



Power Connector PC6 - Push & Pull Size X6 – 7,2kV



Plug/Inverted Plug, straight Push & Pull



Connector/Inverted Connector, straight Push & Pull



Socket/Inverted Socket, Push & Pull

INTRODUCTION

Cavotec Connectors develops electrical connectors that improve performance and protect critical applications in demanding environments. The Cavotec PC6-X6 size 7,2kV is a non-Ex rated medium voltage connector designed for frequent connections and disconnections. Designed with Cavotec Push & Pull system, it offers a safe way for connecting and disconnecting via an ergonomic push & pull handle which could be critical in case of emergency. Cavotec X6, a safe and easy power supply device for applications such as:

- RTG cranes – Shore – Mining & tunnelling – Energy – Ports – Steel mills

Cavotec PC6 compact and light design was possible with Cavotec's MWT technology enabling smaller pins to take high current with a minimal voltage drop.

PRODUCT FEATURES

- Maximum voltage 7,2kV (400V in pilot circuit), currents up to 500A
- Up to 4 pole insulator assembly as standard covering cable sizes up to 300mm²
- IP66 (when connected or with covers closed)
- Standard ambient temperature: -40°C to +80°C or -40°F to +176°F
- Socket & connector connection with integrated cover operated by the push & pull arms
- Standard finishes: marine grade aluminium ISO 3522 - Hardware in stainless steel
- Push & Pull arm material: Bronze ISO 1338:1977
- Female contact, male pin and cable terminal material: silver plated brass/copper
- Easy wiring with male and female insulators fully interchangeable made in POM (Polyoxymethylene)
- Interchangeable pins & female contacts without dismantling the connector
- All cable terminals suits for cables of class 5, IEC 60228
- Cable glands: Cavotec "onion ring" gasket and strain relief covering cable outer diameters from Ø 45 - 110 mm
- For termination of the cable terminals, industry approved termination kits for 7,2kV must be used. Termination kits may be supplied by Cavotec on request.
- Standard cable terminals for crimping with hexagonal crimping tool

OPTIONAL FEATURES

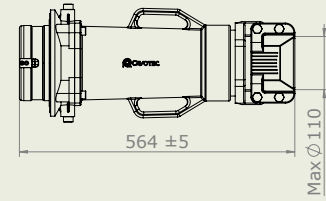
- Plug cover: PCX-01616-006
- Finger protection female socket: PCX-24670-404K (7,2kV)
- Termination kit Raychem 10-35mm², IXSU F3111: PEE-07062-850
- Termination kit Raychem 25-95mm², IXSU F3121: PEE-07062-860
- Termination kit Raychem 95-240mm², IXSU F3131: PEE-07062-880
- Wall mounting bracket for Connector: PCX-49X10-2002
- Finishes: Colour or non-colour anodizing / Clear coat or solid color painting
- Mechanical interlock through different type of key locking system & additional pilot pins or multipin signal pins
- Up to 12ch integrated (EB) or up to 18ch externally (butt joint)

SPECIAL TOOLS

Male pin Dia. 14, 16, 20mm	Female contact Dia. 14, 16, 20mm	Key width	Socket wrench (Part numb.)
PCX-11014-XXXX		18/19	PCX-92102-019
	PCX-12014-XXXX	21/23	PCX-92102-021
PCX-11016-082	PCX-12016-XXXX	21/23	PCX-92102-021
PCX-11020-XXXX	PCX-12020-XXXX	30/32	PCX-92102-030

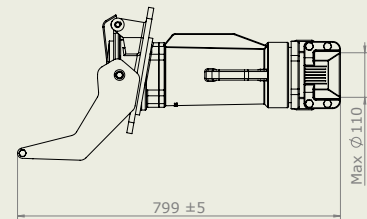
PLUG/INVERTED PLUG, STRAIGHT PUSH & PULL

