WOODHEAD PORTABLE LIGHTING AND ELECTRICAL PRODUCTS

Providing Light and Power for Long, Arduous Maintenance Projects

BUSINESS CHALLENGE

Companies engaged in maintenance and refurbishment of large-scale, difficult-to-access sites, such as dams and tunnels, can find it challenging to provide work environments that comply with OSHA regulations and NEC electrical codes. Typically such sites require temporary lighting, often located a long distance from the power source, for proper illumination of dark and wet locations. In addition, a portable power distribution system is needed to accommodate any tools and equipment needed for the project.

Woodhead has been serving the industrial maintenance industry for decades, providing innovative temporary lighting and electrical products that are third-party rated to withstand harsh and often damp worksite conditions. Products for these lengthy major projects must be ruggedly built to deliver reliable performance over the duration of the work.

SOLUTION

Woodhead Portable Lighting and Power Distribution Devices. Woodhead products typically used in major maintenance projects on dams, tunnels and large industrial sites include:

Series 3309 Customized Fluorescent Stringlight Sets, originally designed for the city of Boston’s “Big Dig” highway and subway tunnel project, offer a cost-effective solution for temporary lighting of tunnels, dams and other large sites. Fluorescent lights draw less current, cost less to operate, run cooler and last longer than incandescent lamps. The rugged construction features of our custom order stringlights include:

- Thick glass in a 27W biaxial fluorescent light with impact-resistant filaments to provide durability and high light output. Strong, impact resistant lamp guards to protect against breakage.
- Tough NEOTEX rubber electrical box connects to each individual lamp contains to protect the ballast from impact and abrasion.
- Heavy duty power cables to minimize voltage drops over the length of the stringlight.
- Watertite plugs and connectors, rated for use in wet locations.

Based on the worksite dimensions, Woodhead can customize the stringlight lengths and the number and positioning of lamp drops. To facilitate installation of stringlights in unlit locations, rugged fluorescent lights are also available as portable, battery-operated hand lamps.

Watertite (IP67) Pin-and-Sleeve Wiring Devices, including plugs, connectors, receptacles, angled inlets and mechanical interlocks, meet IEC 309-1 and 309-2 standards and are rated for use in wet locations. Used with heavy duty Watertite cordsets, the pin-and-sleeve devices provide a modular temporary power distribution system for the use of tools and auxiliary equipment. Each dual-receptacle outlet box is protected by its own GFCI to conform to NEC code requiring ground fault protection on power supplies in potentially wet or damp environments.

The system’s locking mechanism prevents accidental disengagement, while internal and external strain relief devices – including Heavy Duty Max-Loc – provide pull-out protection and cable bend relief.

Heavy Duty Retractable Cable Reels offer rugged steel construction, large cable capacity and strong tension mechanisms for easy pulling and retraction. The reels can be especially useful for work projects in vertical dam shafts and other confined spaces where workers on platforms need to raise or lower lights or tools to perform tasks at various heights.

APPLICATION BRIEF

Customized wet location fluorescent stringlights and hand lamps, Watertite receptacles and large, retractable cable reels can help maintenance crews handle tough jobs and conditions.
CUSTOMER BENEFITS

In large-scale maintenance projects, portable lighting and power play a critical role in creating OSHA and code-compliant work environments. Selecting rugged, reliable Woodhead electrical products can pay dividends in higher quality work, lower replacement costs, and increased safety and productivity.

To learn more about Woodhead electrical products and solutions, call your Molex representative today or call 1-800-225-7724 or visit www.molex.com/woodhead