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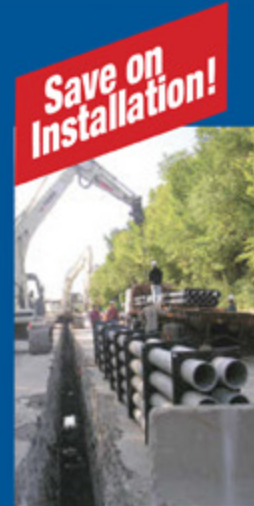
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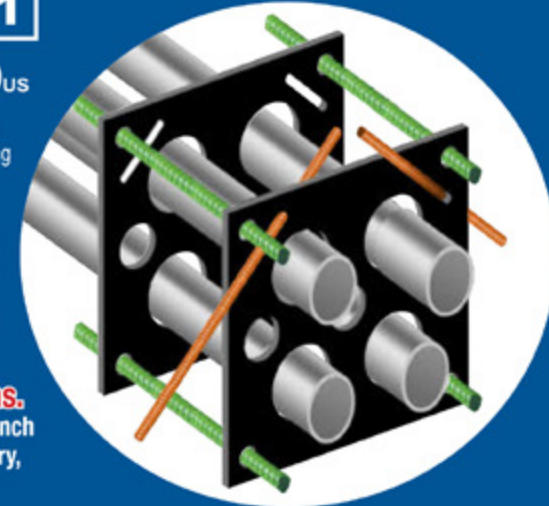
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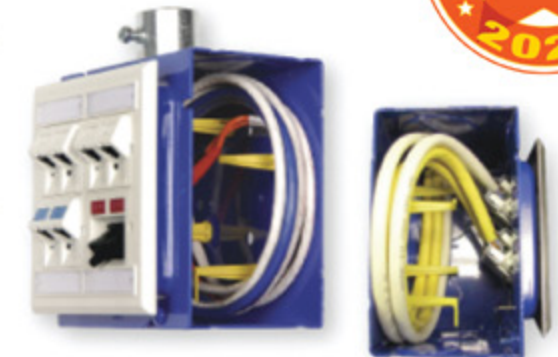
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Miller Safety Consultants — A Leader in Arc Flash Protection

Vince Miller started Miller Safety Consultants, a veteran owned business in 1999. The goal of the business was to provide cost effective safety consulting, employee training such as: confined space entry, fall protection, electrical safety and provide sales of electrical shock and flash protective equipment and fall protection equipment to businesses in the Washington DC area.

Reliance Industries provided fall protection products and much of the sales and training was on behalf of the supplier. In 2000, the owner decided to retire from his business, and Vince decided to discontinue the fall protection line of his business and concentrate more in the electrical training and products.

Vince had been a distributor for Certified Insulated Products (CIP), a manufacturer of electrical insulated tools and electrical arc flash clothing manufactured by Otex in Rochester, New York. As a distributor, Vince provided sales through his internet website and much through relationships with electrical contractors. His training was a classroom environment and was provided directly to customers but he also taught as a sub-contractor for other safety consulting companies and the

Chesapeake Safety Council in Baltimore, Maryland. In 2005, Vince partnered with Vivid Learning Systems in Cascades, Washington to provide on-line training in safe work practices.

Training in electrical safe work practices is still provided locally in the Washington DC area and as a partner with an electrical engineering firm and online. The training is based on the Occupational Health and Safety Administration (OSHA) standards and the National Fire Protection Association (NFPA) 70E standard.

Miller Safety Consultants is now a distributor for Cementex USA, Burlington, New Jersey, for insulated tools and equipment and clothing from OTEX Protective, Rochester, New York.

The majority of his sales of products

are from the web-based store. Cementex is nationally known for their quality equipment. Otex Protective is becoming more known for their quality clothing. For years, they have manufactured their products under other provider labels. Vince chose to not create his clothing line, but to sell the manufacturer product.

Vince has worked with many electrical company employees to fine-tune the clothing to be more comfortable for the user. Working closely with the manufacturer, they have made slight changes in how the cloth pattern was modified to meet final production. An example is the lightweight 40 Calorie vented hood offered by Otex.

The material is of the latest technology. The vented assembly is constructed for balance on the back of the hardhat and the airflow is 27 CFM to prevent fogging of the face shield and provide cooling to the worker. It took over a year to develop the product with the user prior to having the hood "flash tested". This product is now standard issue with many electrical contractors.

Being a small business and having quality providers has resulted in satisfied customers for Miller Safety Consultants. Being a direct supplier for OTEX Protective, another small business means customized customer needs can be met. □

For more information, visit
Miller Safety Consultants at:
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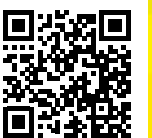
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Warming Up to Electrical Heating Cables

Today's heating cables are safe, energy-efficient solutions to taking off winter's chill

BY TY'NYA LARRY, PRODUCT MARKETING MANAGER FOR EMERSON

HEATING CABLES, REFERRED TO AS HEAT TRACE CABLES, PIPE TRACING, OR HEAT TAPE, ARE COMMONLY MANUFACTURED IN TWO BASIC FORMATS

