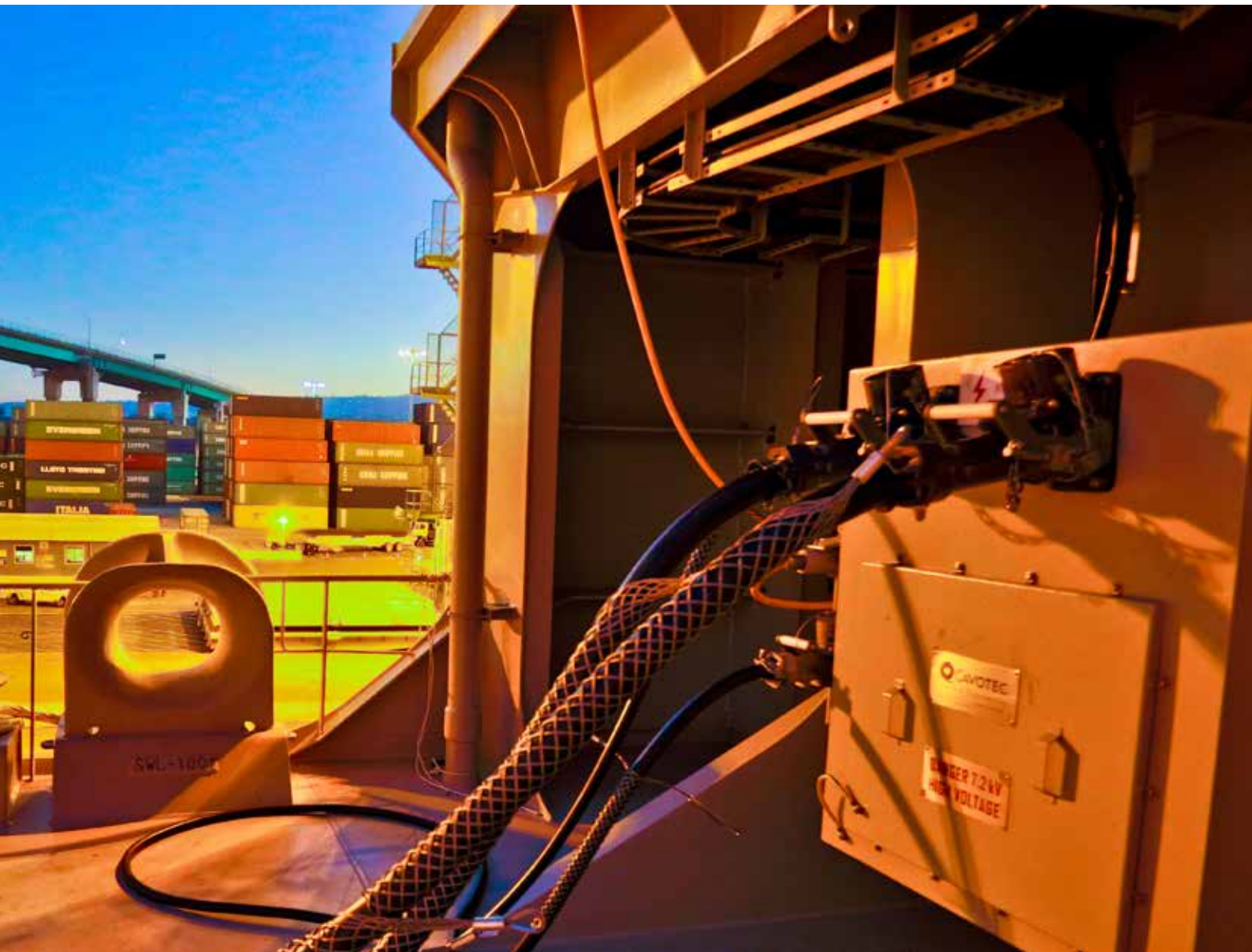




# ELECTRICAL POWER CONNECTORS

*Cavotec wants to contribute to a future world that is cleaner, safer and more efficient by providing innovative connection solutions for ships, aircraft and mobile equipment today.*



## Our Markets

### Ports & Maritime

*Electrification and automation from berthing to shipping.*

Cavotec develops and manufactures innovative automation and electrification technologies for the global ports and maritime sectors.

We continually innovate and develop our technologies to ensure that we deliver the levels of operational performance, safety and sustainability that our customers demand at all types of ports and terminals.

Cavotec is the global leader in automated mooring, shore power, crane electrification, connection and charging systems.

### Airports

*Powering, cooling and fuelling aircraft.*

Cavotec is a leading Ground Support Equipment (GSE) specialist, developing state-of-the-art systems for gates, remote aprons and Maintenance Repair & Overhaul (MRO) hangars for commercial and military applications.

Cavotec's comprehensive range of systems includes 400Hz and 28VDC Ground Power Units (GPU), Pre-Conditioned Air (PCA) systems, wet services and fuel systems integrated under passenger boarding bridges (PBB), as well as in-ground and tunnel systems.

### Industry & Mining

*Connecting, powering and controlling industry and mining equipment.*

Cavotec develops technologies that drive productivity and contribute to customers' operational efficiency. We improve existing systems, and bring new technologies to the market to meet the cost and operational challenges our customers face. We support customers in a wide variety of industrial sectors, such as cranes, energy, processing and transportation, surface and underground mining, and tunnelling.

Our solutions for the Industry & Mining sector include motorised cable and hose reels, Human Operator Interface (HOI) systems, Radio Remote Controls (RRC), power connectors, slip rings and spring driven cables and hose reels.



# CAVOTEC CONNECTORS

*Cavotec develops and manufactures high quality, heavy duty industrial power connectors, power units and automatic plug-in systems for applications worldwide. Technologies that help customers improve safety, reduce environmental impact and operate more efficiently.*



Cavotec connectors are widely used at the ports, mines, tunnel construction sites, steel mills, train applications, and elsewhere; and are certified to ISO9001 and ISO14001.

Cavotec offers extensive expertise and experience - as well as the capacity to develop systems that meet customers' specific challenges and requirements.

## Product Range

### Plugs & Sockets

Cavotec connectors are designed for safe and frequent connection and disconnection. They incorporate ergonomic Push & Pull handles, bayonets, and Eye-bolt or screw ring functionality. Cavotec connectors are also readily integrated with fibre optic assemblies.

### Power Units

Cavotec Power Units are designed for easy use in harsh conditions over many years with minimal downtime or service requirements. Only high quality components are used and all units are equipped with Cavotec Push & Pull sockets that allow safe and simple connection.

## Contents

|                                          |          |                                           |           |
|------------------------------------------|----------|-------------------------------------------|-----------|
| <b>Plugs &amp; Sockets .....</b>         | <b>2</b> | <b>Power Units .....</b>                  | <b>42</b> |
| Plugs & Sockets product overview .....   | 6        | Power Units product overview .....        | 44        |
| PC1 – Screw Ring • Size S1 – 690V.....   | 8        | Wall mounted/Mechanical interlock .....   | 46        |
| PC1-EX • Size S1-Ex.....                 | 10       | Wall mounted/Electrical interlock.....    | 48        |
| PC2 – Push & Pull • Size X2 – 690V.....  | 12       | Ground mounted/Electrical interlock ..... | 50        |
| PC2-EX • Size B2-Ex .....                | 16       |                                           |           |
| PC4 – Push & Pull • Size X4 – 1.1kV..... | 18       | <b>Services .....</b>                     | <b>53</b> |
| PC4 – Screw ring • Size S4 – 1.1kV.....  | 20       | <b>Reference List.....</b>                | <b>53</b> |
| PC5 – Push & Pull • Size X5 – 1.1kV..... | 22       |                                           |           |
| PC5 – Push & Pull • Size X5 – 7.2kV..... | 24       |                                           |           |
| PC5 – Screw ring • Size S5 – 1.1kV.....  | 26       |                                           |           |
| PC5 – Screw ring • Size S5 – 7.2kV.....  | 28       |                                           |           |
| PC6 – Push & Pull • Size X6 – 1.1kV..... | 30       |                                           |           |
| PC6 – Push & Pull • Size X6 – 7.2kV..... | 32       |                                           |           |
| PC6 – Push & Pull • Size X6 – 12kV.....  | 34       |                                           |           |
| PC6 – Push & Pull • Size X6 – 15kV.....  | 36       |                                           |           |
| Multipin connectors • 500V .....         | 38       |                                           |           |





## PLUGS & SOCKETS

Cavotec connectors feature a variety of cutting edge technologies that ensure optimal performance throughout products lifetime.

These features include electrical interlocking of pilot contacts, lamellar, Multi-Way Technology, and Push & Pull systems.

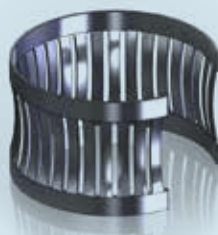
All Cavotec connectors are IP 66 protected, and have a standard maximum operating temperature of 80°C - which can be extended to withstand temperatures of up to 400°C.





## Terminology

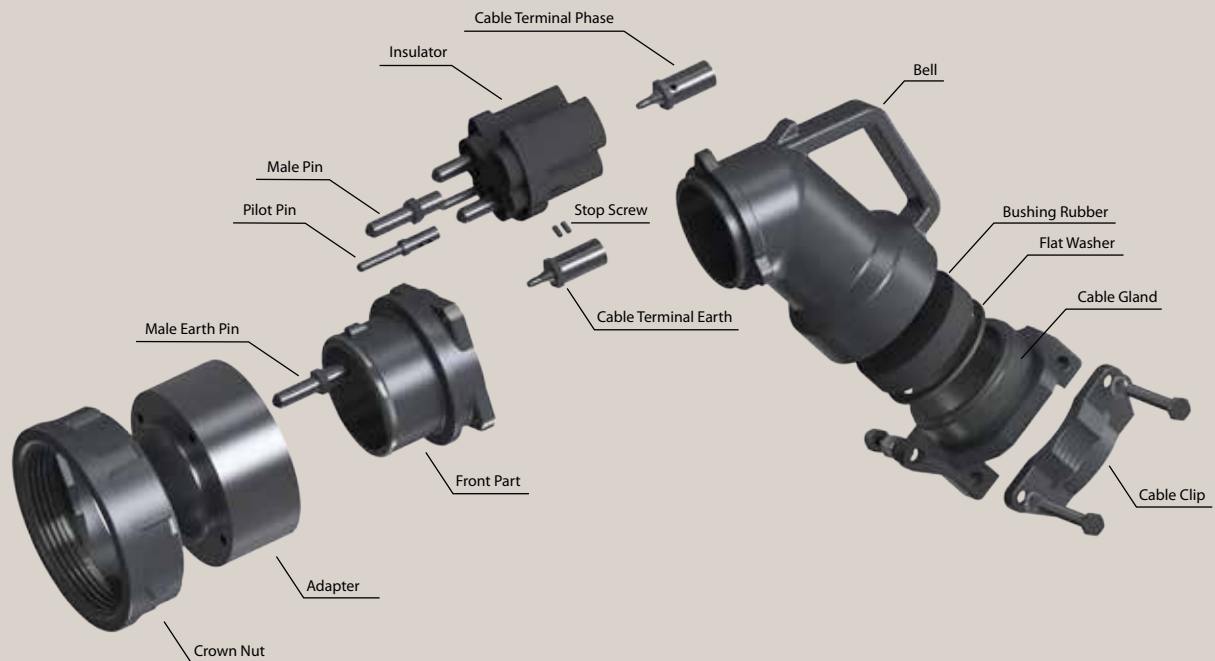
| <b>Standard</b>                                                                                                            | <b>Inverted</b>                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|
| Plug<br>(Cable mounted plug)<br>         | Plug<br>               |
| Socket<br>(Gear mounted socket)<br>     | Socket<br>(Inlet)<br> |
| Connector<br>(Cable mounted socket)<br> | Connector<br>         |



MWT lamella

### **Multi-Way Technology**

Cavotec power connectors feature lamellar, Multi-Way Technology, (MWT). MWT greatly improves the contact between male and female pins. As the MWT becomes warm, it expands thus increasing contact pressure between the surfaces. This additional contact pressure greatly enhances current-carrying capacity relative to the size of the contacts, and makes connecting and disconnecting the plug and socket significantly easier.



## Standards

All Cavotec's power connectors conform to the following standards, as applicable:

- NFC 63300 rules
- IEC 60309/IEC 62613 - for plugs, socket-outlets and couplers for industrial purposes, low and high voltage
- IEC 60529 - standards for protection against dust, water at minimum mechanical load
- IEC 60079 - standard for Explosive Atmospheres
- IEC 80005:1, IEC 80005:3, IEC 62613-2 - AMP standards
- All housing is in marine grade aluminium Al-Si7MgFe or Bronze CuSn5Pb5An5
- Harsh marine environments
- Fasteners are in A4 or AISI 316
- Insulators are made in PPO, POM, PP and PTFE

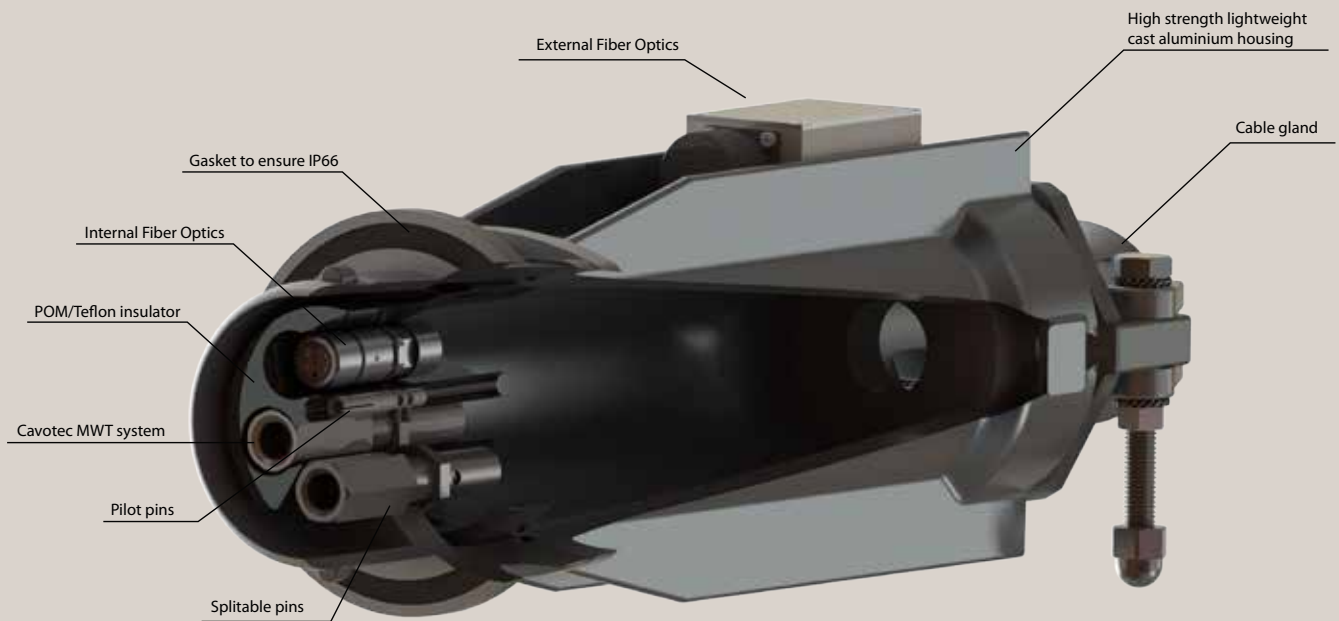


|                                                                                                                         |  |                                                                                                                                                                                                   |
|-------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>CAVOTEC</b> www.cavotec.com<br>Code: <b>PC1-EX-TS05-0025</b><br>Amperage: <b>30A</b> Voltage: <b>690V</b><br>CE 0470 |  | Certificate ATEX No: 13ATEX1571<br>Certificate IECEx No: 060000000000<br>Temp: -20°C to +80°C<br>= WARNING =<br>EX-ARMORED ALL CONDUITS BEFORE INSTALLATION<br>Serial No: <b>EX-20140018</b> IP66 |
|-------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Definition of material criteria

The minimum required creepage distances over an insulating material between electrically conducting parts in apparatus, especially between parts with a high voltage and parts that can be touched by human users, is dependent on the insulators' Comparative Tracking Index, (CTI).

- PPO have a CTI = 400 moulded std insulators
- POM have a CTI > 400 < 600 tooled insulators
- PP have a CTI > 600 moulded insulators for IEC 309-2



## Product features

- From low voltage products from 50V up to 25kV
- Up to 680A
- IP 66
- Max ambient temperature of 80°C, optional configuration with maximum of 400°C
- Cable size from 1,5mm<sup>2</sup> to 300mm<sup>2</sup>
- All contacts using Cavotec MWT system
- Large number of pin configurations for power, pilot pins, control signal and fiber optics channels
- Pins:
  - Interchangeable pins without dismantling the connector
  - Female contacts, male pins and cable terminals are made of silver plated brass
  - High safety standard with pilot pin being shorter than the phase pins ensuring they must be connected to a circuit
- Fiber optics for plug and socket, both as integrated or as separate contact. With configurations between 4 - 24 channels in multi or single-mode communication
- Easy wiring with male and female insulators fully interchangeable between plug and socket
- Cable terminals suit for cables of class 5, IEC 60228 – Screwed-in design for a quick and easy mounting procedure
- Connection Type:
  - Push & Pull** – Offers a safe way for connecting and disconnecting via an ergonomic Push & Pull handle which could be critical in case of emergency.
  - Screw Ring** – Optimized connection 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.
  - Bayonet** – only a ¼ turn for quick and secure connection.
  - Eye-bolt** – a quick and easy way to make a secure connection, very useful in trailing cable applications.

## Plugs & Sockets product overview

| Size             | PC1                                                                               |                                                                                                                                                                                     | PC2                                                                               |                                                                                                                                                                                      | PC4                                                                                 |                                                                                     |
|------------------|-----------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|                  |  |                                                                                                    |  |                                                                                                    |  |  |
| Connection type  | Screw Ring                                                                        | Screw Ring                                                                                                                                                                          | Push & Pull                                                                       | Bayonet                                                                                                                                                                              | Push & Pull                                                                         | Screw Ring                                                                          |
| Model name       | S1                                                                                | S1                                                                                                                                                                                  | X2                                                                                | B2                                                                                                                                                                                   | X4                                                                                  | S4                                                                                  |
| Keying position  | 12                                                                                | 2, 4, 6, 8, 10, 12                                                                                                                                                                  | 2, 3, 4, 5, 6, 7, 8, 9, 10, 12<br>Insulator keying: 1-11                          | Double keying<br>1-11<br>55 options                                                                                                                                                  | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12                                               | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12                                               |
| Accessories      | Wall bracket                                                                      | Wall bracket                                                                                                                                                                        | Low interlocking (PC2-VL)<br>Wall bracket<br>Screw terminals                      |                                                                                                                                                                                      | External FO 6ch<br>Screw terminals                                                  | Short bell                                                                          |
| Certifications   |  | ATEX & IECEx<br>  |  | ATEX & IECEx<br>  |  |  |
| 1-pole           |                                                                                   |                                                                                                                                                                                     | 660A<br>690V<br>300mm <sup>2</sup>                                                | 660A<br>690V<br>300mm <sup>2</sup>                                                                                                                                                   |                                                                                     |                                                                                     |
| 3-pole           |                                                                                   |                                                                                                                                                                                     | 250A<br>690V<br>70mm <sup>2</sup>                                                 | 250A<br>690V<br>70mm <sup>2</sup>                                                                                                                                                    |                                                                                     |                                                                                     |
| 4-pole           |                                                                                   |                                                                                                                                                                                     | 200A<br>690V<br>50mm <sup>2</sup>                                                 | 200A<br>690V<br>50mm <sup>2</sup>                                                                                                                                                    | 250A<br>1,1kV<br>70mm <sup>2</sup>                                                  | 250A<br>1,1kV<br>70mm <sup>2</sup>                                                  |
|                  |                                                                                   |                                                                                                                                                                                     |                                                                                   |                                                                                                                                                                                      |                                                                                     |                                                                                     |
|                  |                                                                                   |                                                                                                                                                                                     |                                                                                   |                                                                                                                                                                                      |                                                                                     |                                                                                     |
| 5-pole           | 30A<br>690V<br>4mm <sup>2</sup>                                                   | 30A<br>690V<br>4mm <sup>2</sup>                                                                                                                                                     | 200A<br>500V<br>50mm <sup>2</sup>                                                 | 200A<br>500V<br>50mm <sup>2</sup>                                                                                                                                                    | 200A<br>1,1kV<br>70mm <sup>2</sup>                                                  | 200A<br>1,1kV<br>70mm <sup>2</sup>                                                  |
| 8-pole           | 10A<br>415V<br>2,5mm <sup>2</sup>                                                 |                                                                                                                                                                                     |                                                                                   |                                                                                                                                                                                      |                                                                                     |                                                                                     |
| 18-pole          |                                                                                   |                                                                                                                                                                                     | 40A<br>500V<br>4mm <sup>2</sup>                                                   | 40A<br>500V<br>4mm <sup>2</sup>                                                                                                                                                      |                                                                                     |                                                                                     |
| 25-pole          |                                                                                   |                                                                                                                                                                                     | 40A<br>50V<br>4mm <sup>2</sup>                                                    | 40A<br>50V<br>4mm <sup>2</sup>                                                                                                                                                       |                                                                                     |                                                                                     |
| 24, 30 & 37-pole |                                                                                   |                                                                                                                                                                                     |                                                                                   |                                                                                                                                                                                      | 40A<br>500V<br>4mm <sup>2</sup>                                                     |                                                                                     |
| 50-pole          |                                                                                   |                                                                                                                                                                                     |                                                                                   |                                                                                                                                                                                      |                                                                                     |                                                                                     |



| PC5                                                                                          |                                                                                   | PC6                                                                                           |                                                                                   | Size                |
|----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|---------------------|
|             |  |              |  |                     |
| Push & Pull                                                                                  | Screw Ring                                                                        | Push & Pull                                                                                   | Screw Ring                                                                        | Connection type     |
| X5                                                                                           | S5                                                                                | X6                                                                                            | S6                                                                                | Model name          |
| 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12                                                        | 1,2,3,4,5,6,7,8<br>9,10,11,12                                                     | 6.12                                                                                          | 6.12                                                                              | Keying position     |
| External FO 18ch<br>Internal FO 8ch<br>Screw terminals<br>Kirk Key interlock<br>Wall bracket | Internal FO 8ch<br>Screw terminals                                                | External FO 18ch<br>Internal FO 12ch<br>Screw terminals<br>Kirk Key interlock<br>Wall bracket |                                                                                   | Accessories         |
|             |  |              |  | Certifications      |
|                                                                                              |                                                                                   |                                                                                               |                                                                                   | 1-pole              |
|                                                                                              |                                                                                   |                                                                                               |                                                                                   | 3-pole              |
| 420A<br>1,1kV<br>185mm <sup>2</sup><br>Internal fiber optic                                  | 420A<br>1,1kV<br>185mm <sup>2</sup><br>Internal fiber optic                       | 660A<br>1,1kV<br>300mm <sup>2</sup><br>Internal fiber optic                                   | 660A<br>1,1kV<br>300mm <sup>2</sup>                                               | 4-pole              |
| 350A<br>7,2kV<br>150mm <sup>2</sup>                                                          | 350A<br>7,2kV<br>150mm <sup>2</sup>                                               | 480A<br>7,2kV<br>185mm <sup>2</sup><br>Internal fiber optic                                   |                                                                                   |                     |
|                                                                                              |                                                                                   | 500A<br>15kV<br>185mm <sup>2</sup>                                                            |                                                                                   |                     |
| 320A<br>1,1kV<br>185mm <sup>2</sup>                                                          | 320A<br>1,1kV<br>185mm <sup>2</sup>                                               | 540A<br>1,1kV<br>300mm <sup>2</sup>                                                           | 660A<br>1,1kV<br>300mm <sup>2</sup>                                               | 5-pole              |
|                                                                                              |                                                                                   |                                                                                               |                                                                                   | 8-pole              |
|                                                                                              |                                                                                   |                                                                                               |                                                                                   | 18-pole             |
|                                                                                              |                                                                                   |                                                                                               |                                                                                   | 25-pole             |
|                                                                                              |                                                                                   |                                                                                               |                                                                                   | 24, 30 &<br>37-pole |
| 40A<br>500V<br>4mm <sup>2</sup>                                                              |                                                                                   |                                                                                               |                                                                                   | 50-pole             |

# PC1

Screw Ring • Size S1 – 690V

## Applications:

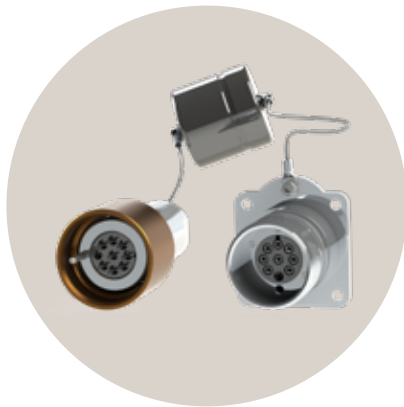
- Oil and gas
- Petro-chemical
- Mining
- Offshore
- Airports



The Cavotec PC1 connector's hard-wiring, quick disconnect features are ideal for top drives, pumps and motors, as well as low current applications such as portable lights, hand tools and signalling.

