

Marechal's DECONTACTORTM ideally suited



Connect with confidence & disconnect with safety

Thanks to its integral load-break isolating switch mechanism, the decontactor socket allows users to **connect and disconnect electrical equipment safely** up to 250 A: a release button cuts the power and de-energises the plug before it can be removed. Even in the event of a short-circuit, the decontactor guarantees user safety and eliminates any electrocution hazard.

Provides automatic watertight seal

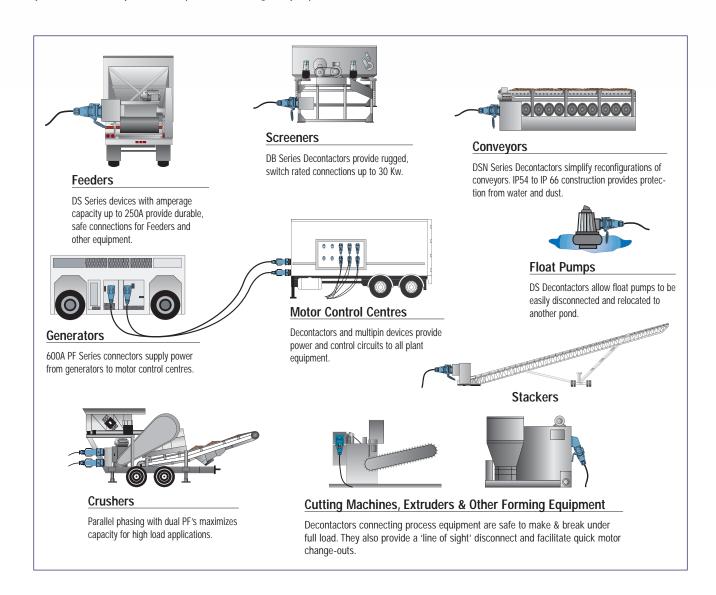
Our decontactors are **automatically** watertight just by inserting the plug or by closing the socket lid when you remove the plug. There is no need to turn any sealing ring!

Reduce downtime

When decontactors are used in lieu of hard-wiring, a fitter can replace a motor safely and efficiently. Operating costs are reduced as re-wiring on site is no longer necessary.

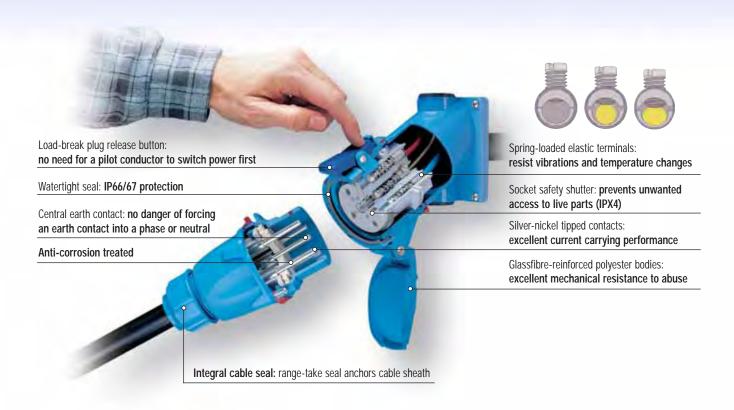
Ensure long working life in harsh environments

The decontactor butt contacts have silver-nickel tips which are an excellent conductor, **corrosion-resistant**. Its heavy duty design is shock resistant (Iko8/Iko9) and environmentally sound (-40 °C to +60 °C). These are true fit-and-forget connectors allowing you to save money and make product, not regularly replace connectors.

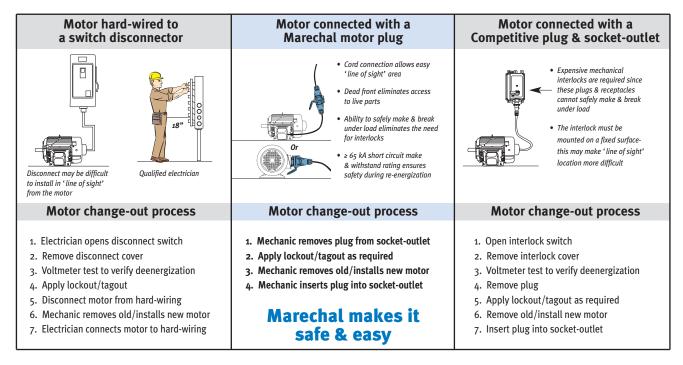


to the mining and tunnelling industries

At the heart of Marechal's technology



Safety & code compliance: Marechal vs. the competition





Focus on Mining and Tunnelling plants

Decontactors are ideal for...



Power distribution

The mine and quarry environments combine mechanical shock, climatic conditions and dustwith the distribution of electric power and frequents disconnections.

Decontactor advantage

Marechal decontactors' metal or glassfibre reinforced polyester housings resist shocks. Their silver-nickel contacts are corrosion resistant and withstand temperature changes. When disconnected, the dead front prevents exposure to live parts.



Conveyor connections

Conveyors and other mobile equipment need high power connections for motors. Disconnection under load can be a problem.

Decontactor advantage

Decontactors' butt-contact technology provide a convenient line of sight disconnection and allow non electrical workers to safely make and break under load up to 250A without arc flash hazard.



High amperage equipment

Often plugs and sockets with high amperage are difficult to disconnect because of size and contact heating.



Marechal's PF series plugs and sockets can handle up to 600A/1000V. Frictionless butt-contact technology allows easy connection and disconnection and silver-nickel contact tips guarantee superior conductivity and reliability regardless of climatic conditions.



