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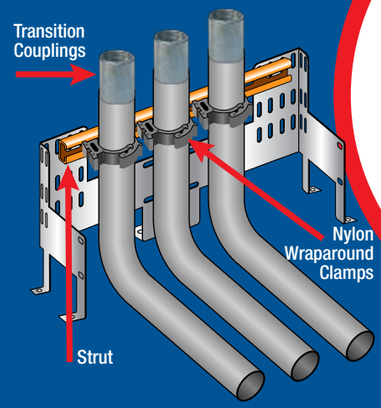
PVC Offset
Sizes 1/2" thru 6"
Meets Flexible Madrel Test Requirements
Patent Pending

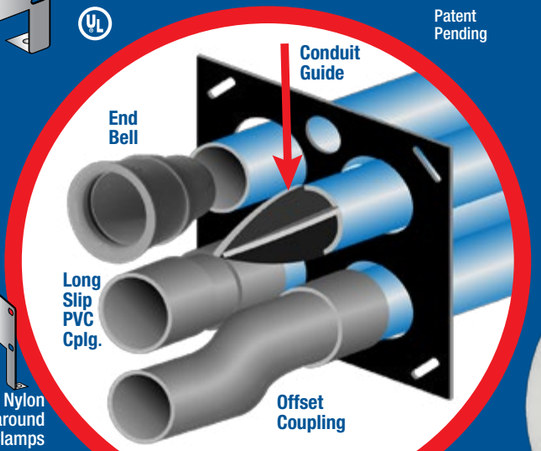
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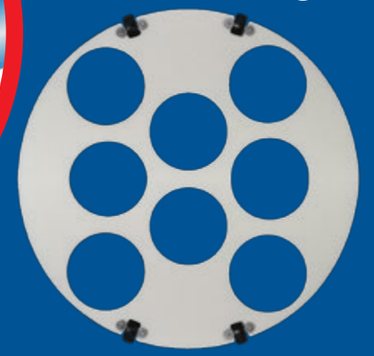
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COMPANY PROFILE

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Miller Safety Consultants —
A Leader in Arc Flash Protection
BY **VINCENT MILLER**

COVER STORY

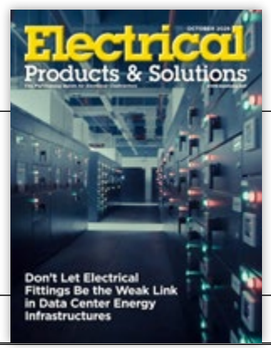
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Protect Yourself

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.electricalsafetysupply.com, email Vince at: sales@millersafetyltd.com.



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Don’t Let Electrical Fittings Be the Weak Link in Data Center Energy Infrastructures

Data centers are being reshaped by artificial intelligence, cloud expansion, and massive hyperscale investment — yet a single bad connection can bring operations to a standstill

BY **FRANK CUNNINGHAM**,
SENIOR PRODUCT MARKETING MANAGER,
EMERSON | APPLETON GROUP

Today, there are approximately 12,200 data centers operating worldwide with thousands more slated to come online in the coming years. Global capacity is projected to nearly double by 2030 with AI and hyperscale cloud demand driving most of that new build-out. Along with new construction, existing data centers are scaling their operations, adding more high-density servers and storage devices to meet vast computational needs.

Not surprisingly, data center energy requirements are growing at the same breakneck pace. Data centers consume up to 50 times as much electricity per square foot as conventional offices, making them one of the most energy-intensive building types. In 2023, energy usage by U.S. data centers reached 176 TWh, representing 4.4% of overall electricity consumption in the U.S. By 2030, data center energy use is expected to quadruple, primarily due to the use of accelerated servers for AI services.

This insatiable appetite for power puts enormous strain on data center electrical infrastructure, yet the components under the most scrutiny are rarely the ones that actually determine reliability. Multi-megawatt UPS systems and switchgear get the attention, but a power distribution system is only as strong as its smallest connection point. Conduit bodies, unions, couplings, elbows, cord grips, cable glands, hubs, bushings, tray cable accessories, outlet boxes and



