	26,8 (1,055)	24,0 (0,945)	24,0 (0,945)	8,0 (0,315)	41,5 (1,634)
PCM360_M025X010A3 ⁽¹⁾	A3	M25 X 1.5	10,0 (0,394)	18,0 (0,709)	33,0 (1,299)	30,0 (1,181)	30,0 (1,181)	8,0 (0,315)	44,5 (1,752)
PCM360_M032X010A3 ⁽¹⁾	A3	M32 X 1.5	16,0 (0,630)	25,0 (0,984)	44,5 (1,752)	40,0 (1,575)	40,0 (1,575)	9,0 (0,354)	55,0 (2,165)
PCM360_M040X010A3 ⁽¹⁾	A3	M40 X 1.5	22,0 (0,866)	32,0 (1,260)	55,5 (2,185)	50,0 (1,969)	50,0 (1,969)	9,0 (0,354)	62,5 (2,461)

Codice Code	Materiale Material	Filetto Thread	Dimensioni Sizes [mm (inch)]							
			B		D	K1	K2	E	F	
			Min	Max						
PCM360_M050X010A3 (1)	A3	M50 X 1.5	30,0 (1,181)	38,0 (1,496)	64,0 (2,520)	58,0 (2,283)	58,0 (2,283)	9,0 (0,354)	74,0 (2,913)	
PCM360_M063X010A3 (1)	A3	M63 X 1.5	34,0 (1,339)	44,0 (1,732)	75,0 (2,953)	64,0 (2,520)	68,0 (2,677)	14,0 (0,551)	60,0 (2,362)	
PCM360_M063X020A3 (1)	A3	M63 X 1.5	37,0 (1,457)	53,0 (2,087)	83,0 (3,268)	75,0 (2,953)	75,0 (2,953)	10,0 (0,394)	75,0 (2,953)	
PCM360_N025X010A3 (2)	A3	NPT 1/4"	3,0 (0,118)	6,5 (0,256)	16,5 (0,650)	14,0 (0,551)	15,0 (0,591)	11,5 (0,453)	30,0 (1,181)	
PCM360_N037X010A3 (2)	A3	NPT 3/8"	5,0 (0,197)	10,0 (0,394)	22,0 (0,866)	20,0 (0,787)	20,0 (0,787)	11,5 (0,453)	35,0 (1,378)	
PCM360_N050X010A3 (1)	A3	NPT 1/2"	6,0 (0,236)	12,0 (0,472)	24,5 (0,965)	22,0 (0,866)	22,0 (0,866)	15,0 (0,591)	39,5 (1,555)	
PCM360_N050X020A3 (1)	A3	NPT 1/2"	7,5 (0,295)	14,0 (0,551)	26,8 (1,055)	24,0 (0,945)	24,0 (0,945)	15,0 (0,591)	41,5 (1,634)	
PCM360_N075X010A3 (1)	A3	NPT 3/4"	10,0 (0,394)	18,0 (0,709)	33,0 (1,299)	30,0 (1,181)	30,0 (1,181)	15,0 (0,591)	43,5 (1,713)	
PCM360_N100X010A3 (1)	A3	NPT 1"	16,0 (0,630)	25,0 (0,984)	44,5 (1,752)	40,0 (1,575)	40,0 (1,575)	20,0 (0,787)	54,0 (2,126)	
PCM360_N125X010A3 (1)	A3	NPT 1"1/4	22,0 (0,866)	32,0 (1,260)	55,5 (2,185)	50,0 (1,969)	50,0 (1,969)	20,0 (0,787)	63,0 (2,480)	
PCM360_N150X010A3 (1)	A3	NPT 1"1/2	30,0 (1,181)	38,0 (1,496)	64,0 (2,520)	58,0 (2,283)	58,0 (2,283)	22,0 (0,866)	73,0 (2,874)	
PCM360_N200X010A3 (1)	A3	NPT 2"	34,0 (1,339)	44,0 (1,732)	75,0 (2,953)	64,0 (2,520)	68,0 (2,677)	22,0 (0,866)	73,0 (2,874)	
PCM360_M012X010A6 (2)	A6	M12 X 1.5	3,0 (0,118)	6,5 (0,256)	15,5 (0,610)	14,0 (0,551)	14,0 (0,551)	6,0 (0,236)	30,0 (1,181)	