## Product features

- Maximum voltage 690V, currents up to 30A
- 5 and 8 pole insulator assembly covering cable sizes 1,5mm<sup>2</sup>, 2,5mm<sup>2</sup> and 4mm<sup>2</sup>
- IP66 (when mated or capped – if not, protection with covers secured with a retention wire)
- Plug & socket connection through a bronze screw ring
- Standard finishes: anodized aluminium and bronze
- Pins:
  - High safety standard with pilot pin being shorter than the phase pins ensuring they must be connected to a circuit breaker and touching live pins
  - Interchangeable pins without dismantling the connector
- Easy wiring with male and female insulators fully interchangeable (between plug and socket)
- Cable terminals suit for cables of class 5, IEC 60228
- Cable glands: IP66 and a continuous operating temperature up to +70°C – To be ordered separately (depending on the cable type specification)
- 1 clock option, 12 o'clock (for more options please contact Cavotec)

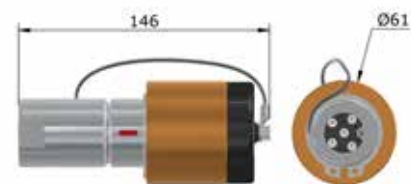


### Special tools

- Socket wrench, NV5 440/5, machined, for multipole/PC1 (PCX-92001-0051)
- Tool for pins (PCX-97003-5020)
- 5mm tool for female contacts, machined for multipole, ¼"DR.5 (PCX-92003-0051)

### Plug/inverted plug, Screw Ring

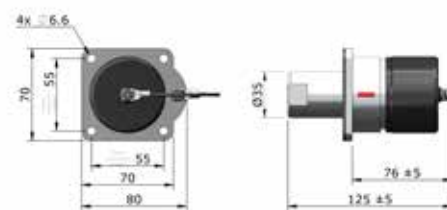
| Nr of Pins | Max voltage (V) | Max current (A) | Incoming cable size | Plug Male pins     | Inverted Plug Female pins |
|------------|-----------------|-----------------|---------------------|--------------------|---------------------------|
| 5 pin      | 690             | 10A             | 1,5mm <sup>2</sup>  | PC1-SS05-0015-001K | PC1-TS05-0015-001K        |
| 5 pin      | 690             | 16A             | 2,5mm <sup>2</sup>  | PC1-SS05-0025-001K | PC1-TS05-0025-001K        |
| 5 pin      | 690             | 30A             | 4mm <sup>2</sup>    | PC1-SS05-0040-001K | PC1-TS05-0040-001K        |
| 8 pin      | 415             | 10A             | 1,5mm <sup>2</sup>  | PC1-SS08-0015-001K | PC1-TS08-0015-001K        |



Dimensions ± 5mm

### Socket/inverted socket

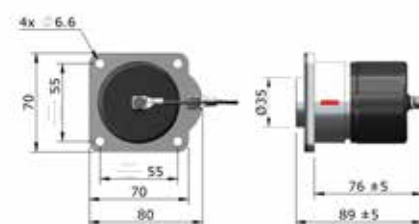
| Nr of Pins | Max voltage (V) | Max current (A) | Incoming cable size | Socket Female pins | Inverted Socket Male pins |
|------------|-----------------|-----------------|---------------------|--------------------|---------------------------|
| 5 pin      | 690             | 10A             | 1,5mm <sup>2</sup>  | PC1-VS05-0015-001K | PC1-WS05-0015-001K        |
| 5 pin      | 690             | 16A             | 2,5mm <sup>2</sup>  | PC1-VS05-0025-001K | PC1-WS05-0025-001K        |
| 5 pin      | 690             | 30A             | 4mm <sup>2</sup>    | PC1-VS05-0040-001K | PC1-WS05-0040-001K        |
| 8 pin      | 415             | 10A             | 1,5mm <sup>2</sup>  | PC1-VS08-0015-001K | PC1-WS08-0015-001K        |



Socket

### Flange Mounted socket/inverted flange mounted socket

| Nr of Pins | Max voltage (V) | Max current (A) | Incoming cable size | Flange mounted socket Female pins | Inverted Flange mounted socket Male pins |
|------------|-----------------|-----------------|---------------------|-----------------------------------|------------------------------------------|
| 5 pin      | 690             | 10A             | 1,5mm <sup>2</sup>  | PC1-VS05-0015-002K                | PC1-WS05-0015-002K                       |
| 5 pin      | 690             | 16A             | 2,5mm <sup>2</sup>  | PC1-VS05-0025-002K                | PC1-WS05-0025-002K                       |
| 5 pin      | 690             | 30A             | 4mm <sup>2</sup>    | PC1-VS05-0040-002K                | PC1-WS05-0040-002K                       |
| 8 pin      | 415             | 10A             | 1,5mm <sup>2</sup>  | PC1-VS08-0015-002K                | PC1-WS08-0015-002K                       |



Flange mounted socket





# PC1-EX

Size S1-EX

## Applications:

- Oil and gas
- Petro-chemical
- Mining
- Offshore
- Airports



The Cavotec PC1-Ex has been specifically designed for use in highly hazardous environments.

## Product features

- Maximum voltage 690V, currents up to 30A
- 5 pole insulator assembly covering cable sizes 1,5mm<sup>2</sup>, 2,5mm<sup>2</sup> and 4mm<sup>2</sup>
- Certifications/Compliances: NEMKO 13ATEX1571; IECEx NEM 14.0009 / EN 60079-0: 2012, EN 60079-1: 2007
- Ex Classification:
  -  I M2 Ex d I Mb, -20°C ≤ Tamb ≤ +60°C
  -  II 2G Ex d IIC T6 Gb, -20°C ≤ Tamb ≤ +60°C
- IP66 (when mated or capped – if not, protection with covers secured with a retention wire)
- Plug & socket connection through the nut, interlocked by the stopper and screw
- Standard finishes: bronze – hardware in stainless steel
- Pins:
  - Female contacts, male pins and cable terminals are made of silver plated brass
  - High safety standard with pilot pin being shorter than the phase pins ensuring they must be connected to a circuit breaker and touching live pins
  - Interchangeable pins without dismantling the connector
- De-energize all circuits before separating
- Easy wiring with male and female insulators fully interchangeable (between plug and socket) made in Grivory HTV-4H1
- Cable terminals suit for cables of class 5, IEC 60228 – Screwed-in design for a quick and easy mounting procedure
- Cable glands: selected with sufficient Ex rating, IP66 and a continuous operating temperature up to +70°C – To be ordered separately (depending on the cable type specification)

## Certification and norms

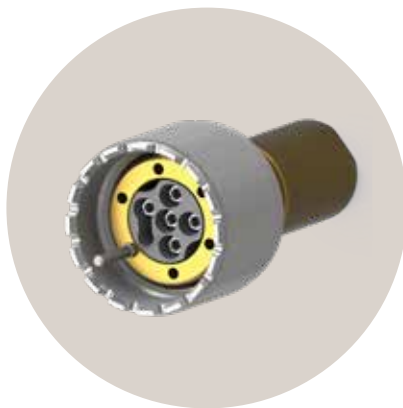
The ATEX/IECEx certification has been made according to ATEX Directive 94/9/EC and IECEx 02, EN 60079-1, IEC 60309-2, and the certifying body is NEMKO of Norway.

The issued certificates are:

- NEMKO 05ATEX4254Q - (Cavotec connectors)
- NEMKO 13ATEX1571 - (PC1 - Ex - S1)
- IECEx NEM 14.0009

• The classification is:

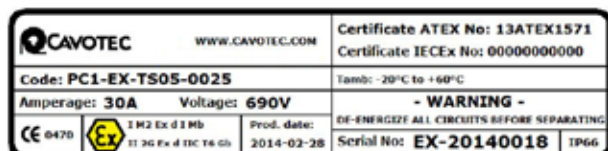
-  I M2 Ex d I Mb, -20°C ≤ Tamb ≤ +60°C
-  II 2G Ex d IIC T6 Gb, -20°C ≤ Tamb ≤ +60°C



## Special tools

- Socket wrench, NV5 440/5, machined, for multipole/PC1 (PCX-92001-0051)
- Tool for pins (PCX-97003-5020)
- 5mm tool for female contacts, machined for multi pole, ¼"DR.5 (PCX-92003-0051)

## Marking plate



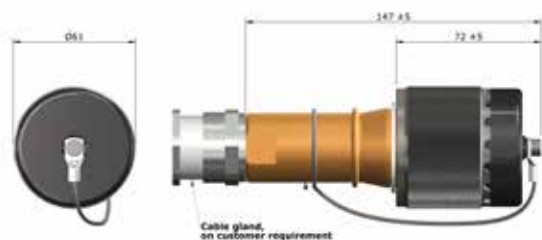
## Plug/inverted plug, Screw Ring

| No Pins<br>(P&E+pil) | Max voltage<br>(AC)<br>Phase | Pin Ø /<br>Max current<br>mm/A | Weigh<br>kg | Cross<br>section   | Current<br>limitations recom-<br>mended CC<br>A | Plug<br>Male Pins<br>Product Code | Inv. Plug: Female<br>Female Contacts<br>Product Code |
|----------------------|------------------------------|--------------------------------|-------------|--------------------|-------------------------------------------------|-----------------------------------|------------------------------------------------------|
| 3ph+N/P+E            | 690                          | 3/30                           | 1           | 1,5mm <sup>2</sup> | 20                                              | PC1-EX-SS05-0015                  | PC1-EX-TS05-0015                                     |
|                      |                              |                                |             | 2,5mm <sup>2</sup> | 30                                              | PC1-EX-SS05-0025                  | PC1-EX-TS05-0025                                     |
|                      |                              |                                |             | 4mm <sup>2</sup>   | 30                                              | PC1-EX-SS05-0040                  | PC1-EX-TS05-0040                                     |

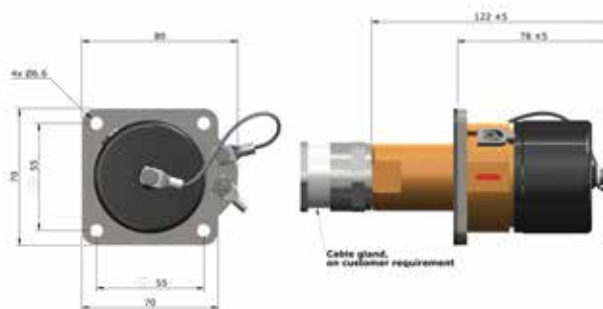
## Socket/inverted socket

| No Pins<br>(P&E+pil) | Max voltage<br>(AC)<br>Phase | Pin Ø /<br>Max current<br>mm/A | Weigh<br>kg | Cross<br>section   | Current<br>limitations recom-<br>mended CC<br>A | Socket<br>Female Contacts<br>Product Code | Inv. Socket: Female<br>Male Pins<br>Product Code |
|----------------------|------------------------------|--------------------------------|-------------|--------------------|-------------------------------------------------|-------------------------------------------|--------------------------------------------------|
| 3ph+N/P+E            | 690                          | 3/30                           | 1.1         | 1,5mm <sup>2</sup> | 20                                              | PC1-EX-VS05-0015                          | PC1-EX-WS05-0015                                 |
|                      |                              |                                |             | 2,5mm <sup>2</sup> | 30                                              | PC1-EX-VS05-0025                          | PC1-EX-WS05-0025                                 |
|                      |                              |                                |             | 4mm <sup>2</sup>   | 30                                              | PC1-EX-VS05-0040                          | PC1-EX-WS05-0040                                 |

## Technical drawings



Overall dimensions of the plug



Overall dimensions of the socket

# PC2

Push & Pull • Size X2 – 690V

## Applications:

- Oil rigs
- Ports
- Steel mills
- Mining and tunnelling
- Railways



The Cavotec PC2-X2 is designed for frequent connection and disconnection, and features Cavotec's Push & Pull system.

## Product features

- Maximum voltage 690V, currents up to 660A (800A)
- Up to 7 pole insulator assembly as standard (see multipin connectors data sheet for more pole) covering cable sizes up to 300mm<sup>2</sup>
- IP66 (when connected or with covers closed)
- Standard ambient temperature: -40°C to +80°C or -40°F to +176°F
- Socket and connector with integrated cover operated by the Push & Pull arms (socket available in straight or 30° inclined version)
- 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
- Easy wiring with male and female insulators fully interchangeable (between plug and socket) made in POM or Grivory HTV-4H1 Max temp. 150°C (250°C short term)
- Interchangeable pins and contacts 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: available in a wide variety of types and sizes (supplied by external manufacturers)

## Optional features

- High temperature version for +80°C - +250°C or +176°F - +482°F
- Insulator material: machined PTFE (Teflon)
- Plug cover: PCX-01612-006
- Wall mounting bracket for connector: PCX-49260-1002
- Individual keying to prevent inserting a plug in the wrong socket
- Cable terminals: screw type with 2 set of screws and cable sleeves
- Finishes: neutral and hard anodizing; blue and red anodizing (colour shades may vary due to anodization process); clear coating or solid colour painting (RAL: Green 6001, Orange 2011, Yellow 1018, Black 9005, Blue 5005, Red 3001, Gray 9002)



## Special tools

| Male pin<br>Dia. 8, 10, 20mm | Female contact<br>Dia. 8, 10, 20mm | Key width | Socket wrench<br>(Part numb.) |
|------------------------------|------------------------------------|-----------|-------------------------------|
| PCX-11008-XXXX               | PCX-12008-XXXX                     | 12/13     | PCX-92102-012                 |
| PCX-11010-XXXX               | PCX-12010-XXXX                     | 14/15     | PCX-92102-0141                |
| PCX-11020-XXXX               | PCX-12020-XXXX                     | 30/32     | PCX-92102-030                 |

## Plug/inverted plug, straight Push & Pull

| No Pins<br>(P&E+pil) | Pin ø (mm)<br>Max. Amp | Weight<br>kg | Cross Section mm² /<br>Rec. Amp | Plug:<br>Male Pins<br>Product Code | Inv.Plug:<br>Female Contacts<br>Product code |
|----------------------|------------------------|--------------|---------------------------------|------------------------------------|----------------------------------------------|
| 1+2                  | 20mm / 800A            | 1,5          | 95mm² / 300A                    | PC2-SX01-0950/XX                   | PC2-TX01-0950/XX                             |
|                      | 20mm / 800A            |              | 120mm² / 350A                   | PC2-SX01-1200/XX                   | PC2-TX01-1200/XX                             |
|                      | 20mm / 800A            |              | 150mm² / 420A                   | PC2-SX01-1500/XX *                 | PC2-TX01-1500/XX *                           |
|                      | 20mm / 800A            |              | 185mm² / 480A                   | PC2-SX01-1850/XX *                 | PC2-TX01-1850/XX *                           |
|                      | 20mm / 800A            |              | 240mm² / 540A                   | PC2-SX01-2400/XX *                 | PC2-TX01-2400/XX *                           |
|                      | 20mm / 800A            |              | 300mm² / 660A                   | PC2-SX01-3000/XX *                 | PC2-TX01-3000/XX *                           |
| 3+3                  | 10mm / 250A            | 1,3          | 35mm² / 160A***                 | PC2-SX03-S350/XX                   | PC2-TX03-S350/XX                             |
|                      | 10mm / 250A            |              | 50mm² / 200A                    | PC2-SX03-0500/XX *                 | PC2-TX03-0500/XX *                           |
|                      | 10mm / 250A            |              | 70mm² / 250A                    | PC2-SX03-0700/XX                   | PC2-TX03-0700/XX                             |
| 4+2                  | 8mm / 200A             | 1,4          | 25mm² / 125A***                 | PC2-SX04-0250/XX                   | PC2-TX04-0250/XX                             |
|                      | 8mm / 200A             |              | 35mm² / 160A                    | PC2-SX04-0350/XX                   | PC2-TX04-0350/XX                             |
|                      | 8mm / 200A             |              | 50mm² / 200A                    | PC2-SX04-0500/XX *                 | PC2-TX04-0500/XX *                           |
| 5+2**                | 8mm / 200A             | 1,5          | 25mm² / 125***                  | PC2-SX05-0250/XX                   | PC2-TX05-0250/XX                             |
|                      | 8mm / 200A             |              | 35mm² / 160A                    | PC2-SX05-0350/XX                   | PC2-TX05-0350/XX                             |
|                      | 8mm / 200A             |              | 50mm² / 200A                    | PC2-SX05-0500/XX *                 | PC2-TX05-0500/XX *                           |



Dimensions ± 5mm

## Connector/inverted connector straight Push & Pull

| No Pins<br>(P&E+pil) | Pin ø (mm)<br>Max. Amp | Weight<br>kg | Cross Section mm² /<br>Rec. Amp | Connector:<br>Female Contacts<br>Product Code | Inv.Connector:<br>Male Pins<br>Product Code |
|----------------------|------------------------|--------------|---------------------------------|-----------------------------------------------|---------------------------------------------|
| 1+2                  | 20mm / 800A            | 1,5          | 95mm² / 300A                    | PC2-RX01-0950/XX                              | PC2-PX01-0950/XX                            |
|                      | 20mm / 800A            |              | 120mm² / 350A                   | PC2-RX01-1200/XX                              | PC2-PX01-1200/XX                            |
|                      | 20mm / 800A            |              | 150mm² / 420A                   | PC2-RX01-1500/XX *                            | PC2-PX01-1500/XX *                          |
|                      | 20mm / 800A            |              | 185mm² / 480A                   | PC2-RX01-1850/XX *                            | PC2-PX01-1850/XX *                          |
|                      | 20mm / 800A            |              | 240mm² / 540A                   | PC2-RX01-2400/XX *                            | PC2-PX01-2400/XX *                          |
|                      | 20mm / 800A            |              | 300mm² / 660A                   | PC2-RX01-3000/XX *                            | PC2-PX01-3000/XX *                          |
| 3+3                  | 10mm / 250A            | 2,4          | 35mm² / 160A***                 | PC2-RX03-0350/XX                              | PC2-PX03-0350/XX                            |
|                      | 10mm / 250A            |              | 50mm² / 200A                    | PC2-RX03-0500/XX *                            | PC2-PX03-0500/XX *                          |
|                      | 10mm / 250A            |              | 70mm² / 250A                    | PC2-RX03-0700/XX                              | PC2-PX03-0700/XX                            |
| 4+2                  | 8mm / 200A             | 2,5          | 25mm² / 125A***                 | PC2-RX04-0250/XX                              | PC2-PX04-0250/XX                            |
|                      | 8mm / 200A             |              | 35mm² / 160A                    | PC2-RX04-0350/XX                              | PC2-PX04-0350/XX                            |
|                      | 8mm / 200A             |              | 50mm² / 200A                    | PC2-RX04-0500/XX *                            | PC2-PX04-0500/XX *                          |
| 5+2**                | 8mm / 200A             | 1,5          | 25mm² / 125A***                 | PC2-RX05-0250/XX                              | PC2-PX05-0250/XX                            |
|                      | 8mm / 200A             |              | 35mm² / 160A                    | PC2-RX05-0350/XX                              | PC2-PX05-0350/XX                            |
|                      | 8mm / 200A             |              | 50mm² / 200A                    | PC2-RX05-0500/XX *                            | PC2-PX05-0500/XX *                          |



\* Dimension varies according to cable gland  
Dimensions ± 5mm

\* Screw type cable not available; \*\* Max nominal voltage 500VAC

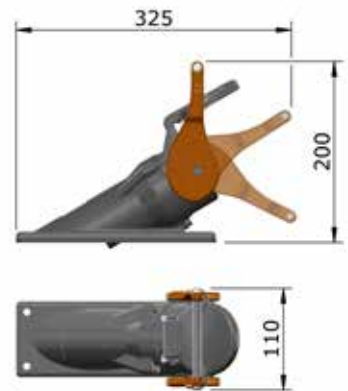
\*\*\* For smaller sizes, please contact your local Cavotec sales office

XX Additional product code depending on type of cable glands, keying or anodizing.