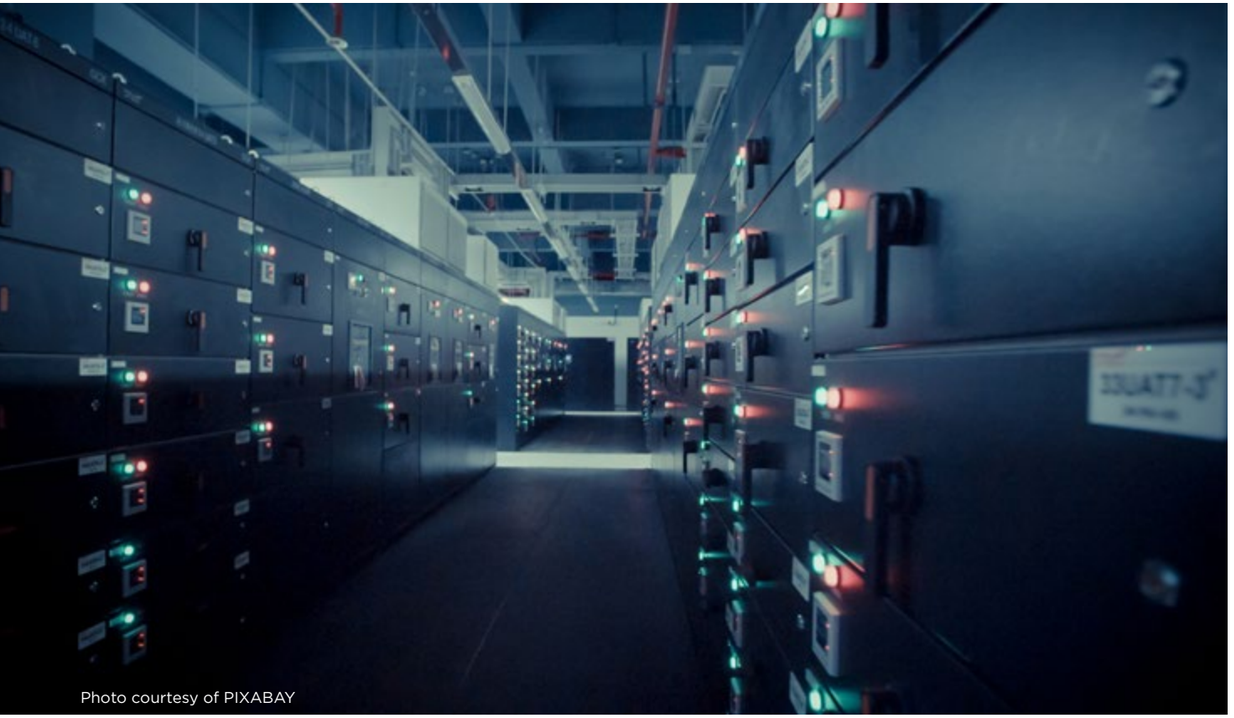


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enclosures — these are the building blocks that hold the entire electrical path together, and they're too often treated as commodities rather than critical hardware. A single substandard fitting or a poorly rated coupling can become the weak point in an otherwise redundant system: a source of arcing, corrosion, loosening under thermal cycling, or moisture ingress that no amount of UPS capacity can compensate for.

Redundancy buys resilience at the system level, but it can't fix a failure born at the component level. That's why specifying every element of the electrical infrastructure — down to the smallest connector — isn't over-engineering. It's the difference between planned uptime and an unplanned outage.

WHAT IS A DATA CENTER

Before diving in, it's worth understanding what a data center is and how dramatically that definition has evolved in just the past few years.

Data centers have always been the quiet infrastructure behind the digital world. These windowless concrete fortresses house the servers, storage systems, and GPUs that keep modern business running, backed by the cooling, backup power, and physical security that make them mission-critical environments. Data centers span an enormous size range, from a few-hundred-square-foot server room to mega-campuses like Switch's Citadel Campus in Nevada, designed to reach up to 7.2 million square feet at full build-out.

Data centers themselves aren't new. What's new is what they're built for. A decade ago, these facilities were largely storing files and serving websites. Today, they're training and running AI, a workload that demands a step-change in power density, and with it, a step-change in the quality and reliability of the hardware infrastructure behind it.

HOW DATA CENTERS ARE POWERED

The largest hyperscale and AI data center campuses routinely draw between 100 MW and 500 MW, which translates to millions of kilowatt-hours a day and easily matches the continuous power demand of a small or mid-sized city. Where does this power come from?

Most data centers rely on the local electrical grid. Electricity drawn from the grid typically is stepped down to a lower voltage using transformers (480V or 208V). It's then distributed throughout the facility via Uninterruptible Power Supplies (UPS), metered or unmetered Power Distribution Units (PDUs), and in many facilities, Remote Power Panels (RPPs) that break the PDU's output into individual branch circuits. These branch circuits are routed to rack power distribution units (rPDUs) located within the server racks, where power is then delivered to the individual IT devices, completing the power distribution path. The UPS ensures immediate, redundant power in the event of a short interruption, along with protection against surges and sags. During extended outages, the data center may activate backup generators or redundant utility feeds. Another backup option is microgrids that integrate

