

DAS-CC-20-EU



Power Connector PC7 Size K7 – 8kV

INTRODUCTION

Cavotec offers a new range of High Voltage Cable Coupler Systems designed and manufactured for use in various mining (OP/UG), power generation, tunneling, and sea port/shore, operations to distribute power to mobile/portable, electric equipment. While maintaining current market standards, numerous design improvements have been integrated into the new coupler designs in order to increase safety, durability and reliability in the field.

PRODUCT FEATURES & BENEFITS

- Wedge type method of Wire Termination ensures a secure contact and connection between wires and pin/socket contacts.
- Stainless Steel Wire Spring Band on Female Sockets ensures a secure and lasting connection between male & female contacts.
- Silicon Stress Control Termination Kit is re-usable and provides air-free termination.
- Three separate Phase Insulators VS one moulded insulator piece.
- Phase Insulators are made from rigid, thermoset material ensuring durability, heat resistance and high insulation properties.
- New type of Cable Entrance assembly is designed to seal and clamp cable to coupler with one action.
- Live-Line LED Indication System that provided an operator with visible indication of an energized coupler.

PRODUCT OPTIONS

- Male-to-Female or Male-Adapter-Male versions available.
- Durable, Powder-Coat Finish (various colors).
- Standard and/or Lock-out Key Interlock Systems.
- Adapter Boxes, Splitters & Adapter Bodies c/w Skid.
- Optional 'Key Interlock' system is an additional optional feature in the 8kV systems that prevents coupler disconnection without prior switch house lock-out.
- Optional Safe Eye-Bolt System, ensures delay for pilot circuit separation prior to uncoupling thus reducing potential phase arcing.



High Voltage Cable Coupler Systems



Power Connector



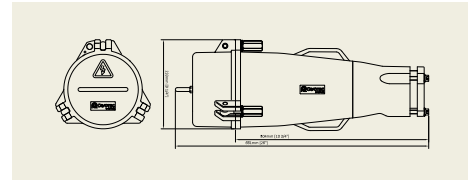
Heavy duty skid

PRODUCT SPECIFICATIONS

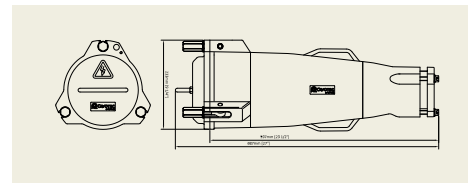
- Maximum voltage 8kV; maximum amperage 400A
- Standard ambient temperature: -40°C to +80° C (-40°F to +176°F)
- Standard body finish: Bare aluminum alloy A365.2
- Standard hardware: Stainless Steel / Brass
- Standard contacts: Silver plated Cu alloy
- Available in Cable Range from 35 - 185mm² (#2 – 350MCM)
- Reusable Termination Kit



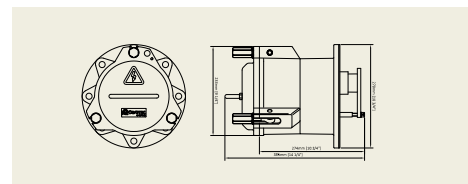
No Pins (P&E+pil)	Max current A	Weight kg	Incoming cable size/Rec. current	Plug
3+2+1	400A	17,5	70mm ² /250A	PC7-SK04-K070001
3+2+1	400A	17,5	95mm ² /300A	PC7-SK04-K095001
3+2+1	400A	17,5	120mm ² /350A	PC7-SK04-K120001
3+2+1	400A	17,5	150mm ² /400A	PC7-SK04-K150001
3+2+1	400A	17,5	185mm ² /400A	PC7-SK04-K185001




















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3+2+1	400A	17,5	185mm ² /400A	PC7-RK04-K185001



No Pins (P&E+pil)	Max current A	Weight kg	Incoming cable size/Rec. current	Socket
3+2+1	400A	12,5	70mm ² /250A	PC7-VK04-K070001
3+2+1	400A	12,5	95mm ² /300A	PC7-VK04-K095001
3+2+1	400A	12,5	120mm ² /350A	PC7-VK04-K120001
3+2+1	400A	12,5	150mm ² /400A	PC7-VK04-K150001
3+2+1	400A	12,5	185mm ² /400A	PC7-VK04-K185001



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

For further information please visit www.cavotec.com

Disclaimer: specifications are subject to change without notice