

MEDIUM VOLTAGE CONNECTIONS



ERTGs

ESL's ERTG Safety-interlocked, Fused Disconnect Cabinet provides safe power cord connections for Electrified Rubber Tire Gantries (ERTGs) at container terminals as well as for other medium-voltage cord-connected applications.

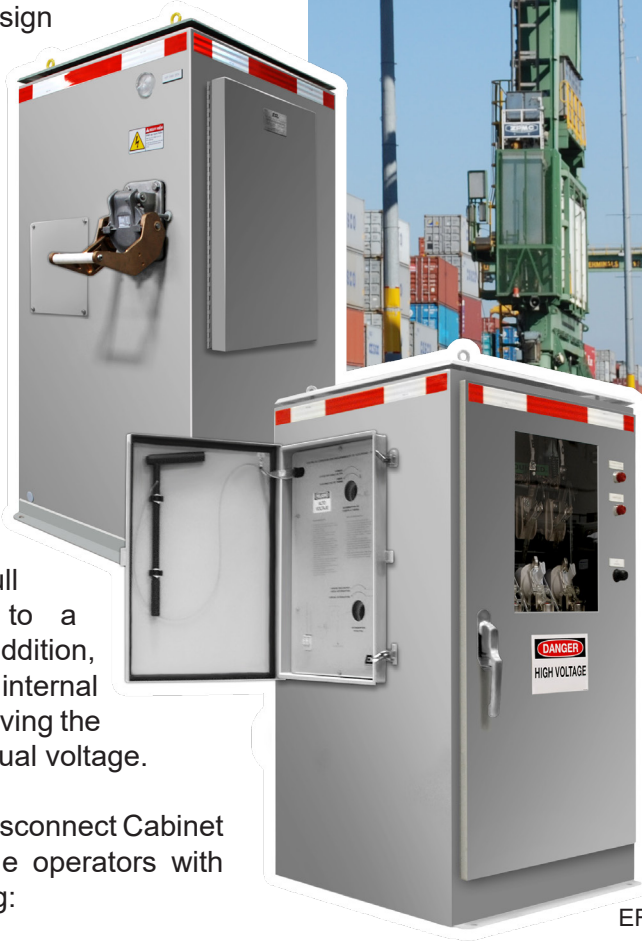
This unique, patented design allows multiple ERTG cabinets to be daisy-chained, reducing the number of costly medium voltage circuit breakers required upstream in the switch gear.

The Safety-interlocked Cabinet prevents operators from making or breaking electrical contacts under load without the need or use of kirk locks or kirk keys.

The disconnect assembly features a 7.2kV push & pull receptacle safety-interlocked to a medium voltage switch. In addition, a mechanically interlocked internal grounding switch prevents removing the plug prior to releasing any residual voltage.

The ERTG Safety-interlocked Disconnect Cabinet offers many features to provide operators with safety and ease of use including:

- Safety-interlocked 7.2kv marine grade receptacle
- Compact footprint
- Redundant electrical safety-interlock
- Mechanical fuse tripping
- Electrically interlocked door
- Internal cabinet light
- Indicator lights
- Cabinet heater
- Dead front
- Padlockable handle



ERTG Disconnect Cabinet



ERTG Connection Pedestal

SHIP TO SHORE POWER

Providing safe, proven technology that is durable for marine grade applications.

ESL's Commercial ship-to-shore power solutions provides innovative design and manufacturing of safety-interlocked marine grade applications for cruise, ferry, yacht marinas, commercial ports, and container ports. ESL offers comprehensive customized design solutions upon request and aims to provide customers with the absolute best in quality connection for marine environments.

Highlighted Commercial Port Solution Features:

- 12GA Type 304 stainless steel Type 4X, powder coated enclosure
- 320A 7.2kV shore power receptacles
- Earthing switch
- Fiber optic box
- Trapped key interlock

Highlighted Commercial Marina Solution Features:

- 12GA Type 304 stainless steel Type 3RX,
- Powder coated enclosure
- 200A 480VAC safety-interlocked outlets
- 125A 480VAC safety-interlocked outlets
- 63A 480VAC safety-interlocked outlets
- 50A 125/250VAC twist-lock receptacles
- 30A 125VAC twist-lock receptacles
- 20A 125VAC straight blade receptacles
- 250W anti-condensation heater



Commercial Shore Power Assembly Box

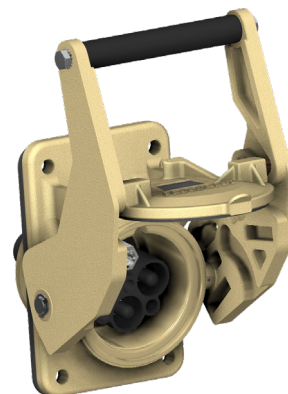
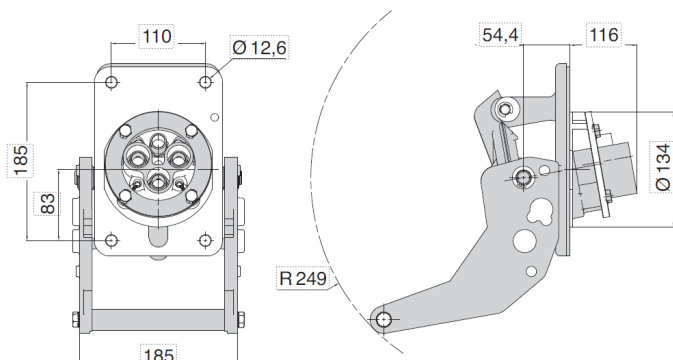
3PX5 MV - 7.2 kV - 350 A

The 3PX robustly designed PROCONNECT connectors are widely used for heavy duty Shore Power solutions in locations such as harbors and ports for travelling cranes, spreader beams, cruise, ferry and container terminals.

Nominal voltage : 6.6 kV
Max. voltage : 7.2 kV
Max. amperage : 350 A

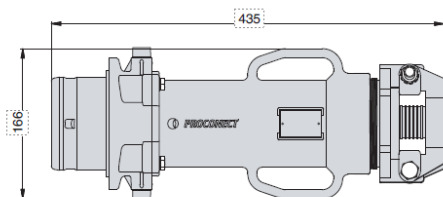
Impulse voltage (1,2 x 50 μ s) : 50 kV
AC withstand : 20 kV / 50Hz / 1 min rms
Fault rating : 16 kA

Socket



NB Poles	Amp. Max	Female (suppl.)	Invert. Insert	mm2	Contact	Weight (kg/Lb)
4 +3p	125	X5DF325MV	X5DM325MV	25	12	5.3 / 11.7
	160	X5DF335MV	X5DM335MV	35		
	200	X5DF350MV	X5DF350MV	50		
	250	X5DF370MV	X5DM370MV	70		
	320	X5DF395MV	X5DM395MV	95		
	350	X5DF312MV	X5DM312MV	120		
	350	X5DF315MV	X5DM315MV	150		

Straight Plug



NB Poles	Amp. Max	Male (receiver)	Inver. Insert	Section mm ²	Caliber Contact	Weight (kg/Lb)	Diam. Max Cable (mm)
4 +3p	125	X5DF325SMV	X5DM325SMV	25	12	5.3 / 11.7	80
	160	X5DF335SMV	X5DM335SMV	35			
	200	X5DF350SMV	X5DF350SMV	50			
	250	X5DF370SMV	X5DM370SMV	70			
	320	X5DF395SMV	X5DM395SMV	95			
	350	X5DF312SMV	X5DM312SMV	120			
	350	X5DF315SMV	X5DM315SMV	150			