### Socket/inverted socket 30° Push & Pull

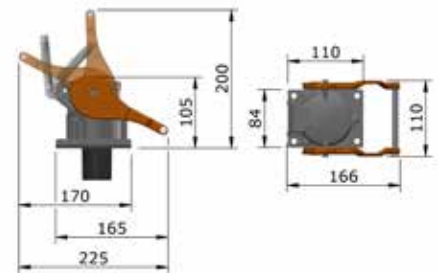
| No Pins<br>(P&E+pil) | Pin ø (mm)<br>Max. Amp | Weight<br>kg | Cross Section mm² /<br>Rec. Amp | Socket:<br>Female Contacts<br>Product Code | Inv. Socket:<br>Male Pins<br>Product Code |
|----------------------|------------------------|--------------|---------------------------------|--------------------------------------------|-------------------------------------------|
| 1+2                  | 20mm / 800A            | 2,4          | 95mm² / 300A                    | PC2-VX01-0950                              | PC2-WX01-0950                             |
|                      | 20mm / 800A            |              | 120mm² / 350A                   | PC2-VX01-1200                              | PC2-WX01-1200                             |
|                      | 20mm / 800A            |              | 150mm² / 420A                   | PC2-VX01-1500 *                            | PC2-WX01-1500 *                           |
|                      | 20mm / 800A            |              | 185mm² / 480A                   | PC2-VX01-1850 *                            | PC2-WX01-1850 *                           |
|                      | 20mm / 800A            |              | 240mm² / 540A                   | PC2-VX01-2400 *                            | PC2-WX01-2400 *                           |
|                      | 20mm / 800A            |              | 300mm² / 660A                   | PC2-VX01-3000 *                            | PC2-WX01-3000 *                           |
| 3+3                  | 10mm / 250A            | 2,4          | 35mm² / 160A                    | PC2-VX03-0350                              | PC2-WX03-0350                             |
|                      | 10mm / 250A            |              | 50mm² / 200A                    | PC2-VX03-0500                              | PC2-WX03-0500                             |
|                      | 10mm / 250A            |              | 70mm² / 250A                    | PC2-VX03-0700 *                            | PC2-WX03-0700 *                           |
| 4+2                  | 8mm / 200A             | 2,5          | 25mm² / 125A***                 | PC2-VX04-0250                              | PC2-WX04-0250                             |
|                      | 8mm / 200A             |              | 35mm² / 160A                    | PC2-VX04-0350                              | PC2-WX04-0350                             |
|                      | 8mm / 200A             |              | 50mm² / 200A                    | PC2-VX04-0500 *                            | PC2-WX04-0500 *                           |
| 5+2**                | 8mm / 200A             | 2,6          | 25mm² / 125A***                 | PC2-VX05-0250                              | PC2-WX05-0250                             |
|                      | 8mm / 200A             |              | 35mm² / 160A                    | PC2-VX05-0350                              | PC2-WX05-0350                             |
|                      | 8mm / 200A             |              | 50mm² / 200A                    | PC2-VX05-0500 *                            | PC2-WX05-0500 *                           |



Dimensions ± 5mm

### Socket/inverted socket, 90° Push & Pull

| No Pins<br>(P&E+pil) | Pin ø (mm)<br>Max. Amp | Weight<br>kg | Cross Section mm² /<br>Rec. Amp | Socket:<br>Female Contacts<br>Product Code | Inv. Socket:<br>Male Pins<br>Product Code |
|----------------------|------------------------|--------------|---------------------------------|--------------------------------------------|-------------------------------------------|
| 1+2                  | 20mm / 800A            | 2            | 95mm² / 300A                    | PC2-VX01-0950R                             | PC2-WX01-0950R                            |
|                      | 20mm / 800A            |              | 120mm² / 350A                   | PC2-VX01-1200R                             | PC2-WX01-1200R                            |
|                      | 20mm / 800A            |              | 150mm² / 420A                   | PC2-VX01-1500R *                           | PC2-WX01-1500R *                          |
|                      | 20mm / 800A            |              | 185mm² / 480A                   | PC2-VX01-1850R *                           | PC2-WX01-1850R *                          |
|                      | 20mm / 800A            |              | 240mm² / 540A                   | PC2-VX01-2400R *                           | PC2-WX01-2400R *                          |
|                      | 20mm / 800A            |              | 300mm² / 660A                   | PC2-VX01-3000R *                           | PC2-WX01-3000R *                          |
| 3+3                  | 10mm / 250A            | 2            | 35mm² / 160A***                 | PC2-VX03-0350R                             | PC2-WX03-0350R                            |
|                      | 10mm / 250A            |              | 50mm² / 200A                    | PC2-VX03-0500R *                           | PC2-WX03-0500R *                          |
|                      | 10mm / 250A            |              | 70mm² / 250A                    | PC2-VX03-0700R                             | PC2-WX03-0700R                            |
| 4+2                  | 8mm / 200A             | 2,1          | 25mm² / 125A***                 | PC2-VX04-0250R                             | PC2-WX04-0250R                            |
|                      | 8mm / 200A             |              | 35mm² / 160A                    | PC2-VX04-0350R                             | PC2-WX04-0350R                            |
|                      | 8mm / 200A             |              | 50mm² / 200A                    | PC2-VX04-0500R *                           | PC2-WX04-0500R *                          |
| 5+2**                | 8mm / 200A             | 2,6          | 25mm² / 125A***                 | PC2-VX05-0250R                             | PC2-WX05-0250R                            |
|                      | 8mm / 200A             |              | 35mm² / 160A                    | PC2-VX05-0350R                             | PC2-WX05-0350R                            |
|                      | 8mm / 200A             |              | 50mm² / 200A                    | PC2-VX05-0500R                             | PC2-WX05-0500R                            |



Dimensions ± 5mm

\* Screw type cable not available; \*\* Max nominal voltage 500VAC

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

XX Additional product code depending on type of cable glands, keying or anodizing.

### Socket/inverted socket stainless steel arm 30°

| No Pins<br>(P&E+pil) | Pin ø (mm)<br>Max. Amp | Weight<br>kg | Cross Section mm² /<br>Rec. Amp | Socket:<br>Female Contacts<br>Product Code | Inv. Socket:<br>Male Pins<br>Product Code |
|----------------------|------------------------|--------------|---------------------------------|--------------------------------------------|-------------------------------------------|
| 1+2                  | 20mm / 800A            | 2,2          | 95mm² / 300A                    | PC2-VL01-0950                              | PC2-WL01-0950                             |
|                      | 20mm / 800A            |              | 120mm² / 350A                   | PC2-VL01-1200                              | PC2-WL01-1200                             |
|                      | 20mm / 800A            |              | 150mm² / 420A                   | PC2-VL01-1500*                             | PC2-WL01-1500*                            |
|                      | 20mm / 800A            |              | 185mm² / 480A                   | PC2-VL01-1850*                             | PC2-WL01-1850*                            |
|                      | 20mm / 800A            |              | 240mm² / 540A                   | PC2-VL01-2400*                             | PC2-WL01-2400*                            |
|                      | 20mm / 800A            |              | 300mm² / 660A                   | PC2-VL01-3000*                             | PC2-WL01-3000*                            |
| 3+3                  | 10mm / 250A            | 2,4          | 35mm² / 160A***                 | PC2-VL03-0350                              | PC2-WL03-0350                             |
|                      | 10mm / 250A            |              | 50mm² / 200A                    | PC2-VL03-0500                              | PC2-WL03-0500                             |
|                      | 10mm / 250A            |              | 70mm² / 250A                    | PC2-VL03-0700 *                            | PC2-WL03-0700 *                           |
| 4+2                  | 8mm / 200A             | 2,5          | 25mm² / 125A***                 | PC2-VL04-0250                              | PC2-WL04-0250                             |
|                      | 8mm / 200A             |              | 35mm² / 160A                    | PC2-VL04-0350                              | PC2-WL04-0350                             |
|                      | 8mm / 200A             |              | 50mm² / 200A                    | PC2-VL04-0500 *                            | PC2-WL04-0500 *                           |
| 5+2**                | 8mm / 200A             | 2,6          | 25mm² / 125A***                 | PC2-VL05-0250                              | PC2-WL05-0250                             |
|                      | 8mm / 200A             |              | 35mm² / 160A                    | PC2-VL05-0350                              | PC2-WL05-0350                             |
|                      | 8mm / 200A             |              | 50mm² / 200A                    | PC2-VL05-0500 *                            | PC2-WL05-0500 *                           |



Dimensions ± 5mm

### Socket/inverted socket stainless steel arm 90°

| No Pins<br>(P&E+pil) | Pin ø (mm)<br>Max. Amp | Weight<br>kg | Cross Section mm² /<br>Rec. Amp | Socket:<br>Female Contacts<br>Product Code | Inv. Socket:<br>Male Pins<br>Product Code |
|----------------------|------------------------|--------------|---------------------------------|--------------------------------------------|-------------------------------------------|
| 1+2                  | 20mm / 800A            | 1,8          | 95mm² / 300A                    | PC2-VL01-0950R                             | PC2-WL01-0950R                            |
|                      | 20mm / 800A            |              | 120mm² / 350A                   | PC2-VL01-1200R                             | PC2-WL01-1200R                            |
|                      | 20mm / 800A            |              | 150mm² / 420A                   | PC2-VL01-1500R *                           | PC2-WL01-1500R *                          |
|                      | 20mm / 800A            |              | 185mm² / 480A                   | PC2-VL01-1850R *                           | PC2-WL01-1850R *                          |
|                      | 20mm / 800A            |              | 240mm² / 540A                   | PC2-VL01-2400R *                           | PC2-WL01-2400R *                          |
|                      | 20mm / 800A            |              | 300mm² / 660A                   | PC2-VL01-3000R *                           | PC2-WL01-3000R *                          |
| 3+3                  | 10mm / 250A            | 2            | 35mm² / 160A***                 | PC2-VL03-0350R                             | PC2-WL03-0350R                            |
|                      | 10mm / 250A            |              | 50mm² / 200A                    | PC2-VL03-0500R *                           | PC2-WL03-0500R *                          |
|                      | 10mm / 250A            |              | 70mm² / 250A                    | PC2-VL03-0700R                             | PC2-WL03-0700R                            |
| 4+2                  | 8mm / 200A             | 2,1          | 25mm² / 125A***                 | PC2-VL04-0250R                             | PC2-WL04-0250R                            |
|                      | 8mm / 200A             |              | 35mm² / 160A                    | PC2-VL04-0350R                             | PC2-WL04-0350R                            |
|                      | 8mm / 200A             |              | 50mm² / 200A                    | PC2-VL04-0500R *                           | PC2-WL04-0500R *                          |
| 5+2**                | 8mm / 200A             | 2,6          | 25mm² / 125A***                 | PC2-VL05-0250R                             | PC2-WL05-0250R                            |
|                      | 8mm / 200A             |              | 35mm² / 160A                    | PC2-VL05-0350R                             | PC2-WL05-0350R                            |
|                      | 8mm / 200A             |              | 50mm² / 200A                    | PC2-VL05-0500R *                           | PC2-WL05-0500R *                          |



Dimensions ± 5mm

### Cable gland

| Metric<br>Cable Glands | Cable outer<br>Ø (mm) | PG<br>Cable Glands | Cable outer<br>Ø (mm) |
|------------------------|-----------------------|--------------------|-----------------------|
| M12 x1,5               | 3.0-6.5               | 11                 | 5-10                  |
| M16 x1,5               | 5.0-10.0              | 13,5               | 6-12                  |
| M20 x1,5               | 6.0-12.0              | 16                 | 10-14                 |
| M25 x1,5               | 11.0-17.0             | 21                 | 13-18                 |
| M32 x1,5               | 15.0-21.0             | 29                 | 18-25                 |
| M40 x1,5               | 19.0-28.0             | 36                 | 22-32                 |
| M50 x1,5               | 28.0-38.0             | 42                 | 32-38                 |
| M63 x1,5               | 34.0-44.0             | 48                 | 37-44                 |

\* Screw type cable not available; \*\* Max nominal voltage 500VAC

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

XX Additional product code depending on type of cable glands, keying or anodizing.



# PC2-EX

Size B2-EX

## Applications:

- Oil and gas
- Petro-chemical
- Offshore
- Airports



The Cavotec PC2-Ex provides safe and easy power supply in the harshest of environments.

## Product features

- Maximum voltage 690V, currents up to 660A
- Up to 25 pole insulator assembly covering cable size from 1,5mm<sup>2</sup> and up to 300mm<sup>2</sup>
- Certifications/Compliances: NEMKO 07ATEX1268X / EN 60079-0 :2011, IECEx NEM 14.0011X, EN 60079-1 :2007
- Ex Classification:
  -  II 2G Ex d IIB T3 Gb, - 40°C ≤ Tamb ≤ +60°C
- IP66 (when mated or capped – if not, protection with covers secured with a retention wire)
- Plug & socket connection with a ¼ turn bayonet ring and a set screw to secure the bayonet ring from loosening
- Standard finishes: marine grade aluminium ISO 3522 - Hardware in stainless steel – For extreme conditions, the body can be anodized and painted (e.g. offshore oil rigs)
- Pins:
  - Female contacts, male pins and cable terminals are made of silver plated brass
  - High safety standard with pilot pin being shorter than the phase pins ensuring they must be connected to a circuit breaker and touching live pins (except for multi pin)
  - Interchangeable pins without dismantling the connector
- De-energize all circuits before separating
- Easy wiring with male and female insulators fully interchangeable (between plug and socket) made in POM or Grivory HTV-4H1
- Cable terminals suit for cables of class 5, IEC 60228 – Screwed-in design for a quick and easy mounting procedure
- Cable glands: selected with sufficient Ex rating, IP66 and a continuous operating temperature up to +115°C – must be mounted on the plug and socket and chosen carefully (depending on the cable type specification)
- An extra M16 cable gland for a pilot pin cable can be mounted on the socket

## Certification and norms

The ATEX/IECEx certification has been made according to ATEX Directive 94/9/EC and IECEx 02, IEC 60079-1:2007, EN 60079-0:2011, and the certifying body is NEMKO of Norway. The issued certificates are:

- NEMKO 05ATEX4254Q - (Cavotec connectors)
- NEMKO 07ATEX1268X - (PC2 - Ex - B2)
- IECEx NEM 14.0011X
- The classification is:



II 2G Ex d IIB T3 Gb, - 40°C ≤ Tamb ≤ +60°C

## Optional features

- Finishes: neutral and hard anodizing; blue and red anodizing (colour shades may vary due to anodization process); clear coating or solid colour painting (RAL: Green 6001, Orange 2011, Yellow 1018, Black 9005, Blue 5005, Red 3001, Gray 9002)



### Plug/inverted plug straight bayonet fit

| No Pins<br>(P&E+pil) | Max voltage<br>(AC) | Pin Ø (mm)<br>Max Amp | Weight kg | Cross Section / mm <sup>2</sup> | Recommended<br>Amperage | Plug:<br>Male Pins<br>Product Code | Inv.plug:<br>Female Contacts<br>Product Code |
|----------------------|---------------------|-----------------------|-----------|---------------------------------|-------------------------|------------------------------------|----------------------------------------------|
| 1+2                  | 690/230             | 20/800                | 2.3       | 95                              | 300                     | PC2-EX-SB01-0950/XX                | PC2-EX-TB01-0950/XX                          |
|                      |                     |                       |           | 120                             | 350                     | PC2-EX-SB01-1200/XX                | PC2-EX-TB01-1200/XX                          |
|                      |                     |                       |           | 150                             | 420                     | PC2-EX-SB01-1500/XX                | PC2-EX-TB01-1500/XX                          |
|                      |                     |                       |           | 185                             | 480                     | PC2-EX-SB01-1850/XX                | PC2-EX-TB01-1850/XX                          |
|                      |                     |                       |           | 240                             | 540                     | PC2-EX-SB01-2400/XX                | PC2-EX-TB01-2400/XX                          |
|                      |                     |                       |           | 300                             | 660                     | PC2-EX-SB01-3000/XX                | PC2-EX-TB01-3000/XX                          |
| 4+2                  | 690/230             | 8/200                 | 2.2       | 10                              | 80                      | PC2-EX-SB04-0100/XX                | PC2-EX-TB04-0100/XX                          |
|                      |                     |                       |           | 16                              | 100                     | PC2-EX-SB04-0160/XX                | PC2-EX-TB04-0160/XX                          |
|                      |                     |                       |           | 25                              | 125                     | PC2-EX-SB04-0250/XX                | PC2-EX-TB04-0250/XX                          |
|                      |                     |                       |           | 35                              | 160                     | PC2-EX-SB04-0350/XX                | PC2-EX-TB04-0350/XX                          |
|                      |                     |                       |           | 50*                             | 200                     | PC2-EX-SB04-0500/XX                | PC2-EX-TB04-0500/XX                          |
|                      |                     |                       |           | 70 (Earth 50 mm <sup>2</sup> )  | 200                     | PC2-EX-SB04-0701/XX                | PC2-EX-TB04-0701/XX                          |
| 5+2                  | 500/230             | 8/200                 | 2.2       | 10                              | 80                      | PC2-EX-SB05-0100/XX                | PC2-EX-TB05-0100/XX                          |
|                      |                     |                       |           | 16                              | 100                     | PC2-EX-SB05-0160/XX                | PC2-EX-TB05-0160/XX                          |
|                      |                     |                       |           | 25                              | 125                     | PC2-EX-SB05-0250/XX                | PC2-EX-TB05-0250/XX                          |
|                      |                     |                       |           | 35*                             | 160                     | PC2-EX-SB05-0350/XX                | PC2-EX-TB05-0350/XX                          |
|                      |                     |                       |           | 50*                             | 200                     | PC2-EX-SB05-0500/XX                | PC2-EX-TB05-0500/XX                          |
| 18                   | 500                 | 3/40                  | 2.2       | 1.5                             | 20                      | PC2-EX-SB18-0015/XX                | PC2-EX-TB18-0015/XX                          |
|                      |                     |                       |           | 2.5                             | 30                      | PC2-EX-SB18-0025/XX                | PC2-EX-TB18-0025/XX                          |
|                      |                     |                       |           | 4                               | 40                      | PC2-EX-SB18-0040/XX                | PC2-EX-TB18-0040/XX                          |
| 25                   | 50                  | 3/40                  | 2.2       | 1.5                             | 20                      | PC2-EX-SB25-0015/XX                | PC2-EX-TB25-0015/XX                          |
|                      |                     |                       |           | 2.5                             | 30                      | PC2-EX-SB25-0025/XX                | PC2-EX-TB25-0025/XX                          |

XX Additional product code depending on type of cable glands, keying or anodizing.

\* Screw type cable terminal not available

\*\* Available only with screw terminal

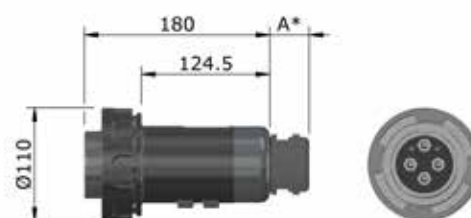
### Ex cable gland

| Size | Cable Range Øy (mm) |
|------|---------------------|
|      | Typical             |
| M20s | 9,5 - 15,9          |
| M20  | 12,5 - 20,9         |
| M25s | 14,0 - 22,0         |
| M25  | 18,2 - 26,2         |
| M32  | 23,7 - 33,9         |
| M40  | 27,9 - 40,4         |
| M50s | 35,2 - 46,7         |
| M50  | 40,4 - 53,1         |
| M63s | 45,6 - 59,4         |

Typical used cable glands; can be changed without further notice.



**Plug/inverted plug**



\* Dimension A varies according to cable gland  
Dimensions ± 5mm



**Connector/inverted connector**



\* Dimension A varies according to cable gland  
Dimensions ± 5mm



# PC4

Push & Pull • Size X4 – 1.1kV

## Applications:

- Ports
- Steel mills
- Mining and tunnelling
- Energy
- Railways



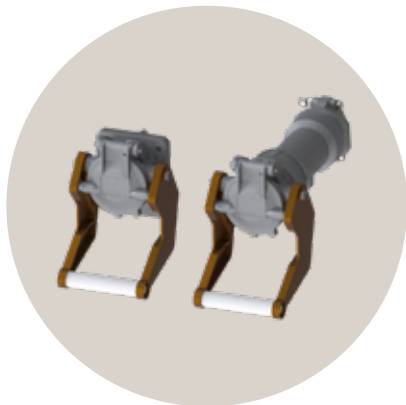
Featuring Cavotec's Push & Pull system, the PC4-X4 is designed for safe and frequent connection and disconnection.

