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The Purchasing Guide for Electrical Contractors

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Photo courtesy of Cementex Products, Inc.



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IP10a

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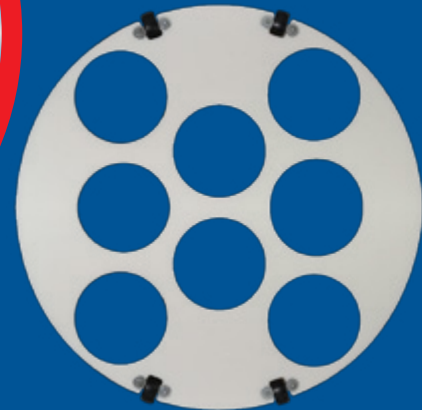
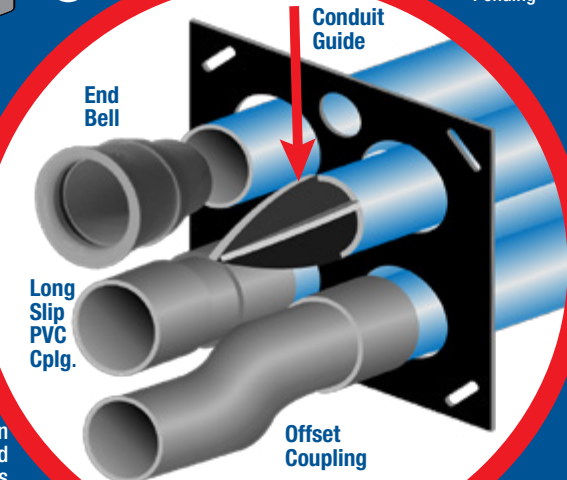
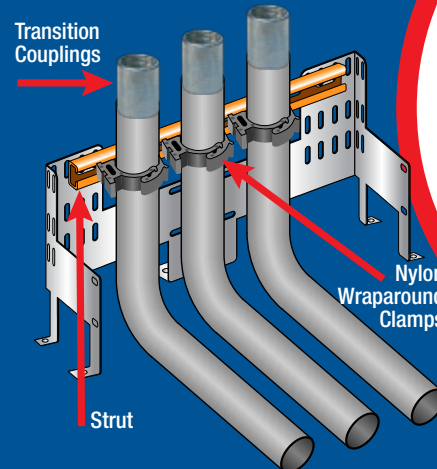
Bore Spacers

Sizes 1/2" thru 6"
Roll assembled conduit into caissons and under obstructions

IP2a



Transition Couplings



IP13a-p

Conduit Transition Couplings



PVC schedule 40 & 80

Transitions in Less Than

5 Minutes

Patent Pending



IP3a

End Bell Adapter
Schedule 40/80 PVC



Patent Pending

PVC/Liquidtite

PVC/MC Cable

PVC/EMT

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IP15

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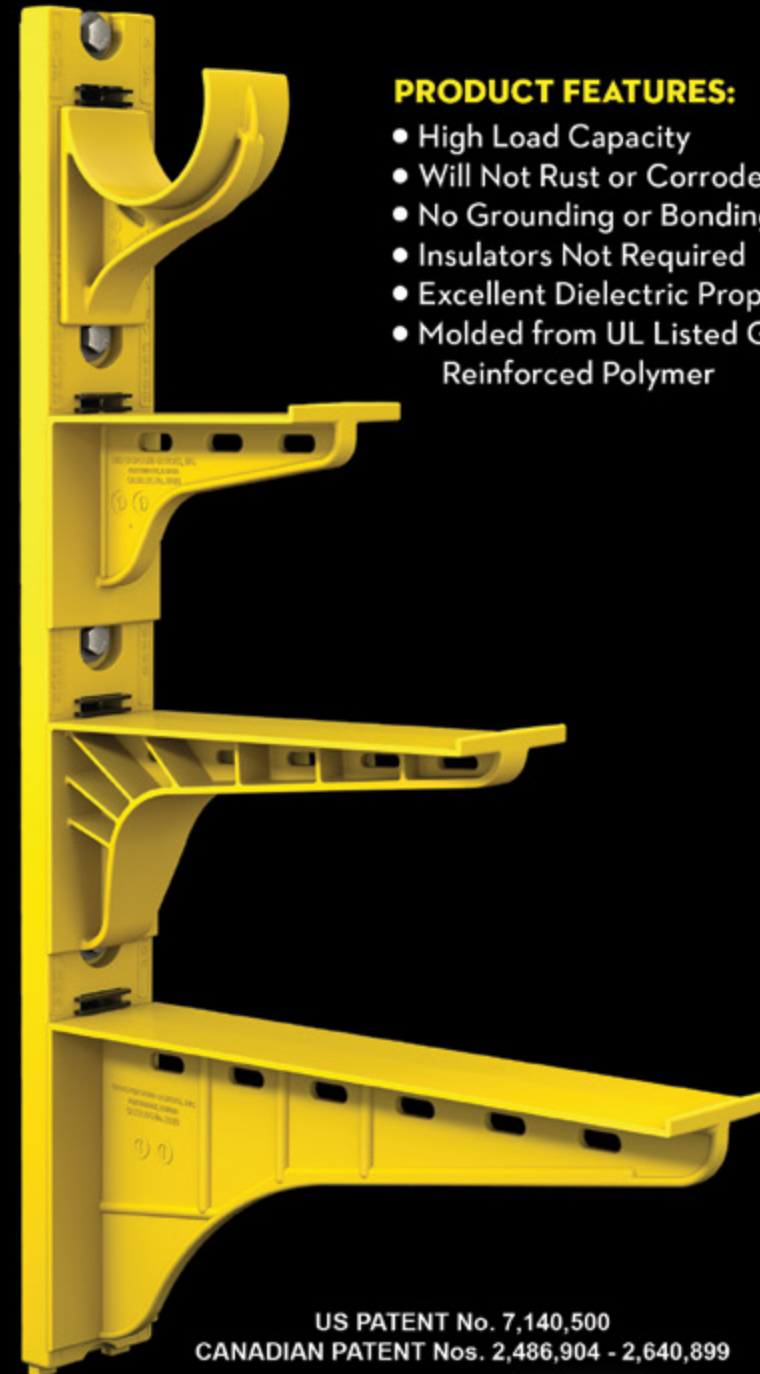
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US PATENT No. 7,140,500
CANADIAN PATENT Nos. 2,486,904 - 2,640,899



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.

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Protect Yourself

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:
www.electricalsafety.com, email
Vince at: sales@millersafetyltd.com.

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Class O Glove Kit

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Outer Layer: DuPont® Protera
Color: Navy

Inner Layer: Westex Ultrasoft
Color: Safety Orange



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Updated Arc Flash PPE Hoods and Face Shields Improve User Comfort and Safety

Ventilation, wider field of vision, and lift-front shields keep users safer than ever from arc flash hazards

BY **FRANKO GREGORY** and **DWAYNE SOMERS**,
CEMENTEX PRODUCTS, INC.