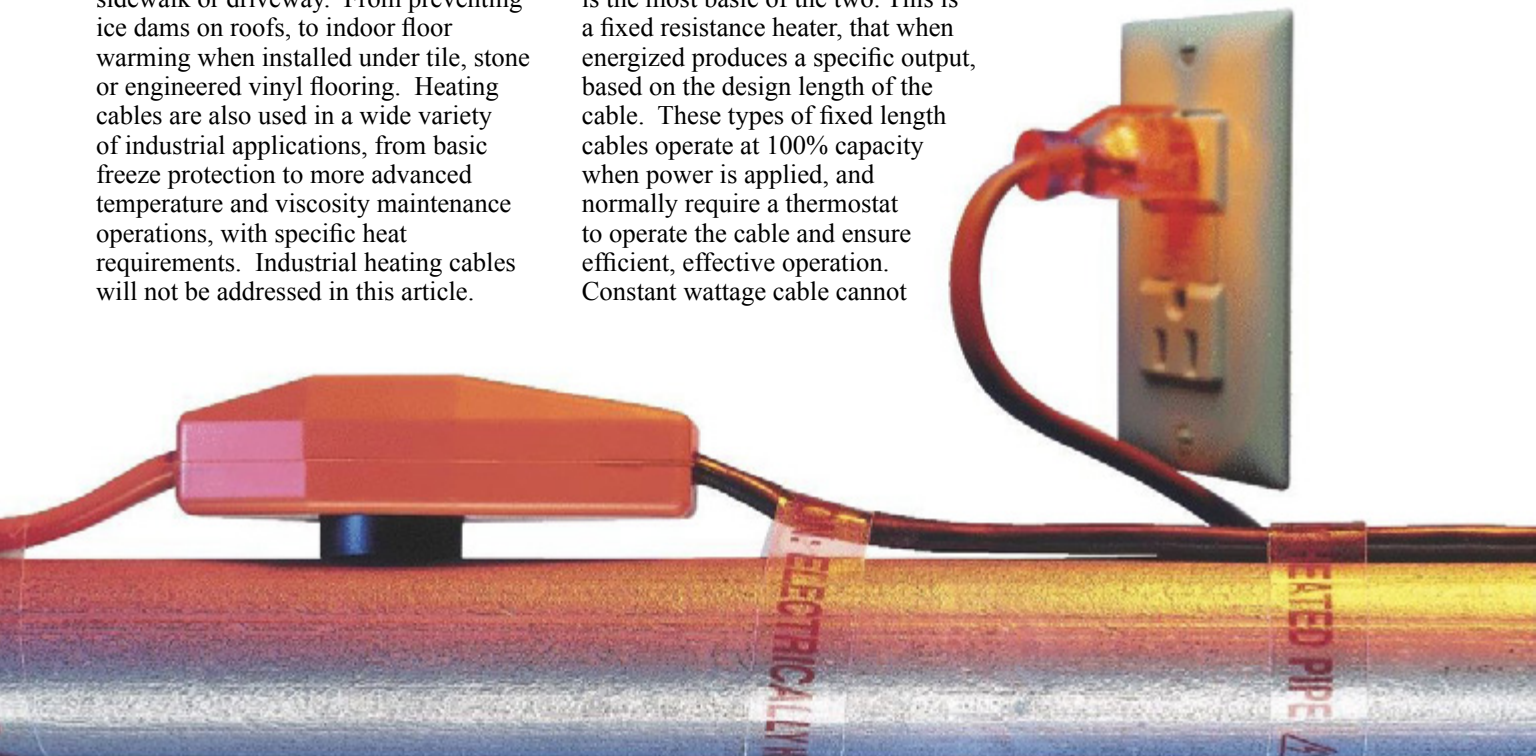
– constant wattage cables, which generate a specific amount of heat, based on the resistance of the wire to the power supplied, and self-regulating heat cables, which generate a varied amount of heat when energized, based on the temperature that surrounds it. However they operate, they all work to achieve the same result, radiating heat and warming up the area around it.

Heating cables are used in a multitude of applications, from pipe freeze protection, to snow melting on a sidewalk or driveway. From preventing ice dams on roofs, to indoor floor warming when installed under tile, stone or engineered vinyl flooring. Heating cables are also used in a wide variety of industrial applications, from basic freeze protection to more advanced temperature and viscosity maintenance operations, with specific heat requirements. Industrial heating cables will not be addressed in this article.

As mentioned earlier, there are two primary types of heating cables:

- **Constant Wattage Heating Cable** is the most basic of the two. This is a fixed resistance heater, that when energized produces a specific output, based on the design length of the cable. These types of fixed length cables operate at 100% capacity when power is applied, and normally require a thermostat to operate the cable and ensure efficient, effective operation. Constant wattage cable cannot

be overlapped, as this could cause them to overheat. They offer the advantage of being inexpensive, but are limited to specific lengths and wattage densities, making them less versatile than self-regulating cables. Constant wattage cable can be used on indoor and outdoor water supply lines that are subject to freezing temperatures, and on residential asphalt shingled roofing. They provide an economical option for heating pipes in crawlspaces, cottages, barns and outbuildings that are unheated. Constant wattage cable is also the



For optimal performance of the system, pipe insulation must be installed over the cable to help retain heat, and plastic pipes can be wrapped in aluminum foil so the heat is dissipated evenly in the pipe.



primary heater used for embedded applications like snow melting and floor warming, where power availability and predictable load may be a consideration.

- **Self-Regulating heating cables** are designed to overcome some of the constraints of constant wattage cables. With this type of cable, the heating element is a carbon-black polymer, extruded over two buss wires, which when energized, produces heat output, based on the temperature that surrounds it. Power output is increased as temperature decreases, and conversely, as temperatures rise, the power is reduced. In an ambient operation, such as freeze protection or roof and gutter deicing, no thermostat is required because they automatically vary their heat output based on changes in the surrounding temperature. Unlike resistive heating cables, self-regulating heaters can be cut to any length, without impacting the operation of the cable in any way. Designed for industrial, commercial and residential applications, they can be used on metal or plastic pipes in a variety of applications, as well as on all types of roofing.

PIPE PROTECTION WITH HEATING CABLES

Consider this: a gallon of water, when frozen, will expand to a volume 9% greater than the original gallon. So it is no surprise that a water filled, frozen pipe will swell up and crack.

A bulge or crack in a pipe with ice seeping out is a clear indication of a burst pipe. More often than not, a pipe may look fine and the homeowner may not see the small fractures caused by freezing water and ice expansion. Unfortunately, once the ice inside a frozen pipe begins to melt and water seeps out, it is already too late. Depending on the how long it goes unnoticed, total cleanup costs from a broken supply line can soar to tens of thousands of dollars. State Farm Insurance estimates the average insurance claim for water damage from frozen pipes is approximately \$15,000.

If a building owner knows that a certain part of a structure with active water pipes may experience temperatures below freezing, the smart solution is to install a heating cable. The integrated thermostat on the resistance cables, or a separate ambient-sensing thermostat on self-regulating heaters, ensures the system is automatically

turned “on” when temperatures drop below freezing providing the needed level of heat to keep the pipes from freezing. The thermostat provides automatic control of the system so it saves energy by powering the cable only when required. For the system to work effectively, pipe insulation must be installed over the cable to help retain heat. In addition, plastic pipes can be wrapped in aluminum foil so the heat is dissipated evenly over the pipe.

Once installed on a pipe, heating cables should provide protection on your pipes for years require no more maintenance than routine system integrity monitoring — even when temperatures drop as low as -40°F (-40°C).

PREVENTING ICE DAMS WITH HEATING CABLES

An ice dam is a formation of ice that appears at the eaves of a roof during extended periods of snow, cold weather, and the freeze-thaw cycles that take place during the winter. Ice dams form when snow accumulation on a roof, above the heated part of a building, melts and flows toward the unheated section — over the eaves, in gutters and downspouts, integral roof drains

and scuppers - where it re-freezes, and subsequently accumulates, creating a dam that traps water in a pool. As water takes the path of least resistance, eventually melt water will force its way back up and underneath roof shingles, flashings and drip edge, resulting in leaks and extensive damage to ceilings, floors and behind walls. Repairing a roof is expensive. Even a minor repair as small as a couple of square feet typically costs \$1,000 or more. Larger repairs can cost thousands more.

Again, a popular and economical solution to ice dams are heating cables. By preventing ice dam formation along roof edges, in gutters, drains and downspouts, the cables create a path for melted water from the roof to flow into the gutters and downspouts, and on to the ground, preventing ice dams from forming. An automatic controller, available as an accessory, makes operation more energy efficient. When driven by an automated controller,

the system is turned “on” when temperatures are below 38°F (3°C) and there is a presence of water on the sensor’s surface. Both conditions must exist for the system to turn “on”, and when the temperature rises above 48°F (9°C), or water is no longer sensed, the controller turns the system off.