## 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 connected or with covers closed)
- Standard ambient temperature: -40°C to +80°C or -40°F to +176°F
- Plug & socket connection with integrated cover operated by the Push & Pull arms (plug available in straight or bent version)
- 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
- 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)
- Plug cover: PCX-01614-006
- External fiber optic plug and socket
- Wall mounting bracket for connector: PCX-49455-2204
- Wide variety of other insulator configurations available in machined POM (Polyoxymethylene)
- Cable terminals: screw type with 2 set of screws and cable sleeves
- Finishes: neutral and hard anodizing; blue and red anodizing (colour shades may vary due to anodization process); clear coating or solid colour painting (RAL: Green 6001, Orange 2011, Yellow 1018, Black 9005, Blue 5005, Red 3001, Gray 9002)
- Mechanical interlock and additional pilot pins



## Special tools

| Male pin<br>Dia. 8, 10mm | Female contact<br>Dia. 8, 10mm | Key width | Socket wrench<br>(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, bent Push & Pull

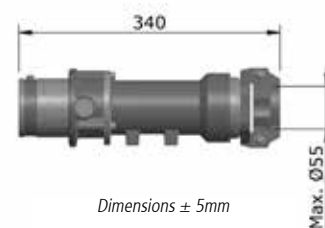
| No pins<br>(P&E+pil) | Pin ø (mm)<br>Max Amp | Weight<br>kg | Cross section<br>mm² / Rec. Amp | Plug: Male Pins<br>Product Code | Inv. Plug:<br>Female Contacts<br>Product code |
|----------------------|-----------------------|--------------|---------------------------------|---------------------------------|-----------------------------------------------|
| 4 + 2                | 10mm / 250A           | 1,9          | 35mm² / 160A**                  | PC4-SX04-0350                   | PC4-TX04-0350                                 |
|                      |                       |              | 50mm² / 200A                    | PC4-SX04-0500                   | PC4-TX04-0500                                 |
|                      |                       |              | 70mm² / 250A                    | PC4-SX04-0700                   | PC4-TX04-0700                                 |
| 5 + 2                | 8mm / 200A            | 1,9          | 25mm² / 125A**                  | PC4-SX05-0250                   | PC4-TX05-0250                                 |
|                      |                       |              | 35mm² / 160A                    | PC4-SX05-0350                   | PC4-TX05-0350                                 |
|                      |                       |              | 50mm² / 200A                    | PC4-SX05-0500                   | PC4-TX05-0500                                 |
|                      |                       |              | 70mm² / 200A                    | PC4-SX05-0700*                  | PC4-TX05-0700*                                |



Dimensions ± 5mm

## Plug/inverted plug, straight Push & Pull

| No pins<br>(P&E+pil) | Pin ø (mm)<br>Max Amp | Weight<br>kg | Cross section<br>mm² / Rec. Amp | Plug: Male Pins<br>Product Code | Inv. Plug:<br>Female Contacts<br>Product code |
|----------------------|-----------------------|--------------|---------------------------------|---------------------------------|-----------------------------------------------|
| 4 + 2                | 10mm / 250A           | 1,8          | 35mm² / 160A**                  | PC4-SX04-0350R                  | PC4-TX04-0350R                                |
|                      |                       |              | 50mm² / 200A                    | PC4-SX04-0500R                  | PC4-TX04-0500R                                |
|                      |                       |              | 70mm² / 250A                    | PC4-SX04-0700R                  | PC4-TX04-0700R                                |
| 5 + 2                | 8mm / 200A            | 1,8          | 25mm² / 125A**                  | PC4-SX05-0250R                  | PC4-TX05-0250R                                |
|                      |                       |              | 35mm² / 160A                    | PC4-SX05-0350R                  | PC4-TX05-0350R                                |
|                      |                       |              | 50mm² / 200A                    | PC4-SX05-0500R                  | PC4-TX05-0500R                                |
|                      |                       |              | 70mm² / 200A                    | PC4-SX05-0700R*                 | PC4-TX05-0700R*                               |



Dimensions ± 5mm

## Connector/inverted connector Push & Pull

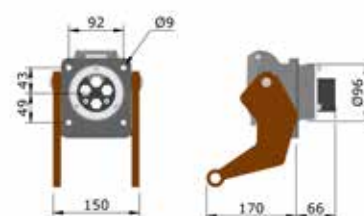
| No pins<br>(P&E+pil) | Pin ø (mm)<br>Max. Amp | Weight<br>kg | Cross section<br>mm² / Rec. Amp | Connector:<br>Female Contacts<br>Product code | Inv. connector:<br>Male Pins<br>Product Code |
|----------------------|------------------------|--------------|---------------------------------|-----------------------------------------------|----------------------------------------------|
| 4 + 2                | 10mm / 250A            | 4,8          | 35mm² / 160A**                  | PC4-RX04-0350                                 | PC4-PX04-0350                                |
|                      |                        |              | 50mm² / 200A                    | PC4-RX04-0500                                 | PC4-PX04-0500                                |
|                      |                        |              | 70mm² / 250A                    | PC4-RX04-0700                                 | PC4-PX04-0700                                |
| 5 + 2                | 8mm / 200A             | 4,8          | 25mm² / 125A**                  | PC4-RX05-0250                                 | PC4-PX05-0250                                |
|                      |                        |              | 35mm² / 160A                    | PC4-RX05-0350                                 | PC4-PX05-0350                                |
|                      |                        |              | 50mm² / 200A                    | PC4-RX05-0500                                 | PC4-PX05-0500                                |
|                      |                        |              | 70mm² / 200A                    | PC4-RX05-0700*                                | PC4-PX05-0700*                               |



Dimensions ± 5mm

## Socket/inverted socket Push & Pull

| No pins<br>(P&E+pil) | Pin ø (mm)<br>Max. Amp | Weight<br>kg | Cross section mm² /<br>Rec. Amp | Socket:<br>Female Contacts<br>Product code | Socket:<br>Male Contacts<br>Product code |
|----------------------|------------------------|--------------|---------------------------------|--------------------------------------------|------------------------------------------|
| 4 + 2                | 10mm / 250A            | 3,5          | 35mm² / 160A**                  | PC4-VX04-0350                              | PC4-WX04-0350                            |
|                      |                        |              | 50mm² / 200A                    | PC4-VX04-0500                              | PC4-WX04-0500                            |
|                      |                        |              | 70mm² / 250A                    | PC4-VX04-0700                              | PC4-WX04-0700                            |
| 5 + 2                | 8mm / 200A             | 3,5          | 25mm² / 125A**                  | PC4-VX05-0250                              | PC4-WX05-0250                            |
|                      |                        |              | 35mm² / 160A                    | PC4-VX05-0350                              | PC4-WX05-0350                            |
|                      |                        |              | 50mm² / 200A                    | PC4-VX05-0500                              | PC4-WX05-0500                            |
|                      |                        |              | 70mm² / 200A                    | PC4-VX05-0700*                             | PC4-WX05-0700*                           |



Dimensions ± 5mm

\* Screw type cable terminal not available

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

# PC4

Screw ring • Size S4 – 1.1kV

## Applications:

- Ports
- Steel mills
- Mining and tunnelling
- Energy
- Railways



The Cavotec PC4-S4 is fitted with a screw ring connection that ensures safe and easy connection in applications where space is limited.

## 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: neutral and hard anodizing; blue and red anodizing (colour shades may vary due to anodization process); clear coating or solid colour painting (RAL: Green 6001, Orange 2011, Yellow 1018, Black 9005, Blue 5005, Red 3001, Gray 9002)
- Housings available in bronze
- Additional pilot pins



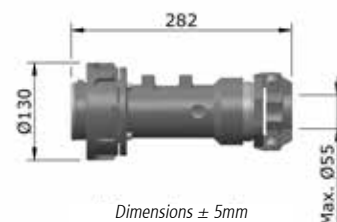
## Special tools

Spanner tool for screw ring PCX-92120-130

| Male pin<br>Dia. 8, 10mm | Female contact<br>Dia. 8, 10mm | Key width | Socket wrench<br>(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<br>(P&E+pil) | Pin ø (mm)<br>Max. Amp | Weight<br>kg | Cross Section mm² /<br>Rec. Amp | Plug: Male Pins<br>Product Code | Inv.plugin:<br>Female Contacts<br>Product Code |
|----------------------|------------------------|--------------|---------------------------------|---------------------------------|------------------------------------------------|
| 4+2                  | 10mm / 250A            | 2,4          | 35mm² / 160A**                  | PC4-SS04-0350                   | PC4-TS04-0350                                  |
|                      |                        |              | 50mm² / 200A                    | PC4-SS04-0500                   | PC4-TS04-0500                                  |
|                      |                        |              | 70mm² / 250A                    | PC4-SS04-0700                   | PC4-TS04-0700                                  |
| 5+2                  | 8mm / 200A             | 2,4          | 25mm² / 125A**                  | PC4-SS05-0250                   | PC4-TS05-0250                                  |
|                      |                        |              | 35mm² / 160A                    | PC4-SS05-0350                   | PC4-TS05-0350                                  |
|                      |                        |              | 50mm² / 200A                    | PC4-SS05-0500                   | PC4-TS05-0500                                  |
|                      |                        |              | 70mm² / 200A                    | PC4-SS05-0700*                  | PC4-TS05-0700*                                 |



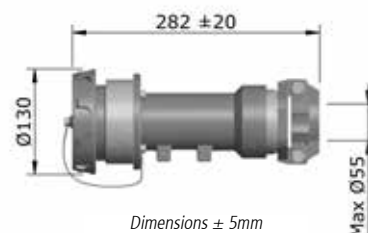
## Plug/inverted plug, bent Screw Ring

| No Pins<br>(P&E+pil) | Pin ø (mm) Max.<br>Amp | Weight<br>kg | Cross Section mm² /<br>Rec. Amp | Plug: Male Pins<br>Product Code | Inv.plugin:<br>Female Contacts<br>Product Code |
|----------------------|------------------------|--------------|---------------------------------|---------------------------------|------------------------------------------------|
| 4+2                  | 10mm / 250A            | 2,5          | 35mm² / 160A**                  | PC4-SS04-0350B                  | PC4-TS04-0350B                                 |
|                      |                        |              | 50mm² / 200A                    | PC4-SS04-0500B                  | PC4-TS04-0500B                                 |
|                      |                        |              | 70mm² / 250A                    | PC4-SS04-0700B                  | PC4-TS04-0700B                                 |
| 5+2                  | 8mm / 200A             | 2,5          | 25mm² / 125A**                  | PC4-SS05-0250B                  | PC4-TS05-0250B                                 |
|                      |                        |              | 35mm² / 160A                    | PC4-SS05-0350B                  | PC4-TS05-0350B                                 |
|                      |                        |              | 50mm² / 200A                    | PC4-SS05-0500B                  | PC4-TS05-0500B                                 |
|                      |                        |              | 70mm² / 200A                    | PC4-SS05-0700B*                 | PC4-TS05-0700B*                                |



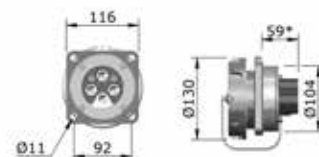
## Connector/inverted connector, straight Screw Ring

| No Pins<br>(P&E+pil) | Pin ø (mm) Max.<br>Amp | Weight<br>kg | Cross Section mm² /<br>Rec. Amp | Connector:<br>Female Contacts<br>Product Code | Inv.connector: Male<br>Pins<br>Product Code |
|----------------------|------------------------|--------------|---------------------------------|-----------------------------------------------|---------------------------------------------|
| 4+2                  | 10mm / 250A            | 2,7          | 35mm² / 160A**                  | PC4-RS04-0350                                 | PC4-PS04-0350                               |
|                      |                        |              | 50mm² / 200A                    | PC4-RS04-0500                                 | PC4-PS04-0500                               |
|                      |                        |              | 70mm² / 250A                    | PC4-RS04-0700                                 | PC4-PS04-0700                               |
| 5+2                  | 8mm / 200A             | 2,7          | 25mm² / 125A**                  | PC4-RS05-0250                                 | PC4-PS05-0250                               |
|                      |                        |              | 35mm² / 160A                    | PC4-RS05-0350                                 | PC4-PS05-0350                               |
|                      |                        |              | 50mm² / 200A                    | PC4-RS05-0500                                 | PC4-PS05-0500                               |
|                      |                        |              | 70mm² / 200A                    | PC4-RS05-0700*                                | PC4-PS05-0700*                              |



## Socket/inverted socket, Screw Ring

| No Pins<br>(P&E+pil) | Pin ø (mm)<br>Max. Amp | Weight<br>kg | Cross Section mm² /<br>Rec. Amp | Socket:<br>Female Contacts<br>Product Code | Inv.socket:<br>Male Pins<br>Product Code |
|----------------------|------------------------|--------------|---------------------------------|--------------------------------------------|------------------------------------------|
| 4+2                  | 10mm / 250A            | 1,7          | 35mm² / 160A**                  | PC4-VS04-0350                              | PC4-WS04-0350                            |
|                      |                        |              | 50mm² / 200A                    | PC4-VS04-0500                              | PC4-WS04-0500                            |
|                      |                        |              | 70mm² / 250A                    | PC4-VS04-0700                              | PC4-WS04-0700                            |
| 5+2                  | 8mm / 200A             | 1,7          | 25mm² / 125A**                  | PC4-VS05-0250                              | PC4-WS05-0250                            |
|                      |                        |              | 35mm² / 160A                    | PC4-VS05-0350                              | PC4-WS05-0350                            |
|                      |                        |              | 50mm² / 200A                    | PC4-VS05-0500                              | PC4-WS05-0500                            |
|                      |                        |              | 70mm² / 200A                    | PC4-VS05-0700*                             | PC4-WS05-0700*                           |



\*For an easy connection  
the minimum box height must be 59+55mm  
Dimensions ± 5mm

\* Screw type cable terminal not available

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



# PC5

Push & Pull • Size X5 – 1.1kV

## Applications:

- RTG cranes
- Steel mills
- Mining and tunnelling
- Energy
- Railways



## Product features

- Maximum voltage 1,1kV (400V in pilot circuit), currents up to 420A
- 4 or 5 pole insulator assembly as standard (See Multipin connectors data sheet for more pole)
- 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 (plug available in straight or bent version)
- 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
- 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 35-72 mm

## Optional features

- High temperature version for +80°C - +250°C or +176°F - +482°F
- Insulator material: machined PTFE (Teflon)
- Wide variety of other insulator configurations available in machined POM (Polyoxymethylene)
- Plug cover: PCX-01615-006
- Integrated up to 8-channel fiberoptic or 4, 6, 8 or 12 channel external fiberoptics for plug and socket
- Wall mounting bracket for connector: PCX-49555-2204
- Wide variety of other insulator configurations available in machined POM (Polyoxymethylene)
- Cable terminals: screw type with 2 set of screws and cable sleeves
- Finishes: neutral and hard anodizing; blue and red anodizing (colour shades may vary due to anodization process); clear coating or solid colour painting (RAL: Green 6001, Orange 2011, Yellow 1018, Black 9005, Blue 5005, Red 3001, Gray 9002)
- Mechanical interlock & additional pilot pins
- 240mm<sup>2</sup> cable terminal available for 4 pin, straight plug & socket max. 420A
- 4-pin insulator available with 16mm pins, 500V, 500A

## Special tools

| Male pin<br>Dia. 12, 14mm | Female contact<br>Dia. 12, 14mm | Key width | Socket wrench<br>(Part numb.) |
|---------------------------|---------------------------------|-----------|-------------------------------|
| PCX-11012-XXXX            | PCX-12012-XXXX                  | 16/17     | PCX-92102-0171                |
| PCX-11014-XXXX            |                                 | 18/19     | PCX-92102-019                 |
|                           | PCX-12014-XXXX                  | 21/23     | PCX-92102-021                 |

## Plug/inverted plug, bent Push & Pull

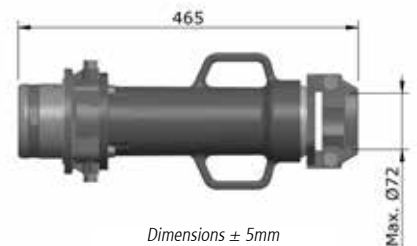
| No pins<br>(P&E+pil) | Pin ø (mm)<br>Max. Amp | Weight<br>kg | Cross section mm² /<br>Rec. Amp | Plug: Male Pins<br>Product Code | Inv. Plug:<br>Female Contacts<br>Product code |
|----------------------|------------------------|--------------|---------------------------------|---------------------------------|-----------------------------------------------|
| 4+2                  | 14mm / 420A            | 4,5          | 70 mm² / 250A **                | PC5-SX04-0700                   | PC5-TX04-0700                                 |
|                      |                        |              | 95 mm² / 300A                   | PC5-SX04-0950                   | PC5-TX04-0950                                 |
|                      |                        |              | 150 mm² / 420A                  | PC5-SX04-1500*                  | PC5-TX04-1500*                                |
|                      |                        |              | 185 mm² / 420A                  | PC5-SX04-1850*                  | PC5-TX04-1850*                                |
| 5+2                  | 12mm / 320A            | 4,5          | 70 mm² / 250A **                | PC5-SX05-0700                   | PC5-TX05-0700                                 |
|                      |                        |              | 95 mm² / 300A                   | PC5-SX05-0950                   | PC5-TX05-0950                                 |
|                      |                        |              | 150 mm² / 320A                  | PC5-SX05-1500*                  | PC5-TX05-1500*                                |
|                      |                        |              | 185 mm² / 320A                  | PC5-SX05-1850*                  | PC5-TX05-1850*                                |



Dimensions ± 5mm

## Plug/inverted plug, straight Push & Pull

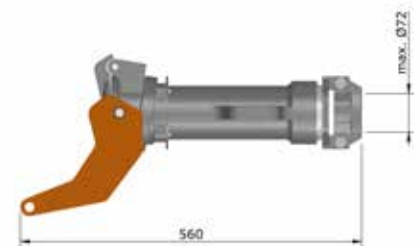
| No pins<br>(P&E+pil) | Pin ø (mm)<br>Max. Amp | Weight<br>kg | Cross section mm² /<br>Rec. Amp | Plug: Male Pins<br>Product Code | Inv. Plug:<br>Female Contacts<br>Product code |
|----------------------|------------------------|--------------|---------------------------------|---------------------------------|-----------------------------------------------|
| 4+2                  | 14mm / 420A            | 4,5          | 70 mm² / 250A**                 | PC5-SX04-0700R                  | PC5-TX04-0700R                                |
|                      |                        |              | 95 mm² / 300A                   | PC5-SX04-0950R                  | PC5-TX04-0950R                                |
|                      |                        |              | 150 mm² / 420A                  | PC5-SX04-1500R*                 | PC5-TX04-1500R*                               |
|                      |                        |              | 185 mm² / 420A                  | PC5-SX04-1850R*                 | PC5-TX04-1850R*                               |
| 5+2                  | 12mm / 320A            | 4,5          | 70 mm² / 250A**                 | PC5-SX05-0700R                  | PC5-TX05-0700R                                |
|                      |                        |              | 95 mm² / 300A                   | PC5-SX05-0950R                  | PC5-TX05-0950R                                |
|                      |                        |              | 150 mm² / 320A                  | PC5-SX05-1500R*                 | PC5-TX05-1500R*                               |
|                      |                        |              | 185 mm² / 320A                  | PC5-SX05-1850R*                 | PC5-TX05-1850R*                               |



Dimensions ± 5mm

## Connector/inverted connector, straight Push & Pull

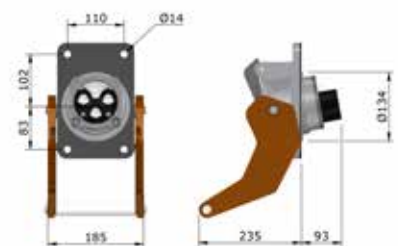
| No pins<br>(P&E+pil) | Pin ø (mm)<br>Max. Amp | Weight<br>kg | Cross section mm² /<br>Rec. Amp | Connector:<br>Female Contacts<br>Product Code | Inv. Connector:<br>Male Pins<br>Product code |
|----------------------|------------------------|--------------|---------------------------------|-----------------------------------------------|----------------------------------------------|
| 4+2                  | 14mm / 420A            | 9,4          | 70 mm² / 250A**                 | PC5-RX04-0700                                 | PC5-PX04-0700                                |
|                      |                        |              | 95 mm² / 300A                   | PC5-RX04-0950                                 | PC5-PX04-0950                                |
|                      |                        |              | 150 mm² / 420A                  | PC5-RX04-1500*                                | PC5-PX04-1500*                               |
|                      |                        |              | 185 mm² / 420A                  | PC5-RX04-1850*                                | PC5-PX04-1850*                               |
| 5+2                  | 12mm / 320A            | 9,4          | 70 mm² / 250A**                 | PC5-RX05-0700                                 | PC5-PX05-0700                                |
|                      |                        |              | 95 mm² / 300A                   | PC5-RX05-0950                                 | PC5-PX05-0950                                |
|                      |                        |              | 150 mm² / 320A                  | PC5-RX05-1500*                                | PC5-PX05-1500*                               |
|                      |                        |              | 185 mm² / 320A                  | PC5-RX05-1850*                                | PC5-PX05-1850*                               |



Dimensions ± 5mm

## Socket/inverted socket Push & Pull

| No pins<br>(P&E+pil) | Pin ø (mm)<br>Max. Amp | Weight<br>kg | Cross section<br>mm² / Rec. Amp | Socket:<br>Female Contacts<br>Product Code | Inv. Socket:<br>Male Pins<br>Product code |
|----------------------|------------------------|--------------|---------------------------------|--------------------------------------------|-------------------------------------------|
| 4+2                  | 14mm / 420A            | 7,8          | 70 mm² / 250A**                 | PC5-VX04-0700                              | PC5-WX04-0700                             |
|                      |                        |              | 95 mm² / 300A                   | PC5-VX04-0950                              | PC5-WX04-0950                             |
|                      |                        |              | 150 mm² / 420A                  | PC5-VX04-1500*                             | PC5-WX04-1500*                            |
|                      |                        |              | 185 mm² / 420A                  | PC5-VX04-1850*                             | PC5-WX04-1850*                            |
| 5+2                  | 12mm / 320A            | 7,8          | 70 mm² / 250A**                 | PC5-VX05-0700                              | PC5-WX05-0700                             |
|                      |                        |              | 95 mm² / 300A                   | PC5-VX05-0950                              | PC5-WX05-0950                             |
|                      |                        |              | 150 mm² / 320A                  | PC5-VX05-1500*                             | PC5-WX05-1500*                            |
|                      |                        |              | 185 mm² / 320A                  | PC5-VX05-1850*                             | PC5-WX05-1850*                            |



Dimensions ± 5mm

\*Screw type cable terminal not available

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

# PC5

Push & Pull • Size X5 – 7.2kV

## Applications:

- RTG cranes
- Ports
- Steel mills
- Mining and tunnelling
- Railways



## Product features

- Maximum voltage 7,2kV (400V in pilot circuit), currents up to 350A
- Up to 4 pole insulator assembly as standard covering cable sizes up to 185mm<sup>2</sup>
- 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 machined POM (Polyoxymethylene) as standard
- Interchangeable pins & contacts 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 35-72 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.