ARC FLASH INCIDENTS ARE OF MAJOR CONCERN for personnel working with energized equipment. When first adopted by OSHA in 2006⁽¹⁾, the arc flash Personal Protective Equipment (PPE) worn by these personnel was often hot, uncomfortable, and cumbersome. Innovations in arc flash PPE, however, are maintaining and even increasing user safety while also improving users' experience of comfort and visibility. Improved ventilation systems and the addition of hi-calorie lift front face shields help to reduce the cumbersome nature of PPE while keeping personnel safer than ever on the job.

Arc Flash Basics

Arc flash incidents can occur in energized equipment due to a number of causes: inadequate safe work practices, faulty insulation, improper grounding, loose connections, defective parts, ground faults in equipment, unguarded live parts, or even small animal incursion. Regardless of the cause, and though rare, arc flash incidents can be very hazardous to personnel working in energized environments, averaging 30,000 incidents every year according to the *Industrial Safety and Hygiene News*.⁽²⁾⁽³⁾

During an arc flash event, the extreme heat generated by the flash can ignite clothing and cause burns. Depending on conditions, a blast or explosion may

occur, leading to further harm. Proper clothing is required to protect personnel working within arc flash boundaries; while proper clothing resists heat and burns cleanly away, helping to protect wearers' skin, improper attire can melt, causing clothed areas to be burned even more severely than just exposed skin. What's more, arc flashes can lead to UV damage to eyes, hearing loss, extreme pressure on the body, and exposure to toxic fumes.

PPE Helps Prevent Arc Flash Injuries

Personal Protective Equipment specially designed for arc flash hazard areas can protect workers who are





exposed to arc flash events, regardless of their cause. Properly designed PPE takes time to burn cleanly away from the body, thus reducing the likelihood and severity of skin surface burns to personnel. This, in turn, increases

incident survivability and eliminates the hazards of melting clothing.

Arc flash PPE is regulated to ensure personnel safety. NFPA 70E® Article 130 – Work Involving Electrical Hazards – says, “Employees exposed

to electrical hazards when the risk associated with that hazard is not adequately reduced by the applicable electrical installation requirements shall be provided with, and shall use, protective equipment that is designed

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- Comply with ASTM F1505-01 standard
- Help you meet requirements of OSHA Safety Related Work Practices, NFPA 70E Standard and CSA-Z462

Cementex Double-insulated Tools are:

- Tested to 10,000 VAC and rated for 1,000 VAC when working on live parts
- Manufactured in the USA with domestic and global materials.
- Marked with the international safety symbol – (double triangle) 1000V

Class 00 Arc Flash Glove Kit

Class 00 arc flash glove kit from Cementex is a good option for a reliable kit for work with 500 Volts or less. The gloves are made of natural rubber construction, offering the required dielectric properties combined with flexibility, strength, and durability. Gloves feature rolled cuffs, and are anatomically shaped thereby reducing hand fatigue. Each glove is chlorinated for maximum comfort.

Components of Cementex IGTK00-11 glove kit:

- 11” long Class 00 rubber insulating gloves
- Leather protectors
- Canvas storage bag



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and constructed for the specific part of the body to be protected and for the work to be performed.”

These regulations state that when in use, arc rated clothing must both cover all ignitable clothing and allow for movement and visibility. The type of PPE required varies by the possible severity of an arc flash event, and thus by voltages of the energized equipment; in highly energized equipment where arc flash events may be severe, hoods and face shields are particularly important for protecting workers heads and faces from burns and UV light damage. These hoods must cover the wearer’s entire neck, while the face shield must wrap around to protect the face, chin, forehead, ears and neck. These hoods and face shields can be very hot and cumbersome, and can be inconvenient to put on and remove as needed during work and breaks or consultations.

Innovations in Hood and Face Shield Technology

Two innovations in arc flash PPE technology, specifically for hoods and face shields, can help to improve comfort and ease of use in hazardous arc flash environments. These improvements are a ventilation system throughout the PPE suit, and a lift-front face shield integrated into the hood.

The Cementex ventilation system features a durable Kydex™ shell and runs on AA batteries for 6 hours, reaching thirty five CFM.

The ventilation system improves comfort by increasing the amount of overall oxygen flowing suit; what’s more, on the extremely hot days the airflow assists in cooling workers’ skin and thus extending time between water breaks and reducing the risk of overheating.

The other major innovation is in the introduction of lift-front face shields integrated into arc flash PPE hoods. Take, for example, the lift-front face shields for the hoods in the Cementex



-  Runs on 8 AA Batteries
-  6 Hour Life
-  35 CFM
-  Durable Kydex™ Shell

Ultralight Series of Arch Flash PPE. The lift-front hoods provide a larger viewing area and provides personnel (who move out of the Arc Flash Boundary) with the ability to lift the face shield. By enhancing the area of view to see potential hazards and users’ peripheral vision, the new lift-front hood design helps to minimize accidental contact with energized, hazardous conductors. Outside the arc flash boundary with the face shield safely lifted, the personnel can consult with supervisors or coworkers, drink water, or allow greater airflow while taking a break without needing to remove the entire hood. Afterwards, it is simple to pull the face shield back down, return to the work zone, and continue working while adequately protected from arc flash hazards in a timely manner.

Cementex’s lift front hoods remain compatible with its innovative hood ventilation system, thus ensuring the greatest possible safety of personnel

in environment around energized equipment.

Any worker who is not diligent in their safety practices could fail to replace the hood to its protective configuration. As a result, retraining personnel to build up habits of securely latching the face shield before entering the arc flash boundary is important to ensuring the greatest possible safety.

Cementex PPE hoods are unique within the Arc Flash Protective Equipment landscape, as the hood completely covers users and is worn over a hard hat, with a headlight available on the top. This hood design enables the use of the ventilation system and provides greater overall protection to users. The lift-front face shield design enhances these innovative hoods even further.

Arc Flash PPE is Critical to Keeping Personnel Safe

Arc flash PPE is critical to keeping personnel working with energized equipment safe in the occurrence of an arc flash or arc blast hazard. Innovations in arc flash PPE help users to maintain

safe practices near energized equipment, reducing the risk of injury, while also providing a more comfortable, easier to use PPE experience. What’s more, these updates to arc flash PPE offerings also help protect users from secondary hazards like dehydration and overheating. The greater field of vision offered by some new arc flash face shields also helps users to maintain better visibility while working with energized equipment, thus reducing the risk of accidents and improving safety as well. □

(1) https://www.osha.gov/pls/oshaweb/owadisp.show_document?p_table=interpretations&p_id=25540#:~:text=10%2F18%2F2006%20%2D%20Incorporation,70E%2D2000%20into%20OSHA%20standards.
 (2) <https://www.cdc.gov/niosh/mining/userfiles/works/products/videos/arcflash/afa.pdf>
 (3) <https://www.nfpa.org/-/media/Files/News-and-Research/Fire-statistics-and-reports/Electrical/RFArcFlashOccData.ashx?la=en>