PCM360_M016X010A6 (2)	A6	M16 X 1.5	5,0 (0,197)	10,0 (0,394)	22,0 (0,866)	20,0 (0,787)	20,0 (0,787)	6,0 (0,236)	35,0 (1,378)	
PCM360_M020X010A6 (1)	A6	M20 X 1.5	6,0 (0,236)	12,0 (0,472)	24,5 (0,965)	22,0 (0,866)	22,0 (0,866)	6,0 (0,236)	33,5 (1,319)	
PCM360_M020X020A6 (1)	A6	M20 X 1.5	7,5 (0,295)	14,0 (0,551)	26,8 (1,055)	24,0 (0,945)	24,0 (0,945)	8,0 (0,315)	41,5 (1,634)	
PCM360_M025X010A6 (1)	A6	M25 X 1.5	10,0 (0,394)	18,0 (0,709)	33,0 (1,299)	30,0 (1,181)	30,0 (1,181)	8,0 (0,315)	44,5 (1,752)	
PCM360_M032X010A6 (1)	A6	M32 X 1.5	16,0 (0,630)	25,0 (0,984)	44,5 (1,752)	40,0 (1,575)	40,0 (1,575)	9,0 (0,354)	55,0 (2,165)	
PCM360_M040X010A6 (1)	A6	M40 X 1.5	22,0 (0,866)	32,0 (1,260)	55,5 (2,185)	50,0 (1,969)	50,0 (1,969)	9,0 (0,354)	62,5 (2,461)	
PCM360_M050X010A6 (1)	A6	M50 X 1.5	30,0 (1,181)	38,0 (1,496)	64,0 (2,520)	58,0 (2,283)	58,0 (2,283)	9,0 (0,354)	74,0 (2,913)	
PCM360_M063X010A6 (1)	A6	M63 X 1.5	34,0 (1,339)	44,0 (1,732)	75,0 (2,953)	64,0 (2,520)	68,0 (2,677)	14,0 (0,551)	60,0 (2,362)	
PCM360_M063X020A6 (1)	A6	M63 X 1.5	37,0 (1,457)	53,0 (2,087)	83,0 (3,268)	75,0 (2,953)	75,0 (2,953)	10,0 (0,394)	75,0 (2,953)	
PCM360_N025X010A6 (2)	A6	NPT 1/4"	3,0 (0,118)	6,5 (0,256)	16,5 (0,650)	14,0 (0,551)	15,0 (0,591)	11,5 (0,453)	30,0 (1,181)	
PCM360_N037X010A6 (2)	A6	NPT 3/8"	5,0 (0,197)	10,0 (0,394)	22,0 (0,866)	20,0 (0,787)	20,0 (0,787)	11,5 (0,453)	35,0 (1,378)	
PCM360_N050X010A6 (1)	A6	NPT 1/2"	6,0 (0,236)	12,0 (0,472)	24,5 (0,965)	22,0 (0,866)	22,0 (0,866)	15,0 (0,591)	39,5 (1,555)	
PCM360_N050X020A6 (1)	A6	NPT 1/2"	7,5 (0,295)	14,0 (0,551)	26,8 (1,055)	24,0 (0,945)	24,0 (0,945)	15,0 (0,591)	41,5 (1,634)	
PCM360_N075X010A6 (1)	A6	NPT 3/4"	10,0 (0,394)	18,0 (0,709)	33,0 (1,299)	30,0 (1,181)	30,0 (1,181)	15,0 (0,591)	43,5 (1,713)	
PCM360_N100X010A6 (1)	A6	NPT 1"	16,0 (0,630)	25,0 (0,984)	44,5 (1,752)	40,0 (1,575)	40,0 (1,575)	20,0 (0,787)	54,0 (2,126)	
PCM360_N125X010A6 (1)	A6	NPT 1"1/4	22,0 (0,866)	32,0 (1,260)	55,5 (2,185)	50,0 (1,969)	50,0 (1,969)	20,0 (0,787)	63,0 (2,480)	
PCM360_N150X010A6 (1)	A6	NPT 1"1/2	30,0 (1,181)	38,0 (1,496)	64,0 (2,520)	58,0 (2,283)	58,0 (2,283)	22,0 (0,866)	73,0 (2,874)	
PCM360_N200X010A6 (1)	A6	NPT 2"	34,0 (1,339)	44,0 (1,732)	75,0 (2,953)	64,0 (2,520)	68,0 (2,677)	22,0 (0,866)	73,0 (2,874)	