## Optional features

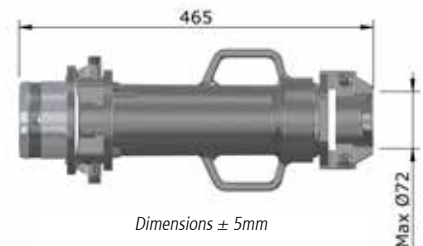
- Plug cover: PCX-01615-006
- Finger protection female socket: PCX-24570-404K
- Finger protection male plug: PCX-24571-404K
- Termination kit 3M 95-185mm<sup>2</sup>: PCX-89007-031
- Termination kit Raychem 25-95mm<sup>2</sup>, IXSU F3121: PEE-07062-860
- Termination kit Raychem 95-240mm<sup>2</sup>, IXSU F3131: PEE-07062-880
- Finishes: neutral and hard anodizing; blue and red anodizing (colour shades may vary due to anodization process); clear coating or solid colour painting (RAL: Green 6001, Orange 2011, Yellow 1018, Black 9005, Blue 5005, Red 3001, Gray 9002)
- Wall mounting bracket for connector: PCX-49555-2204
- Mechanical interlock through different type of key locking system & additional pilot pins
- External fiber optic plug and socket

## Special tools

| Male pin<br>Dia. 12mm | Female contact<br>Dia. 12mm | Key width | Socket wrench<br>(Part numb.) |
|-----------------------|-----------------------------|-----------|-------------------------------|
| PCX-11012-XXXX        | PCX-12012-XXXX              | 16/17     | PCX-92102-0171                |

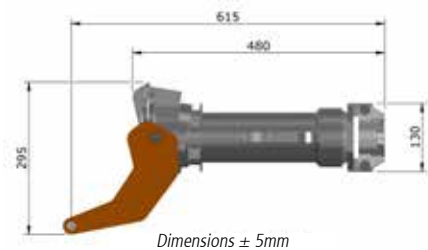
## Plug/inverted plug, straight Push & Pull

| No poles<br>(P&E+pil) | Max. voltage<br>phase / pilot | Pin ø (mm)<br>Max. Amp | Weight<br>kg | Cross section<br>mm² / Rec. Amp | Connector:<br>Male Pins<br>Product Code | Connector:<br>Female Contacts<br>Product Code |
|-----------------------|-------------------------------|------------------------|--------------|---------------------------------|-----------------------------------------|-----------------------------------------------|
| 4+2                   | 7200V / 400V                  | 12mm / 350A            | 6            | 50 mm² / 200A*                  | PC5-SX04-K0500                          | PC5-TX04-K0500                                |
|                       |                               |                        |              | 70 mm² / 250A                   | PC5-SX04-K0700                          | PC5-TX04-K0700                                |
|                       |                               |                        |              | 95 mm² / 300A                   | PC5-SX04-K0950                          | PC5-TX04-K0950                                |
|                       |                               |                        |              | 150 mm² / 350A                  | PC5-SX04-K1500                          | PC5-TX04-K1500                                |
| 4+3                   | 7200V / 400V                  | 12mm / 350A            | 6            | 185 mm² / 350A                  | PC5-SX04-K1850                          | PC5-TX04-K1850                                |
|                       |                               |                        |              | 50 mm² / 200A*                  | PC5-SX04-K05003                         | PC5-TX04-K05003                               |
|                       |                               |                        |              | 70 mm² / 250A                   | PC5-SX04-K07003                         | PC5-TX04-K07003                               |
|                       |                               |                        |              | 95 mm² / 300A                   | PC5-SX04-K09503                         | PC5-TX04-K09503                               |
|                       |                               |                        |              | 150 mm² / 350A                  | PC5-SX04-K15003                         | PC5-TX04-K15003                               |
|                       |                               |                        |              | 185 mm² / 350A                  | PC5-SX04-K18503                         | PC5-TX04-K18503                               |



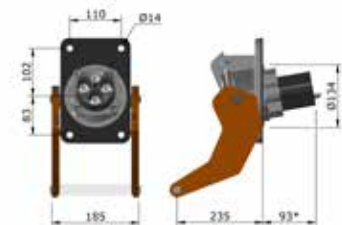
## Connector/inverted connector Push & Pull

| No poles<br>(P&E+pil) | Max. voltage<br>phase / pilot | Pin ø (mm)<br>Max. Amp | Weight<br>kg | Cross section<br>mm² / Rec. Amp | Connector:<br>Female Contacts<br>Product Code | Connector:<br>Male Pins<br>Product Code |
|-----------------------|-------------------------------|------------------------|--------------|---------------------------------|-----------------------------------------------|-----------------------------------------|
| 4+2                   | 7200V / 400V                  | 12mm / 350A            | 9.4          | 50 mm² / 200A*                  | PC5-RX04-K0500RD                              | PC5-PX04-K0500RD                        |
|                       |                               |                        |              | 70 mm² / 250A                   | PC5-RX04-K0700RD                              | PC5-PX04-K0700RD                        |
|                       |                               |                        |              | 95 mm² / 300A                   | PC5-RX04-K0950RD                              | PC5-PX04-K0950RD                        |
|                       |                               |                        |              | 150 mm² / 350A                  | PC5-RX04-K1500RD                              | PC5-PX04-K1500RD                        |
| 4+3                   | 7200V / 400V                  | 12mm / 350A            | 9.4          | 185 mm² / 350A                  | PC5-RX04-K1850RD                              | PC5-PX04-K1850RD                        |
|                       |                               |                        |              | 50 mm² / 200A*                  | PC5-RX04-K05003RD                             | PC5-PX04-K05003RD                       |
|                       |                               |                        |              | 70 mm² / 250A                   | PC5-RX04-K07003RD                             | PC5-PX04-K07003RD                       |
|                       |                               |                        |              | 95 mm² / 300A                   | PC5-RX04-K09503RD                             | PC5-PX04-K09503RD                       |
|                       |                               |                        |              | 150 mm² / 350A                  | PC5-RX04-K15003RD                             | PC5-PX04-K15003RD                       |
|                       |                               |                        |              | 185 mm² / 350A                  | PC5-RX04-K18503RD                             | PC5-PX04-K18503RD                       |



## Socket/inverted socket Push & Pull

| No poles<br>(P&E+pil) | Max. voltage<br>phase / pilot | Pin ø (mm) Max.<br>Amp | Weight<br>kg | Cross section<br>mm² / Rec. Amp | Connector:<br>Female Contacts<br>Product Code | Connector:<br>Male Pins<br>Product Code |
|-----------------------|-------------------------------|------------------------|--------------|---------------------------------|-----------------------------------------------|-----------------------------------------|
| 4+2                   | 7200V / 400V                  | 12mm / 350A            | 7.8          | 50 mm² / 200A*                  | PC5-VX04-K0500                                | PC5-WX04-K0500                          |
|                       |                               |                        |              | 70 mm² / 250A                   | PC5-VX04-K0700                                | PC5-WX04-K0700                          |
|                       |                               |                        |              | 95 mm² / 300A                   | PC5-VX04-K0950                                | PC5-WX04-K0950                          |
|                       |                               |                        |              | 150 mm² / 350A                  | PC5-VX04-K1500                                | PC5-WX04-K1500                          |
| 4+3                   | 7200V / 400V                  | 12mm / 350A            | 7.8          | 185 mm² / 350A                  | PC5-VX04-K1850                                | PC5-WX04-K1850                          |
|                       |                               |                        |              | 50 mm² / 200A*                  | PC5-VX04-K05003                               | PC5-WX04-K05003                         |
|                       |                               |                        |              | 70 mm² / 250A                   | PC5-VX04-K07003                               | PC5-WX04-K07003                         |
|                       |                               |                        |              | 95 mm² / 300A                   | PC5-VX04-K09503                               | PC5-WX04-K09503                         |
|                       |                               |                        |              | 150 mm² / 350A                  | PC5-VX04-K15003                               | PC5-WX04-K15003                         |
|                       |                               |                        |              | 185 mm² / 350A                  | PC5-VX04-K18503                               | PC5-WX04-K18503                         |



\* For an easy connection  
the minimum box height must be 93+55mm  
Dimensions ± 5mm

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



# PC5

Screw ring • Size S5 – 1.1kV

## Applications:

- Ports
- Steel mills
- Mining and tunnelling
- Railways



## Product features

- Maximum voltage 1,1kV (400V in pilot circuit), currents up to 420A
- 4 or 5 pole insulator assembly as standard (See Multipin connectors data sheet for more pole) covering cable sizes up to 185mm<sup>2</sup>
- 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 35-72 mm

## Optional features

- High temperature version for +80°C - +250°C or +176°F - +482°F
- Insulator material: machined PTFE (Teflon)
- Integrated up to 8-channel fiberoptic or 4, 6, 8 or 12 channel external fiberoptics for plug and socket
- Plug available in straight or bent version
- Plug cover: PCX-01605-006
- Wide variety of other insulator configurations available in machined POM (Polyoxymethylene)
- Cable terminals: screw type with 2 set of screws and cable sleeves
- Finishes: neutral and hard anodizing; blue and red anodizing (colour shades may vary due to anodization process); clear coating or solid colour painting (RAL: Green 6001, Orange 2011, Yellow 1018, Black 9005, Blue 5005, Red 3001, Gray 9002)
- Housings available in bronze
- Additional pilot pins
- 240mm<sup>2</sup> cable terminal available for 4 pin, straight plug & socket max. 420A
- 4-pin insulator available with 16mm pins, 500V, 500A

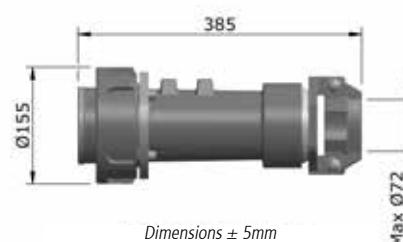
## Special tools

Spanner tool for screw ring PCX-92135-145

| Male pin<br>Dia. 12, 14mm | Female contact<br>Dia. 12, 14mm | Key width | Socket wrench<br>(Part numb.) |
|---------------------------|---------------------------------|-----------|-------------------------------|
| PCX-11012-XXXX            | PCX-12012-XXXX                  | 16/17     | PCX-92102-0171                |
| PCX-11014-XXXX            |                                 | 18/19     | PCX-92102-019                 |
|                           | PCX-12014-XXXX                  | 21/23     | PCX-92102-021                 |

## Plug/inverted plug, straight Screw Ring

| No Pins<br>(P&E+pil) | Pin ø (mm)<br>Max. Amp | Weight kg | Cross Section<br>mm² / Rec. Amp | Plug: Male Pins<br>Product Code | Inv.Plug:<br>Female Contacts<br>Product Code |
|----------------------|------------------------|-----------|---------------------------------|---------------------------------|----------------------------------------------|
| 4+2                  | 14mm / 420A            | 4,6       | 70mm² / 250A**                  | PC5-SS04-0700                   | PC5-TS04-0700                                |
|                      |                        |           | 95mm² / 300A                    | PC5-SS04-0950                   | PC5-TS04-0950                                |
|                      |                        |           | 150mm² / 420A                   | PC5-SS04-1500*                  | PC5-TS04-1500*                               |
|                      |                        |           | 185mm² / 420A                   | PC5-SS04-1850*                  | PC5-TS04-1850*                               |
| 5+2                  | 12mm / 320A            | 4,6       | 70mm² / 250A**                  | PC5-SS05-0700                   | PC5-TS05-0700                                |
|                      |                        |           | 95mm² / 300A                    | PC5-SS05-0950                   | PC5-TS05-0950                                |
|                      |                        |           | 150mm² / 320A                   | PC5-SS05-1500*                  | PC5-TS05-1500*                               |
|                      |                        |           | 185mm² / 320A                   | PC5-SS05-1850*                  | PC5-TS05-1850*                               |



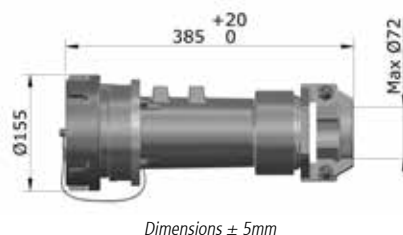
## Plug/inverted plug, bent Screw Ring

| No Pins<br>(P&E+pil) | Pin ø (mm)<br>Max. Amp | Weight kg | Cross Section<br>mm² / Rec. Amp | Plug: Male Pins<br>Product Code | Inv.Plug:<br>Female Contacts<br>Product Code |
|----------------------|------------------------|-----------|---------------------------------|---------------------------------|----------------------------------------------|
| 4+2                  | 14mm / 420A            | 4,8       | 70mm² / 250A**                  | PC5-SS04-0700B                  | PC5-TS04-0700B                               |
|                      |                        |           | 95mm² / 300A                    | PC5-SS04-0950B                  | PC5-TS04-0950B                               |
|                      |                        |           | 150mm² / 420A                   | PC5-SS04-1500B*                 | PC5-TS04-1500B*                              |
|                      |                        |           | 185mm² / 420A                   | PC5-SS04-1850B*                 | PC5-TS04-1850B*                              |
| 5+2                  | 12mm / 320A            | 4,8       | 70mm² / 250A**                  | PC5-SS05-0700B                  | PC5-TS05-0700B                               |
|                      |                        |           | 95mm² / 300A                    | PC5-SS05-0950B                  | PC5-TS05-0950B                               |
|                      |                        |           | 150mm² / 320A                   | PC5-SS05-1500B*                 | PC5-TS05-1500B*                              |
|                      |                        |           | 185mm² / 320A                   | PC5-SS05-1850B*                 | PC5-TS05-1850B*                              |



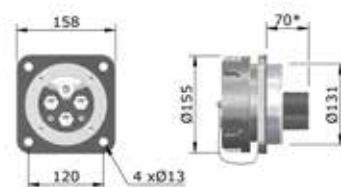
## Connector/inverted connector, straight Screw Ring

| No Pins<br>(P&E+pil) | Pin ø (mm)<br>Max. Amp | Weight kg | Cross Section<br>mm² / Rec. Amp | Connector:<br>Female Contacts<br>Product Code | Inv.Connector:<br>Male Pins<br>Product Code |
|----------------------|------------------------|-----------|---------------------------------|-----------------------------------------------|---------------------------------------------|
| 4+2                  | 14mm / 420A            | 5,1       | 70mm² / 250A**                  | PC5-RS04-0700                                 | PC5-PS04-0700                               |
|                      |                        |           | 95mm² / 300A                    | PC5-RS04-0950                                 | PC5-PS04-0950                               |
|                      |                        |           | 150mm² / 420A                   | PC5-RS04-1500*                                | PC5-PS04-1500*                              |
|                      |                        |           | 185mm² / 420A                   | PC5-RS04-1850*                                | PC5-PS04-1850*                              |
| 5+2                  | 12mm / 320A            | 5,1       | 70mm² / 250A**                  | PC5-RS05-0700                                 | PC5-PS05-0700                               |
|                      |                        |           | 95mm² / 300A                    | PC5-RS05-0950                                 | PC5-PS05-0950                               |
|                      |                        |           | 150mm² / 320A                   | PC5-RS05-1500*                                | PC5-PS05-1500*                              |
|                      |                        |           | 185mm² / 320A                   | PC5-RS05-1850*                                | PC5-PS05-1850*                              |



## Socket/inverted socket, Screw Ring

| No Pins<br>(P&E+pil) | Pin ø (mm)<br>Max. Amp | Weight kg | Cross Section<br>mm² / Rec. Amp | Socket:<br>Female Contacts<br>Product Code | Inv.Socket:<br>Male Pins<br>Product Code |
|----------------------|------------------------|-----------|---------------------------------|--------------------------------------------|------------------------------------------|
| 4+2                  | 14mm / 420A            | 3,3       | 70mm² / 250A**                  | PC5-VS04-0700                              | PC5-WS04-0700                            |
|                      |                        |           | 95mm² / 300A                    | PC5-VS04-0950                              | PC5-WS04-0950                            |
|                      |                        |           | 150mm² / 420A                   | PC5-VS04-1500*                             | PC5-WS04-1500*                           |
|                      |                        |           | 185mm² / 420A                   | PC5-VS04-1850*                             | PC5-WS04-1850*                           |
| 5+2                  | 12mm / 320A            | 3,3       | 70mm² / 250A**                  | PC5-VS05-0700                              | PC5-WS05-0700                            |
|                      |                        |           | 95mm² / 300A                    | PC5-VS05-0950                              | PC5-WS05-0950                            |
|                      |                        |           | 150mm² / 320A                   | PC5-VS05-1500*                             | PC5-WS05-1500*                           |
|                      |                        |           | 185mm² / 320A                   | PC5-VS05-1850*                             | PC5-WS05-1850*                           |



\* For an easy connection  
the minimum box height must be 70+55mm  
Dimensions ± 5mm

\* Screw type cable terminal not available

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

# PC5

Screw ring • Size S5 – 7.2kV

## Applications:

- Ports
- Steel mills
- Construction
- Mining and tunnelling
- Energy
- Oil industry



## Product features

- Maximum voltage 7,2kV (400V in pilot circuit), currents up to 350A
- Up to 4 pole insulator assembly as standard covering cable sizes up to 185mm<sup>2</sup>
- 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/copper
- Easy wiring with male and female insulators fully interchangeable made in machined POM as standard
- Interchangeable pins & contacts 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 35-72 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.

## Optional features

- Plug cover: PCX-01605-006
- Finger protection female socket: PCX-24570-404K
- Finger protection male plug: PCX-24571-404K
- Termination kit 3M 95-185mm<sup>2</sup>: PCX-89007-031
- Termination kit Raychem 25-95mm<sup>2</sup>, IXSU 3121: PEE-07062-860
- Termination kit Raychem 95-240mm<sup>2</sup>, IXSU 3131: PEE-07062-880
- Finishes: neutral and hard anodizing; blue and red anodizing (colour shades may vary due to anodization process); clear coating or solid colour painting (RAL: Green 6001, Orange 2011, Yellow 1018, Black 9005, Blue 5005, Red 3001, Gray 9002)
- Additional pilot pins
- External fiber optic plug and socket

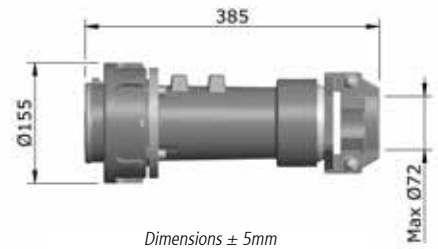
## Special tools

Spanner tool for screw ring PCX-92135-145

| Male pin<br>Dia. 12mm | Female contact<br>Dia. 12mm | Key width | Socket wrench<br>(Part numb.) |
|-----------------------|-----------------------------|-----------|-------------------------------|
| PCX-11012-XXXX        | PCX-12012-XXXX              | 16/17     | PCX-92102-0171                |

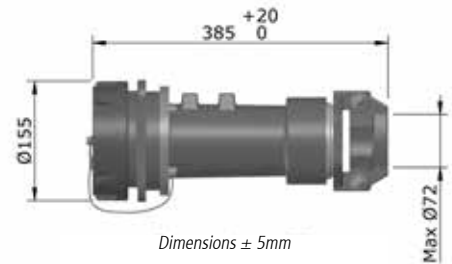
## Plug/inverted plug, straight Screw Ring

| No poles<br>(P&E+pil) | Max. voltage<br>phase / pilot | Pin Ø (mm)<br>Max. Amp | Weight<br>kg | Cross section mm²<br>/ Rec. Amp | Connector: Female<br>Contacts Product<br>Code | Connector: Male Pins<br>Product Code |
|-----------------------|-------------------------------|------------------------|--------------|---------------------------------|-----------------------------------------------|--------------------------------------|
| 4+2                   | 7200V / 400V                  | 12mm / 350A            | 4.6          | 50 mm² / 200A*                  | PC5-SS04-K0500                                | PC5-TS04-K0500                       |
|                       |                               |                        |              | 70 mm² / 250A                   | PC5-SS04-K0700                                | PC5-TS04-K0700                       |
|                       |                               |                        |              | 95 mm² / 300A                   | PC5-SS04-K0950                                | PC5-TS04-K0950                       |
|                       |                               |                        |              | 150 mm² / 350A                  | PC5-SS04-K1500                                | PC5-TS04-K1500                       |
|                       |                               |                        |              | 185 mm² / 350A                  | PC5-SS04-K1850                                | PC5-TS04-K1850                       |
| 4+3                   | 7200V / 400V                  | 12mm / 350A            | 4.6          | 50 mm² / 200A*                  | PC5-SS04-K05003                               | PC5-TS04-K05003                      |
|                       |                               |                        |              | 70 mm² / 250A                   | PC5-SS04-K07003                               | PC5-TS04-K07003                      |
|                       |                               |                        |              | 95 mm² / 300A                   | PC5-SS04-K09503                               | PC5-TS04-K09503                      |
|                       |                               |                        |              | 150 mm² / 350A                  | PC5-SS04-K15003                               | PC5-TS04-K15003                      |
|                       |                               |                        |              | 185 mm² / 350A                  | PC5-SS04-K18503                               | PC5-TS04-K18503                      |



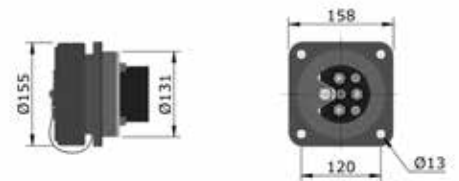
## Connector/inverted connector straight Screw Ring

| No poles<br>(P&E+pil) | Max. voltage<br>phase / pilot | Pin Ø (mm)<br>Max. Amp | Weight<br>kg | Cross section mm²/<br>Rec. Amp | Connector: Female<br>Contacts Product<br>Code | Connector: Male Pins<br>Product Code |
|-----------------------|-------------------------------|------------------------|--------------|--------------------------------|-----------------------------------------------|--------------------------------------|
| 4+2                   | 7200V / 400V                  | 12mm / 350A            | 5.1          | 50 mm² / 200A*                 | PC5-RS04-K0500                                | PC5-PS04-K0500                       |
|                       |                               |                        |              | 70 mm² / 250A                  | PC5-RS04-K0700                                | PC5-PS04-K0700                       |
|                       |                               |                        |              | 95 mm² / 300A                  | PC5-RS04-K0950                                | PC5-PS04-K0950                       |
|                       |                               |                        |              | 150 mm² / 350A                 | PC5-RS04-K1500                                | PC5-PS04-K1500                       |
|                       |                               |                        |              | 185 mm² / 350A                 | PC5-RS04-K1850                                | PC5-PS04-K1850                       |
| 4+3                   | 7200V / 400V                  | 12mm / 350A            | 5.1          | 50 mm² / 200A*                 | PC5-RS04-K05003                               | PC5-PS04-K05003                      |
|                       |                               |                        |              | 70 mm² / 250A                  | PC5-RS04-K07003                               | PC5-PS04-K07003                      |
|                       |                               |                        |              | 95 mm² / 300A                  | PC5-RS04-K09503                               | PC5-PS04-K09503                      |
|                       |                               |                        |              | 150 mm² / 350A                 | PC5-RS04-K15003                               | PC5-PS04-K15003                      |
|                       |                               |                        |              | 185 mm² / 350A                 | PC5-RS04-K18503                               | PC5-PS04-K18503                      |



## Socket/inverted socket, Screw Ring

| No poles<br>(P&E+pil) | Max. voltage<br>phase / pilot | Pin Ø (mm)<br>Max. Amp | Weight<br>kg | Cross section mm²/<br>Rec. Amp | Connector: Female<br>Contacts Product<br>Code | Connector: Male Pins<br>Product Code |
|-----------------------|-------------------------------|------------------------|--------------|--------------------------------|-----------------------------------------------|--------------------------------------|
| 4+2                   | 7200V / 400V                  | 12mm / 350A            | 2.9          | 50 mm² / 200A*                 | PC5-VS04-K0500                                | PC5-WS04-K0500                       |
|                       |                               |                        |              | 70 mm² / 250A                  | PC5-VS04-K0700                                | PC5-WS04-K0700                       |
|                       |                               |                        |              | 95 mm² / 300A                  | PC5-VS04-K0950                                | PC5-WS04-K0950                       |
|                       |                               |                        |              | 150 mm² / 350A                 | PC5-VS04-K1500                                | PC5-WS04-K1500                       |
|                       |                               |                        |              | 185 mm² / 350A                 | PC5-VS04-K1850                                | PC5-WS04-K1850                       |
| 4+3                   | 7200V / 400V                  | 12mm / 350A            | 2.9          | 50 mm² / 200A*                 | PC5-VS04-K05003                               | PC5-WS04-K05003                      |
|                       |                               |                        |              | 70 mm² / 250A                  | PC5-VS04-K07003                               | PC5-WS04-K07003                      |
|                       |                               |                        |              | 95 mm² / 300A                  | PC5-VS04-K09503                               | PC5-WS04-K09503                      |
|                       |                               |                        |              | 150 mm² / 350A                 | PC5-VS04-K15003                               | PC5-WS04-K15003                      |
|                       |                               |                        |              | 185 mm² / 350A                 | PC5-VS04-K18503                               | PC5-WS04-K18503                      |