SNOWMELTING WITH HEATING CABLES

Heating cables can be installed underneath driveways, sidewalks, or patios to melt off snow or ice. Formed into mats of varying sizes, snow melting systems are embedded underneath the surface, to heat up and eliminate snow as it falls, not allowing it to accumulate. The mats are extremely cost effective and eliminate the expensive, labor-intensive hassles of snow removal, by integrating an optional control that detects air temperature and moisture from falling snow. As with the roof and gutter controls, both conditions,

freezing temperature and moisture, must be present concurrently for the system to activate.

For a homeowner, if it snows in the middle of the night, you will wake up to a cleared sidewalk and driveway — unlike your neighbors. Another less obvious advantage is that the mats operation generates no sound. Anyone who has had to listen to a snow blower operating for hours on end can attest to it being a less-than-pleasant experience, and this is a much more efficient and “green” alternative to applying environmentally harmful chemicals or salt.

Businesses benefit further from lower insurance rates and compliance with the Americans With Disabilities Act (sec 3.2.4.3), safer walkways, loading docks, ambulance entries and passenger platforms at train and bus stations, hotels, restaurants, etc.

Even in northern cities like Chicago, the actual amount of time of snow is



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falling to the ground is less than 30 hours per year. To operate an electric snow melting system, for the average homeowner, that translates to just a few dollars a year, compared to snowplow services that can cost hundreds... or for commercial properties, thousands of dollars per year.

FLOOR WARMING WITH HEATING CABLES

Tile floors can feel uncomfortably cold even in warm climates. Under floor heating cables remove the chill with gentle, continuous warmth when used as surface heat to make the floor cozy, or as supplemental heat to help warm an entire room. Depending on the manufacturer, systems can be embedded underneath various surfaces including ceramic, porcelain, terrazzo,

glass mosaic, marble, and natural stone and agglomerates, as well as under the engineered wood and LVT flooring. With appropriate waterproofing protection, cables can even be installed in tiled showers or other wet areas, although it is recommended that the homeowner check with their local electrical inspector first to verify that this application is allowed in the jurisdiction.

Not only comfortable, floor-warming systems are safe, energy-efficient and economical. Once embedded under the surface, it's nearly impossible to damage or cut the cables. Systems are operated by a variety of GFCI equipped, floor-sensing thermostats, ranging from simple non-programmable unit to a one with a color touch screen, wi-fi and google home/Alexa compatibility. The thermostats offer precise temperature control, monitoring and regulating of the floor temperature to provide the optimal warmth. And cost is minimal: at 12 watts per square foot, a 30-sq.-ft. mat draws the equivalent of an electric blanket. Plus, it is estimated that adding floor warming throughout a home can increase its resale value by as much as four percent.

Modern floor warming systems are manufactured as either “free form” cables that provide maximum design versatility, or in “fixed” shape or custom shaped mats for labor savings in standard shaped rooms.

Free form cables are loose, so they can be turned and positioned in any pattern to fit areas with curves, angles or obstacles. Cable spacing is easy when installed with the provided plastic strapping directly onto the subfloor, or using an uncoupling membrane designed for use with a heating cable, embedded in thin-set or self-leveling underlayment. Cable systems are ideal



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for projects involving individual rooms of varying size or shape.

Standard sized mats feature heating cables interwoven into either a mesh

backing that is suited for fast installation in standard rectangular areas, or custom mats where heating cable sandwiched between layers of fabric in standard or

custom shapes. These lend themselves to expansive rooms or multi-unit applications, where a true labor savings can be realized. Self-Adhesive Mat floor warming systems are easy to install and commercially available in standard sizes, with a self-adhesive backing to help reduce installation time and labor. The mats can be placed on the substrate and will stay put while the mat is embedded in thin-set or self-leveling underlayment. The fabric mats are unique, in that they allow the tile installer to complete his install in a single day, and at less than 3/16 inch thick, there is virtually no floor height buildup, significantly reducing retrofit costs of door or trim modifications. □

Ty'nya Larry, is Product Marketing Manager for Emerson, and has been with Emerson for 4 years. She has responsibility for all EasyHeat branded products, which includes heating cables and thermostats.

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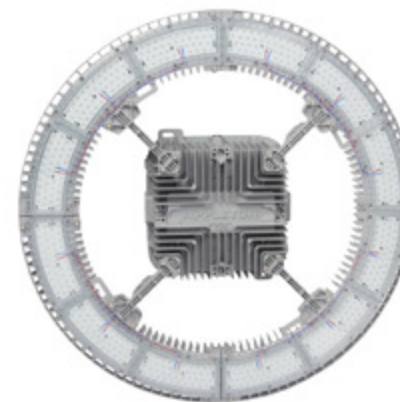
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Condux International Announces New CEO

Condux International is pleased to announce the appointment of James J (Jim) Radous III as Chief Executive Officer (CEO). Radous previously held the Chief Revenue Officer (CRO) position at Condux. He is an accomplished domestic and international business leader and came to Condux International with substantial executive level experience. Radous' most recent appointment was as Business Unit Vice President for Federal Signal Corporation where he provided executive leadership, strategic planning, and execution across the \$1B publicly traded corporation in the Environmental Safety Group.

Prior to Federal Signal Corp., he served as President and CEO of UniCarriers Americas Corporation, Marengo, Ill., and as Corporate Officer of UniCarriers Corporation in Tokyo, Japan. He previously served as Executive Vice President, Sales – Americas where he led revenue generation in key areas, growing UniCarriers Americas to a top-tier supplier of material handling equipment, along with executive roles at Emerson Electric Company and Klein Tools.

Radous is ready for the challenge and sees great things for Condux International in the future. He said, "Condux International is a special company with a deep history. I look forward to leading it by providing solutions to both our customers and end-users, bringing this business back to the high standards the market expects from this organization. And doing it in a way that lives up to our standard of being a reliable 'True Blue' partner. I also look forward to working with Ryan Schrick



James J (Jim) Radous III



Ryan Schrick

"Condux International is a special company with a deep history. I look forward to leading it by providing solutions to both our customers and end-users, bringing this business back to the high standards the market expects from this organization."