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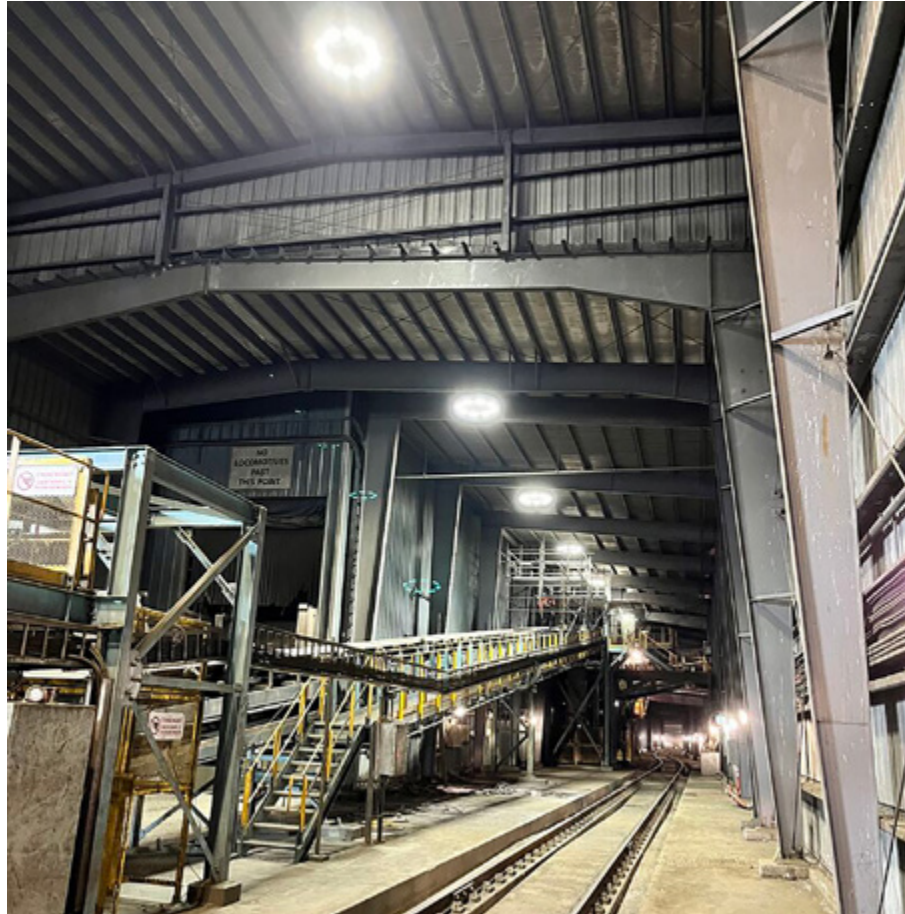
Emerson Announces New 10-Year Warranty for Appleton LED Luminaires

With over a century of expertise, Appleton, an Emerson brand, is reinforcing its enduring commitment to customer satisfaction and quality by introducing a new 10-year warranty that covers Appleton LED luminaires for both hazardous and ordinary locations. The new warranty stands as a testament to Appleton's longstanding dedication to providing exceptional products and service.

Appleton's unwavering commitment to delivering reliable, world-class engineering and manufacturing solutions is the driving force behind the extended warranty protection. As one of the most comprehensive warranties available for lighting products today, it underscores confidence in the superior quality of Appleton LED luminaires, ensuring they deliver an extended service life and trouble-free ownership, even in the most challenging environments.

Jami Thornton, Manager of Appleton Lighting Product Marketing of Emerson's Appleton Group, commented: "Our new extended warranty is built upon Appleton's superior engineering, consistent manufacturing excellence, and the innovation designed into every Appleton LED luminaire. Ten years of coverage-- from a company with over a century long history of producing reliable and rugged products -- gives Appleton customers a level of confidence in their lighting purchases that is unmatched in the industry."

With Appleton's new warranty, which is provided at no additional cost, customers will have unmatched peace of mind. For those transitioning from legacy incandescent, HID, or fluorescent lighting to Appleton's energy-efficient



LED technology, the ten-year warranty makes the switch even more compelling.

Appleton LED luminaires are engineered to withstand and perform in the harshest, most corrosive environments on earth, from the deserts of Saudi Arabia to wastewater treatment plants and petrochemical refineries. Every Appleton LED luminaire undergoes comprehensive electrical, dielectric and optical testing prior to final inspection to ensure superior performance in environments where

they will be subjected to corrosive chemicals, water, humidity and dust, extreme temperatures, heavy vibration, and electrical disturbances. Appleton understands that reliable lighting is key to improving operational efficiency and reducing expensive maintenance costs, regardless of the process application or whether the facility's geography requires ATEX, IECEx, NEC or CEC certification.

For more information, visit www.masteringled.com

ABOUT EMERSON

Emerson is a global technology and software company providing innovative solutions for the world's essential industries. Through its leading automation portfolio, including its majority stake in AspenTech, Emerson helps hybrid, process and discrete manufacturers optimize operations, protect personnel, reduce emissions and achieve their sustainability goals. For more information, visit www.Emerson.com.



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Learn more at: masteringled.com



Appleton™ Mercmaster™ Connect LED

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Elliott Electric Supply Expands to the Carolinas with New Charlotte Branch



Elliott Electric Supply is opening its new branch in Charlotte, North Carolina. This expansion marks the company's first presence in the Carolinas and reinforces its commitment to delivering exceptional customer service and industry-leading electrical distribution expertise to the region. The new location is set to be fully operational by September 9th.

The Charlotte branch, a 55,000 square foot facility strategically located adjacent to I-85 at 4250 Business Center Dr. Suite 300, will serve the Charlotte Metropolitan area and is designed to support commercial, industrial, and residential sectors.

"The biggest difference will be our commitment to inventory and having

stock on the shelves, readily available for customers. As we continue to add branches to the Carolinas, our inventory levels will grow, giving our customers the ability to get their jobs done," said Area Manager Dan Billingsley. "Being an independently owned and operated company, Elliott Electric Supply has always prided itself on having sufficient inventory for our markets, as well having consistent customer pricing across all 180+ branches."

In celebration of the new branch, Elliott Electric Supply is planning an open house event in early November, with details to be announced. Additionally, Elliott Electric Supply will be supporting the Mia Stokes Memorial Golf Tournament on October 21st, further demonstrating their commitment

to community involvement.

"The Charlotte branch will serve as the first branch in the Carolinas for Elliott and will help us bring a long-term commitment of excellence to the area. We plan to continue the growth here in Charlotte with additional branches but also envision other areas of both North and South Carolina in the very near future," said Billingsley. "Combining Elliott's Lower Cost, Quality Products and Personal Service along with our fantastic vendor support and representation, we believe we will be a great partner for every customer here in the Charlotte market and in the Carolinas."

For more information, visit our website or contact our Charlotte branch directly at 980-249-1969. □

ABOUT ELLIOTT ELECTRIC SUPPLY

Elliott Electric Supply, founded in 1972, is a leading independent electrical distributor committed to delivering outstanding service and expertise. With over 180 branches across 13 states, the company offers comprehensive electrical solutions across various sectors, including commercial, industrial, and residential. For more information, visit www.elliottelectric.com.



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Promoting Competency in Emergency Lighting:

A Critical Step for Safety and Industry Advancement

The Industry Committee for Emergency Lighting (ICEL), a part of The Lighting Industry Association (The LIA), enters a new phase in their mission to enhance competency and safety standards in the sector.