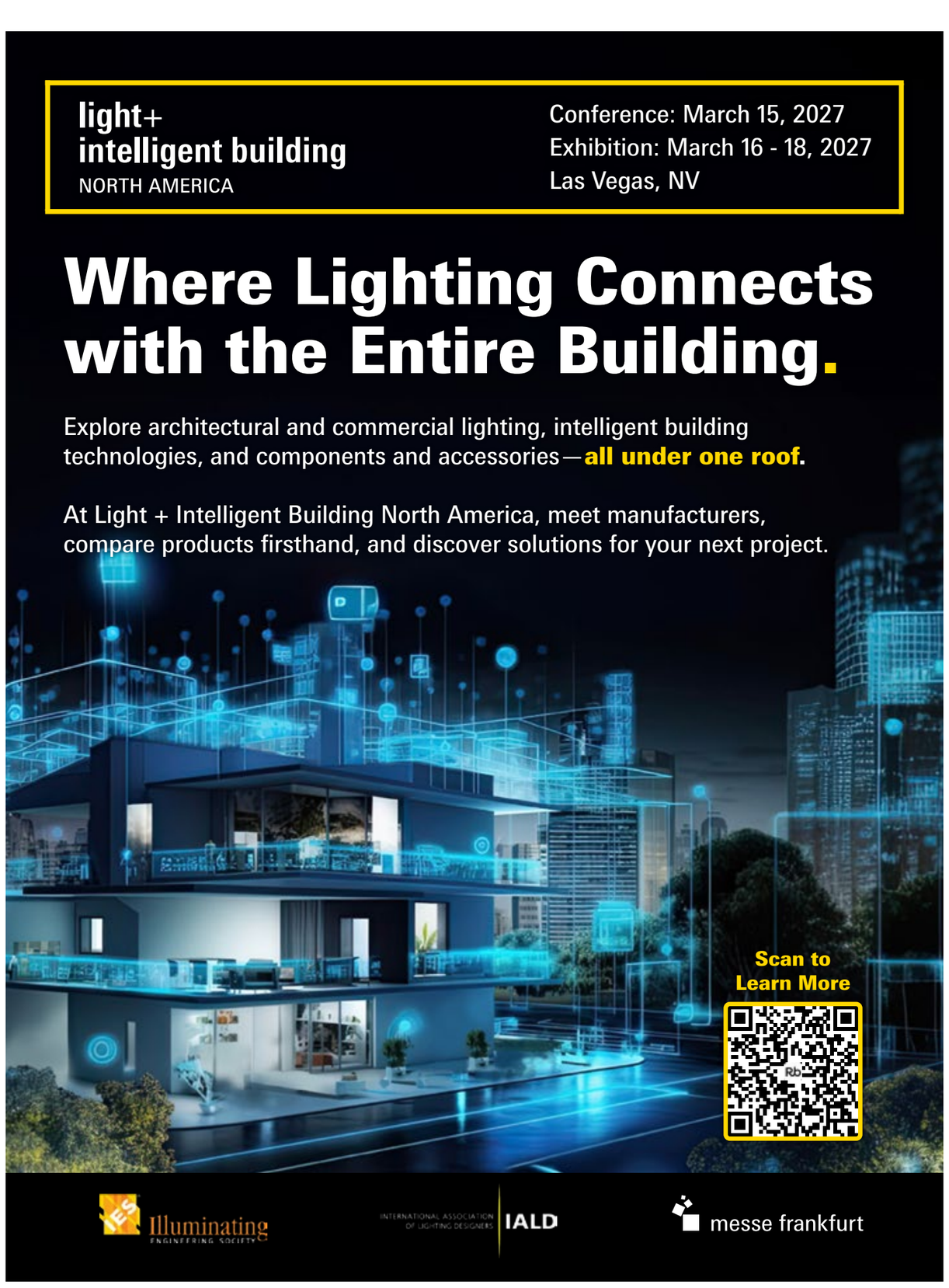
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renewable energy sources.

Yet even the most robust power architecture isn't immune to failure. When redundancy measures fall short, the consequences ripple through the entire facility and they add up fast. Even a short power outage at a data center will interrupt the mission-critical applications it hosts. Longer power interruptions can corrupt data, or put a halt to cooling systems, leading to cascading failures including damaging servers and data storage devices.

Financial consequences are dire. A 2020 report pegged the average cost for a data center outage at $12,900 per minute, rising to $23,750 for larger enterprises. Industry surveys by ITIC reveal that 90% of mid-to-large enterprises face losses exceeding $300,000 per hour. Within that group, 41% of enterprises report losing between $1 million and $5 million per hour during a severe incident. Indirect costs linked to an outage can multiply expenses by adding data recovery and restoration fees, legal and compliance penalties, as well as lost productivity associated with employee downtime.

Depending upon its square footage, a data center may use several miles of cables for both AC and DC power distribution. High voltage cables (480V) distribute power throughout the facility to minimize energy loss over distance, while low voltage (120V, 208V) provides power to individual racks and IT equipment.

To guarantee effective power distribution and ease of maintenance, these cables must be protected, organized, and routed. This is achieved through a combination of structured cabling techniques, primarily the use of cable trays and pathways. Cable trays are preferred in data centers for their heat dissipation and cost-effectiveness for large-scale cable deployments and expansions. Metal conduit runs are also common. In data centers, metal conduit serves three key roles: routing heavy-duty power distribution, protecting cabling mechanically in high-traffic utility areas, and shielding high-voltage lines from electromagnetic interference. Rather than being used throughout the facility, metal conduit is applied selectively — typically reserved for power and high-voltage runs, not standard low-voltage data lines.

In both cable trays and conduit runs, high-quality fittings are needed for several reasons. Well-constructed fittings will shield data and power cables from environmental elements like corrosive chemicals, moisture, and dust as well as physical damage. Fittings also contain electrical faults to prevent the spread of fire. When properly installed to navigate corners and transitions, fittings simplify maintenance and upgrades, while allowing for future expansion. In addition to maintaining system reliability, they are also necessary for compliance with the National Electrical Code, TIA-942, and local regulations.

WHERE ELECTRICAL FITTINGS ARE NEEDED

Whether it's routing main power feeds or supporting liquid cooling loops, electrical fittings play a critical role at every point of connection in the data center.