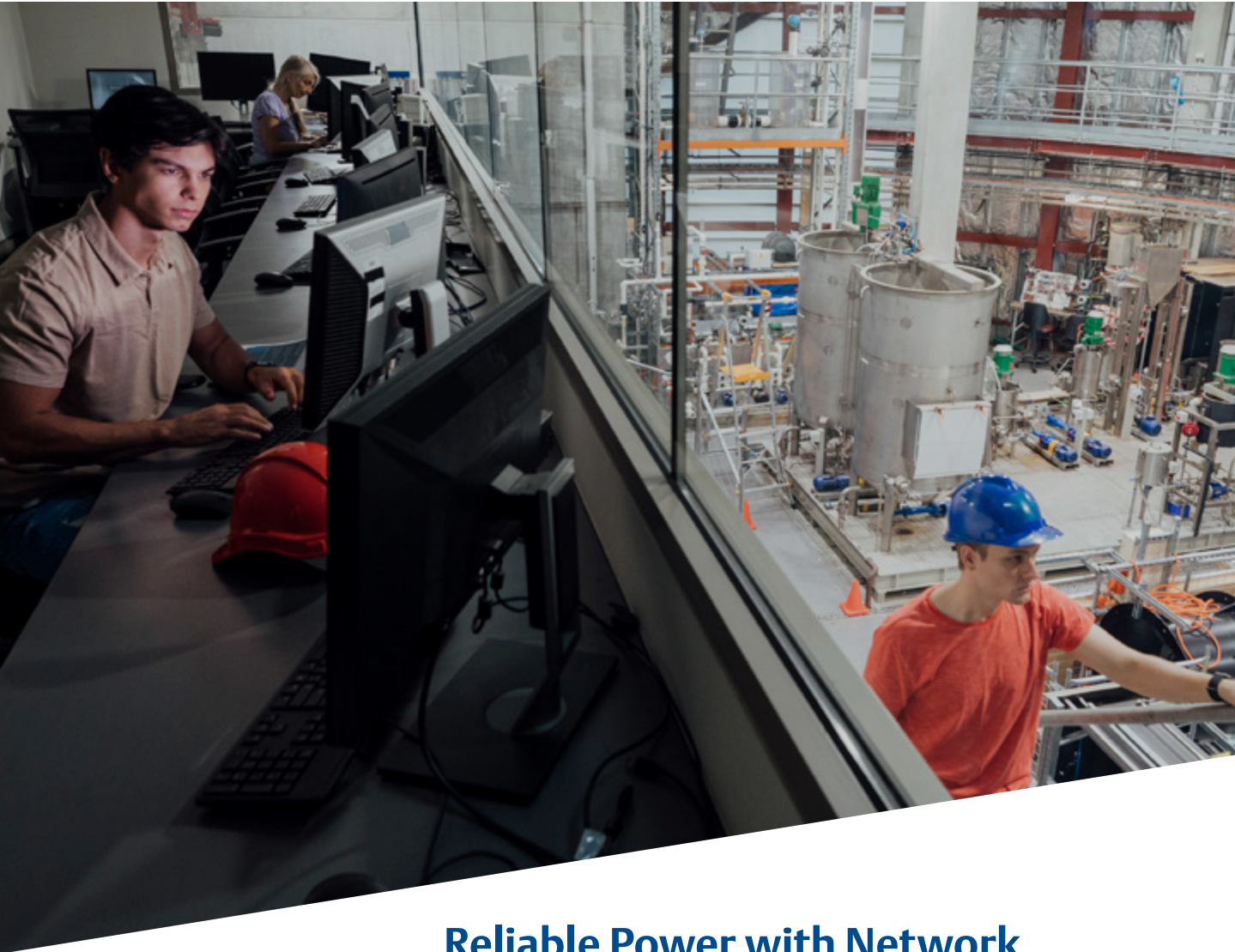
— Jim Radous III

as part of a leadership team moving this vision forward."

Schrick joined Condux International in July of 2023 as Chief Financial Officer (CFO) and comes to Condux with over 20 years of financial experience working in manufacturing businesses with over 10 years in financial leadership roles. He said, "I look forward to continuing to work with Jim and others to grow Condux and its

employees in the business."

According to Condux International owner Brad Radichel, the timing is right for this appointment. He said, "We've made critical investments in manufacturing technology over the past several years. And now we are very pleased to promote Jim to the CEO role to help achieve our goals and execute our aspirations as an industry leading organization." □



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Vantage Lighting Control Helps Hotel Verdant Achieve Sustainability

Installed by Digital Living, Vantage’s Highly Customizable and Flexible Lighting Control System Provides Energy Efficiency and a Luxury Lighting Experience to Hotel Guests and Staff



PHOTOS COURTESY OF HOTEL VERDANT

Legrand’s lighting control brand Vantage today announced that Hotel Verdant in Racine, Wisconsin, is using Vantage to achieve energy-efficient and elegant lighting control. Seeking LEED Gold certification, AV integrator Digital Living installed Vantage’s lighting control solution, which is integrated with occupancy and daylight sensors throughout the hotel’s public guest and admin spaces, to create a lighting experience centered around sustainability and luxury.

“There is a ton of waste in the hospitality industry because it’s all about creature comforts,” said Michael Godfrey, CFO of Hotel Verdant. “For example, having a hallway stay at full

brightness whether or not there are occupants adds up in the hotel’s daily energy consumption. Vantage allows us to rethink our lighting in such a way that it adjusts not only to conserve energy but to create a better, more comfortable ambiance for our guests.”

For the project, Digital Living President Shireesh Reddy relied on Vantage’s freedom of design and programming flexibility to fit the sustainability needs of Hotel Verdant’s lighting design. More than 90 motion detectors and 30 daylight sensors are tied into the Vantage system. Reddy leveraged Vantage’s ease of programming to enable the system to automate specific lighting sequences for

the hotel that are based on occupancy, time of day, and/or the amount of natural light in the room. In the hallways and administrative offices, the motion sensors detect when someone is present and raise the lighting level; when no one is detected, they automatically dim, cutting down on the energy use. The hotel’s bar, Eave, takes advantage of Vantage’s astronomical clock, which is programmed to automate the bar’s lighting as the bar is opening. Before closing time, the system starts its power down sequence with the lights flashing.