Legenda materiali: ON = Ottone nichelato, A3 = Acciaio inossidabile AISI 303, A6 = Acciaio inossidabile AISI 316L

Materials' description: ON = Nickel-plated brass, A3 = AISI 303 stainless steel, A6 = AISI 316L stainless steel (1) Certificato c(UL)us Listed (QCRV, QCRV7).

(1) Certificato c(UL)us Listed (ccn QCRV, QCRV7).

(2) Certificato c(UR)us Recognized (ccn QCRV2, QCRV8).

(3) Non certificato c(UL)us Listed e c(UR)us Recognized.

- Non sono incluse ghiere, fornite separatamente.

- Per le tolleranze produttive a cui sono soggetti i cavi elettrici si suggerisce di scegliere il pressacavo corretto misurando il diametro minimo e massimo del cavo da installare.

(1) c(UL)us Listed certified (ccn QCRV, QCRV7).

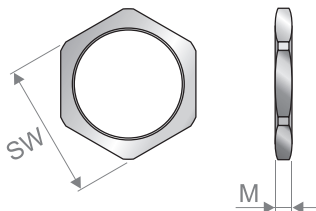
(2) c(UR)us Recognized certified (ccn QCRV, QCRV7).

(3) Not c(UL)us Listed and c(UR)us Recognized 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.

Ghiera esagonale - Lock nut

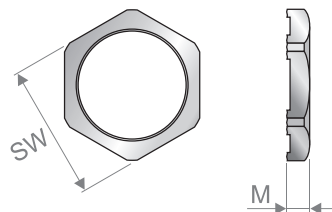


Codice Code	Materiale Material	Filetto Thread	Chiave di serraggio Tightening key [mm (inch)]		Dimensioni Sizes [mm (inch)]	
			SW	M		
PCFM10_M016X	ON	M16x1,5	19,0 (0,748)	3,0 (0,118)		
PCFM10_M020X	ON	M20x1,5	24,0 (0,945)	3,5 (0,138)		
PCFM10_M025X	ON	M25x1,5	30,0 (1,181)	4,0 (0,157)		
PCFM10_M032X	ON	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)		

Legenda materiali: ON = Ottone nichelato, AI = Acciaio inossidabile AISI 316L

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

Ghiera dentata - Serrated lock nut



Codice Code	Materiale Material	Filetto Thread	Chiave di serraggio Tightening key [mm (inch)]		Dimensioni Sizes [mm (inch)]	
			SW	M		
PCFM50_M016X	ON	M16x1,5	19,0 (0,748)	3,5 (0,138)		
PCFM50_M020X	ON	M20x1,5	24,0 (0,945)	4,0 (0,157)		
PCFM50_M025X	ON	M25x1,5	30,0 (1,181)	4,0 (0,157)		

Codice Code	Materiale Material	Filetto Thread	Chiave di serraggio Tightening key [mm (inch)] SW	Dimensioni Sizes [mm (inch)] M
PCFM50_M032X	ON	M32x1,5	36,0 (1,417)	5,0 (0,197)
PCFM50_M040X	ON	M40x1,5	46,0 (1,811)	5,3 (0,209)
PCFM50_M050X	ON	M50x1,5	55,0 (2,165)	6,3 (0,248)
PCFM50_M063X	ON	M63x1,5	70,0 (2,756)	7,0 (0,276)

Legenda materiali: ON = Ottone nichelato
Materials' description: ON = Nickel-plated brass

Composizione del codice - Code composition