Emergency lighting is a cornerstone of public safety. It provides crucial illumination during power outages, enabling safe evacuation and preventing panic in emergency situations. However, the effectiveness of these systems relies heavily on the expertise of those who design, install, and maintain them.

For consumers and end-users, knowing that the professionals responsible for their emergency lighting systems are certified competent offers invaluable peace of mind. Whether in a commercial building, a public space, or a residential area, the assurance that emergency lighting systems will function correctly in a crisis is a matter of life and death.

For professionals, the ICEL Competency Recognition Scheme represents more than just a certification. It is a mark of excellence, validation of expertise, and a testament to their commitment to safety and quality.

“As we move into Phase 2, we are expanding the scheme’s reach, offering even more professionals the opportunity to have their skills validated and recognised. This not only enhances individual careers but also increases the overall standards within the industry.” Teresa Beazley, Commercial

& Training Manager, The LIA, commented, “Backed by a framework that spans six critical domains—Testing & Maintenance, Product Design Management, Specification, Installation, Sales & Distribution, and Scheme Design—the ICEL Competency Scheme is designed to recognise the professional skills, knowledge, experience, and



behaviours that are needed to succeed.” The competency framework’s six domains have been carefully developed to cover the full spectrum of emergency lighting work. Whether individuals are involved in the intricate process of product design, the precision required in testing and maintenance, or various aspects of installation and scheme design, there is a pathway for them within this scheme.

The Built Environment is undergoing significant transformation, with increasing emphasis on regulatory compliance, safety, and sustainability. Emergency lighting plays a significant role in this context, ensuring that all buildings, whether new or existing, are equipped to protect occupants in the event of an emergency.

ICEL’s commitment is to promote a culture of excellence within the emergency lighting industry, and by participating in the scheme, people are not only contributing to their personal and professional growth but also playing a vital role in advancing the industry as a whole.

Teresa also commented, “We encourage all professionals within the emergency lighting sector—whether you are new to the field or have years of experience—to take part in this initiative. Gaining recognition for your expertise is a powerful tool that can open doors to new opportunities and career advancement. Moreover, it demonstrates to clients, employers, and peers that you are dedicated to upholding the highest standards

of safety and performance. Together, we can ensure that every system, in every building, is designed, installed, and maintained by professionals who are truly fit for the task.”

For more information on how to get involved, or to learn more about the specific domains covered by the ICEL Competency Framework and Scheme, please visit our website or contact teresab@thelia.org.uk. □

ABOUT THE LIA

The Lighting Industry Association (LIA) is the largest trade association dedicated to lighting in Europe and is dedicated to serving the UK’s lighting industry and its supply chain. The LIA offers technical support, training, and advocacy to drive product innovation and improve the quality, safety, performance, and sustainability of the UK’s lighting market. For more information, visit <https://www.thelia.org.uk>.



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IP19

4-Conduit Block

Vertical support from only one 1/4", 3/8" or 1/2" threaded or threadless rods 1/4" or 3/8" threaded holes on the side along with slots for hex head bolts for hardware are provided for conduit support.



IP21a

QwikBlock

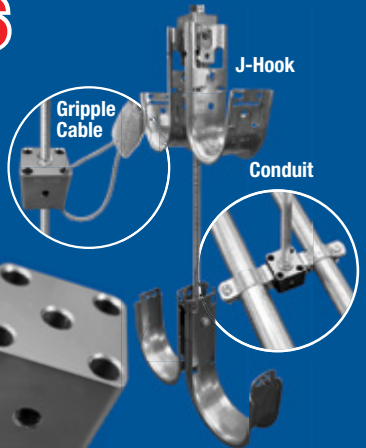
Vertical support from only one 1/4", 3/8" or 1/2" threaded rod by attaching two machine screws 1/4" x 20 thru the existing holes in back of the box. Eliminates knocking out center KO on box and traditional nut and washer method to support a single box.



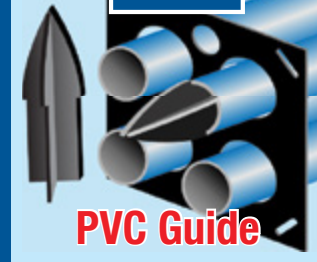
IP20a

Box Support Rod Cubes

Vertical support from only one 1/4" or 3/8" threaded or threadless rod with 4 holes for Gripple applications as well as 4 threaded 1/4" or 3/8" holes for conduit support hardware.



IP3e



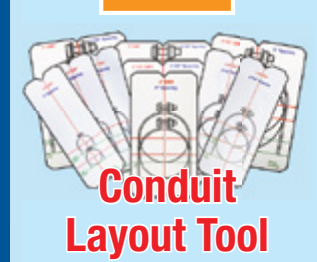
PVC Guide

IP2b



PVC Driver

TE15



Conduit Layout Tool

IP3g



Long Slip PVC

IP3f



Slip PVC/RGD

IP4



EZ Raised Bracket

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Robroy Industries Raceway Division Welcomes Milena Solis as New Product Line Manager

Robroy Industries Raceway Division is excited to announce the appointment of Milena Solis as the new Product Line Manager. With over 17 years of experience in product management and a proven track record of success, Solis is set to bring a wealth of expertise and innovation to the role.

Solis joins Robroy Industries from Atkore, where she excelled as a Product Manager. During her tenure, she led several high-impact product launches with budgets exceeding \$1 million, consistently surpassing revenue expectations. Solis played a pivotal role in growing the international market, particularly in Latin America, through the introduction of new products and effective marketing campaigns. Her strategic vision and ability to execute have made her a standout leader in the industry.

Prior to her time at Atkore, Solis held key product management roles at Panduit and Federal Signal Corporation. At Panduit, she was instrumental in growing market share and optimizing product profit and loss, resulting in a 49% increase in growth. Her contributions included leading successful projects with multimillion-dollar budgets and spearheading innovations that significantly boosted revenue.

“Milena’s extensive experience and impressive track record make her an exceptional addition to our team,” said Clinton Gehrman, President of Robroy Industries Raceway Division. “Her ability to drive product innovation, manage complex projects, and expand market presence aligns perfectly with



our goals for growth and excellence.”

As Product Line Manager, Solis will oversee the development and management of Robroy’s product offerings, focusing on enhancing product performance and customer satisfaction. Her appointment underscores Robroy Industries’ commitment to delivering top-tier products and services to its clients.

Solis holds an MBA from Kellery

Graduate School of Management and is known for her dynamic and collaborative approach. She is recognized for her ability to lead cross-functional teams and drive business initiatives that deliver measurable results.

Robroy Industries Raceway Division looks forward to leveraging Solis’s expertise to continue its tradition of excellence and innovation in the industry. □

ABOUT ROBROY INDUSTRIES RACEWAY DIVISION

Robroy Industries Raceway Division is a leading provider of high-quality raceway systems and solutions. With a commitment to innovation and customer satisfaction, the company delivers exceptional products and services to meet the evolving needs of its clients. For more information, please visit www.robroy.com.



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Install Peace of Mind...



RANDL Industries, Inc. is an electrical box manufacturing company dedicated to creating innovative solutions to industry challenges. RANDL Industries, Inc. is located in Spokane Valley, Washington. They invented and manufactured the first ever 5 Square® products.