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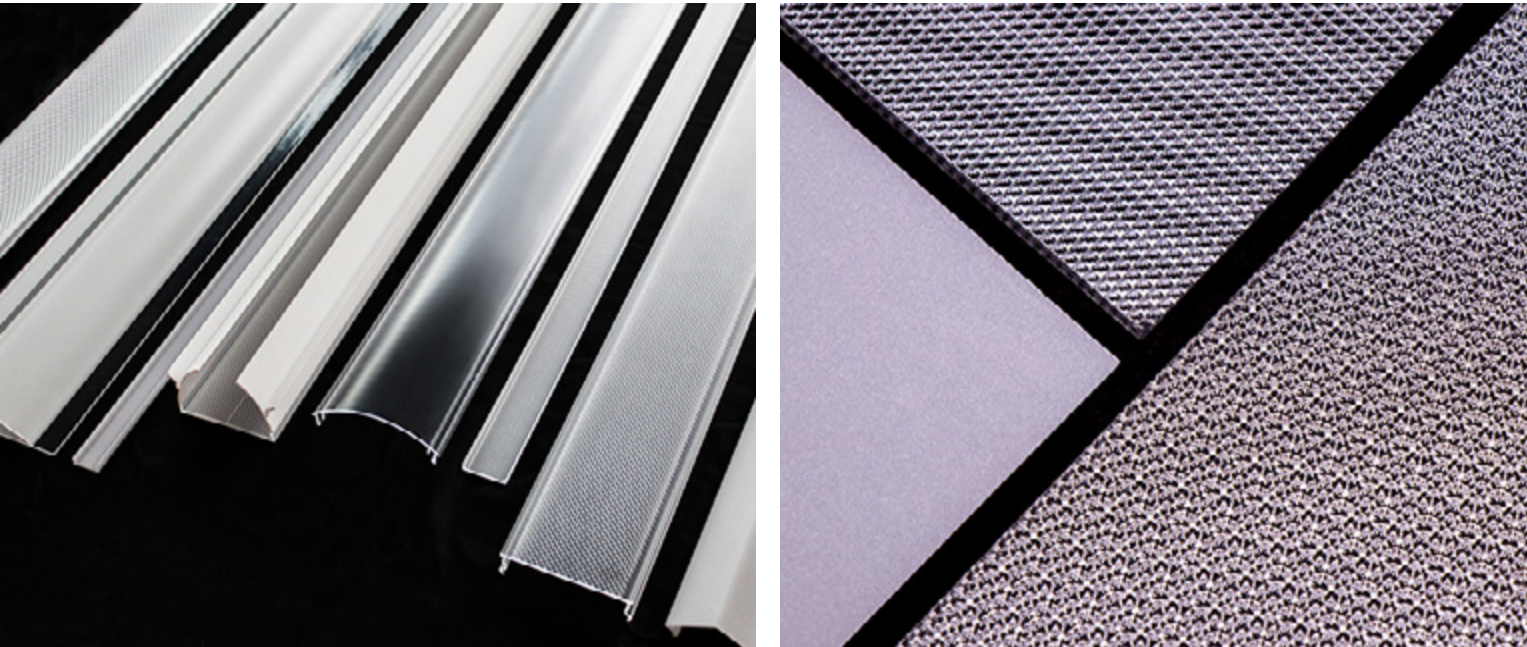
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CONSIDER IT SOLVED™

Bill Brown Sales Expands Comprehensive Component Line with Plaskolite Lighting Lens Solutions



Bill Brown Sales (BBS), North America's leading OEM lighting component sales agency, announces a new representative partnership with Columbus, OH-based Plaskolite. A longtime supplier to the lighting industry, as well as signage, point-of-purchase, and other related markets, Plaskolite's lighting-optimized products include: polymer, extruded sheet, cast sheet, custom extruded profiles, and films.

BBS will represent Plaskolite's extensive product line to North America lighting OEMs with innovative thermoplastic products such as extruded sheet, cast sheet, custom extruded

profiles, and films. Their industry-recognized brands include Optix® acrylic LED lighting sheet, Tuffak® polycarbonate lighting sheet, and Micromid prismatic deglaring sheet.

Plaskolite also works closely with customers to develop custom profile lenses to their exact specifications. They have the engineering resources, materials expertise, manufacturing capabilities, and secondary finishing services to enhance any profile for lighting fixture design.

The BBS competitive advantage is bundling a complete component line with the variety to tackle today's luminaire design projects. "Plus the

convenience of dealing with one sales representative and one streamlined process," says Donny Wall, President of Bill Brown Sales.

In turn, joining with BBS allows Plaskolite to leverage the agency's decades of market expertise and extensive relationships. "Our goal remains to help lighting OEMs bring their products to market with speed and confidence," states Chris Walby, Director of Lighting Sales. "We support fixture manufacturers by producing innovative engineering thermoplastics the right way," he adds, "through hands-on customer service and responsible manufacturing." □

ABOUT BILL BROWN SALES CO.

Bill Brown Sales has been representing leading component manufacturers since 1955, including A.L.P.®, Bridgelux, Genesis Plastics Technologies, Inventronics, MetroSpec Technology®, Morelux Lighting, Plaskolite, RLR Industries, Roytec Industries, Sur-Seal®, Tripar®, and Wald Wire & Manufacturing. For more information, visit www.billbrownsales.com.



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DEWALT® Unveils Groundbreaking Equipment System: DEWALT POWERSHIFT™, an Electrified Line of Heavy-Duty Tools to Optimize Workflow of Concrete Jobsites



- DEWALT’s POWERSHIFT™ line will make its debut at the 2024 World of Concrete Trade Show in Las Vegas from January 23-25; Celebration will kick-off with an electrifying activation on the exterior of Sphere; follow DEWALT social for the big reveal
- DEWALT POWERSHIFT™ represents the next stage of DEWALT’s innovation journey to deliver comprehensive end-to-end workflow solutions as the brand celebrates its 100th anniversary in 2024
- According to new DEWALT Power Pulse Survey, more than three-quarters of construction professionals surveyed say their sites are ready for the transition to electric-powered tools; and more than half of construction pros who switched to electric tools say it has allowed them to complete projects up to two to three times faster compared to gas-powered tools

DEWALT, a Stanley Black & Decker brand and leader in total jobsite solutions, today announced the launch of DEWALT POWERSHIFT™, a

groundbreaking equipment system to optimize the workflow of concrete jobsites through electrification. Designed to meet the critical needs of concrete professionals – power, runtime, and ergonomics – the electrified line will allow users to transition away from gas-powered equipment, without compromising efficiency and performance. The system, made up of six concrete tools, streamlines the full concrete application through use of the same DEWALT POWERSHIFT™ 554 WH battery and high-speed charger across all tools. It is backed by DEWALT’s powerhouse portfolio of complimentary tools, accessories, and technology.

“As we kick off DEWALT’s 100th anniversary year, our guiding principle of making pros more productive holds strong with the launch of DEWALT POWERSHIFT™,” said Frank Mannarino, President, Power Tools Group, Stanley Black & Decker. “DEWALT POWERSHIFT™ is launching at a time when the industry is increasingly preparing for electrification, particularly as

construction sites respond to statewide legislation aimed at phasing out gas-powered tools. As part of this effort, DEWALT is providing a solution that electrifies the concrete workflow to maximize cost and time savings, while minimizing the environmental impact for the user. These user advantages are paramount to innovating in accordance with our purpose to empower Those Who Make the World.”

The DEWALT POWERSHIFT™ line will launch at the World of Concrete Trade Show in Las Vegas (Silver Lot, booth 030958) on January 23 with the following products:

- Battery & Charger
- Plate Compactor
- Rammer
- Backpack Vibrator
- Powerpack Vibrator
- Power Screed
- Core Drill and Stand
- Adaptor

To learn more about DEWALT POWERSHIFT™, please visit: www.dewalt.com/world-of-concrete-2024. □

ABOUT DEWALT

DEWALT, a Stanley Black & Decker brand, celebrates 100 years in business by continuing to provide our customers with total jobsite and landscaping solutions. By applying its latest technology to the challenges of today’s skilled trades, DEWALT is leading the charge for the jobsite of the future and pioneering the next generation of tools, outdoor equipment and forward-looking technologies. DEWALT products. GUARANTEED TOUGH®. For more information, visit www.dewalt.com.