- **Main Power Feed:** High-voltage power cables are routed from the utility entry or backup generators to switchgear or main distribution panels.
- **Overhead Cable Trays:** Cable trays manage the high volume of cables required for power and network connectivity.
- **Power Distribution Units:** Conduit fittings are frequently needed for Power Distribution Units (PDUs) to arrange and safeguard wires that go to server racks or other equipment. Fittings ensure a compliant connection, particularly in the United States, where adherence to NFPA 70 Article 300 is essential.
- **Control Wiring**: Conduit protects control and sensor wiring for building





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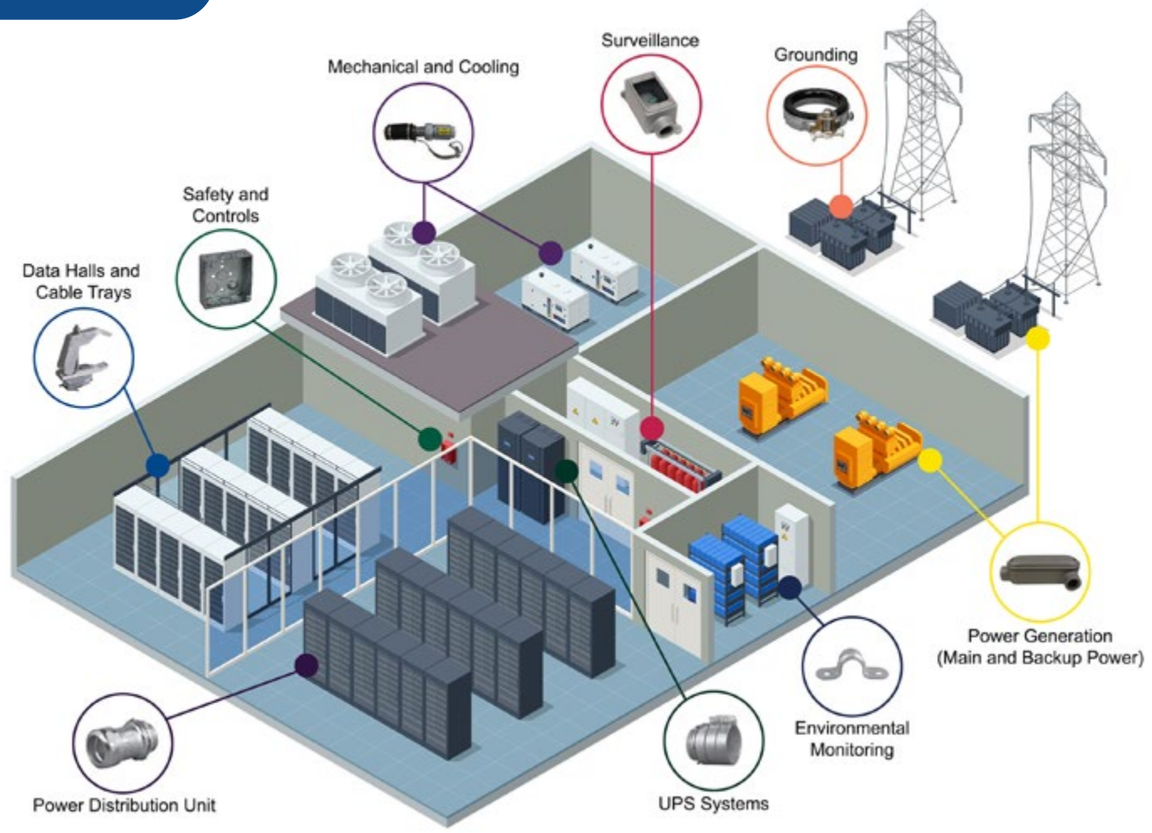
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systems, such as HVAC controls which regulate temperature and humidity

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- **Liquid Cooling System:** Liquid cooling is important in high-density data centers where standard air cooling may not be sufficient. Liquidtight fittings seal out liquids to prevent damage to electrical wiring.
- **UPS Systems:** Conduit fittings connect Uninterruptible Power Supplies (UPS) so they can provide dependable and secure power delivery to vital systems.
- **Environmental Monitoring:** Conduit-protected wire is frequently used to connect temperature, humidity, and water leak sensors to central monitoring systems.
- **Grounding:** Grounding wires can be routed via fittings, so racks, infrastructure, and equipment are properly grounded.
- **Surveillance:** To ensure safe and dependable operation, including in harsh outside areas, fittings are used to shield wiring for motion sensors, IP cameras, and access control systems.

FITTINGS: The Foundation of Power Infrastructure

In data centers, every component in the critical power path—from conduit bodies and couplings to cable glands—has a role to play in system reliability. With major outages potentially costing hundreds of thousands or even millions of dollars, “good enough” fittings simply aren’t good enough.

Data centers built for tomorrow’s power densities will require fittings selected for the application, using appropriately certified components where required, along with materials and designs engineered to withstand corrosion, thermal cycling, liquids, vibration, and other demanding operating conditions. Specifying the right fittings is part of the same reliability strategy that drives decisions about generators, UPS systems, and other critical infrastructure. As data center power demand races toward more than doubling by 2030, the facilities built for long-term uptime won’t rely on redundancy alone. Reliability will depend on every part of the system, including the connections and fittings, to help keep critical infrastructure operating as designed. ❑





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LEDVANCE Marks 10 Years of Innovation and Growth Across the North American Lighting Market

From legacy manufacturer to full solutions provider, LEDVANCE enters its next decade with momentum

LEDVANCE is marking its 10th anniversary as an independent brand with a decade of sustained growth, expanded partnerships, and a product portfolio built around the real-world needs of contractors, distributors, specifiers and consumers across North America.