RANDL's Founder and President, Robert Hagarty, spent nearly 30 years as an electrical superintendent and foreman in the electrical construction and installation industry and has been a member of IBEW Local 73 for many years. Over the years, Bob began to notice that the occurrence of ground faults and short circuits in fire alarm systems had become an increasingly severe issue and began tracking the associated troubleshooting hours. Realizing that the problem stemmed from the use of standard electrical boxes, Bob designed and created an entirely new line of back-boxes which he named the 5 Square®. The patented 5 Square® Box (5" x 5" x 2.875") eliminates ground faults and short circuits at the appliance due to the added volume of the box and space around the perimeter of the appliance. The

5 Square® also dramatically reduces stress on terminals resulting in fewer damaged appliances. In addition, a major fire signal manufacturer allows a full complement of conductors to be routed in the box per NEC Table 314.16(B). This allows additional circuits and zones to be pulled through the 5 Square®, potentially reducing conduit. All of these advantages tend to save contractors \$20 - \$30 per installed appliance.

RANDL's second generation of innovative products culminated in their 5 Square® Telecommunications Box. What makes the 5 Square® Telecom Box so special? In addition to the increased size and volume, which allows for slack cable/service loop in the box, the 5 Square® Telecom Box incorporates a cable management system guaranteeing minimum bend radius as required by cable manufacturers. Historically, infringement of cable bend radii was not an issue, but due to current and future transmission rate increases, bend radius observance is now very critical. The 5 Square® Telecom Box supports categories 5e, 6, Augmented 6, 7, Augmented 7, and optical fiber cables as well as expected future

generations of cable sizes. Slack cable/service loop in the box reduces labor during installation as well as future maintenance labor which further increases cost savings.

Due to the value added benefits and related cost savings of the 5 Square® products many engineering firms, universities, hospitals, and government agencies have become avid proponents and specifiers of the products.

The 5 Square® Boxes have a complementary line of plaster rings that adapt from 5 Square® to 4 square and from 5 Square® to standard 1 and 2 gang openings in depths from flat up to 2 inches. There is also an adapter from 5 Square® to 4-11 for mounting fire alarm zone modules.

Create a Robust and Unrivaled Infrastructure for the Life of your Facility with the 5 Square® Products!

For more information on the 5 Square® Products please contact us at (509) 340-0050 or sales@randl-inc.com. You can also learn more at www.randl-inc.com. Thank you for choosing RANDL Industries, Inc. □

Avoid the dangers of foreign knock-offs and only buy American Made RANDL products!

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INDUSTRIES, INC.

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INDUSTRIES, INC.

Install Peace of Mind!

First there was 4 square...
and now the **REVOLUTIONARY 5 Square® Box!!**

You've struggled with 4 Square boxes for years - you know how small, cramped and time consuming they are. Finally, there is a solution that allows you the space you have always needed.

The 5 Square® Boxes (5" x 5" x 2-7/8") provide up to 88 in³ of interior volume which more than doubles that of most existing boxes on the market.

Create a robust and unrivaled infrastructure for the life of your facility with the 5 Square® Products!

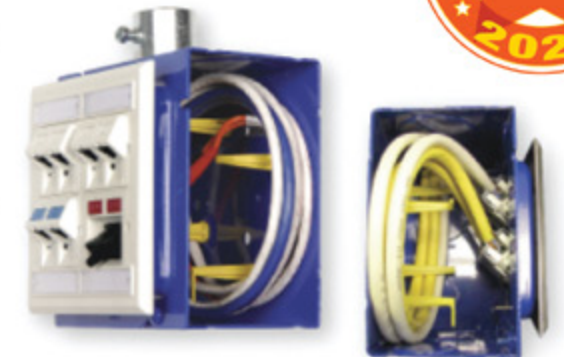


Fire Signal



- TWICE THE VOLUME AS MOST BOXES
- SAVE LABOR...INCREASE PROFITS
- ELIMINATES TROUBLESHOOTING TIME AND COST
- FULLY UPGRADEABLE SYSTEM
- SPECIFIED BY ENGINEERING FIRMS, HOSPITALS, UNIVERSITIES & GOVERNMENT AGENCIES
- AVAILABLE IN ZINC OR RED

Telecommunications



- INTEGRAL CABLE MANAGEMENT
- SAVE LABOR...INCREASE PROFITS
- FACILITATES MIN. BEND RADIUS REQUIREMENTS
- SUPPORTS CURRENT AND EVOLVING SYSTEMS
- SUPPORTS PoE PLUS
- SPECIFIED BY ENGINEERING FIRMS, HOSPITALS, UNIVERSITIES & GOVERNMENT AGENCIES

RANDL
INDUSTRIES, INC.

P: 509.340.0050 • F: 509.340.0051

See our line of telecom & fire signal boxes at: www.RANDL-INC.com

Making Communications & Fire Protection More Reliable & Cost-Effective!

Hammond Power Solutions Awarded Top Spot in 2024 TSX30 Ranking

Hammond Power Solutions Inc. (“HPS”) (TSX: HPS.A) a leading manufacturer of dry-type transformers and power quality solutions, announced the recognition as the top-performing company in the 2024 TSX30 ranking, highlighting the top-performing companies on the Toronto Stock Exchange.

“Being named the top company in the 2024 TSX30 underscores the

commitment from our employees and customers as we drive progress to further electrify the global energy system,” said Adrian Thomas, CEO, Hammond Power Solutions. “As jurisdictions globally recognize the need to utilize electricity as a primary source of power, we are making significant investments in our business to meet customers’ future demands and are proud to play a role in decarbonizing energy systems.” □



ABOUT HAMMOND POWER SOLUTIONS INC.

Hammond Power Solutions Inc. (“HPS” or the “Company”) enables electrification through its broad range of dry-type transformers, power quality products and related magnetics. HPS’ standard and custom-designed products are essential and ubiquitous in electrical distribution networks through an extensive range of end-user applications. The Company has manufacturing plants in Canada, the United States (U.S.), Mexico and India and sells its products around the globe. HPS shares are listed on the Toronto Stock Exchange and trade under the symbol HPS.A.
Hammond Power Solutions – Energizing Our World



Emerson Introduces Appleton Areamaster Connect LED Floodlight with Integrated Photocontrol for Unmatched Reliability

Smart LED floodlight provides safe, dependable illumination in harsh and hazardous locations while reducing energy consumption

Emerson recently announced its new Appleton™ Areamaster™ Connect LED floodlight designed for harsh and hazardous industrial environments. Equipped with a WirelessHART network sensor module, an integrated photocontrol, and automated lighting controls, Areamaster Connect LED floodlights let facility managers optimize lighting operations to only use light when needed. Facilities can now extend product lifetime and reduce their energy consumption by up to 80 percent compared to traditional light sources, all while strengthening WirelessHART mesh networks.

With versions that offer up to 38,000 lumens and the flexibility of four different beam patterns and five color temperatures, the new luminaire meets a wide range of lighting requirements. It also conforms to NEC/CEC and ATEX/IECEX hazardous certifications for global use in the most demanding environments.

