

DAS-CC-21-EU



Power Connector PC8 Size K8 – 15kV



15kV Plug and Connector



15kV Plug and Connector



Heavy duty skid

INTRODUCTION

Cavotec offers a new range of High Voltage Cable Coupler Systems designed and manufactured for use in various mining (OP/UG), 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 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.
- Stress Control Adapter Termination Kit is re-usable and provides air-free termination.
- Phase Insulators are made from rigid, thermoset material ensuring durability, heat resistance and high insulation properties.
- 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)
- Crimping Termination c/w MWT System
- 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 15kV 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.

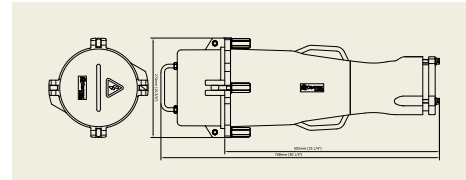
PRODUCT SPECIFICATIONS

- Maximum voltage 15kV; maximum amperage 440A
- 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 - 120mm² (#2 – 350MCM)
- Reusable Termination Kit



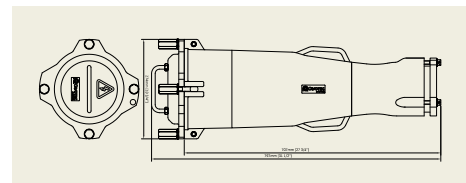
PLUG

| No Pins (P&E+pil) | Max current A | Weight kg | Incoming cable size/Rec. current | Plug |
|-------------------|---------------|-----------|----------------------------------|------------------|
| 3+2+1 | 440A | 18 | 70mm ² /250A | PC8-SK04-M070001 |
| 3+2+1 | 440A | 18 | 95mm ² /300A | PC8-SK04-M095001 |
| 3+2+1 | 440A | 18 | 120mm ² /350A | PC8-SK04-M120001 |



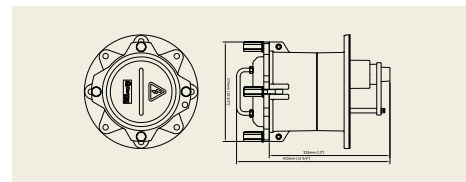
CONNECTOR

| No Pins (P&E+pil) | Max current A | Weight kg | Incoming cable size/Rec. current | Connector |
|-------------------|---------------|-----------|----------------------------------|------------------|
| 3+2+1 | 440A | 19 | 70mm ² /250A | PC8-RK04-M070001 |
| 3+2+1 | 440A | 19 | 95mm ² /300A | PC8-RK04-M095001 |
| 3+2+1 | 440A | 19 | 120mm ² /350A | PC8-RK04-M120001 |




















SOCKET

| No Pins (P&E+pil) | Max current A | Weight kg | Incoming cable size/Rec. current | Socket |
|-------------------|---------------|-----------|----------------------------------|------------------|
| 3+2+1 | 440A | 12,5 | 70mm ² /250A | PC8-VK04-M070001 |
| 3+2+1 | 440A | 12,5 | 95mm ² /300A | PC8-VK04-M095001 |
| 3+2+1 | 440A | 12,5 | 120mm ² /350A | PC8-VK04-M120001 |



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