

SELF-EJECTING DECONTACTOR™

N° 26e - Rev.: 0



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A manufacturer of products using the **marechal** technology.

GENERAL

The two parts of a DECONTACTOR™ are held together by a latch on the socket-outlet. The purpose of the self-ejecting DECONTACTOR™ is to release automatically this latch to avoid the breakages that occur when mobile appliances or vehicles are moved or driven away without being disconnected first.

INSTALLATION

Tension cord

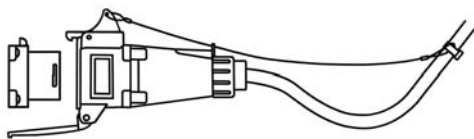
The release of the latch is performed by a tension cord. One end of this cord must be attached either to the flexible cable or to a suitable fixed point of the installation. The other end is attached to the latch-release mechanism.

⚠ The tension cord must be shorter than the flexible cable.

This mechanism comes in three different forms:

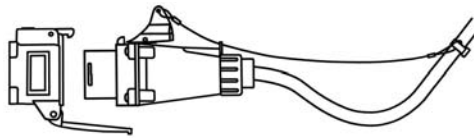
1 - Ejection of the connector

The retaining latch is directly activated by the tension cord in case of traction.



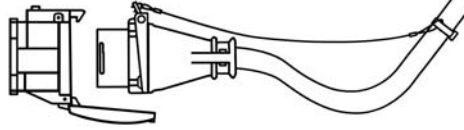
2 - Ejection of a small plug

A shark-fin mechanism is assembled between the plug top and its handle. It releases the retaining latch of the socket-outlet in case of traction on the tension cord.

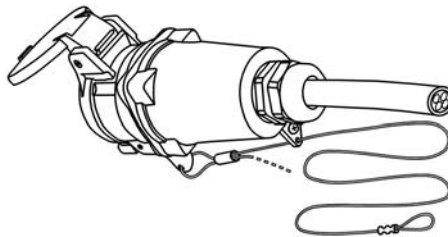


3 - Ejection of a large plug

A cam mechanism is assembled between the plug top and its handle. It releases the retaining latch of the socket-outlet in case of traction on the tension cord.



One of the ends of the tension cord is provided with a loop to be attached to the flexible cable or to a fixed point of the installation. A compression ferrule is supplied to loop the other end when the tension cord has been passed through the eyelet of the handle, if any, the ejection mechanism, and cut to the desired length.

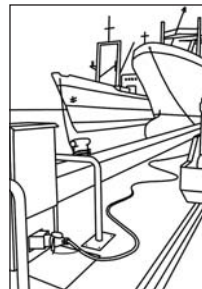


⚠ Determine the angle of pulling that may occur, depending on the particular site conditions and adjust the length of the tension cord accordingly. The difference in length between the cable and the tension cord depends on cable size and flexibility, and on the angle and speed at which the tension might be applied.

⚠ Consider all possible cases and perform tests before implementing the system.

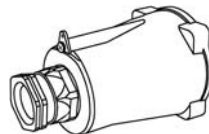
Pulling angle

At a very low speed, the eyelet allows an angle up to 70°. If the acceleration is high or in the absence of an eyelet, the angle may not go above 20°. The permissible pulling angle can be improved by having the fixed part of the self-ejecting DECONTACTOR™ mounted on a swivel box: under traction, the swivel box rotates to align with the pulling direction. Alternatively, an in-line self-ejecting DECONTACTOR™ can be used.



Handle with eyelet

For the smaller sizes, handles are available with an eyelet next to the cable entry. This eyelet guides the tension cord in such a way that the tension is applied to the release mechanism with an optimal angle.



Cable clamp

A nylon collar is supplied with the tension cord, to clamp the loop of the tension cord onto the flexible cable.

Drop

⚠ In all cases, care must be taken to avoid dropping the ejected part onto a hard surface as well as any dangerous swinging.

OPERATION

The socket-outlet is shielded by a protective lid preventing the entry of dust and moisture. This is held in the closed position by the retaining latch.

- 1 - To release and open the lid, lift the latch,
- 2 - align the plug/inlet catch with the socket-outlet retaining latch and push the mobile part fully home until it is held in place by the latch,
- 3 - to release the mobile part, pull on the tension cord. Check that the cover is properly closed.

MAINTENANCE

From time to time, the state of the tension cord, the cable clamp and the free motion of the ejection mechanism should be checked. Depending on prevailing conditions, the pitting of plug and socket-outlet contacts should be regularly monitored. In the event of serious damage, they should be replaced before their deterioration causes any damage to the product.

⚠ Any repair or service must be achieved with genuine **marechal** parts only.

RESPONSIBILITY

A **marechal** product must be used with a **marechal** complementary accessory only. MARECHAL ELECTRIC S.A.'s responsibility cannot be engaged in case **marechal** products would be associated with parts or components other than from **marechal**.

MARECHAL ELECTRIC S.A.'s responsibility is strictly limited to the obligations expressly agreed in its general sales conditions. Any penalty or indemnity provided herein will be considered as lump damages, redeeming from any other sanctions.

DECLARATION OF CONFORMITY

The DECONTACTOR™ uses the **marechal** technology. It has been designed, manufactured and controlled in a strict respect of the relevant international and European standards, laws and directives, and particularly of the European Low Voltage Directive 2006/95/CE. It bears the CE marking whenever applicable.

Note: The CE marking does not apply to spare parts and components supplied separately.

Whenever it is in the scope of the 2006/95/CE Directive:

We,
MARECHAL ELECTRIC S.A.,
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Declare that the DECONTACTOR™ satisfies the measures set in the European Low Voltage Directive 2006/95/CE and in the application decrees of Member States.

Saint Maurice
Quality Manager
MARECHAL ELECTRIC S.A.

MARECHAL ELECTRIC S.A. is a member of the international association, BECMA : the Butt-contact Electrical Connectors Manufacturers' Association.