Integrated Photocontrol for Daylight Harvesting

The majority of industrial flood lights on the market today require the separate purchase of a discrete photocontrol that adds to the cost and complexity of installation. To avoid these problems and promote reliability, Emerson engineers hardwired the Areamaster Connect’s photocontrol and contained it safely within the luminaire enclosure.

Once the luminaire’s integrated photocontrol detects natural light, it will measure the brightness and automatically dim the Areamaster Connect to a safe preset level in response to changing daylight availability. The intelligent LED driver has a dimming range of 0 to 100 percent brightness that takes the Areamaster Connect’s potential energy savings far beyond that of other LED flood lights.

Customers can choose from either a hazardous location version of the Areamaster Connect LED floodlight for tank farms and areas where flammable gases and vapors are present, for example, in oil and gas refineries, hydrogen plants, wastewater treatment centers, and petrochemical processing, or an industrial version for ordinary locations, such as steel production plants, power generation facilities and loading docks. Both versions are IP66/67 rated and NEMA 4X for marine use.

**For more information, visit
www.masteringled.com/smartled**



Security Kit for Wire Mesh Tray

The Security Kit for Wire Mesh Tray is designed as a data center’s frontline defense against data for cyber attacks and physical tampering by preventing unauthorized access to cables carrying sensitive data. The first of its kind on the market, each kit easily converts existing sections of wire mesh tray into a completely enclosed, secured run for robust pathway protection. This latest solution is perfect when it comes to data center wiring as well as potentially insecure areas in office settings like conference rooms and hallways.

Top highlights of the Security Kit include:

- **Single Source Supplier:** Kit contains everything needed for installation including a solid steel cover, solid steel 3-sided insert and secure connectors that attach using tamper-proof screws.
- **Durable Finishes:** Available in pre-galvanized or black finishes that help extend the lifespan of the product.
- **3-Sided Steel Inserts:** Compatible with standard Cablofil® Wire Mesh Tray, installed quickly and easily to create a partially enclosed pathway that protects and conceals cables.
- **Versatile Compatibility:** Easily converts sections of existing wire mesh tray system into a completely enclosed, secured

**For more information, visit
www.legrand.us**

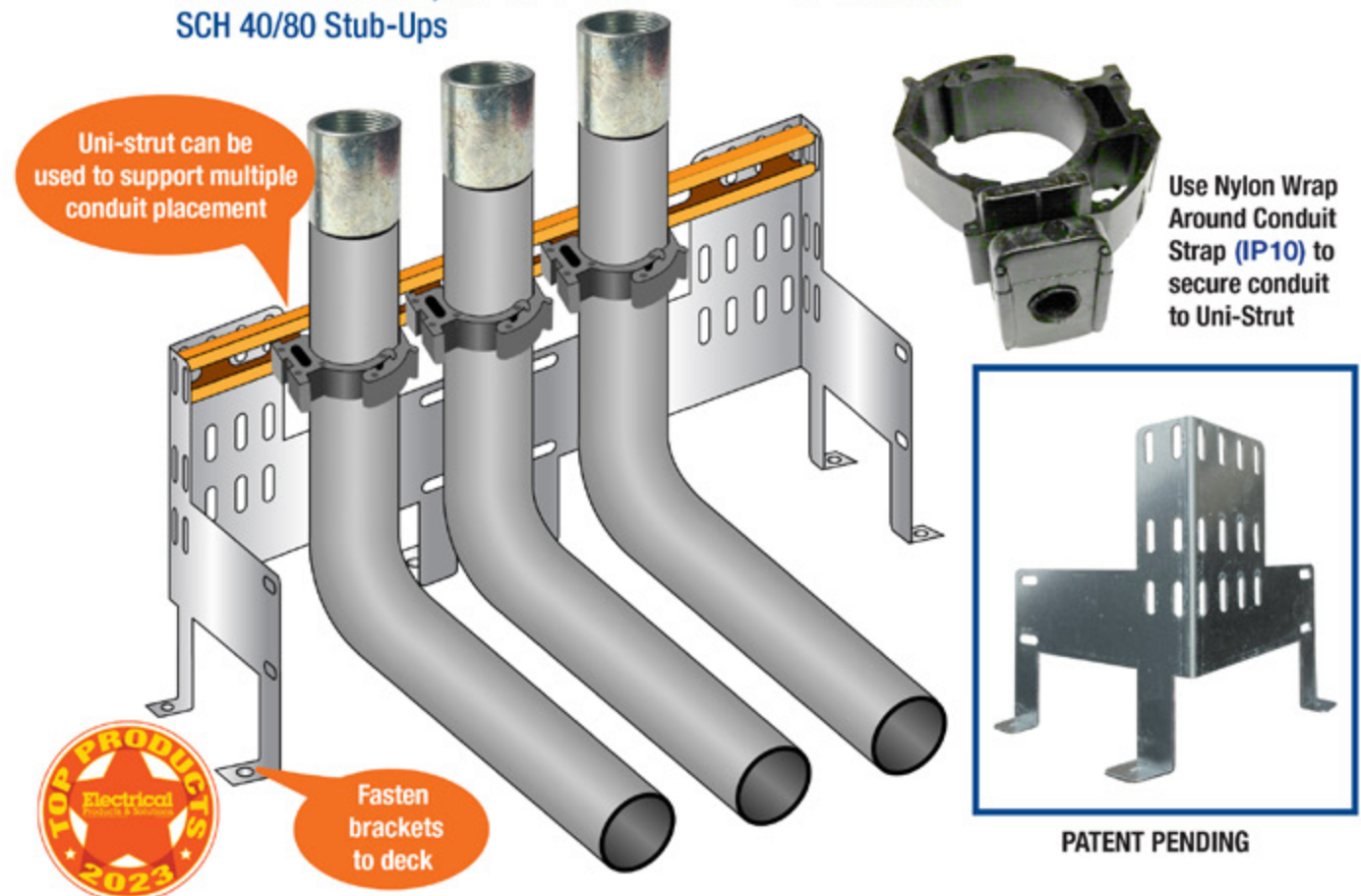


EZ Stub-Up SUPPORT BRACKET

- 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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PATENT PENDING
 PATENTED

LABELS APPLY TO PRODUCTS ONLY WHERE SHOWN ABOVE



Milwaukee® Unveils Next Generation of Tape Measures: Innovation for Every Jobsite Application

Introducing the next generation of tape measures from Milwaukee Tool, meticulously designed to meet the diverse needs of professionals. Whether facing the toughest jobsite conditions or requiring specialized features for precise tasks, Milwaukee's next generation lineup delivers on the demands of the jobsite with new solutions including the STUD™ Tape Measure, Wide Blade Tape Measure, Magnetic Tape Measure, Electrician's Magnetic Tape Measure, Compact Tape Measure, and Auto-Lock Tape Measure. This latest generation of tape measures is designed to excel in jobsite conditions, offering exceptional durability, precise measurements, and advanced features to enhance performance and efficiency across various applications.



"Spending hundreds of hours alongside professionals on the job, we understand that meeting a variety of jobsite demands is non-negotiable for professionals," explains Santiago Pava, Group Product Manager for Milwaukee Tool. "Each line of our next-generation tape measures is designed with a range of features for specific application needs. Through relentless innovation and rigorous in-field research, our new tape measures deliver unmatched reliability and precision, setting new standards in the industry."

