

MELTRIC Switch-Rated Plugs & Receptacles for easier Gas Turbine Maintenance at Power Generation Facilities

Switch-Rated plugs allow quick disconnection of electrical cables located above gas turbines. Costs associated with maintenance of gas turbines (including roof removal) are reduced.



- Increase **Maintenance Efficiency**

Safely disconnect and connect loads and quickly service equipment without needing an electrician on site.

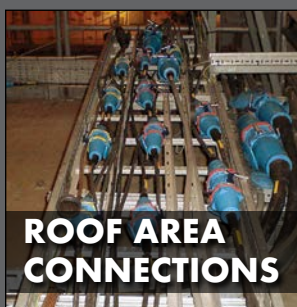
- Ensure **Arc Flash Protection**

Prevents exposure to arc flash and live parts, simplifies NEC/CEC and NFPA 70E/CSA Z462 compliance.

- Provide the **Safety of a Switch**

UL/CSA listed switch mechanism enables safe make and break of loads up to 200 A, 75 hp. Eliminates need for auxiliary switches.

Ideal for connecting power to . . .



ROOF AREA CONNECTIONS

To simplify turbine maintenance



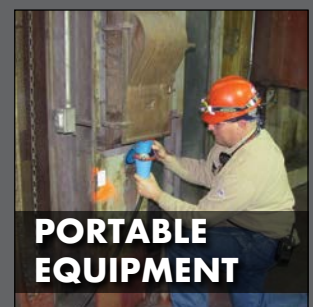
WELDING MACHINES

For arc flash protection



PUMPS

For easy motor changeouts
Simplifies NFPA 70E/CSA Z462 compliance



PORTABLE EQUIPMENT

For safe connect and disconnect

APPLICATION NOTE

for Gas Turbine Power Generation Facilities

Switch-rated Plugs & Receptacles:

A COST SAVING ALTERNATIVE to Hardwiring Motors, Electrical Equipment, and Control Wiring

Application Challenge

Scheduled maintenance at gas-turbine power generation facilities often requires removal of the facility's rooftop to obtain access to the turbines. Since there are many hard-wired, electrical cables that run in rooftop cable trays above the turbines, they must be disconnected to permit crane access to the turbines. This disconnection task requires an excessive amount of electrical work, resulting in significant downtime and labor costs, as well as a loss of revenues while turbine maintenance is being performed.

In some installations, the time to remove the hardwired motors, auxiliary electrical loads and control wiring can take up 10 hours to complete. But once the maintenance is performed, additional time must be taken to re-connect the cabling and rooftop prior to bringing the turbine generators back on line.

Connection Solution

To circumvent the time consuming and expensive process of unwiring/wiring rooftop cabling, MELTRIC Corporation has devised an alternative to hardwiring motors, electrical equipment, and control wiring located in the rooftop cable trays.

By connecting the rooftop cabling with Switch-Rated plugs and receptacles, significant cost and time-savings can be achieved. MELTRIC plugs and receptacles can safely, quickly and easily connect and disconnect motors and electrical equipment.



Switch-rated plugs and connectors allow technicians to safely disconnect and reconnect roof area power cables – simplifying turbine maintenance.



MELTRIC also offers a variety of multi-contact plugs and connectors with up to 37 contacts for control and/or power circuits.

DECONTACTOR™ Technology

Spring Assisted Screw Terminals

Patented design ensures "Tighten and Forget" confidence.

Spring-Loaded Butt-Style Contacts

Ensures optimal contact force and superior electrical performance over thousands of operations.

Lid

Provides additional protection in harsh environments.

Dead-front Safety Shutter

Ensures safety by preventing user access to live parts.

OFF Button

Press to de-energize. Provides push button circuit disconnection.

Casing

Fiberglass reinforced thermoplastic polyester material offers great resistance to impact, corrosion, and harsh environmental conditions.

Lockout-Tagout Provisions

Allows plug to be easily locked out and tagged. Optional Padlock Pawl allows lockout/tagout of the receptacle.

Silver-Nickel Contact Material

Solid silver-nickel contact surfaces provide superior conductivity, durability and corrosion resistance.