Built on the legacy of the SYLVANIA brand, LEDVANCE's roots trace back more than a century to the early days of electric lighting innovation. From its origins in 1901 and the formation of Hygrade Sylvania in 1931, SYLVANIA helped pioneer advancements from incandescent and fluorescent technologies to modern energy-efficient lighting systems, establishing a foundation of engineering excellence and market leadership that continues to shape LEDVANCE's direction today.

Since its formation as a carve-out from OSRAM in 2016, LEDVANCE has evolved from a traditional lighting manufacturer into a comprehensive solutions provider, spanning commercial and residential lighting, connected systems, outdoor and retrofit technologies, controls and drivers, and EV charging infrastructure through its PHASE EV platform.

"Ten years ago, we set out to build something unique. A brand that moves at the speed of the market and is backed by a dedicated team of lighting professionals delivering best-in-class service and innovative, reliable lighting solutions" said Jonathan Lubeck, CEO, LEDVANCE US. "The U.S market



remains a priority growth market for us, and this milestone reflects the trust our partners have placed in LEDVANCE over the past decade."

That momentum is backed by independent industry recognition. This past August, LEDVANCE earned recognitions for the third consecutive year in the Illuminating Engineering Society's 2026 Progress Report, one of the industry's most respected benchmarks for lighting advancement. Seven products earned recognitions this year, including a new innovative line of Hazardous Location luminaires, Gas Canopy luminaire, and UFO High Bay High Temp luminaire.

Looking ahead, for LEDVANCE, the next phase of growth is about building on the SYLVANIA brands historic legacy while continuing to evolve and lead in an industry in transition. LEDVANCE will continue investing in connected lighting ecosystems, smart controls, and EV infrastructure, with a focus on helping customers simplify projects, lower operating costs, and meet evolving energy-efficiency regulations.

To commemorate this occasion, LEDVANCE has unveiled its anniversary campaign, "Your Vision. Our Light." As a natural iteration of the brand's "Power Through Light" core, the campaign unites LEDVANCE's innovative spirit and more than a century of lighting expertise, with a clear focus on the future and on what customers truly need. "Every incredible project starts with a vision, and LEDVANCE is the partner that brings these visions to life through illumination and innovation," says Scott Buckley, Head of Marketing, LEDVANCE US. ❑

ABOUT LEDVANCE

With subsidiaries in more than 50 countries and business activities in over 140 countries, LEDVANCE is one of the world's leading companies in general lighting for professional customers and end users. In North America, LEDVANCE builds on a legacy rooted in the SYLVANIA brand and delivers a broad portfolio of LED luminaires for commercial, industrial, and outdoor applications, intelligent lighting products for smart homes and smart buildings, and EV chargers. LEDVANCE also offers one of the industry's most comprehensive selections of advanced LED and traditional lamps. From luminaires to smart lighting and EV charging, LEDVANCE helps customers deliver modern solutions with confidence. For more information, visit www.ledvance.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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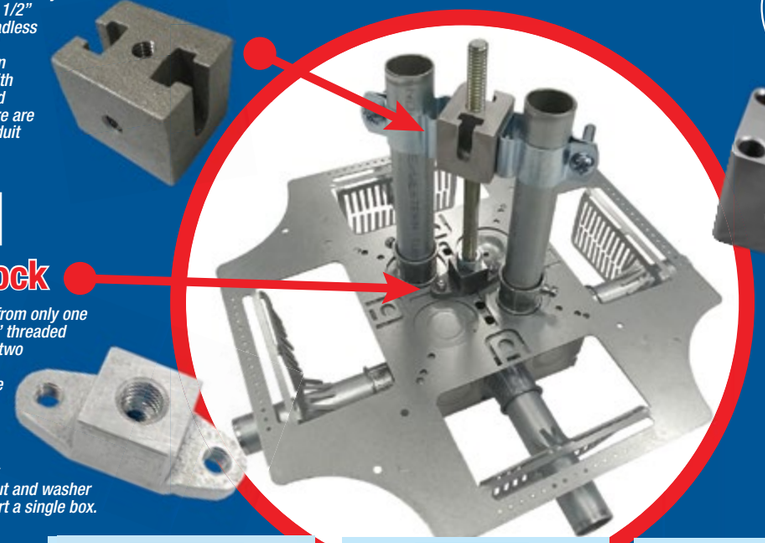
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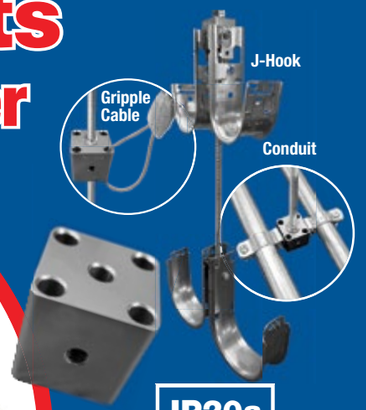
We're Proud to be the Electricians' Friend for Over 50 Years!

New Products
Safer Better Faster

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 .

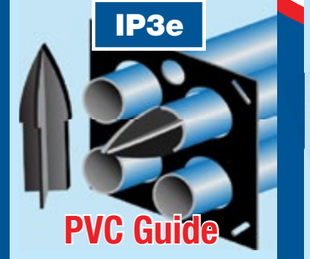
IP21a
QwikBlock
Vertical support from only one 1/4", 3/8" or 1/2" threaded rod by attaching two machine screws 1/4" x 20 thru the existing holes in back of the box Eliminates knocking out center KO on box and traditional nut and washer method to support a single box.