Affordable test equipment for 2024



Spitfire - Buried Low Voltage Cable Fault Locator

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- ◆ Easy to use
- ◆ High energy output
- ◆ Proven reliability
- ◆ Compact design
- ◆ Lightweight

Wayfind'r - Impulse cable tracer

- ◆ Accurate
- ◆ Easy to use
- ◆ Connects directly to energized cables
- ◆ Distinct signal for easy tracing
- ◆ Traces direct buried and cables in conduit
- ◆ Rugged, compact design

Impulse Phaser - Cable / phase system

- ◆ Accurately identifies cables in trenches, vaults, conduits and enclosures
- ◆ Accurately identifies phases in multi-conductor cables
- ◆ Identifies jacketed, shielded, cables, even in pipe
- ◆ Easy to understand and use



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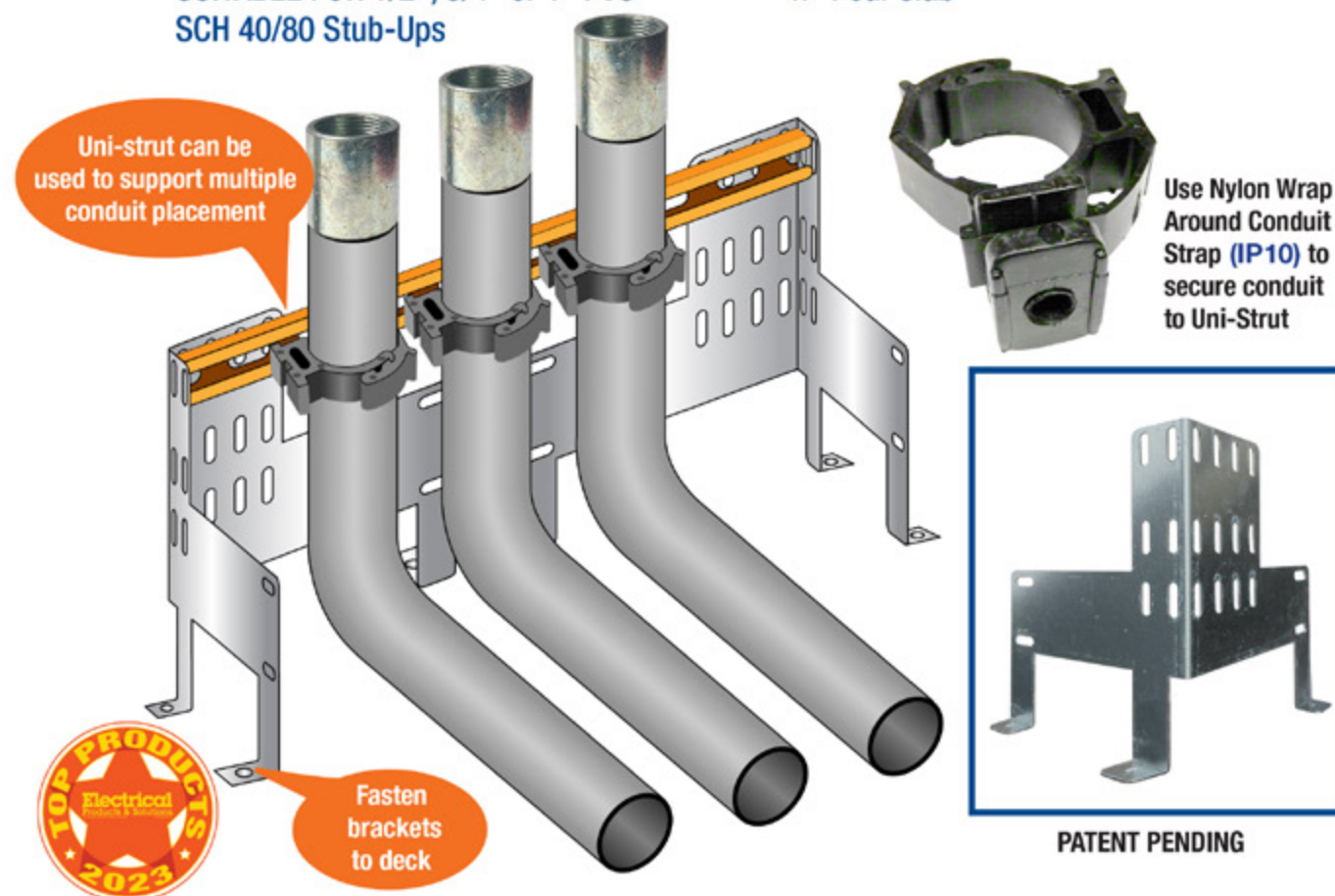


EZ Stub-Up SUPPORT BRACKET

- Support and secure multiple conduits and sizes with brackets and/or uni-strut at a single stub-up location
- Use nylon wrap around conduit straps, minerllacs, one-hole straps or Ty wraps to secure conduit to bracket or uni-strut
- 16 guage galvanized steel
- SUITABLE FOR 1/2", 3/4" or 1" PVC SCH 40/80 Stub-Ups

INSTALLATION:

1. Position bracket on deck before the concrete pour
2. Fasten bracket to deck
3. Secure conduit to bracket or uni-strut with nylon wrap around conduit straps, minerllacs, one-hole straps or Ty wraps
4. Pour slab



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new
PRODUCTS

DMF Lighting Expands its M Series Commercial Collection with High Lumen Packages for Hospitality and Mix-Use Spaces

- Family meets all site requirements and ceiling heights with 750 to 3500 lumen packages
- Architectural collection provides continuity in aesthetics and performance across an entire property
- Modular design features tool-less, field-interchangeable trims, modules and optics for exceptional versatility and serviceability

As the hospitality industry continues to bounce back from the pandemic with new construction hotel openings forecasted on the rise, DMF Lighting, a leading architectural lighting manufacturer of premium modular LED downlighting systems, today announced that it has expanded its hospitality and commercial solutions with the introduction of the M Series Commercial high lumen offering with packages up to 3500 lumens.

From grand outdoor entrances to lobbies, restaurants and guest rooms, the 4-inch aperture M Series Commercial recessed downlighting family meets all site requirements for a wide variety of applications with lumen packages ranging from 750 to 3500, while providing continuity in aesthetics and performance throughout varying ceiling heights.

“With the addition of our new high lumen modules, the design community now has one unique modular family to meet all application needs,” said Ken Czech, vice president of new product development, DMF Lighting. “Our modular design with interchangeable modules, optics and trims, allow for easy serviceability and design changes, as they can be easily swapped onsite from below the ceiling from fixed to adjustable to wall wash.”

The modular design (housing, module and trim) of DMF products is an ideal solution for the hospitality industry as drivers are integrated into the light engine modules versus the housing, so modules, equipped with quick connects, can be easily swapped out with below ceiling access, making serviceability quick and easy. For instance, hotel property managers don’t need to take guest rooms out of service when maintenance is needed, which can impact revenue. The modularity also allows the flexibility when aiming a project and to easily change interior aesthetics for events, holidays or any space redesigns.



