



Power Connector PC4 – Screw ring Size S4 – 1.1kV



Plug/Inverted Plug, straight Screw ring



Connector / Inverted connector screw ring



Socket / Inverted socket Screw ring

INTRODUCTION

Cavotec Connectors develops electrical connectors that improve performance and protect critical applications in demanding environments. The Cavotec PC4-S4 is a non-Ex rated connector equipped with a screw ring. The screw ring connection offers a safe and easy connection above all when having a limited space (e.g. Distribution panel with several plugs and sockets with a narrow space - or when using plug and connectors as an extension cord where the connectors are dragged on the ground). Cavotec S4, a safe and easy power supply device for applications such as:

- Ports – Steel mills – Mining & tunnelling – Energy – Railways

Cavotec PC4 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 1,1kV (400V in pilot circuit), currents up to 250A
- 4 or 5 pole insulator assembly as standard (See Multipin connectors data sheet for more pole)
- IP66 (when mated or capped – if not, protection with covers secured with a retention wire)
- Standard ambient temperature: -40°C to +80°C or -40°F to +176°F
- Standard finishes: marine grade aluminium ISO 3522 - Hardware in stainless steel
- Screw ring material: Bronze ISO 1338:1977
- Female contact, male pin and cable terminal material: silver plated brass
- Easy wiring with male and female insulators fully interchangeable made in PPO (Polyphenylene Oxide)
- Interchangeable pins without dismantling the connector
- All cable terminals suits for cables of class 5, IEC 60228
- Standard cable terminals for crimping with hexagonal crimping tool
- Cable glands: Cavotec "onion ring" gasket and strain relief covering cable outer diameters from Ø 25-55 mm

OPTIONAL FEATURES

- High temperature version for +80°C - +250°C or +176°F - +482°F
- Insulator material: machined PTFE (Teflon)
- External fiber optic plug and socket
- Plug available in straight or bent version
- Plug cover: PCX-01604-006
- Short straight bell for plug and connector on request
- Wide variety of other insulator configurations available in machined POM (Polyoxymethylene)
- Cable terminals: Screw type with 2 set of screws and cable sleeves
- Finishes: Colour or non-colour anodizing / Clear coat
- Housings available in bronze
- Additional pilot pins

SPECIAL TOOLS

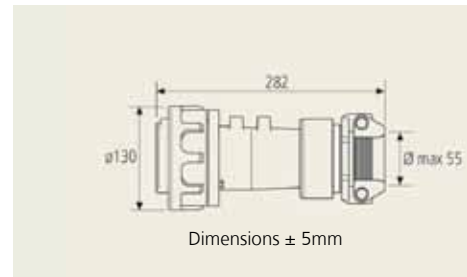
Spanner tool for screw ring PCX-92120-130

Male pin Dia. 8, 10mm	Female contact Dia. 8, 10mm	Key width	Socket wrench (Part numb.)
PCX-11008-XXXX	PCX-12008-XXXX	12/13	PCX-92102-012
PCX-11010-XXXX	PCX-12010-XXXX	14/15	PCX-92102-0141



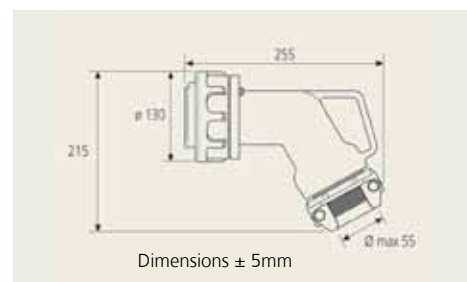
PLUG/INVERTED PLUG, STRAIGHT SCREW RING

No Pins (P&E+pil)	Pin \varnothing (mm) Max. Amp	Weight kg	Cross Section mm ² / Rec. Amp	Plug: Male Pins Product Code	Inv.plug: Female Contacts Product Code
4+2	10mm / 250A	2,4	35mm ² / 160A**	PC4-SS04-0350	PC4-TS04-0350
			50mm ² / 200A	PC4-SS04-0500	PC4-TS04-0500
			70mm ² / 250A	PC4-SS04-0700	PC4-TS04-0700
5+2	8mm / 200A	2,4	25mm ² / 125A**	PC4-SS05-0250	PC4-TS05-0250
			35mm ² / 160A	PC4-SS05-0350	PC4-TS05-0350
			50mm ² / 200A	PC4-SS05-0500	PC4-TS05-0500
			70mm ² / 200A	PC4-SS05-0700*	PC4-TS05-0700*