- **STUD™ Tape Measures: Redefining Durability on the Jobsite.**
- **Wide Blade Tape Measures: For Longest Reach and Straightest Standout on the Jobsite**
- **Magnetic Tape Measures: Providing a Straighter, Stiffer Blade**
- **Compact and Auto-Lock Tape Measures: Delivering Reliable Performance and Convenience**

All Milwaukee tape measures are covered by a Limited Lifetime Warranty. These innovative trade-focused solutions demonstrate the company's dedication to increasing productivity for the user.

For more information, visit
www.milwaukeetool.com/Pipeline



DEWALT® Announces TOUGHSYSTEM® 2.0 DXL™ Storage Lineup, the Industry's First 30 in. Modular Workstation System Designed for Optimal Productivity

A tough-terrain dolly, versatile drawer options, and a functional worktop create an all-in-one workstation that delivers jobsite tool accessibility and productivity

DEWALT, a Stanley Black & Decker (NYSE: SWK) brand and leader in total jobsite solutions, recently announced new TOUGHSYSTEM® 2.0 DXL™, the industry's first 30 in. modular storage system with a functional workstation that is easily transported and built to withstand tough jobsite conditions.

The newly released TOUGHSYSTEM 2.0 DXL™ lineup includes four 30 in. products: a Worktop, Deep Drawer Unit, 2-Drawer Unit and Dolly. All pieces can be easily customized, are compatible with existing TOUGHSYSTEM® 2.0 products, and fit under most truck covers allowing users to comfortably work from their truck beds. TOUGHSYSTEM® 2.0 modules can

be connected and stacked from the top or bottom of TOUGHSYSTEM® 2.0 DXL™ Drawers using patented auto-connect front latches.

"The TOUGHSYSTEM® 2.0 DXL™ Modular Storage System was designed to address user pain points and provide pros a solution that can be customized to their needs on the job," said Dave Veprek, Vice President of Product Management, DEWALT. "Benefits include a waist-high workstation, truck-ready modules, and features to secure tools, all contributing to optimal productivity and enhanced workflow – it's a game-changing system."

For more information, visit
www.dewalt.com

Southco: Quick Access Fastener vs a Traditional Screw?

The main advantages of a quick access fastener over a traditional screw are the reduced time and effort required operate it. Quick access fasteners typically require only a quarter-turn or other single-motion to release, allowing for quick and easy access to the component being secured. This can be particularly beneficial in applications where frequent access is required, such as in maintenance or repair scenarios.

Another important advantage of quick access fasteners over screws is vibration resistance. This ensures panels remain secure, while traditional screws and lock washers may loosen over time due to vibration.

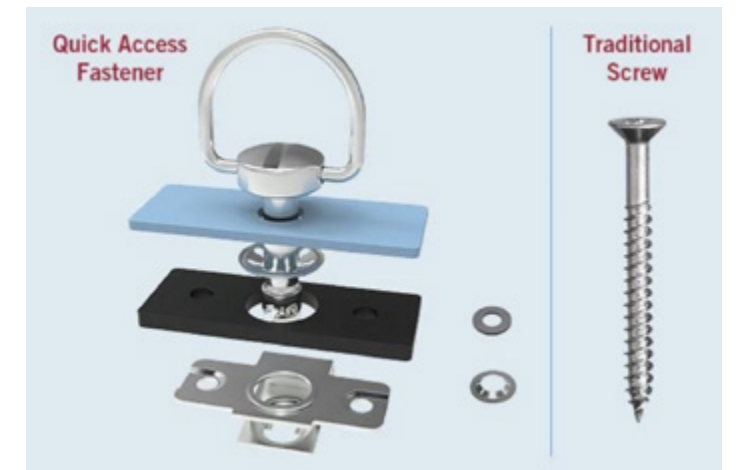
Quick access fasteners also provide a secure and reliable clamping force, with minimal risk of over-tightening or under-tightening. This can be a common issue when manually tightening a traditional screw.

In addition, quick access fasteners are available in a wide range of materials and sizes to meet various environmental and strength requirements. With flush-mounted and other low-profile designs providing a sleek and unobtrusive appearance while still maintaining a secure connection.

Life expectancy, or cycle life, is another crucial benefit. Is the part going to stand the test of time? For applications that require quick and frequent access, you need a part that can perform consistently over a long period of time. With the easy quarter turn motion, quick access fasteners can outperform a traditional screw's cycle life.

The enhanced performance and benefits of quick access fasteners do have a price premium and may be a bit much for applications where only very occasional access is required. However, for applications requiring frequent access, quick access fasteners facilitate fast and easy operation while remaining secured to the panel, preventing fastener loss.

Ultimately, the choice between a quick access fastener and a traditional screw will depend on the specific requirements and constraints of the application. Factors to consider include the frequency of access required, vibration, the level of security needed, the space available for installation, and the budget for the project. In some cases, a combination of both quick access fasteners and traditional screws may be the best option to balance the benefits of each type of fastener.



For more information, visit
www.southco.com/quick-access-fasteners



FlatMax™ Flat Panel G5 High Lumens

Maxlite's new High Lumen Controls Ready Back-lit Flat Panels deliver up to 7500 lumens in a 2x4 size and 6000 lumens in a 2x2 size, making them ideal for high-ceiling commercial interiors such as offices, schools, and healthcare facilities.

- Up to 7500 lumens
- 2'x2' and 2'x4' Sizes
- CCT selectable 3500/4000/5000K
- Wattage fixed and selectable models
- 0-10V Dimmable (10-100%)
- DLC Premium Listed
- 10-year standard warranty

For more information, visit
www.maxlite.com

new
PRODUCTS

Optimizing Productivity on the Jobsite: DEWALT® Announces Extensive Range of New Innovations in Hand Tools and Accessories Designed for Trade Professionals

- DEWALT unveils the 20V MAX* GRABO Lifter boasting a lift-load capacity of up to 265 lbs. max in horizontal lifting, carrying and installing heavy construction materials across all trades
- The IMPACT CONNECT™ System expands with new Inside Pipe Cutter, and PEX Crimper & Pincher Attachments for mechanical, electrical, and plumbing professionals
- Joining the DEWALT TOUGHSERIES™ lineup are new mechanics tool sets and wrench sets featuring powerjaw technology as well as 144-tooth Count Quick Release Ratchets



DEWALT, a Stanley Black & Decker (NYSE: SWK) brand and leader in total jobsite solutions, recently announced a new lineup of innovations in its hand tools and accessories category designed to empower tradespeople on the jobsite by optimizing user workflow and productivity. New product offerings, anchored by the 20V MAX* GRABO Lifter and additions to the IMPACT CONNECT™ System, provide solutions for a variety of trades including mechanical, electrical, plumbing and automotive.

“The expansive new roster of groundbreaking hand tools and accessories continues to strengthen DEWALT’s ecosystem of tools and technology that provides end-to-end solutions,” said Dave Veprek, Vice President, Hand Tools, Accessories & Storage, DEWALT. “In alignment with DEWALT’s 100-year legacy of productivity and performance, each product is designed to deliver on the demands of trade professionals, enhancing their workflows every day on the job.”