For more information, visit
www.dmflighting.com

New Multi-Tester from Klein Tools® Combines Core Electrical Products into One Model

Klein Tools, for professionals since 1857, introduces the Digital Multi-Tester DMM with Receptacle Tester, combining core electrical products into one convenient model.

Digital Multi-Tester DMM with Receptacle Tester (Cat. No. ET270)

- Auto-ranging and measures AC/DC voltage, resistance, audible continuity, and performance 9V and 1.5V battery tests
- Detects and identifies common wiring faults in standard and GFCI electrical outlets
- Inspects GFCI devices, including time to trip the device
- FIND mode indicates which breaker corresponds to a given receptacle
- Features include backlight display, data hold, default to auto-range with option for manual-range; max/min
- Receptacle test is designed for use with North American 120V AC 3-wire electrical outlets
- Built to withstand a 6.6-Foot (2m) drop, this meter is designed to be durable and reliable even in demanding work environments



For more information, visit
www.kleintools.com

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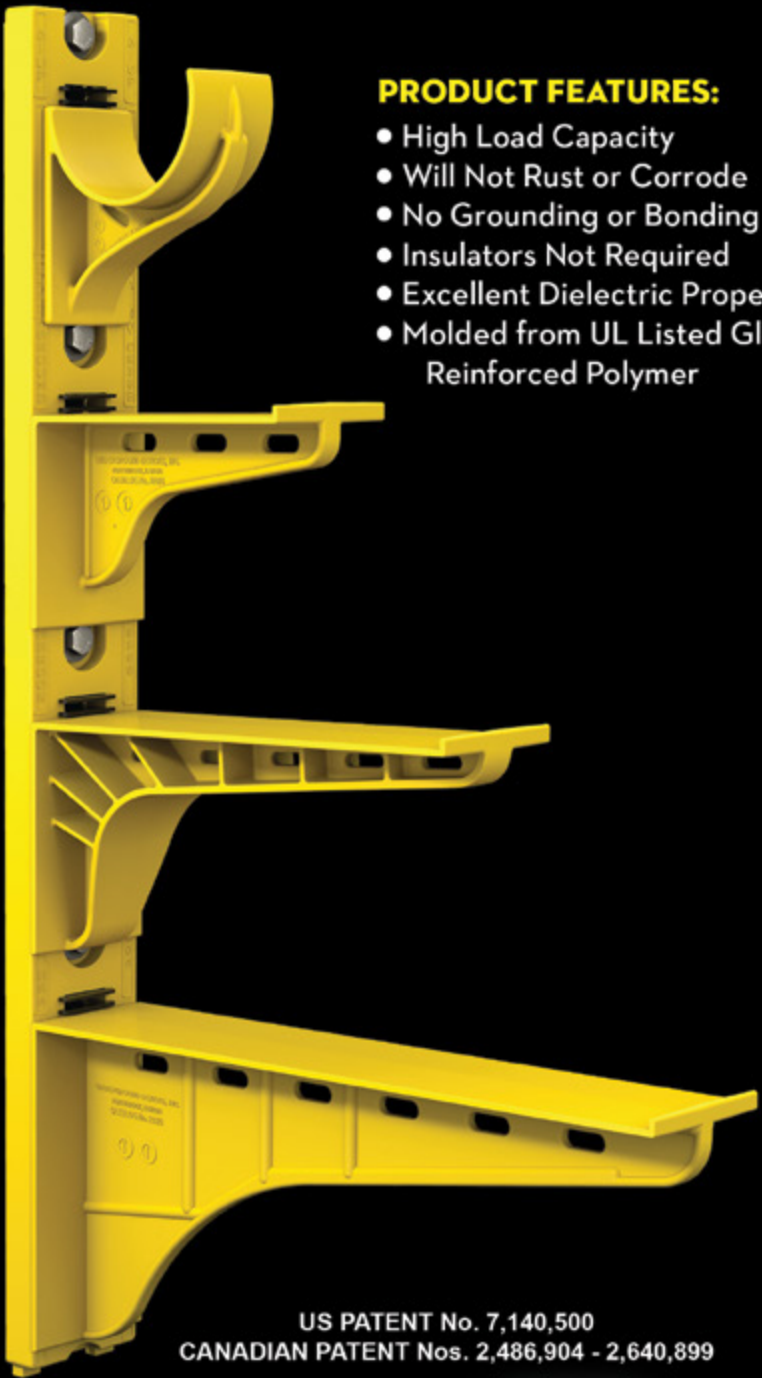
HDL Arm Lock shown with
RA04 Arm and CR36-B Stanchion



3HDS - 3" throat saddle shown with
a cable secured by cable ties.



RA08 - 8" arm shown with three
cables secured by cable ties.



US PATENT No. 7,140,500
CANADIAN PATENT Nos. 2,486,904 - 2,640,899

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HPS Launches SineWave Filter To Safeguard Motor and Cables

Hammond Power Solutions (HPS), a leading manufacturer of dry-type transformers, reactors and power quality solutions, proudly announces the launch of the HPS Centurion S SineWave Filter. This robust solution is purposefully designed to condition the pulse width modulated (PWM) output of variable frequency drive (VFD) into a nearly perfect sinusoidal waveform, providing protection for motors and cables in diverse industrial applications.

The HPS Centurion S, serves as a low-pass filter, proficiently eliminating high-frequency components in the VFD output. This comprehensive approach safeguards motors and feeder cables by reducing voltage reflection, harmonic distortion, bearing current, insulation stress, and motor noise.

“This innovative filter establishes a defense against typical electrical disturbances encountered on the load side of the VFDs, ensuring the prolonged operation and durability of critical equipment,” said Michael Frayne, Senior Vice President, Power Quality & Power Conversion Solutions. “The HPS Centurion S enhances our power quality portfolio, reinforcing our dedication to providing extensive power quality solutions for our customers.”

Motor and Cable Protection Features:

- **Extended Lifespan:** HPS Centurion S is a robust and efficient solution to safeguard motors and feeder cables, extending their lifespan and significantly improving overall efficiency.
- **Improved performance:** By mitigating high-frequency currents and voltage spikes, the HPS Centurion S ensures lower temperature operation and improved overall performance.
- **Increased efficiency:** The filter optimizes the power delivered to the motor, contributing to increased operational efficiency and reduced energy consumption.

Customers can witness live testing of the HPS Centurion S, either in person or virtually, at the HPS Power Quality Lab, alongside other power quality solutions offered by HPS.



For more information, visit
www.hammondpowersolutions.com



Klein Tools® Introduces Red Pocket Laser Level for Quick and Compact Level Reading

Klein Tools, for professionals since 1857, introduces the Red Pocket Laser Level, a high-performance laser leveling and alignment tool for DIY’ers and professionals alike.