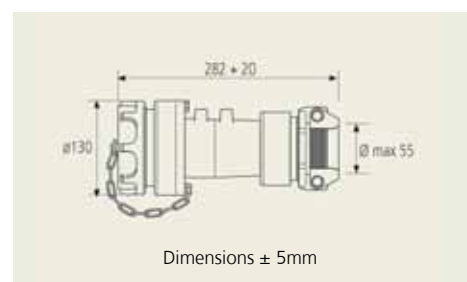
PLUG/INVERTED PLUG, BENT SCREW RING

No Pins (P&E+pil)	Pin \varnothing (mm) Max. Amp	Weight kg	Cross Section mm ² / Rec. Amp	Plug: Male Pins Product Code	Inv.plug: Female Contacts Product Code
4+2	10mm / 250A	2,5	35mm ² / 160A**	PC4-SS04-0350B	PC4-TS04-0350B
			50mm ² / 200A	PC4-SS04-0500B	PC4-TS04-0500B
			70mm ² / 250A	PC4-SS04-0700B	PC4-TS04-0700B
5+2	8mm / 200A	2,5	25mm ² / 125A**	PC4-SS05-0250B	PC4-TS05-0250B
			35mm ² / 160A	PC4-SS05-0350B	PC4-TS05-0350B
			50mm ² / 200A	PC4-SS05-0500B	PC4-TS05-0500B
			70mm ² / 200A	PC4-SS05-0700B*	PC4-TS05-0700B*



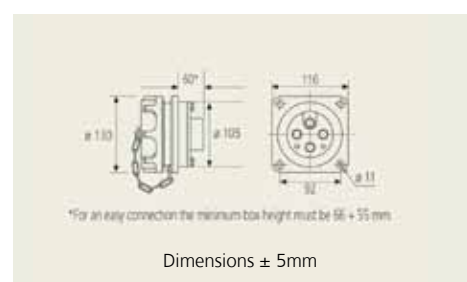
CONNECTOR/INVERTED CONNECTOR, STRAIGHT SCREW RING

No Pins (P&E+pil)	Pin \varnothing (mm) Max. Amp	Weight kg	Cross Section mm ² / Rec. Amp	Connector: Female Contacts Product Code	Inv.connector: Male Pins Product Code
4+2	10mm / 250A	2,7	35mm ² / 160A**	PC4-RS04-0350	PC4-PS04-0350
			50mm ² / 200A	PC4-RS04-0500	PC4-PS04-0500
			70mm ² / 250A	PC4-RS04-0700	PC4-PS04-0700
5+2	8mm / 200A	2,7	25mm ² / 125A**	PC4-RS05-0250	PC4-PS05-0250
			35mm ² / 160A	PC4-RS05-0350	PC4-PS05-0350
			50mm ² / 200A	PC4-RS05-0500	PC4-PS05-0500
			70mm ² / 200A	PC4-RS05-0700*	PC4-PS05-0700*



SOCKET/INVERTED SOCKET, SCREW RING


















No Pins (P&E+pil)	Pin \varnothing (mm) Max. Amp	Weight kg	Cross Section mm ² / Rec. Amp	Socket: Female Contacts Product Code	Inv.socket: Male Pins Product Code
4+2	10mm / 250A	1,7	35mm ² / 160A**	PC4-VS04-0350	PC4-WS04-0350
			50mm ² / 200A	PC4-VS04-0500	PC4-WS04-0500
			70mm ² / 250A	PC4-VS04-0700	PC4-WS04-0700
5+2	8mm / 200A	1,7	25mm ² / 125A**	PC4-VS05-0250	PC4-WS05-0250
			35mm ² / 160A	PC4-VS05-0350	PC4-WS05-0350
			50mm ² / 200A	PC4-VS05-0500	PC4-WS05-0500
			70mm ² / 200A	PC4-VS05-0700*	PC4-WS05-0700*



* Screw type cable terminal not available

** 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