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



# PC6

Push & Pull • Size X6 – 1.1kV

## Applications:

- RTG cranes
- Steel mills
- Mining and tunnelling
- Energy
- Railways



## Product features

- Maximum voltage 1,1kV, currents up to 660A
- 4 or 5 pole insulator assembly as standard covering cable sizes up to 300mm<sup>2</sup>
- 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
- 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 45-110mm

## Optional features

- Plug cover: PCX-01616-006
- Wall mounting bracket for connector: PCX-49X10-2002
- Finishes: neutral and hard anodizing; blue and red anodizing (colour shades may vary due to anodization process); clear coating or solid colour painting (RAL: Green 6001, Orange 2011, Yellow 1018, Black 9005, Blue 5005, Red 3001, Gray 9002)
- Mechanical interlock & additional pilot pins
- Up to 12ch integrated (EB) or up to 18ch externally (butt joint)

## Special tools

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

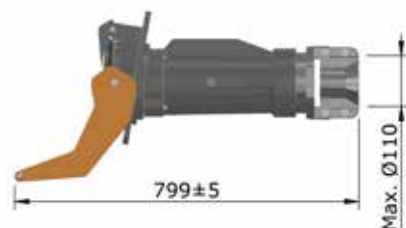
## Plug/inverted plug, straight Push & Pull

| No pins<br>(P&E+pil) | Pin ø (mm)<br>Max Amp | Weight<br>kg | Cross section mm <sup>2</sup> /<br>Rec. Amp | Plug:<br>Male Pins<br>Product Code | Inv. Plug:<br>Female Contacts<br>Product code |
|----------------------|-----------------------|--------------|---------------------------------------------|------------------------------------|-----------------------------------------------|
| 4+2                  | 20mm / 800A           | 10           | 95 mm <sup>2</sup> / 300A*                  | PC6-SX04-0950                      | PC6-TX04-0950                                 |
|                      |                       |              | 120 mm <sup>2</sup> / 350A                  | PC6-SX04-1200                      | PC6-TX04-1200                                 |
|                      |                       |              | 150 mm <sup>2</sup> / 420A                  | PC6-SX04-1500                      | PC6-TX04-1500                                 |
|                      |                       |              | 185 mm <sup>2</sup> / 480A                  | PC6-SX04-1850                      | PC6-TX04-1850                                 |
|                      |                       |              | 240 mm <sup>2</sup> / 540A                  | PC6-SX04-2400                      | PC6-TX04-2400                                 |
|                      |                       |              | 300 mm <sup>2</sup> / 660A                  | PC6-SX04-3000                      | PC6-TX04-3000                                 |
| 5+2                  | 16mm / 500A           | 10           | 95 mm <sup>2</sup> / 300A*                  | PC6-SX05-0950                      | PC6-TX05-0950                                 |
|                      |                       |              | 120 mm <sup>2</sup> / 350A                  | PC6-SX05-1200                      | PC6-TX05-1200                                 |
|                      |                       |              | 150 mm <sup>2</sup> / 420A                  | PC6-SX05-1500                      | PC6-TX05-1500                                 |
|                      |                       |              | 185 mm <sup>2</sup> / 480A                  | PC6-SX05-1850                      | PC6-TX05-1850                                 |
|                      |                       |              | 240 mm <sup>2</sup> / 500A                  | PC6-SX05-2400                      | PC6-TX05-2400                                 |



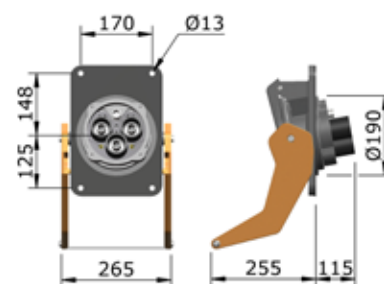
## Connector/inverted connector, straight Push & Pull

| No pins<br>(P&E+pil) | Pin ø (mm)<br>Max Amp | Weight<br>kg | Cross section mm <sup>2</sup> /<br>Rec. Amp | Connector<br>Female Contacts<br>Product Code | Inv. Connector:<br>Male Pins<br>Product Code |
|----------------------|-----------------------|--------------|---------------------------------------------|----------------------------------------------|----------------------------------------------|
| 4+2                  | 20mm/800A             | 18           | 95 mm <sup>2</sup> / 300A*                  | PC6-RX04-0950                                | PC6-PX04-0950                                |
|                      |                       |              | 120 mm <sup>2</sup> / 350A                  | PC6-RX04-1200                                | PC6-PX04-1200                                |
|                      |                       |              | 150 mm <sup>2</sup> / 420A                  | PC6-RX04-1500                                | PC6-PX04-1500                                |
|                      |                       |              | 185 mm <sup>2</sup> / 480A                  | PC6-RX04-1850                                | PC6-PX04-1850                                |
|                      |                       |              | 240 mm <sup>2</sup> / 540A                  | PC6-RX04-2400                                | PC6-PX04-2400                                |
|                      |                       |              | 300 mm <sup>2</sup> / 660A                  | PC6-RX04-3000                                | PC6-PX04-3000                                |
| 5+2                  | 16mm/500A             | 18           | 95 mm <sup>2</sup> / 300A*                  | PC6-RX05-0950                                | PC6-PX05-0950                                |
|                      |                       |              | 120 mm <sup>2</sup> / 350A                  | PC6-RX05-1200                                | PC6-PX05-1200                                |
|                      |                       |              | 150 mm <sup>2</sup> / 420A                  | PC6-RX05-1500                                | PC6-PX05-1500                                |
|                      |                       |              | 185 mm <sup>2</sup> / 480A                  | PC6-RX05-1850                                | PC6-PX05-1850                                |
|                      |                       |              | 240 mm <sup>2</sup> / 500A                  | PC6-RX05-2400                                | PC6-PX05-2400                                |



## Socket/inverted socket Push & Pull

| No pins<br>(P&E+pil) | Pin ø (mm)<br>Max. Amp | Weight<br>kg | Cross section mm <sup>2</sup> /<br>Rec. Amp | Socket:<br>Female Contacts<br>Product Code | Inv. Socket:<br>Male Pins<br>Product code |
|----------------------|------------------------|--------------|---------------------------------------------|--------------------------------------------|-------------------------------------------|
| 4+2                  | 20mm/800A              | 12           | 95 mm <sup>2</sup> / 300A*                  | PC6-VX04-0950                              | PC6-WX04-0950                             |
|                      |                        |              | 120 mm <sup>2</sup> / 350A                  | PC6-VX04-1200                              | PC6-WX04-1200                             |
|                      |                        |              | 150 mm <sup>2</sup> / 420A                  | PC6-VX04-1500                              | PC6-WX04-1500                             |
|                      |                        |              | 185 mm <sup>2</sup> / 480A                  | PC6-VX04-1850                              | PC6-WX04-1850                             |
|                      |                        |              | 240 mm <sup>2</sup> / 540A                  | PC6-VX04-2400                              | PC6-WX04-2400                             |
|                      |                        |              | 300 mm <sup>2</sup> / 660A                  | PC6-VX04-3000                              | PC6-WX04-3000                             |
| 5+2                  | 16mm/500A              | 12           | 95 mm <sup>2</sup> / 300A*                  | PC6-VX05-0950                              | PC6-WX05-0950                             |
|                      |                        |              | 120 mm <sup>2</sup> / 350A                  | PC6-VX05-1200                              | PC6-WX05-1200                             |
|                      |                        |              | 150 mm <sup>2</sup> / 420A                  | PC6-VX05-1500                              | PC6-WX05-1500                             |
|                      |                        |              | 185 mm <sup>2</sup> / 480A                  | PC6-VX05-1850                              | PC6-WX05-1850                             |
|                      |                        |              | 240 mm <sup>2</sup> / 500A                  | PC6-VX05-2400                              | PC6-WX05-2400                             |



Dimensions ± 5mm

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

# PC6

Push & Pull • Size X6 – 7.2kV

## Applications:

- RTG cranes
- Steel mills
- Mining and tunnelling
- Energy
- Railways



## 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 300mm<sup>2</sup>
- 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 45-110mm
- 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 10-35mm<sup>2</sup>, IXSU F3111: PEE-07062-850
- Termination kit Raychem 25-95mm<sup>2</sup>, IXSU F3121: PEE-07062-860
- Termination kit Raychem 95-240mm<sup>2</sup>, IXSU F3131: PEE-07062-880
- Wall mounting bracket for connector: PCX-49X10-2002
- Finishes: neutral and hard anodizing; blue and red anodizing (colour shades may vary due to anodization process); clear coating or solid colour painting (RAL: Green 6001, Orange 2011, Yellow 1018, Black 9005, Blue 5005, Red 3001, Gray 9002)
- 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)

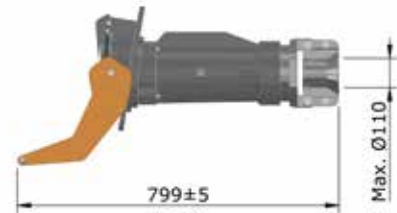
### Plug/inverted plug, straight Push & Pull

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



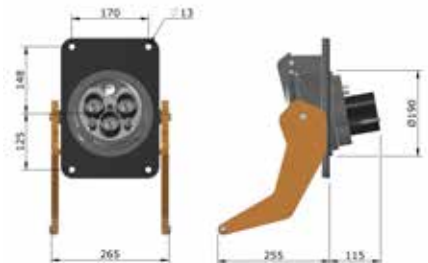
### Connector/inverted connector, straight Push & Pull

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



### Socket/inverted socket Push & Pull

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



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



# PC6

Push & Pull • Size X6 – 12kV

## Applications:

- RTG cranes
- Shore
- Mining and tunnelling
- Energy
- Ports



## Product features

- Maximum voltage 12kV (400V in pilot circuit), currents up to 500A
- Up to 4 pole insulator assembly as standard covering cable sizes up to 240mm<sup>2</sup>
- 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 copper
- Easy wiring with male and female insulators made in PTFE (Teflon)
- 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 45-110mm
- For termination of the cable terminals, industry approved termination kits for 12kV must be used. Termination kits and gel may be supplied by Cavotec on request.
- Standard cable terminals for crimping with hexagonal crimping tool
- Back parts of insulators has to be gel fitted "potted"

## Optional features

- Plug cover: PCX-01616-006
- Finger protection female socket: PCX-21670-4X4L
- Termination kit Raychem 10-35mm<sup>2</sup>, IXSU F3111: PEE-07062-850
- Termination kit Raychem 25-95mm<sup>2</sup>, IXSU F3121: PEE-07062-860
- Termination kit Raychem 95-240mm<sup>2</sup>, IXSU F3131: PEE-07062-880
- Wall mounting bracket for Connector: PCX-49X10-2002
- Finishes: neutral and hard anodizing; blue and red anodizing (colour shades may vary due to anodization process); clear coating or solid colour painting (RAL: Green 6001, Orange 2011, Yellow 1018, Black 9005, Blue 5005, Red 3001, Gray 9002)
- Mechanical interlock through different type of key locking system & additional pilot pins or multipin signal pins
- Up to 18ch external fiber optics (butt joint)
- Gel Raychem Guroflex D035-1: PCX-89502-351
- Guide system, PCX-09700-002

## Special tools

Allen key 5 mm (PCX-93003-005)

| Male pin<br>Dia. 14, 16mm | Female contact<br>Dia. 14, 16mm | Key width | Socket wrench<br>(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                 |

## Plug/inverted plug, straight Push & Pull

| No pins<br>(P&E+pil) | Max. voltage<br>phase / pilot | Pin Size (mm)<br>Max. Amp | Weight<br>kg | Cross section mm <sup>2</sup> / Max<br>rec. Amp | Plug: Male Pins<br>Product Code |
|----------------------|-------------------------------|---------------------------|--------------|-------------------------------------------------|---------------------------------|
| 4+2                  | 12000V/400V                   | 16mm / 500A               | 11           | 25 mm <sup>2</sup> / 125A*                      | PC6-SX04-L0250                  |
|                      |                               |                           |              | 35 mm <sup>2</sup> / 160A                       | PC6-SX04-L0350                  |
|                      |                               |                           |              | 50 mm <sup>2</sup> / 200A                       | PC6-SX04-L0500                  |
|                      |                               |                           |              | 70 mm <sup>2</sup> / 250A                       | PC6-SX04-L0700                  |
|                      |                               |                           |              | 95 mm <sup>2</sup> / 300A                       | PC6-SX04-L0950                  |
|                      |                               |                           |              | 120 mm <sup>2</sup> / 350A                      | PC6-SX04-L1200                  |
|                      |                               |                           |              | 150 mm <sup>2</sup> / 420A                      | PC6-SX04-L1500                  |
|                      |                               |                           |              | 185 mm <sup>2</sup> / 480A**                    | PC6-SX04-L1850                  |
|                      |                               |                           |              | 240 mm <sup>2</sup> / 500A**                    | PC6-SX04-L2400                  |



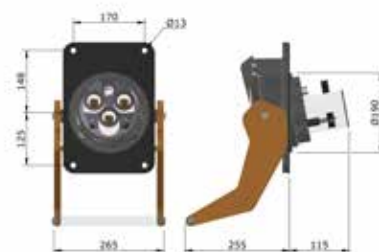
## Connector/inverted connector, straight Push & Pull

| No pins<br>(P&E+pil) | Max. voltage<br>phase / pilot | Pin Size (mm)<br>Max. Amp | Weight<br>kg | Cross section mm <sup>2</sup> / Max<br>rec. Amp | Connector:<br>Female Contacts<br>Product Code |
|----------------------|-------------------------------|---------------------------|--------------|-------------------------------------------------|-----------------------------------------------|
| 4+2                  | 12000V/400V                   | 16mm / 500A               | 20           | 25 mm <sup>2</sup> / 125A*                      | PC6-RX04-L0250                                |
|                      |                               |                           |              | 35 mm <sup>2</sup> / 160A                       | PC6-RX04-L0350                                |
|                      |                               |                           |              | 50 mm <sup>2</sup> / 200A                       | PC6-RX04-L0500                                |
|                      |                               |                           |              | 70 mm <sup>2</sup> / 250A                       | PC6-RX04-L0700                                |
|                      |                               |                           |              | 95 mm <sup>2</sup> / 300A                       | PC6-RX04-L0950                                |
|                      |                               |                           |              | 120 mm <sup>2</sup> / 350A                      | PC6-RX04-L1200                                |
|                      |                               |                           |              | 150 mm <sup>2</sup> / 420A                      | PC6-RX04-L1500                                |
|                      |                               |                           |              | 185 mm <sup>2</sup> / 480A**                    | PC6-RX04-L1850                                |
|                      |                               |                           |              | 240 mm <sup>2</sup> / 500A**                    | PC6-RX04-L2400                                |



## Socket/inverted socket Push & Pull

| No pins<br>(P&E+pil) | Max. voltage<br>phase / pilot | Pin Size (mm)<br>Max. Amp | Weight<br>kg | Cross section mm <sup>2</sup> / Max<br>rec. Amp | Socket:<br>Female Contacts<br>Product Code |
|----------------------|-------------------------------|---------------------------|--------------|-------------------------------------------------|--------------------------------------------|
| 4+2                  | 12000V/400V                   | 16mm / 500A               | 13           | 25 mm <sup>2</sup> / 125A                       | PC6-VX04-L0250                             |
|                      |                               |                           |              | 35 mm <sup>2</sup> / 160A                       | PC6-VX04-L0350                             |
|                      |                               |                           |              | 50 mm <sup>2</sup> / 200A                       | PC6-VX04-L0500                             |
|                      |                               |                           |              | 70 mm <sup>2</sup> / 250A                       | PC6-VX04-L0700                             |
|                      |                               |                           |              | 95 mm <sup>2</sup> / 300A                       | PC6-VX04-L0950                             |
|                      |                               |                           |              | 120 mm <sup>2</sup> / 350A                      | PC6-VX04-L1200                             |
|                      |                               |                           |              | 150 mm <sup>2</sup> / 420A                      | PC6-VX04-L1500                             |
|                      |                               |                           |              | 185 mm <sup>2</sup> / 480A**                    | PC6-VX04-L1850                             |
|                      |                               |                           |              | 240 mm <sup>2</sup> / 500A**                    | PC6-VX04-L2400                             |



Dimensions ± 5mm

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

\*\* This option is only available if the cable core including termination doesn't exceed 34mm diameter

# PC6

Push & Pull • Size X6 – 15kV

## Applications:

- RTG cranes
- Shore
- Mining and tunnelling
- Ports



## Product features

- Maximum voltage 15kV (400V in pilot circuit), currents up to 500A
- Up to 4 pole insulator assembly as standard covering cable sizes up to 240mm<sup>2</sup>
- 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 copper
- Easy wiring with male and female insulators made in PTFE (Teflon)
- 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 45-110mm
- For termination of the cable terminals, industry approved termination kits for 15kV must be used. Termination kits may be supplied by Cavotec on request.
- Standard cable terminals for crimping with hexagonal crimping tool
- Back parts of insulators have to be filed with non-reenterable epoxy compound.

## Optional features

- Plug cover: PCX-01616-006
- Finger protection female socket: PCX-21670-4X4L
- Termination kit Raychem 10-35mm<sup>2</sup>, IXSU F3111: PEE-07062-850
- Termination kit Raychem 25-95mm<sup>2</sup>, IXSU F3121: PEE-07062-860
- Termination kit Raychem 95-240mm<sup>2</sup>, IXSU F3131: PEE-07062-880
- Wall mounting bracket for connector: PCX-49X10-2002
- Finishes: neutral and hard anodizing; blue and red anodizing (colour shades may vary due to anodization process); clear coating or solid colour painting (RAL: Green 6001, Orange 2011, Yellow 1018, Black 9005, Blue 5005, Red 3001, Gray 9002)
- Mechanical interlock through different type of key locking system & additional pilot pins or multipin signal pins
- Up to 18ch external fibre optics (butt joint)
- Guide system, PCX-09700-002

## Special tools

Allen key 5 mm (PCX-93003-005)

| Male pin<br>Dia. 14, 16mm | Female contact<br>Dia. 14, 16mm | Key width | Socket wrench<br>(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                 |

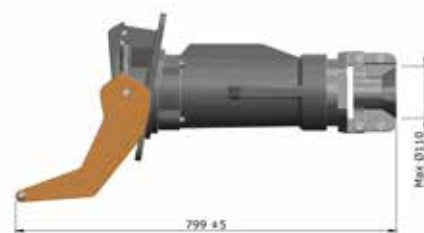
## Plug/inverted plug, straight Push & Pull

| No pins<br>(P&E+pil) | Max. voltage<br>phase / pilot | Pin Size (mm)<br>Max. Amp | Weight<br>kg | Cross section mm² / Max<br>rec. Amp | Plug: Male Pins<br>Product Code |
|----------------------|-------------------------------|---------------------------|--------------|-------------------------------------|---------------------------------|
| 4+2                  | 15000V/400V                   | 16mm / 500A               | 11           | 25 mm² / 125A*                      | PC6-SX04-M0250                  |
|                      |                               |                           |              | 35 mm² / 160A                       | PC6-SX04-M0350                  |
|                      |                               |                           |              | 50 mm² / 200A                       | PC6-SX04-M0500                  |
|                      |                               |                           |              | 70 mm² / 250A                       | PC6-SX04-M0700                  |
|                      |                               |                           |              | 95 mm² / 300A                       | PC6-SX04-M0950                  |
|                      |                               |                           |              | 120 mm² / 350A                      | PC6-SX04-M1200                  |
|                      |                               |                           |              | 150 mm² / 420A                      | PC6-SX04-M1500                  |



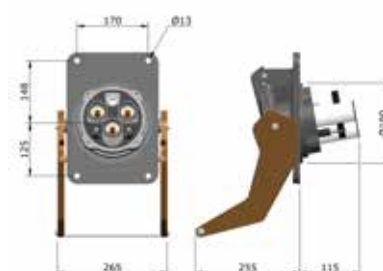
## Connector/inverted connector, straight Push & Pull

| No pins<br>(P&E+pil) | Max. voltage<br>phase / pilot | Pin Size (mm)<br>Max. Amp | Weight<br>kg | Cross section mm² / Max<br>rec. Amp | Connector:<br>Female Contacts<br>Product Code |
|----------------------|-------------------------------|---------------------------|--------------|-------------------------------------|-----------------------------------------------|
| 4+2                  | 15000V/400V                   | 16mm / 500A               | 20           | 25 mm² / 125A*                      | PC6-RX04-M0250                                |
|                      |                               |                           |              | 35 mm² / 160A                       | PC6-RX04-M0350                                |
|                      |                               |                           |              | 50 mm² / 200A                       | PC6-RX04-M0500                                |
|                      |                               |                           |              | 70 mm² / 250A                       | PC6-RX04-M0700                                |
|                      |                               |                           |              | 95 mm² / 300A                       | PC6-RX04-M0950                                |
|                      |                               |                           |              | 120 mm² / 350A                      | PC6-RX04-M1200                                |
|                      |                               |                           |              | 150 mm² / 420A                      | PC6-RX04-M1500                                |
|                      |                               |                           |              | 240 mm² / 500A**                    | PC6-RX04-M2400                                |



## Socket/inverted socket Push & Pull

| No pins<br>(P&E+pil) | Max. voltage<br>phase / pilot | Pin Size (mm)<br>Max. Amp | Weight<br>kg | Cross section mm² / Max<br>rec. Amp | Socket:<br>Female Contacts<br>Product Code |
|----------------------|-------------------------------|---------------------------|--------------|-------------------------------------|--------------------------------------------|
| 4+2                  | 15000V/400V                   | 16mm / 500A               | 13           | 25 mm² / 125A                       | PC6-VX04-M0250                             |
|                      |                               |                           |              | 35 mm² / 160A                       | PC6-VX04-M0350                             |
|                      |                               |                           |              | 50 mm² / 200A                       | PC6-VX04-M0500                             |
|                      |                               |                           |              | 70 mm² / 250A                       | PC6-VX04-M0700                             |
|                      |                               |                           |              | 95 mm² / 300A                       | PC6-VX04-M0950                             |
|                      |                               |                           |              | 120 mm² / 350A                      | PC6-VX04-M1200                             |
|                      |                               |                           |              | 150 mm² / 420A                      | PC6-VX04-M1500                             |