No pins (P&E+pil)	Max. voltage phase / pilot	Pin Size (mm) Max. Amp	Weight kg	Cross section mm ² /Max rec. Amp	Plug: Male Pins Product Code	Inv. Plug: Female Contacts Product Code
4+2	7200/400	16mm / 500A	10	25 mm ² / 125A*	PC6-SX04-K0250	PC6-TX04-K0250
				35 mm ² / 160A	PC6-SX04-K0350	PC6-TX04-K0350
				50 mm ² / 200A	PC6-SX04-K0500	PC6-TX04-K0500
				70 mm ² / 250A	PC6-SX04-K0700	PC6-TX04-K0700
				95 mm ² / 300A	PC6-SX04-K0950	PC6-TX04-K0950
				120 mm ² / 350A	PC6-SX04-K1200	PC6-TX04-K1200
				150 mm ² / 420A	PC6-SX04-K1500	PC6-TX04-K1500
				185mm ² / 500A	PC6-SX04-K1850	PC6-TX04-K1850
				240mm ² / 500A	PC6-SX04-K2400	PC6-TX04-K2400
				300mm ² / 500A	PC6-SX04-K3000	PC6-TX04-K3000
4+3	7200/400	16mm / 500A	10	25 mm ² / 125A*	PC6-SX04-K02503	PC6-TX04-K02503
				35 mm ² / 160A	PC6-SX04-K03503	PC6-TX04-K03503
				50 mm ² / 200A	PC6-SX04-K05003	PC6-TX04-K05003
				70 mm ² / 250A	PC6-SX04-K07003	PC6-TX04-K07003
				95 mm ² / 300A	PC6-SX04-K09503	PC6-TX04-K09503
				120 mm ² / 350A	PC6-SX04-K12003	PC6-TX04-K12003
				150 mm ² / 420A	PC6-SX04-K15003	PC6-TX04-K15003
				185mm ² / 500A	PC6-SX04-K18503	PC6-TX04-K18503
				240mm ² / 500A	PC6-SX04-K24003	PC6-TX04-K24003
				300mm ² / 500A	PC6-SX04-K30003	PC6-TX04-K30003



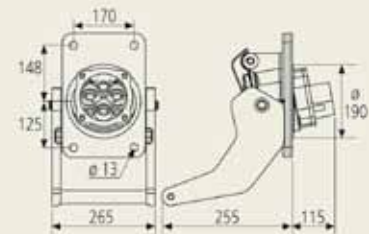
CONNECTOR/INVERTED CONNECTOR, STRAIGHT PUSH & PULL

No pins (P&E+pil)	Max. voltage phase / pilot	Pin Size (mm) Max. Amp	Weight kg	Cross section mm ² / Max rec. Amp	Connector: Female Contacts Product Code	Inv. Connector: Male Pins Product Code
4+2	7200/400	16mm / 500A	19	25 mm ² / 125A*	PC6-RX04-K0250	PC6-PX04-K0250
				35 mm ² / 160A	PC6-RX04-K0350	PC6-PX04-K0350
				50 mm ² / 200A	PC6-RX04-K0500	PC6-PX04-K0500
				70 mm ² / 250A	PC6-RX04-K0700	PC6-PX04-K0700
				95 mm ² / 300A	PC6-RX04-K0950	PC6-PX04-K0950
				120 mm ² / 350A	PC6-RX04-K1200	PC6-PX04-K1200
				150 mm ² / 420A	PC6-RX04-K1500	PC6-PX04-K1500
				185mm ² / 500A	PC6-RX04-K1850	PC6-PX04-K1850
				240mm ² / 500A	PC6-RX04-K2400	PC6-PX04-K2400
				300mm ² / 500A	PC6-RX04-K3000	PC6-PX04-K3000
4+3	7200/400	16mm / 500A	19	25 mm ² / 125A*	PC6-RX04-K02503	PC6-PX04-K02503
				35 mm ² / 160A	PC6-RX04-K03503	PC6-PX04-K03503
				50 mm ² / 200A	PC6-RX04-K05003	PC6-PX04-K05003
				70 mm ² / 250A	PC6-RX04-K07003	PC6-PX04-K07003
				95 mm ² / 300A	PC6-RX04-K09503	PC6-PX04-K09503
				120 mm ² / 350A	PC6-RX04-K12003	PC6-PX04-K12003
				150 mm ² / 420A	PC6-RX04-K15003	PC6-PX04-K15003
				185mm ² / 500A	PC6-RX04-K18503	PC6-PX04-K18503
				240mm ² / 500A	PC6-RX04-K24003	PC6-PX04-K24003
				300mm ² / 500A	PC6-RX04-K30003	PC6-PX04-K30003