For more information, visit
www.dewalt.com



Newly Redesigned SCEPTER® Service Entrance Fittings Provide Easy Electrical Conduit Installation

The improved fitting selection delivers higher quality, dependability, and effectiveness for exterior electrical applications.

IPEX by Alliaxis, a leading manufacturer of thermoplastic piping systems, now offers a newly redesigned line of Scepter® Service Entrance Fittings for nonmetallic electrical conduit sizes 2½ inches to 4 inches.

Made of rigid PVC, the fittings feature a new compact design with a snap-in assembly. Unlike the previous heavy and bulky fittings, the newly redesigned offerings are sleek and lightweight, making them easier to install. In addition, the

redesigned 2½ inches to 4 inches sizes are UL-listed and CSA-certified.

Service entrance fittings bring electrical service to the exterior of a structure. They are installed on top of a mast, where an overhead cable connects the main power line to the building. The Scepter range includes adapters, couplings, elbows, access fittings, boxes, cover plates and expansion fittings — virtually any fitting required to complete the PVC conduit system.

The versatile Scepter Rigid PVC fittings will meet the needs of various commercial applications: utilities, airports, parking garages, and water and sewer treatment plants. Suitable for exposed, concrete-encased, and direct-burial applications, these fittings provide concrete tightness in all weather conditions while offering high impact and tensile strength.

“We are thrilled to introduce our latest range of Scepter Service Entrance Fittings,” says Martin Pepin. “With their sleek and lightweight design, these fittings offer effortless installation, ensuring a seamless experience for our customers.”

For more information, visit
www.ipexna.com

- + Rise Higher
- + Go Farther
- + Shine Brighter
- + Work Smarter

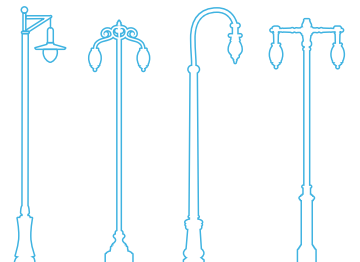
The New
100W OmniMax



Dependably beautiful. And dimmable.
The new 100W joins our 40W and 70W catalog. With 0-10V dimming, most models meet DLC 5.1 requirements and are eligible for rebates. Ask too how ConnectLED can help you set the scene.

You asked, and we delivered. The 100W OmniMax LED retrofit was designed specifically for applications where you need more light from your decorative fixtures, such as taller pendant and teardrop applications (>25’), and locations where decorative luminaires are the primary light source.

A new patented Evluma driver delivers higher lumen output, even at lower CCT levels. Pair that with OmniMax’s revolutionary low-glare optics, and you get the kind of light your decorative fixtures were built for: warm, beautiful and bright.




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Warming Up to Electrical Heating Cables

WHAT'S NEW

- Conduit Repair Systems, Inc. The World Leader in Split Conduit Products
- DMF Lighting Expands its M Series Commercial Collection with High Lumen Packages for Hospitality and Mix-Use Spaces
- New Multi-Tester from Klein Tools! Combines Core Electrical Products into One Model
- RPS Launches SlowWave Filter To Safeguard Motor and Cables

CORDLESS CANNON 6K

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Speed, versatility, and performance are all yours with iTOOLco's Cordless Cannon 6K™. This portable 6,000 lb. puller is intuitively designed to handle all of your day-to-day wire pulls.

The built-in capstan switch automatically turns the puller on and off. Simply tug on the rope to start the pull and slack off the rope to shut it down. Delivers dynamic performance in remote locations or areas where power is not yet available.





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FOR SAFER BETTER FASTER JOBS



We're Proud to be the Electricians' Friend for Over 50 Years!

IP5

"The Original"

Enter Any KO on Both Sides of the Box



IP19/20

4-Conduit Block
PATENTED

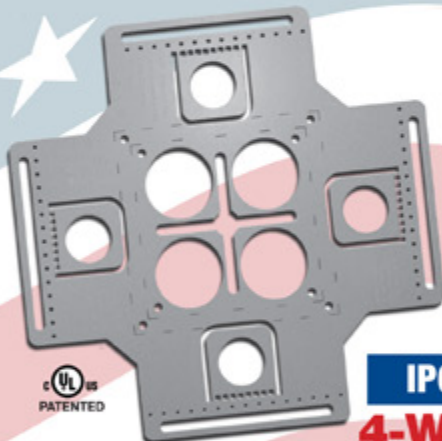
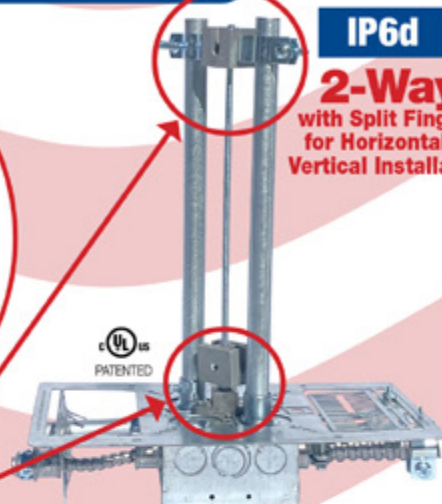
IP21a

QwikBlock
PATENT PENDING

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

IP6d

2-Way
with Split Fingers for Horizontal or Vertical Installation



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

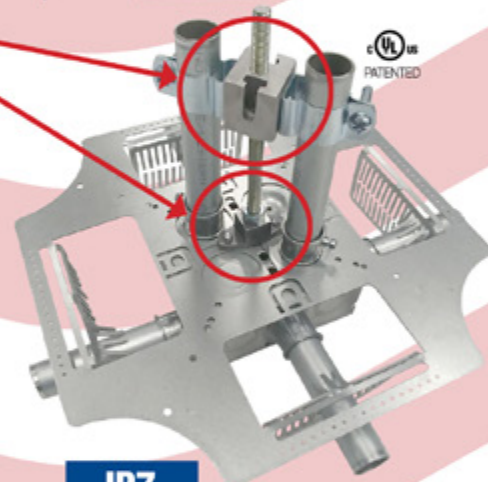
IP6a

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



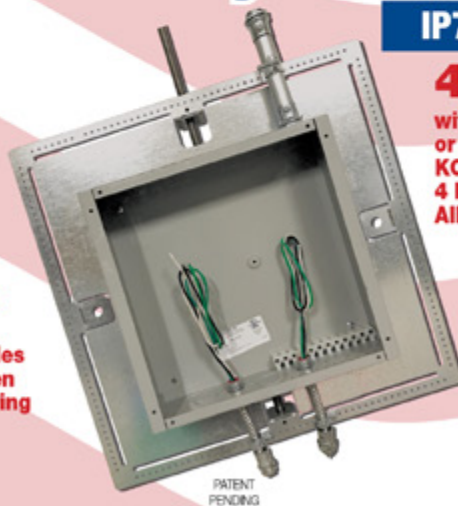
Our Family of Conduit & Box Support Plates Saves Valuable Time & Money!



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.



PATENT PENDING

IP8

Mount Horizontally or Vertically from One Single Support

20 x 20

Supports up to 12 x 12 J-Box

28 x 28

Supports up to 20 x 20 J-Box

MADE IN THE USA!

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