Dimensions ± 5mm

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

\*\* This option is only available if the cable core including termination doesn't exceed 34mm diameter



# Multipin connectors

500V

## Applications:

- Land based oil rigs
- Ports
- Steel mills
- Mining and tunnelling
- Railways



## Product features

- Maximum voltage up to 500V, currents up to 40A.
- Up to 50 pole insulator assembly.
- IP66 (when connected or with covers closed)
- Standard ambient temperature: -40°C to +80°C or -40°F to +176°F
- Socket & connector with integrated cover operated by the push & pull arms (Socket available in straight or 30° bent version) (PC4 and PC5 plug available in straight or 60 degree bent version)
- 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
- Easy wiring with male and female insulators fully interchangeable (between plug and socket) made in POM Max temp. 90 °C.
- Interchangeable pins and contacts 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: available in a wide variety of types and sizes (supplied by external manufacturers)
- Standard cable gland for PC4 and PC5: Cavotec "onion ring" with strain relief covering cable outer diameters from Ø25-70mm
- For screw ring connection please contact your Cavotec company

## Optional features

- High temperature version for +80°C - +250°C or +176°F - +482°F
- Insulator material: machined PTFE (Teflon)
- Plug covers: (PC2) PCX-01612-006, (PC4) PCX-01614-006, (PC5) PCX-01615-006
- Wall mounting bracket for Connector: (PC2) PCX-49260-1002, (PC4) PCX-49455-2204, (PC5) PCX-49555-2204
- Individual keying to prevent inserting a plug in the wrong socket
- Finishes: neutral and hard anodizing; blue and red anodizing (colour shades may vary due to anodization process); clear coating or solid colour painting (RAL: Green 6001, Orange 2011, Yellow 1018, Black 9005, Blue 5005, Red 3001, Gray 9002)

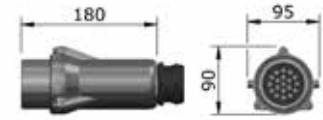
## Special tools

| Male pin<br>Dia. 3mm | Female contact<br>Dia. 3mm | Key width | Socket wrench<br>(Part numb.)    |
|----------------------|----------------------------|-----------|----------------------------------|
| PCX-11003-XXXX       | PCX-12003-XXXX             | 5         | PCX-92001-0051<br>PCX-92003-0051 |

## Plug/inverted plug, straight, push & pull

| Type<br>Size | No. Pins<br>(P&E) | Pin Ø (mm)<br>Max. Amp | Weight<br>(kg) | Cross Section mm²<br>/ Rec. Amp | Plug Male Pins<br>Product Code | Inv. plug<br>Femal Contact<br>Product Code |
|--------------|-------------------|------------------------|----------------|---------------------------------|--------------------------------|--------------------------------------------|
| 2            | 18                | 3mm / 40A              | 1,4            | 1,5mm² / 20A                    | PC2-SX18-0015                  | PC2-TX18-0015                              |
|              |                   |                        |                | 2,5mm² / 30A                    | PC2-SX18-0025                  | PC2-TX18-0025                              |
|              |                   |                        |                | 4mm² / 40A                      | PC2-SX18-0040                  | PC2-TX18-0040                              |
| 2            | 25*               | 3mm / 40A              | 1,4            | 1,5mm² / 20A                    | PC2-SX25-0015                  | PC2-TX25-0015                              |
|              |                   |                        |                | 2,5mm² / 30A                    | PC2-SX25-0025                  | PC2-TX25-0025                              |
|              |                   |                        |                | 4mm² / 40A                      | PC2-SX25-0040                  | PC2-TX25-0040                              |
| 4            | 24                | 3mm / 40A              | 1,8            | 1,5mm² / 20A                    | PC4-SX24-0015R                 | PC4-TX24-0015R                             |
|              |                   |                        |                | 2,5mm² / 30A                    | PC4-SX24-0025R                 | PC4-TX24-0025R                             |
|              |                   |                        |                | 4mm² / 40A                      | PC4-SX24-0040R                 | PC4-TX24-0040R                             |
| 4            | 30                | 3mm / 40A              | 1,8            | 1,5mm² / 20A                    | PC4-SX30-0015R                 | PC4-TX30-0015R                             |
|              |                   |                        |                | 2,5mm² / 30A                    | PC4-SX30-0025R                 | PC4-TX30-0025R                             |
|              |                   |                        |                | 4mm² / 40A                      | PC4-SX30-0040R                 | PC4-TX30-0040R                             |
| 4            | 37                | 3mm / 40A              | 1,9            | 1,5mm² / 20A                    | PC4-SX37-0015R                 | PC4-TX37-0015R                             |
|              |                   |                        |                | 2,5mm² / 30A                    | PC4-SX37-0025R                 | PC4-TX37-0025R                             |
|              |                   |                        |                | 4mm² / 40A                      | PC4-SX37-0040R                 | PC4-TX37-0040R                             |
| 5            | 50                | 3mm / 40A              | 4,4            | 1,5mm² / 20A                    | PC5-SX50-0015R                 | PC5-TX50-0015R                             |
|              |                   |                        |                | 2,5mm² / 30A                    | PC5-SX50-0025R                 | PC5-TX50-0025R                             |
|              |                   |                        |                | 4mm² / 40A                      | PC5-SX50-0040R                 | PC5-TX50-0040R                             |

\*Max. nominal voltage 50 VAC



PC2, Dimensions ± 5mm



PC4, Dimensions ± 5mm

## Plug/inverted plug, bent, push & pull

| Type<br>Size | No. Pins<br>(P&E) | Pin Ø (mm)<br>Max. Amp | Weight<br>(kg) | Cross Section mm²<br>/ Rec. Amp | Plug Male Pins<br>Product Code | Inv. plug<br>Femal Contact<br>Product Code |
|--------------|-------------------|------------------------|----------------|---------------------------------|--------------------------------|--------------------------------------------|
| 4            | 24                | 3mm / 40A              | 1,8            | 1,5mm² / 20A                    | PC4-SX24-0015                  | PC4-TX24-0015                              |
|              |                   |                        |                | 2,5mm² / 30A                    | PC4-SX24-0025                  | PC4-TX24-0025                              |
|              |                   |                        |                | 4mm² / 40A                      | PC4-SX24-0040                  | PC4-TX24-0040                              |
| 4            | 30                | 3mm / 40A              | 1,8            | 1,5mm² / 20A                    | PC4-SX30-0015                  | PC4-TX30-0015                              |
|              |                   |                        |                | 2,5mm² / 30A                    | PC4-SX30-0025                  | PC4-TX30-0025                              |
|              |                   |                        |                | 4mm² / 40A                      | PC4-SX30-0040                  | PC4-TX30-0040                              |
| 4            | 37                | 3mm / 40A              | 2,0            | 1,5mm² / 20A                    | PC4-SX37-0015                  | PC4-TX37-0015                              |
|              |                   |                        |                | 2,5mm² / 30A                    | PC4-SX37-0025                  | PC4-TX37-0025                              |
|              |                   |                        |                | 4mm² / 40A                      | PC4-SX37-0040                  | PC4-TX37-0040                              |
| 5            | 50                | 3mm / 40A              | 4,4            | 1,5mm² / 20A                    | PC5-SX50-0015                  | PC5-TX50-0015                              |
|              |                   |                        |                | 2,5mm² / 30A                    | PC5-SX50-0025                  | PC5-TX50-0025                              |
|              |                   |                        |                | 4mm² / 40A                      | PC5-SX50-0040                  | PC5-TX50-0040                              |

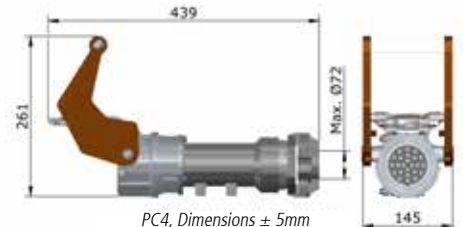


PC5, Dimensions ± 5mm

## Connector/inverted connector, push & pull

| Type<br>Size | No. Pins<br>(P&E) | Pin Ø (mm)<br>Max. Amp | Weight<br>kg | Cross Section mm² /<br>Rec. Amp | Connector:Female<br>Product Code | Inv.Conenctor:<br>Male Pin<br>Product code |
|--------------|-------------------|------------------------|--------------|---------------------------------|----------------------------------|--------------------------------------------|
| 2            | 18                | 3mm / 40A              | 1,4          | 1,5mm² / 20Amp                  | PC2-RX18-0015                    | PC2-PX18-0015                              |
|              |                   |                        |              | 2,5mm² / 30Amp                  | PC2-RX18-0025                    | PC2-PX18-0025                              |
|              |                   |                        |              | 4mm² / 40Amp                    | PC2-RX18-0040                    | PC2-PX18-0040                              |
| 2            | 25*               | 3mm / 40A              | 1,4          | 1,5mm² / 20Amp                  | PC2-RX25-0015                    | PC2-PX25-0015                              |
|              |                   |                        |              | 2,5mm² / 30Amp                  | PC2-RX25-0025                    | PC2-PX25-0025                              |
|              |                   |                        |              | 4mm² / 40Amp                    | PC2-RX25-0040                    | PC2-PX25-0040                              |
| 4            | 24                | 3mm / 40A              | 3,5          | 1,5mm² / 20Amp                  | PC4-RX24-0015                    | PC4-PX24-0015                              |
|              |                   |                        |              | 2,5mm² / 30Amp                  | PC4-RX24-0025                    | PC4-PX24-0025                              |
|              |                   |                        |              | 4mm² / 40Amp                    | PC4-RX24-0040                    | PC4-PX24-0040                              |
| 4            | 30                | 3mm / 40A              | 3,5          | 1,5mm² / 20Amp                  | PC4-RX30-0015                    | PC4-PX30-0015                              |
|              |                   |                        |              | 2,5mm² / 30Amp                  | PC4-RX30-0025                    | PC4-PX30-0025                              |
|              |                   |                        |              | 4mm² / 40Amp                    | PC4-RX30-0040                    | PC4-PX30-0040                              |
| 4            | 37                | 3mm / 40A              | 3,6          | 1,5mm² / 20Amp                  | PC4-RX37-0015                    | PC4-PX37-0015                              |
|              |                   |                        |              | 2,5mm² / 30Amp                  | PC4-RX37-0025                    | PC4-PX37-0025                              |
|              |                   |                        |              | 4mm² / 40Amp                    | PC4-RX37-0040                    | PC4-PX37-0040                              |
| 5            | 50                | 3mm / 40A              | 7,8          | 1,5mm² / 20Amp                  | PC5-RX50-0015                    | PC5-PX50-0015                              |
|              |                   |                        |              | 2,5mm² / 30Amp                  | PC5-RX50-0025                    | PC5-PX50-0025                              |
|              |                   |                        |              | 4mm² / 40Amp                    | PC5-RX50-0040                    | PC5-PX50-0040                              |

\*Max. nominal voltage 50 VAC

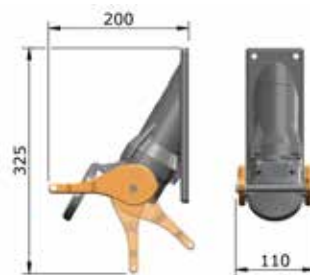


PC4, Dimensions ± 5mm

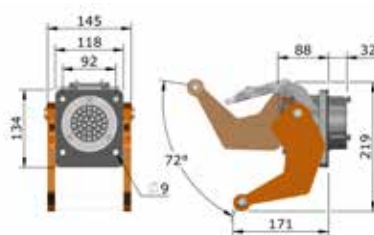
### Socket/Inverted socket, push & pull

| Type Size | (P&E+pil) | Pin Size (mm) phase | Weight (kg) | Cross Section mm <sup>2</sup> / Rec. Amp | Socket Female Contact Product Code | Inv. socket Male pin Product Code |
|-----------|-----------|---------------------|-------------|------------------------------------------|------------------------------------|-----------------------------------|
| 2         | 18        | 3                   | 1,4         | 1,5mm <sup>2</sup> / 20A                 | PC2-VX18-0015**                    | PC2-WX18-0015**                   |
|           |           | 3                   |             | 2,5mm <sup>2</sup> / 30A                 | PC2-VX18-0025**                    | PC2-WX18-0025**                   |
|           |           | 3                   |             | 4mm <sup>2</sup> / 40A                   | PC2-VX18-0040**                    | PC2-WX18-0040**                   |
| 2         | 18        | 3                   | 1,4         | 1,5mm <sup>2</sup> / 20A                 | PC2-VX18-0015R***                  | PC2-WX18-0015R***                 |
|           |           | 3                   |             | 2,5mm <sup>2</sup> / 30A                 | PC2-VX18-0025R***                  | PC2-WX18-0025R***                 |
|           |           | 3                   |             | 4mm <sup>2</sup> / 40A                   | PC2-VX18-0040R***                  | PC2-WX18-0040R***                 |
| 2         | 25*       | 3                   | 1,4         | 1,5mm <sup>2</sup> / 20A                 | PC2-VX25-0015**                    | PC2-WX25-0015**                   |
|           |           | 3                   |             | 2,5mm <sup>2</sup> / 30A                 | PC2-VX25-0025**                    | PC2-WX25-0025**                   |
|           |           | 3                   |             | 4mm <sup>2</sup> / 40A                   | PC2-VX25-0040**                    | PC2-WX25-0040**                   |
| 2         | 25*       | 3                   | 1,4         | 1,5mm <sup>2</sup> / 20A                 | PC2-VX25-0015R***                  | PC2-WX25-0015R***                 |
|           |           | 3                   |             | 2,5mm <sup>2</sup> / 30A                 | PC2-VX25-0025R***                  | PC2-WX25-0025R***                 |
|           |           | 3                   |             | 4mm <sup>2</sup> / 40A                   | PC2-VX25-0040R***                  | PC2-WX25-0040R***                 |
| 4         | 24        | 3                   | 3,5         | 1,5mm <sup>2</sup> / 20A                 | PC4-VX24-0015                      | PC4-WX24-0015                     |
|           |           | 3                   |             | 2,5mm <sup>2</sup> / 30A                 | PC4-VX24-0025                      | PC4-WX24-0025                     |
|           |           | 3                   |             | 4mm <sup>2</sup> / 40A                   | PC4-VX24-0040                      | PC4-WX24-0040                     |
| 4         | 30        | 3                   | 3,5         | 1,5mm <sup>2</sup> / 20A                 | PC4-VX30-0015                      | PC4-WX30-0015                     |
|           |           | 3                   |             | 2,5mm <sup>2</sup> / 30A                 | PC4-VX30-0025                      | PC4-WX30-0025                     |
|           |           | 3                   |             | 4mm <sup>2</sup> / 40A                   | PC4-VX30-0040                      | PC4-WX30-0040                     |
| 4         | 37        | 3                   | 3,6         | 1,5mm <sup>2</sup> / 20A                 | PC4-VX37-0015                      | PC4-WX37-0015                     |
|           |           | 3                   |             | 2,5mm <sup>2</sup> / 30A                 | PC4-VX37-0025                      | PC4-WX37-0025                     |
|           |           | 3                   |             | 4mm <sup>2</sup> / 40A                   | PC4-VX37-0040                      | PC4-WX37-0040                     |
| 5         | 50        | 3                   | 7,8         | 1,5mm <sup>2</sup> / 20A                 | PC5-VX50-0015                      | PC5-WX50-0015                     |
|           |           | 3                   |             | 2,5mm <sup>2</sup> / 30A                 | PC5-VX50-0025                      | PC5-WX50-0025                     |
|           |           | 3                   |             | 4mm <sup>2</sup> / 40A                   | PC5-VX50-0040                      | PC5-WX50-0040                     |

\*Max. nominal voltage 50VAC; \*\*30 degree inclined; \*\*\* straight 900



PC2, Dimensions ± 5mm



PC4, Dimensions ± 5mm

### Cable gland code for size 2 plug/connector

| Metric       | Cable outer | PG           | Cable outer |
|--------------|-------------|--------------|-------------|
| Cable Glands | Ø (mm)      | Cable Glands | Ø (mm)      |
| M12 x1,5     | 3-6,5       | 11           | 5-10        |
| M16 x1,5     | 5-10        | 13,5         | 6-12        |
| M20 x1,5     | 6-12        | 16           | 10-14       |
| M25 x1,5     | 11-17       | 21           | 13-18       |
| M32 x1,5     | 15-21       | 29           | 18-25       |
| M40 x1,5     | 19-28       | 36           | 22-32       |
| M50 x1,5     | 28-38       | 42           | 32-38       |
| M63 x1,5     | 34-44       | 48           | 37-44       |









## POWER UNITS

Cavotec Power Units are used in the harshest of conditions over many years with minimal downtime or service requirements. Only high quality components are used, and all units are equipped with Cavotec power connector sockets that allow safe and simple connection.

All Cavotec Power Units are made with hot-dipped galvanised or stainless steel AISI316, and conform to the following standards, where applicable:

- IEC 60947 - standard regarding low-voltage circuit breakers
- IEC 62271 - standard regarding low-voltage circuit breakers
- SS-EN\_61439 - Low-voltage switchgear and controlgear assemblies
- IEC 60204 - Machinery Directive, CE
- IEC 60529 - standards for protection against dust, water at minimum mechanical load



## Product features

### Galvanized steel (Hot-dip) Domex

- Exceptional strength and rugged durability
- Cost effective enclosure solutions
- High level of corrosion resistance due to zinc coating

### Stainless steel AISI.316 (acid resistant)

- Superior corrosion resistance
- Excellent chemical protection
- Type 316 is durable, clean, weld and finish
- Pickling required to avoid surface corrosion

### Advantage modular encloser system

- Short lead-time
- Quality
- Costs-effective
- Several configurations
- Flexible
- 3mm hot dip galvanized steel
- Different flange opening
- Different cable glands
  - Attaching and secure end of cable
  - Provider of strain relief
  - EMC
  - Sealing cables
  - Material: plastic; brass, nickel plated; aluminium; stainless steel
- Type of cable glands: standard; EMC; FL21; strain relief

### Applications:

- Electrified RTGs, STS cranes and other electrified cranes
- Boomers and other equipment in mining and tunnelling applications
- Mobile generators, transformer oil filtration, steel mills, etc.

### Indicating lamps

- Indicate phase sequence
- Indicate trip/power on / power off
- Warning signal

### Buzzer

- Sound indicating for power ON/trip

### Emergency stop

- Block all power inside power consuming box

### Micro switch

- Circuit breaker when doors accidentally opens

### Heating cable

- Self regulating heating cable to regulate the cabinet temperature

### Fiber optics

- Signal and communication transporter

### Volt / Amp meters

- Display volt/amp consumed or used

### Pressure relief valve

- Reduce pressure inside cabinet

### Eye bolt

- Lifting PU and JB easier

## Product documentation

### Test certificate

- Overall inspection
- Assembly
- Mating test
- Electrical test

### As build drawing

- Quote drawing approved by customer
- Always ends with file extension /B

### Circuit diagram

- According to customers requirement
- File extension is /C

### Spare part list

- Content of ordered item
- Part number, description, amount
- File extension is /A

