

# High Voltage electrical connections: 7 kV Single Pole Connector

**Robustness and high electrical performance**



- **7kV - 250 A**
- **Metal outer casing for use in harsh environments**
- **High performance insulating Teflon material**
- **Excellent conductivity fitted with corrosion-proof silver-nickel tipped butt contacts**
- **> 2000 (load) cycles**
- **IP66/IP67 watertight**
- **3-position mechanical locking system**
- **Optional electrical locking system**



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**MARECHAL**  
**electric**

# 7 kV High Voltage Connector

## High Voltage and High Intensity into a single pole connector



The Marechal™ 7 kV high voltage single pole connector provides solutions to many industrial applications, onshore connections for ships and as well as mines and quarries, requiring a reliable, durable and ergonomic power pole, to 7kV.

The technically advanced silver-nickel butt contact system assures high performance in terms of electrical operation: required dielectric strength and shock waves.

To secure the facilities, this unit is fitted with a 3-position mechanical locking:

- plug and socket-outlet connected
- socket-outlet with closed lid
- plug alone

A switch device to ensure switched off connection and disconnection security is also available as an option.

### ELECTRICAL FEATURES

■ <b>Rated voltage :</b>	7 kV Max
■ <b>Test voltage (inline connector version) :</b>	Dielectric : 20 kV short duration power for 1 minute - Shock waves : 52 kV LCIE tests according to IEC 62271-1 standard
■ <b>Permitted current range:</b>	250 A (please consult us for higher current)
■ <b>Polarity:</b>	Single pole with mechanical keying and visual coding preventing connection between different phases
■ <b>Conductors accepted:</b>	Power contact: from 70 mm <sup>2</sup> to 95 mm <sup>2</sup> flexible cable (please consult us for higher wiring) Earth continuity contact: 2 x 16 mm <sup>2</sup> flexible cable
■ <b>Optional switch device:</b>	6 A - 250 V positive safety switch, 2 x 1,5 mm <sup>2</sup> prewired

### CLIMATIC FEATURES

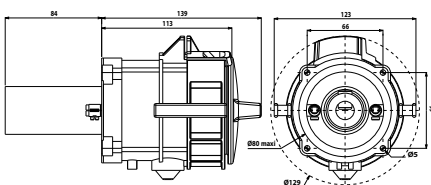
■ <b>Degree of protection:</b>	IP66/IP67 plug connected and socket-outlet lid closed (Inlet cap in option)
■ <b>Temperature range:</b>	From -40 °C to +100 °C
■ <b>Salt, Fog performance:</b>	200hrs according to NFC 20711 standard

### MECHANICAL FEATURES

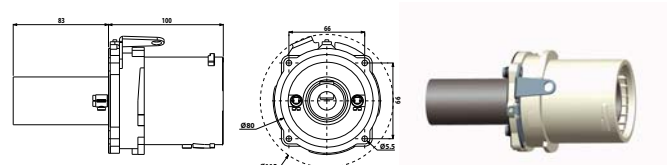
■ <b>Casing &amp; insulator:</b>	Metal casing, Stainless steel screws Isolator in Teflon
■ <b>Butt contacts:</b>	Copper alloy / brass with silver-nickel tips
■ <b>Contact protection:</b>	Tinning / Silvering
■ <b>Load cycles:</b>	More than 1000 cycles

### DIMENSIONS AND OPTIONS

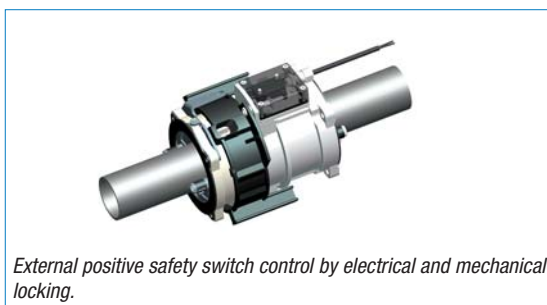
#### Socket-outlet



#### Inlet



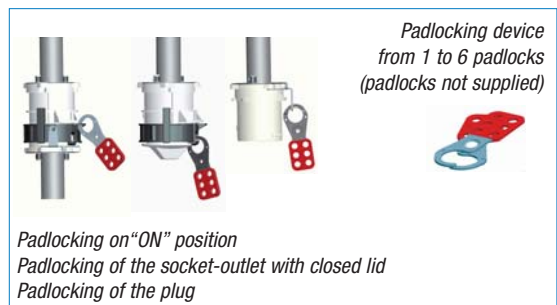
#### Switch device



#### Inlet cap



#### Padlocking



Accessories (sleeve, handle ...) available on request.