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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Plus More Being Invented for **SAFER BETTER FASTER** *Jobs . . . Call With Your Ideas!*

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Emerson's Appleton™ Brand Delivers Compliance-Ready LED Lighting Built to Curb Light Pollution and Preserve Wildlife Habitats



As "dark skies" and wildlife protection legislation reshape outdoor lighting specifications around the globe, Emerson is proving that environmental responsibility and industrial-grade performance aren't a trade-off but an engineering standard. Across its Appleton™ brand LED portfolio, Emerson has integrated dark sky compliant technology into select Mercmaster™, Areamaster™, Contender™, Wallmaster™, and Baymaster™ Series LED luminaires, giving specifiers a single source for lighting that protects the night sky, safeguards essential wildlife habitats, and meets the industry's most stringent environmental benchmarks without compromising the durability and safety performance Appleton is known for.

From energy conservation and carbon reduction to public safety and astronomical research protection, dark sky and wildlife preservation regulations are no longer a niche consideration. They are becoming a baseline requirement for responsible infrastructure development worldwide. Compliance-ready Appleton lighting ensures customers are ready for what's already here and what's coming next.

DarkSky International: The Gold Standard

DarkSky™ luminaires are fixtures certified by the International Dark-Sky Association (IDA) or engineered to meet its principles. DarkSky



Coastal zones, nesting grounds, and other sensitive habitats demand a fundamentally different lighting approach — and Appleton's Wildlife Friendly solutions are engineered around three core principles that meet the strictest ecological protection standards — Spectrum Selection, Low-Profile Deployment and Directional Shielding

certification represents the benchmark for light pollution control. Emerson's DarkSky-compliant technology is built to satisfy every dimension of that benchmark:

- **Uplight control:** Limited to just 0.5% of total output or 50 lumens maximum, with a strict 10-lumen cap in the 90–100° uplight zone. Any uplight present must result from a fixture's structure, never the source itself, ensuring full shielding throughout.
- **Precision mounting:** Fixed photometry-verified installation with a maximum ±10° adjustment allowance for leveling only.
- **Adaptive dimming:** Mandatory dimming capability down to 10% of full rated output.
- **Warm spectrum compliance:** Maximum correlated color temperature (CCT) of 3000K.

For applications that need more installation freedom, Emerson's Light Pollution Friendly product lines meet DarkSky photometric performance standards while offering enhanced mounting versatility beyond the ±10° compliant leveling range. Luminaires are installed downward to preserve both performance and compliance integrity.

Built for the World's Strictest Regulatory Zones: Chile MMA

Chile's Ministry of Environment (MMA) standards are among the most demanding light-pollution regulations on Earth, and Appleton's engineering is built to meet them head-on:

- Zero uplight tolerance at 90 degrees
- Downward-facing installation required, unless equipped with a visor which permits installation at up to a 50-degree maximum angle
- Zone-specific blue-light limits: Zone A (astronomy and biodiversity protection) permits just 1% maximum visible blue spectrum content; Zone B (general areas) permits up to 7%.

Purpose-Built to Minimize Ecological Impact

Coastal zones, nesting grounds, and other sensitive habitats demand a fundamentally different lighting approach — and Appleton's Wildlife Friendly solutions are engineered around three core principles that meet the strictest ecological protection standards:

- **Spectrum selection:** Amber, orange, or red LEDs that are demonstrably less disruptive to wildlife behavior.
- **Low-profile deployment:** Fixtures mounted close to ground level, running at only the minimum brightness necessary to eliminate light visibility from beach and shoreline areas.
- **Directional shielding:** Every luminaire aimed or shielded downward, eliminating shoreline glow and minimizing skyward light pollution at the source.

Together, these principles allow infrastructure operators to light critical spaces — safely and code-compliantly — without disrupting the ecosystems around them.

"Regulations protecting dark skies and wildlife are advancing faster than most lighting manufacturers can keep up with," said Jami Thornton, Manager of Lighting Product Marketing for Appleton. "Appleton lighting was built for demanding environments long before compliance became a global priority, so extending our engineering discipline to comply with these important regulations was a natural next step in our product portfolio evolution. Our customers receive lighting that meets the strictest standards on the planet, whether that's DarkSky International, Chile's MMA zoning requirements, or coastal wildlife protections, without sacrificing the reliability their operations depend on."

This latest expansion reinforces Emerson's broader commitment to environmental responsibility through engineering solutions that reduce energy waste, protect natural ecosystems, and help customers meet tightening global regulatory requirements.

To learn more visit Emerson online at www.masteringled.com/smartled. ❑

ABOUT EMERSON

Emerson is a global automation leader delivering solutions for the most demanding technology challenges. Headquartered in St. Louis, Missouri, Emerson is engineering the autonomous future, enabling customers to optimize operations and accelerate innovation. For more information, visit www.Emerson.com.

