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

INDUSTRIAL EQUIPMENT - MINING AND QUARRYING
CONNECTION OF SHIPS DOCK

Find our complete product range online at www.marechal.com
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**

- **Rated voltage:** 7 kV Max
- **Test voltage (inline connector version):** Dielectric: 20 kV short duration power for 1 minute - Shock waves: 52 kV
- **Permitted current range:** 250 A (please consult us for higher current)
- **Polarity:** Single pole with mechanical keying and visual coding preventing connection between different phases
- **Conductors accepted:**
  - Power contact: from 70 mm² to 95 mm² flexible cable (please consult us for higher wiring)
  - Earth continuity contact: 2 x 16 mm² flexible cable
- **Optional switch device:** 6 A - 250 V positive safety switch, 2 x 1,5 mm² prewired

**CLIMATIC FEATURES**

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

**MECHANICAL FEATURES**

- **Casing & insulator:** Metal casing, Stainless steel screws
- **Butt contacts:** Copper alloy / brass with silver-nickel tips
- **Contact protection:** Tinning / Silvering
- **Load cycles:** More than 1000 cycles

**DIMENSIONS AND OPTIONS**

**Socket-outlet**

**Switch device**

External positive safety switch control by electrical and mechanical locking.

**Inlet**

**Inlet cap**

**Padlocking**

Padlocking device from 1 to 6 padlocks (padlocks not supplied)

Padlocking on “ON” position
Padlocking of the socket-outlet with closed lid
Padlocking of the plug

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