Pump power supply

Often pumps are hardwired for reasons of safety. Procedures to open junction boxes are lengthy; downtime can be very long if the pump is far away from the main production site and there's no electrician around.

Decontactor advantage

In case of breakdown, the pump or motor can be easily and safely disconnected and replaced by a multi-skilled worker.



Motor or process control

Traditional pin and sleeve multipin connectors are not designed for frequent connection and disconnection that are required for mobile equipments in mines and quarries.

Marechal technology for control connectors

Our butt contact technology allows frequent connection and disconnection and provide longterm, troublefree conductivity over time. Marechal technology also offers a keying system to avoid connection errors with connectors that look alike.



Process equipment connections

Some process equipment such as this concrete floor panel forming machine moves along the production line. It can be difficult to comply to safety rules and ensure reliability over time.

Decontactor advantage

The decontactor's integral load-break capability **simplifies disconnection procedures** and installation, saving time and money. Our keying system **any incorrect plugging in of** equipment.



Electrical mining machines

To power these heavy duty machines, connectors must be robust and resist humidity and corrosion as well as coping with frequent disconnection.



Our connectors' rugged casing materials, stainless steel hardware and silver-nickel contact surfaces ensure durability, corrosion resistance and long operating lives. For example, the silver-nickel contacts withstand wear and maintain excellent conductivity even when oxidized.



Ex environments

Due to possible presence of gases, some mines are classed as potentially explosive atmospheres.

Advantage decontactor – ATEX

Whether fixed supplies or mobile connections the DXN / DX decontactors are ATEX approved for use in such environments. Butt-contact technology makes them safe, reliable and compact. They are automatically waterproof when connected.

Product selection guide

(See our main catalogue for product details and part-numbers)

DECONTACTOR™: A WIDE RANGE OF PLUGS AND SOCKETS

Integral load-break isolating switch • Easy and safe to handle • Reliability and long service time thanks to silver-nickel butt-contact technology • Spring-assisted non-loosening terminals resist vibration and extreme temperatures from -40 °C to +60 °C • UV and corrosion resistant • for all cable diameters up to 1000 V a.c. and 250 V d.c.



DS DECONTACTORTM range

The DS decontactors are our widest range offering rated currents from 30 to 400 A. Polyester from 30 to 90 A and metal-bodied from 50 to 400A it provides the user with many options – padlocking, auxiliary contacts, etc. Each decontactor size accepts a wide range of cable diameter, which makes the DS range very appropriate for the long cables frequently used in mining and tunnelling industries.

- 5 sizes from 30 to 250 A with AC22/AC23 load-break capability
- robust design IKo8 (glassfibre reinforced polyester body), IKo9 (metal body)
- safety shutter on the socket to shield the contacts
- IP54/55 watertight automatically upon connection (IP66/67 optional)
- keying system with 24 positions to avoid incorrect connections
- wide range of metal and polyester boxes
- wide range metal, polyester and elastomer handles
- product up to 400 A also available without load-break capacity

DN DECONTACTORTM range

The DN decontactor was designed in 1953 but still is fully compliant with the most recent safety regulations. Its metal bodied rugged design remains a favourite with industries requiring robust connections. Each decontactor size accepts a wide range of cable diameter, which makes the DN range very appropriate for the long cables frequently used in mining and tunnelling industries.

- 5 sizes from 20 to 150 A with AC22 load-break capability
- metal casing IKo9 for harsh environments
- IP54/55 watertight automatically upon connection (IP66/67 optional)
- simple design for use in very dusty environments
- keying system with 16 positions to avoid incorrect connections
- wide range of metal boxes
- wide range metal, polyester and elastomer handles



Multipin connectors for control and power applications

6 sizes available for control applications with up to 37 contacts (From 5 to 30 A / 500 V a.c.)

3 sizes available for power applications with 7 contacts (Up to 150 A / 500 V a.c.)

- · auxiliary contacts optional
- · integral load-break isolating switch
- · easy and safe to handle
- reliability and long service time thanks to silver-nickel butt-contact technology
- spring-assisted non-loosening terminals resist vibration and temperature change
- UV and corrosion resistant
- service temperature range -40 °C to +60 °C.
- · keying system to avoid incorrect connections
- robust design IKo8 (glassfibre reinforced polyester body), IKo9 (metal body)
- automatic watertight (different IP ratings according to version)
- · wide range of metal and polyester boxes
- wide range metal, polyester and elastomer handles





PF High current plugs and sockets (315 to 600A)

- 5 sizes from 315 A to 600 A
- up to 1000 V a.c. or d.c.
- up to 8 pilot or auxiliary contacts
- easy and safe to handle with locking system
- reliability and long service time thanks to silver butt-contact technology
- corrosion resistant
- metal casing IKo9, durable in harsh environments
- IP66/67 watertight
- service temperature range -40 °C to +60 °C
- keying system with 7 to 10 positions to avoid incorrect connections.









This is more than a plug and socket

The DECONTACTOR™ is a plug and socket with an integral load-break isolating switch. Combining these functions into the same unit makes the decontactor a safe, reliable and compact disconnection device for motors and power supplies, saving you time and cost. It is the ideal electrical connector for the mining and tunnelling industries.



Innovation for safety and flexibility

For over fifty years, the Marechal decontactor has been known for safety and flexibility. With 7% revenue spent on R&D, we continue to innovate and offer the products to meet the varying needs of our customers.





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BECMA is an international association of manufacturers of butt-contact connectors. It is the only organisation that is able to guarantee that when a plug made by one member manufacturer is mated with a socket made by another complies with the European Low Voltage Directive.

BECMA oversees the compliance of mixed plugs and sockets between its members. www.becma.ch