Red Pocket Laser Level (Cat. No. 93PTL)

- Project single red laser line up to 30 feet (9.1 m) indoors, providing ample coverage for a wide range of applications
- Laser body has a 360° rotation for projecting lines at any angle
- Horizontal and vertical fine adjust knobs allow for easier precision adjustment of the laser line without having to move the unit
- Compact design is easy to use and transport at home, on the job, or anywhere in between
- 3-axis bubble vials illuminate for enhanced viewing and leveling
- Two powerful magnets, 1/4-20 thread tripod mounting, a hang hole, and built-in kickstand give a variety of mounting options
- Over 12-Hour runtime with 2 AAA alkaline batteries and low batter warning

“Having tools that are compact and easy to take around a jobsite makes the trade professionals’ lives easier,” says Amy Hart, associate director of product management at Klein Tools. “With our new Red Pocket Laser Level, users get a powerful red line laser that is easy to see and use in all conditions and can fit right in your pocket. The adjustable body and 3-axis lighted bubble vials allow users to project laser lines at any angle needed, and the fine adjust knobs enable easier precision adjustments compared to other laser levels.”



For more information, visit
www.kleintools.com

Cementex Highlights Range of T-Handle Tools Including Hex Wrenches, 6-Point Socket Wrenches, and Drivers

T-Handles provide superior grip and rigid construction for evenly distributed pressure

Cementex, the safety tool specialists, highlights the availability of its T-Handle Driver Tools, including Hex Head Wrenches, 6-Point Socket Wrenches, and Drives. All of the T-Handle tools incorporate the superior Cementex 2-layer insulation system and solid core handle to distribute pressure evenly through the gloved hand. Made in the USA featuring hardened American steel, the T-Handle tools rigid construction prevents twisting and flexing while providing the quality customers rely on from Cementex as the industry leader.

The T-Handle Hex Wrenches are available in multiple shaft lengths and a range of combinations in order to meet each application’s unique insulated hand tool needs. The wrenches can be purchased individually or in kits, and can be added to custom Cementex insulated hand tool kits. Additionally, the T-Handle 6-Point Socket Wrenches and Drives are available in a range of sizes and lengths to meet users’ needs.



For more information, visit
www.cementexusa.com



Emerson Introduces Cost-Effective Upgrade Path to Energy-Efficient LED Lighting for Hazardous Industrial Areas

Appleton Retromaster™ luminaires convert legacy incandescent and HPS lighting fixtures in C1D2 locations to LED without need to rerun wires or cut conduit

Emerson has introduced the Appleton™ Retromaster™ Series of LED luminaires, the fastest, most cost-effective upgrade path for converting legacy Appleton incandescent and HPS (High-Pressure Sodium) lighting fixtures installed in Class I, Division 2 (C1D2) hazardous locations to economical and sustainable LED technology, while keeping the original fixture’s certification.

Appleton Retromaster luminaires are directly compatible with the installed base of Appleton V-51™ incandescent luminaires, Appleton Stylmaster™ incandescent luminaires, Appleton Stylmaster-C incandescent luminaires (Canada), Appleton V incandescent luminaires (Canada), Appleton Mercmaster™ Jr. HPS luminaires, and Killark™ V Series incandescent luminaires. Colored polycarbonate globes and stainless-steel wire guards can be ordered to make a new Retromaster luminaire indistinguishable from the legacy fixture.

“For decades, facilities have relied on Appleton ‘jelly jar’ incandescent and HPS light fixtures to safely illuminate their Class I, Division 2 hazardous locations,” said Christine Buttner, Lighting Marketing Manager for Appleton. “With our new Retromaster LED Series, these same customers have the unprecedented opportunity to take advantage of LED’s reduced energy consumption, improved lighting quality, and long life with minimal maintenance requirements, while supporting their

organization’s environmental initiatives, all in one quick and simple upgrade.”

Requiring no time-consuming rewiring or cutting of conduit, Appleton Retromaster luminaires typically take only a few minutes to install onto an existing mounting hood, dramatically reducing labor and material expenses. The luminaires are available in an output range from 1000 to 5000 lumens, and each of the four models comprising the Retromaster Series offers the unique versatility of selectable dual lumen outputs, ensuring that the illumination level of the new LED fixture is identical to the one being replaced — a first for hazardous location rated lighting. Once installed, the Appleton Retromaster requires only 7 to 38 Watts to create the same level of illumination as an incandescent drawing 60 to 300 Watts, representing a huge improvement in energy efficiency.

Another customer problem that the Appleton Retromaster LED Series solves is eliminating the frequent need to replace bulbs in legacy incandescent fixtures. Incandescent light bulbs last approximately 1,200 hours, while Retromaster LED lighting has been tested to perform 60,000 hours (L70) and will not have to be changed for at least seven years. As of August 2023, incandescent bulbs were effectively banned from sale in the United States by the Department of Energy, leaving maintenance departments with only those in inventory.

For more information, visit
www.appletonelec.com

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IP5

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Enter Any KO on Both Sides of the Box



IP19/20

4-Conduit Block
PATENTED

IP21a

QwikBlock
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Use 4-Conduit Block (IP19 or IP20) with QwikBlock (IP21a)

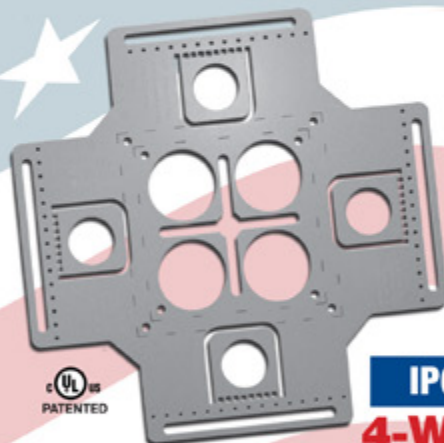
IP6d

2-Way

with Split Fingers for Horizontal or Vertical Installation



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IP6

4-Way

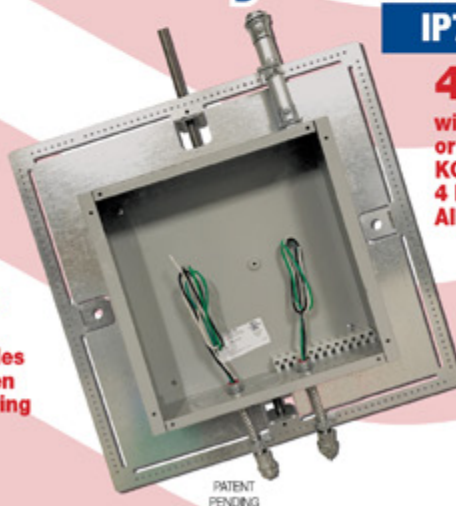
Enter Any KO on All 4 Sides of the Box Plus 4 Large Open KOs in Center Allows Entering Back of Box



IP6a

2-Way/Half

Enter Any KO on 1 or 2 Sides of the Box Plus Large Open KOs in Center Allows Entering Back of Box



PATENT PENDING

IP7

4-Way

with Split Fingers for Horizontal or Vertical Installation. Enter Any KO on All 4 Sides of the Box Plus 4 Large Open KOs in Center Allows Entering Back of Box.

IP8

Mount Horizontally or Vertically from One Single Support

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Supports up to 12 x 12 J-Box

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