EMERSON

Affordable test equipment for 2026



TOP PRODUCTS Electrical Products & Solutions 2025

Spitifire - Buried Low Voltage Cable Fault Locator
- ◆ Accurate
- ◆ 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
- ◆ Identifies jacketed, shielded, cables, even in pipe
- ◆ Accurately identifies phases in multi-conductor cables
- ◆ Easy to understand and use

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Personal Protective Equipment



In the coming weeks, Milwaukee® will be announcing the Class 2 Women's Yellow High Visibility Performance Safety Vest, designed to provide the best fit while carrying more, and the Class 2 Women's Yellow High Visibility Safety Vest, designed to deliver the best fit for women on the jobsite.

Our ANSI Type R Class 2 High Visibility Performance Safety Vests are designed to carry more. These hi-vis safety vests have 15 pockets, including a clear ID holder, rear tablet pocket, and three internal pockets that provide you with added storage. The front pockets are reinforced with durable 600D tear-resistant materials to withstand rough jobsite conditions. Milwaukee incorporated a comfortable padded collar to reduce pressure around your neck. The quick internal size adjustment creates a better fit for you, allowing our MILWAUKEE® adjustable safety vests to be worn in the summer over a t-shirt or in the winter over a jacket. Class 2 high visibility safety reflective vests are recommended when working in environments with traffic traveling under 50 mph or when working around heavy machinery. This includes construction, road construction, traffic direction, utility crews, and survey crews. Yellow or orange safety vests color options are available, as well as vests with CSA compliance. These safety vests are customizable by adding your logo.

For more information, visit www.milwaukeetool.com



EasyHeat™ PSR Pre-Terminated Self-Regulating Cable by Emerson Delivers Smart Freeze Protection for Roofs, Gutters and Pipes

Plug-in, pre-assembled 120 Vac cable automatically adjusts heat output to outdoor conditions, guarding commercial and residential buildings against ice dams and frozen pipes while optimizing energy use

Winter's most expensive damage often begins with a few inches of ice. Emerson helps facility managers, contractors and homeowners get ahead of it with its EasyHeat PSR pre-terminated self-regulating heating cable, an outdoor-rated electric heat-trace system engineered for roof and gutter de-icing and pipe freeze protection. PSR delivers consistent, dependable heat exactly where ice forms and dials itself back when it isn't needed.

The Cost of a Hard Freeze

Ice dams form when snow melts on a warm roof and refreezes at the cold eaves and gutters. Trapped meltwater backs up under shingles, soaking decking, insulation, ceilings and walls. Clogged downspouts and heavy icicles add structural load and safety hazards at entrances and walkways.

Below the roofline, a single frozen pipe can split and flood a mechanical room, crawlspace or tenant space. For commercial properties, that means repair bills, downtime and insurance claims. For homeowners, it means torn-out drywall and ruined belongings.Nationwide, ice and freezing conditions contribute to tens of millions of dollars in residential and commercial property damage each winter, underscoring the significant financial cost of winter-related building failures.

Heat That Thinks for Itself

At the core of every EasyHeat PSR cable is a parallel-resistance, self-regulating heating element. As the surrounding temperature drops, the core's heat output rises along the entire cable length. As temperatures climb, output falls automatically.

The result is targeted heat where conditions are coldest and lower energy draw everywhere else so there's no wasted watts on mild days. Because each section of cable responds to its own local temperature, PSR can even be overlapped on itself without overheating or premature failure, and no separate thermostat is required for operation.

For more information, visit www.appleton.emerson.com/easyheat

B2 RAPID FIRE BENDER
WITH TOUCH CONTROL
BEND UP TO 2" EMT, IMC, RIGID OR ALUMINUM CONDUIT WITH ONE SHOE
STOP SEARCHING FOR CORRECT BEND ANGLES
STORE UP TO 5 OF YOUR FAVORITE BRANDS
TOP PRODUCTS Electrical Products & Solutions 2025
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MADE IN USA

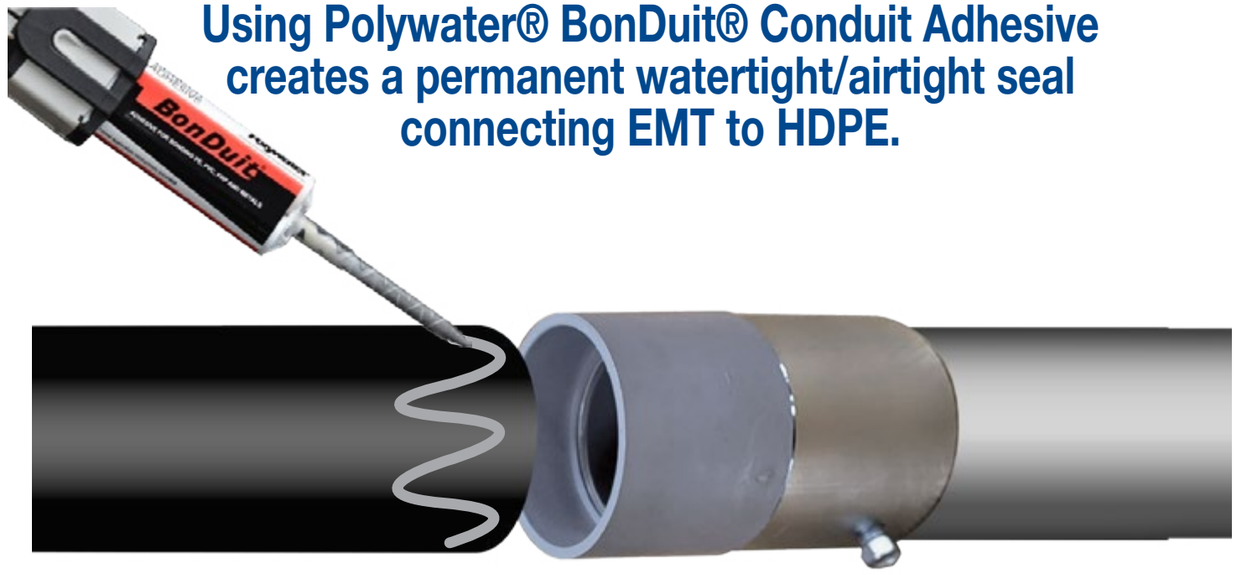
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2026 NECA
ShowStopper
WINNER