SOCKET/INVERTED SOCKET, PUSH&PULL



















No pins (P&E+pil)	Max. voltage phase / pilot	Pin Size (mm) Max. Amp	Weight kg	Cross section mm ² / Max rec. Amp	Socket Female Contacts Product Code	Inv. Socket: Male Pins Product Code
4+2	7200/400	16mm / 500A	12	25 mm ² / 125A*	PC6-VX04-K0250	PC6-WX04-K0250
				35 mm ² / 160A	PC6-VX04-K0350	PC6-WX04-K0350
				50 mm ² / 200A	PC6-VX04-K0500	PC6-WX04-K0500
				70 mm ² / 250A	PC6-VX04-K0700	PC6-WX04-K0700
				95 mm ² / 300A	PC6-VX04-K0950	PC6-WX04-K0950
				120 mm ² / 350A	PC6-VX04-K1200	PC6-WX04-K1200
				150 mm ² / 420A	PC6-VX04-K1500	PC6-WX04-K1500
				185mm ² / 500A	PC6-VX04-K1850	PC6-WX04-K1850
				240mm ² / 500A	PC6-VX04-K2400	PC6-WX04-K2400
				300mm ² / 500A	PC6-VX04-K3000	PC6-WX04-K3000
4+3	7200/400	16mm / 500A	12	95 mm ² / 300A	PC6-VX04-K09503	PC6-WX04-K09503
				35 mm ² / 160A	PC6-VX04-K03503	PC6-WX04-K03503
				50 mm ² / 200A	PC6-VX04-K05003	PC6-WX04-K05003
				70 mm ² / 250A	PC6-VX04-K07003	PC6-WX04-K07003
				95 mm ² / 300A	PC6-VX04-K09503	PC6-WX04-K09503
				120 mm ² / 350A	PC6-VX04-K12003	PC6-WX04-K12003
				150 mm ² / 420A	PC6-VX04-K15003	PC6-WX04-K15003
				185mm ² / 500A	PC6-VX04-K18503	PC6-WX04-K18503
				240mm ² / 500A	PC6-VX04-K24003	PC6-WX04-K24003
				300mm ² / 500A	PC6-VX04-K30003	PC6-WX04-K30003



Dimensions ± 5mm

* For smaller sizes, please contact your local Cavotec sales office

POWER CONNECTORS PRODUCT RANGE

Size	Connection type	Model name	Keying position	Accessories	Certifications	1-pole	3-pole	4-pole			5-pole	8-pole	13-pole	18-pole	25-pole	24, 30 & 37-pole	50-pole				
PC1	Screw Ring	S1	12								40A 690V 4mm ²	20A 415V 2,5mm ²	10A 230V 1,5mm ²	10A 230V 1,5mm ²							
	Screw Ring	S1	2, 4, 6, 8, 10, 12		ATEX & IECEx 						30A 690V 4mm ²	20A* 415V* 2,5mm ²	10A* 230V* 1,5mm ²	10A* 230V* 1,5mm ²							
PC2	Push&Pull	X2	2, 3, 4, 5, 6, 7, 8, 9, 10, 12 Insulator keying: 1-11	Low interlocking (PC2-VL) Wall bracket Screw terminals		660A 690V 300mm ²	250A 690V 70mm ²	200A 690V 50mm ²			200A 415V 50mm ²			40A 500V 4mm ²	40A 50V 4mm ²						
	Bayonet	B2	Double keying 1-11 55 options		ATEX & IECEx 	660A 690V 300mm ²	250A 690V 70mm ²	200A 690V 50mm ²			200A 415V 50mm ²			40A 500V 4mm ²	40A 50V 4mm ²						
PC3	Eye Bolt	K3						170A 1,1kV 50mm ²													
PC4	Push&Pull	X4	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12	External FO 6ch Screw terminals				250A 1,1kV 70mm ²			200A 1,1kV 70mm ²					40A 500V 4mm ²					
	Screw Ring	S4	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12	Short bell				250A 1,1kV 70mm ²			200A 1,1kV 70mm ²										
	Eye Bolt	K4						250A 1,1kV 70mm ²													
PC5	Push&Pull	X5	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12	External FO 12ch Internal FO 8ch Screw terminals Kirk Key interlock Wall bracket				420A 1,1kV 185mm ² Internal fiber optic	350A 7,2kV 150mm ² 								40A 500V 4mm ²				
	Screw Ring	S5	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12	Internal FO 8ch Screw terminals				420A 1,1kV 185mm ² Internal fiber optic	350A 7,2kV 150mm ²		350A 1,1kV 185mm ²										
PC6	Push&Pull	X6	6.12	External FO 18ch Internal FO 12ch Screw terminals Kirk Key interlock Wall bracket				660A 1,1kV 300mm ² Internal fiber optic	480A 7,2kV 240mm ² Internal fiber optic	500A 12kV 185mm ²	480A 1,1kV 300mm ²										
	Screw Ring	S6	6.12					660A 1,1kV 300mm ²			660A 1,1kV 300mm ²										
PC7	Eye Bolt	K7						400A 8kV 185mm ²													
PC8	Eye Bolt	K8						440A 15kV 120mm ²													
PC9	Eye Bolt	K9						440A 25kV 150mm ²													

*Available Q2 2015