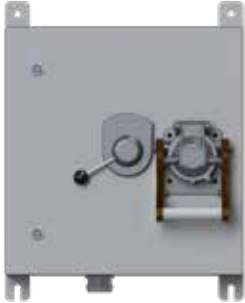
### Internal components specification

- Suppliers special specification

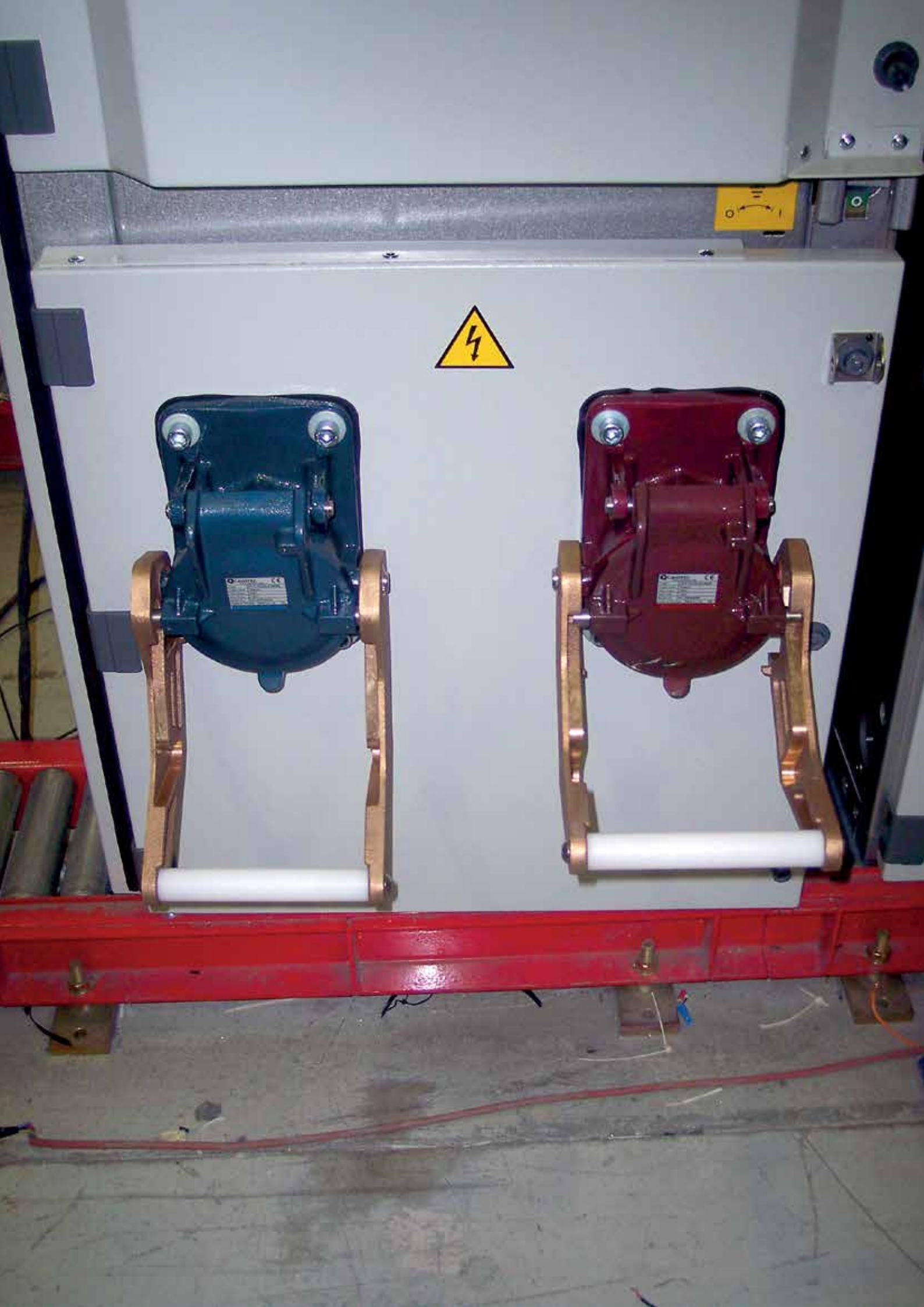
### User/Safety manual

- Maintenance and operating document

## Power Units product overview

|                           | Wall Mounted Power Unit                                                           |                                          |                                                                                   |                                          | Ground Mounted Power Unit                                                                                                                                                                                              |                                                                                     |                                                    |                                                    |
|---------------------------|-----------------------------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------|
| Interlocking              | Mechanical                                                                        |                                          | Electrical                                                                        |                                          | Electrical                                                                                                                                                                                                             |                                                                                     |                                                    |                                                    |
|                           |  |                                          |  |                                          |                                                                                                                                     |                                                                                     |                                                    |                                                    |
| Application               | Ports & Maritime<br>Airports & Industry                                           |                                          | Ports & Maritime<br>Airports & Industry                                           |                                          | Ports & Maritime                                                                                                                                                                                                       |                                                                                     |                                                    |                                                    |
| Standards & Norms         | IEC60309, IEC60529, SS-EN_61439                                                   |                                          | IEC60309, IEC60529, SS-EN_61439                                                   |                                          | IEC60309, IEC60529, SS-EN_61439                                                                                                                                                                                        |                                                                                     |                                                    |                                                    |
| Cabinet material          | Stainless steel 316                                                               |                                          | Stainless steel 316 or galvanized steel                                           |                                          | Stainless steel 316                                                                                                                                                                                                    |                                                                                     |                                                    |                                                    |
| Ingress protection        | IP66                                                                              |                                          | IP56                                                                              |                                          | IP56                                                                                                                                                                                                                   |                                                                                     |                                                    |                                                    |
| Optional cable glands     | Garø (28-60mm)<br>M50<br>M63<br>M75                                               |                                          | Garø (28-60mm)<br>M50<br>M63<br>M75                                               |                                          | Various options                                                                                                                                                                                                        |                                                                                     |                                                    |                                                    |
| Features                  | Load breaker, fuses, Cavotec Push&Pull Socket                                     |                                          | MCCB with overload and short circuit, UVT, Cavotec Push&Pull Socket               |                                          | Fiber optics, Kirk Key, MCCB with overload and short circuit, UVT, Earth fault relay, Indication lamps, Buzzer, Emergency stop, Door micro switch, lifting rings, Different socket placement, Cavotec Push&Pull Socket |                                                                                     |                                                    |                                                    |
| Nr of sockets             | 1                                                                                 |                                          | 1                                                                                 |                                          | 1,2,4                                                                                                                                                                                                                  | 1,2,4                                                                               | 1,2,3                                              | 1,2,3                                              |
| Nr of pins (+2 pilots)    | 4+2                                                                               | 5+2                                      | 4+2                                                                               | 5+2                                      | 4+2                                                                                                                                                                                                                    | 4+2                                                                                 | 4+2                                                | 4+2                                                |
| Max Voltage               | 690V or 1000V                                                                     | 690V or 1000V                            | 690V or 1000V                                                                     | 690V or 1000V                            | 400V                                                                                                                                                                                                                   | 1000V                                                                               | 7,2kV                                              | 12kV                                               |
| Max current - Socket type | 160A-X4<br>200A-X4<br>250A-X5<br>400A-X5                                          | 125A-X4<br>160A-X4<br>250A-X5<br>400A-X5 | 160A-X4<br>200A-X4<br>250A-X5<br>400A-X5                                          | 160A-X4<br>200A-X4<br>250A-X5<br>320A-X5 | 400A-X5 right<br>400A-2x X5 right<br>400A-2x X5 left<br>400A-4x X5<br>630A-X6 right                                                                                                                                    | 400A-X5 right<br>400A-2x X5 right<br>400A-2x X5 left<br>400A-4x X5<br>630A-X6 right | 200A-X5 left<br>250A-2x X5 left<br>250A-3x X5 left | 200A-X5 left<br>250A-2x X5 left<br>250A-3x X5 left |







# Wall mounted/ Mechanical interlock

## Power Units range

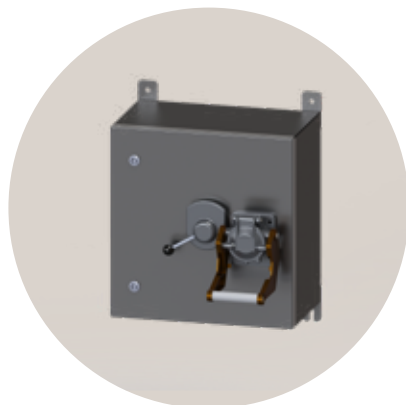
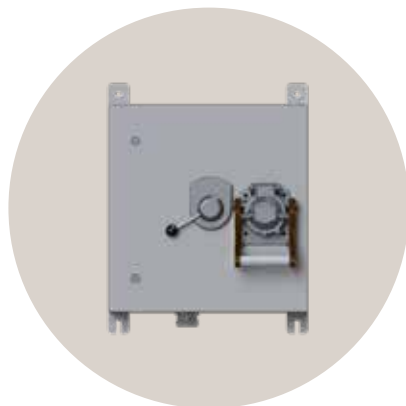
### Applications:

- Boomers and other equipment in mines or in tunnel construction
- Cranes in ports
- Various applications in power plants (transformer oil filtration, etc.)



### Product features

- Protection class for connected plug and socket, or plug or socket with cover closed: IP66
- Standard ambient temperature: -25°C to +70°C (-13°F to + 158°F)
- Socket with integrated cover operated by the Push & Pull arms
- Socket housing material: Marine grade aluminium ISO 3522
- Push & Pull arm material: Bronze ISO 1338:1977
- All contacts using Cavotec MWT system
- Separate cable terminals allowing fast and easy exchange of contacts
- Cable terminals for crimping with hexagonal crimping tool only
- Contacts and cable terminal material: silver plated brass
- Standard insulator material: injection molded PPO
- All hardware in stainless steel
- High quality gaskets and sealings with a minimum life span of 10 years
- External handle on the cabinet door to operate the mechanical interlock
- Connection to terminal ground on mounting plate.
- Label with serial number placed by socket
- Wall mounted
- IP 66
- PC4 Cabinet size: 480x500x250mm<sup>2</sup>
- PC5 Cabinet size: 580x600x300mm<sup>2</sup>
- Cabinet material: 2mm stainless acid proof steel

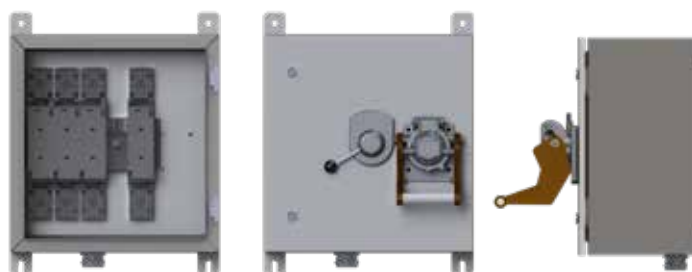


## Power Units range

| Int. Fuses | Nr of Pins (P&E-Pilot) | Load Breaker/ Internal cabling | Max Amp | Cabinet Material | 690V Female Socket |
|------------|------------------------|--------------------------------|---------|------------------|--------------------|
| No         | 4+2                    | 200A/70mm <sup>2</sup>         | 200A    | 2mm Stainless    | PC4-MX04-0762      |
| No         | 4+2                    | 250A/95mm <sup>2</sup>         | 250A    | 2mm Stainless    | PC5-MX04-9562      |
| No         | 4+2                    | 400A/120mm <sup>2</sup>        | 400A    | 2mm Stainless    | PC5-MX04-1262      |
| No         | 5+2                    | 160A/70mm <sup>2</sup>         | 200A    | 2mm Stainless    | PC4-MX05-0762      |
| No         | 5+2                    | 250A/95mm <sup>2</sup>         | 250A    | 2mm Stainless    | PC5-MX05-9562      |
| No         | 5+2                    | 400A/120mm <sup>2</sup>        | 320A    | 2mm Stainless    | PC5-MX05-1262      |
| Yes        | 5+2                    | 200A/50mm <sup>2</sup>         | 200A    | 2mm Stainless    | PC4-MX05-0525/5    |
| Yes        | 5+2                    | 400A/120mm <sup>2</sup>        | 315A    | 2mm Stainless    | PC5-MX05-12052/7   |

## Cable gland code

| Cable Gland               |                            |
|---------------------------|----------------------------|
| Bottom mounted            | Top mounted                |
| /G (Garo 28-60mm cable Ø) | /GT (Garo 28-60mm cable Ø) |
| /M5 (M50 28-38mm cable Ø) | /M5T (M50 28-38mm cable Ø) |
| /M6 (M63 37-44mm cable Ø) | /M6T (M63 37-44mm cable Ø) |
| /M7 (M75 40-58mm cable Ø) | /M7T (M75 40-58mm cable Ø) |



## Optional features

- Self regulating heating cable
- Control lamps in red, green, yellow or blue to indicate power on, power off, MCCB trip or other events
- Pressure valve and handle protection for mine blasts



## Power Unit Example

- 690V
  - 400A
  - 2mm Stainless Steel
  - Cabinet size 580x600x300mm
  - X5 Female socket Push & Pull
  - Cable Gland: Garo, Bottom mounted
  - IP66
- Article nr. PC5-MX04-1262/G  
Please contact your local Cavotec sales office for quotation



# Wall mounted/ Electrical interlock

## Power Units range

### Applications:

- Boomers and other equipment in mines or in tunnel construction
- Cranes in ports
- Various applications in power plants (transformer oil filtration, etc.)



### Product features

- Protection class for connected plug and socket, or plug or socket with cover closed: IP56
- Standard ambient temperature: -25°C to +70°C (-13°F to + 158°F)
- Socket with integrated cover operated by the Push & Pull arms
- Socket housing material: Marine grade aluminium ISO 3522
- Push & Pull arm material: Bronze ISO 1338:1977
- All contacts using Cavotec MWT system
- Separate cable terminals allowing fast and easy exchange of contacts
- Cable terminals for crimping with hexagonal crimping tool only
- Contacts and cable terminal material: silver plated brass
- Standard insulator material: injection molded PPO
- All hardware in stainless steel
- High quality gaskets and sealings with a minimum life span of 10 years
- External handle on the cabinet door to operate the electrical interlock
- Connection to terminal ground on mounting plate
- Label with serial number placed by socket
- Wall mounted
- IP 56
- 690V Cabinet size: 750x380x250mm
- 1000V Cabinet size: 1000x380x250mm
- Cabinet material: 3mm galvanized steel or 2mm stainless acid proof steel

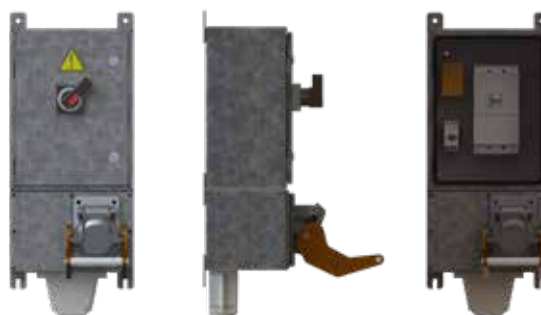


## Power Units range

| Nr of Pins<br>(P&E-Pilot) | MCCB Size/<br>Internal cabling | Max Amp | Cabinet Material | 690V<br>Female Socket | 1000V<br>Female Socket |
|---------------------------|--------------------------------|---------|------------------|-----------------------|------------------------|
| 4+2                       | 200A/70mm <sup>2</sup>         | 200A    | 3mm Galvanized   | PC4-AX04-0760         | PC4-AX04-0790          |
|                           |                                |         | 2mm Stainless    | PC4-AX04-0762         | PC4-AX04-0792          |
| 4+2                       | 250A/95mm <sup>2</sup>         | 250A    | 3mm Galvanized   | PC5-AX04-9560         | PC5-AX04-9590          |
|                           |                                |         | 2mm Stainless    | PC5-AX04-9562         | PC5-AX04-9592          |
| 4+2                       | 400A/120mm <sup>2</sup>        | 400A    | 3mm Galvanized   | PC5-AX04-1560         | PC5-AX04-1590          |
|                           |                                |         | 2mm Stainless    | PC5-AX04-1562         | PC5-AX04-1592          |
| 5+2                       | 200A/70mm <sup>2</sup>         | 200A    | 3mm Galvanized   | PC4-AX05-0760         | PC4-AX05-0790          |
|                           |                                |         | 2mm Stainless    | PC4-AX05-0762         | PC4-AX05-0792          |
| 5+2                       | 250A/95mm <sup>2</sup>         | 250A    | 3mm Galvanized   | PC5-AX05-9560         | PC5-AX05-9590          |
|                           |                                |         | 2mm Stainless    | PC5-AX05-9562         | PC5-AX05-9592          |
| 5+2                       | 400A/120mm <sup>2</sup>        | 320A    | 3mm Galvanized   | PC5-AX05-1560         | PC5-AX05-1590          |
|                           |                                |         | 2mm Stainless    | PC5-AX05-1562         | PC5-AX05-1592          |

## Cable gland code

| Cable Gland               |                            |
|---------------------------|----------------------------|
| Bottom mounted            | Top mounted                |
| /G (Garo 28-60mm cable Ø) | /GT (Garo 28-60mm cable Ø) |
| /M5 (M50 28-38mm cable Ø) | /M5T (M50 28-38mm cable Ø) |
| /M6 (M63 37-44mm cable Ø) | /M6T (M63 37-44mm cable Ø) |
| /M7 (M75 40-58mm cable Ø) | /M7T (M75 40-58mm cable Ø) |



## Optional features

- Self regulating heating cable
- Control lamps in red, green, yellow or blue to indicate power on, power off, MCCB trip or other events
- Pressure valve and handle protection for mine blasts
- IP 66 with special rotary handle



## Power Unit example

- 690V
  - 400A
  - 3mm Galvanized Steel
  - Cabinet size 750x380x250mm
  - X5 Female socket Push & Pull
  - Cable Gland: Garo, Single Bottom
  - IP56
- Article nr. PC5-AX04-1560/G  
Please contact your local Cavotec sales office for quotation





# Ground mounted/ Electrical interlock

## Power Units range

### Applications:

- Electrified RTG runs in ports and terminals



### Product features

- Protection class for connected plug and socket, or plug or socket with cover closed: IP56
- Standard ambient temperature: -25°C to +70°C (-13°F to + 158°F)
- Socket with integrated cover operated by the Push & Pull arms
- Socket housing material: Marine grade aluminium ISO 3522
- Push & Pull arm material: Bronze ISO 1338:1977
- All contacts using Cavotec MWT system
- Separate cable terminals allowing fast and easy exchange of contacts
- Cable terminals for crimping with hexagonal crimping tool only
- Contacts and cable terminal material: silver plated brass
- Standard insulator material: injection molded PPO
- All hardware in stainless steel
- High quality gaskets and sealings with a minimum life span of 10 years
- External handle on the cabinet door to operate the electrical interlock
- Connection to terminal ground on mounting plate
- Label with serial number placed by socket
- Ground mounted
- IP 56
- Available in 4 configurations: 400V, 1kV, 7,2kV and 12kV
- Cabinet material: 2mm or 3mm stainless acid proof steel



**400V**

| Nr of Pins<br>(P&E-Pilot) | Nr of Sockets | MCCB Size/<br>Internal cabling | Max Amp | 400V<br>Female Socket |
|---------------------------|---------------|--------------------------------|---------|-----------------------|
| 4+2                       | 1             | 400A/120mm <sup>2</sup>        | 400A    | PC5-AX04-1274         |
| 4+2                       | 2 Left side   | 400A/120mm <sup>2</sup>        | 400A    | PC5-AX04-155314       |
| 4+2                       | 2 Right side  | 400A/120mm <sup>2</sup>        | 400A    | PC5-AX04-15534        |
| 4+2                       | 2             | 400A/120mm <sup>2</sup>        | 400A    | PC5-AX04-15524        |
| 4+2                       | 4             | 200A/95mm <sup>2</sup>         | 250A    | PC5-AX04-09944        |
| 4+2                       | 1             | 800A/240mm <sup>2</sup>        | 630A    | PC6-AX04-24421        |

**1kV**

| Nr of Pins<br>(P&E+Pilot) | Nr of Sockets | MCCB Size/<br>Internal cabling | Max Amp | 1000V<br>Female Socket |
|---------------------------|---------------|--------------------------------|---------|------------------------|
| 4+2                       | 1             | 400A/120mm <sup>2</sup>        | 400A    | PC5-AX04-1275          |
| 4+2                       | 2 Left side   | 400A/120mm <sup>2</sup>        | 400A    | PC5-AX04-15531         |
| 4+2                       | 2 Right side  | 400A/120mm <sup>2</sup>        | 400A    | PC5-AX04-1553          |
| 4+2                       | 2             | 400A/120mm <sup>2</sup>        | 400A    | PC5-AX04-1552          |
| 4+2                       | 4             | 200A/95mm <sup>2</sup>         | 250A    | PC5-AX04-09954         |
| 4+2                       | 1             | 630A/240mm <sup>2</sup>        | 630A    | PC6-AX04-3076          |
| 4+2+18ch FO               | 3             | 250A/70mm <sup>2</sup>         | 250A    | PC5-AX04-3151FO18      |

**7,2kV**

| Nr of Pins<br>(P&E+Pilot) | Nr of Sockets | Load Breaker Size/<br>Internal cabling | Max Amp | 7200V<br>Female socket |
|---------------------------|---------------|----------------------------------------|---------|------------------------|
| 4+2                       | 1             | 630A/50mm <sup>2</sup>                 | 200A    | PC5-AX04-K0555         |
| 4+2                       | 2             | 630A/35mm <sup>2</sup>                 | 125A    | PC5-AX04-K0301/M6      |
| 4+2                       | 3             | 630A/35mm <sup>2</sup>                 | 125A    | PC5-AX04-K0201/M6      |

**12kV**

| Nr of Pins<br>(P&E+Pilot) | Nr of Sockets | MCCB Size/<br>Internal cabling | Max Amp | 12000V<br>Female socket |
|---------------------------|---------------|--------------------------------|---------|-------------------------|
| 4+2                       | 1             | 630A/50mm <sup>2</sup>         | 200A    | PC6-AX04-L0505          |
| 4+2                       | 2             | 630A/70mm <sup>2</sup>         | 125A    | PC6-AX04-L0201/M6       |
| 4+2                       | 3             | 630A/70mm <sup>2</sup>         | 125A    | PC6-AX04-L0301/M6       |

**Optional features**

- Self regulating heating cable
- Control lamps in red, green, yellow or blue to indicate power on, power off, MCCB trip or other events
- Pressure valve and handle protection for mine blasts
- IP 66 with special rotary handle
- Fiber optics available
  - Integrated 4 and 8 channels
  - External 4, 6, 8, 12 and 24 channels



#### **2 sockets left side**

- 1000V
- 400A
- 2 x 4pin socket, 2 pilots
- Emergency stop
- Micro switch for door
- Earth terminal
- Green power on indicator
- Red power off indicator
- Yellow trip indicator
- Buzzer
- Lifting rings
- Vermin ventilation

Article number: PC5-AX04-15531  
Please contact your local Cavotec Sales representative for more information



#### **1 socket 7,2kV**

- 7,2kV
- 200A
- 4pin socket, 2 pilots
- Emergency stop
- Micro switch for door
- Earth terminal
- Green power on indicator
- Red power off indicator
- Yellow trip indicator
- Buzzer
- Lifting rings

Article number: PC5-AX04-K0555  
Please contact your local Cavotec Sales representative for more information



#### **4 sockets**

- 1000V
- 400A
- 4 x 4pin socket, 2 pilots
- Emergency stop
- Micro switch for door
- Earth terminal
- Green power on indicator
- Red power off indicator
- Yellow trip indicator
- Buzzer
- Lifting rings

Article number: PC5-AX04-09954  
Please contact your local Cavotec Sales representative for more information



#### **3 sockets with 18ch FO**

- 18ch Fiber Optics
- 1kV
- 250A
- 4pin socket, 2 pilots
- Emergency stop
- Micro switch for door
- Earth terminal
- Green power on indicator
- Red power off indicator
- Yellow trip indicator
- Buzzer
- Lifting rings

Article number: PC5-AX04-3151F018  
Please contact your local Cavotec Sales representative for more information

# After-sales service

*Cavotec's Services division helps customers to maximise the availability of their assets, reduce operating costs and extend equipment lifespan.*



With 70 service experts in more than 30 countries, Cavotec supports customers with a range of service offerings, including:

- inspection, training and preventive maintenance
- spare parts
- repair and replacement
- equipment renovation and upgrades

Furthermore, four service level agreements have been developed to support the maintenance of the 18,000 Cavotec units currently in service worldwide:

- Cavotec Care
- Cavotec Care Enhanced
- Cavotec Care Enhanced Plus
- Total Cavotec Care

## References

### Ports & Maritime:

ABB  
Schneider  
POLA  
POLB  
Port of Shenzhen  
PSA  
DPW  
Stockholm  
Ystad  
Trelleborg  
Gothenburg  
Helsinki  
Swedish Navy  
USCG  
Finnish Coast Guard  
Marseille  
Port of Georgia  
La Rochelle  
Port of Riga  
Prince Rupert  
NYK

### Airports:

Dubai Airport  
Pudong Airport  
Doha Airport  
Muscat Airport  
Ängelholm Airport  
Fornebu Airport  
Schipol Airport  
Fraport  
London Heathrow

### Mining & Tunnelling:

ABB  
LKAB Seden  
Outokumpu Finland  
Boliden Sweden  
Epiroc  
Hindustan Zinc Mine  
Skanska  
NCC  
Strabag  
Agnico Eagle  
Mo i Rana  
Minerar al Umrerar  
RWE  
Vattenfall  
Vale  
Antapaccay  
Barrick Gold Mine  
Cosapi Minería  
Antamina  
FAM  
Spie Maroc

### General Industry:

ABB  
Tata Steel  
Outokumpu  
Bombardier  
UK rail track  
Infra Nord  
Thyssen Krupp  
Mittal Steel  
Kiwi Rails  
Siderar  
Siderca  
Bao Steel  
Nippon Steel



## We are present in:

Australia  
China  
Denmark  
Finland  
France

Germany  
Hong Kong  
India  
Italy  
The Netherlands

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Switzerland  
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UK  
USA



[cavotec.com](http://cavotec.com)

*Disclaimer: specifications are subject to change without notice.*