HDPE Conduit to EMT

MADE IN USA

Using Polywater® BonDuit® Conduit Adhesive creates a permanent watertight/airtight seal connecting EMT to HDPE.



Stronger pullout strength than most mechanical couplings.

BonDuit and BonDuit XI are UL recognized and was tested to UL standard 746C.



PATENT PENDING

Transitions from HDPE to EMT in minutes

Great for wiring transformers, solar systems & pumps.

All SP Products Inc. Transition Fittings are manufactured for installation to either meet or exceed in accordance with NEMA TC2, TC3 or UL 651 specifications

1/2" thru 4"

Transition Couplings	
Size	Catalog #
1/2”	50-HDPE-EMT
3/4”	75-HDPE-EMT
1”	100-HDPE-EMT
1-1/4”	125-HDPE-EMT
1 -1/2”	150-HDPE-EMT
2"	200-HDPE-EMT
2 -1/2”	250-HDPE-EMT
3"	300-HDPE-EMT
3 -1/2”	350-HDPE-EMT
4"	400-HDPE-EMT

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IP13ii

Russelectric, A Siemens Business, Highlights Advantages of Central Paralleling Systems

Delivers Redundancy, Scalability, and High-Integrity Control for Mission Critical Power



Russelectric, A Siemens Business, a leading manufacturer of power control systems and automatic transfer switches, highlights the value of centralized paralleling systems for applications requiring maximum control precision, system resilience, and operational visibility.

Unlike onboard paralleling, where synchronization and control components are mounted directly on or near each generator, centralized architectures consolidate all control functionality in a dedicated switchgear environment. This approach enables hot-standby PLCs, manual backup control, discrete analog metering, and detailed event logging. These are all essential features for providing uninterrupted power to critical infrastructure like hospitals, data centers, and industrial campuses.

Centralized systems provide superior redundancy and scalability, allowing operators to monitor and manage all generators from a clean, climate-controlled location away from engine rooms that are often harsh, hot, and contaminated by diesel particulates. Real-time synchronization logic, configured for tighter parameters and faster resolution, reduces mechanical stress on generator breakers and improves performance during complex transitions or load variations.

In contrast, onboard solutions, though suitable for small-scale, non-critical systems, can lack necessary redundancy and manual control capabilities, often relying on proprietary vendor logic and shared communications between generator controllers. This can hinder troubleshooting, limit customization, and complicate system expansion, particularly when integrating generators from multiple manufacturers.

Russelectric's centralized control solutions are available for both low and medium voltage applications and built to robust industry standards, including UL 1558 and DLAH listings. Their systems incorporate dual PLC architectures, discrete analog controls, and programmable load demand functions, ensuring unmatched reliability and flexibility across all project types.

Whether powering an advanced healthcare facility or a large data center, Russelectric's centralized power control systems offer future-ready infrastructure for organizations that cannot afford downtime.

For more information, visit www.russelectric.com



Liquatite® Antimicrobial Food Grade Conduit for Safe, Sanitary Processing Environments

Electri-Flex Company has released a new video showcasing its Food Grade Liquatite® flexible conduit solutions designed to help protect electrical wiring in food processing, pharmaceutical, bottling, healthcare, and clean room environments. These installations prioritize food safety, sanitation, regulatory compliance, and equipment reliability, so selecting the proper wiring protection system is critical. Food Grade Liquatite® conduits provide durable, flexible, liquidtight protection while supporting rigorous washdown and sanitary requirements.

Watch the latest video to learn how Food Grade Liquatite® conduit solutions help manufacturers protect critical electrical systems in demanding food processing environments.

Electri-Flex offers four Food Grade Liquatite® conduit options: Types LAFG, LAFG-SS, NMFG, and LNMP-Food Grade. These conduits are engineered with features specifically developed for food and beverage applications, including FDA-approved jacketing, smooth exterior for easy washdowns, resistance to sodium hypochlorite (bleach), and a liquidtight construction. Certified to meet demanding industry standards, Food Grade Liquatite® conduits are UL Listed, NSF Certified Components, compliant with FDA CFR 21 requirements, and meet NSF 51/61 standards.

Types LAFG, LAFG-SS, and LNMP-Food Grade feature antimicrobial blue PVC jacketing designed to inhibit the growth of commonly known food processing microbes, including E. coli, Listeria, and Salmonella. The distinctive blue color enhances product safety by making conduit fragments easier to identify should accidental damage occur within processing areas. These conduit types also offer an extended temperature range up to -37°C to 105°C, making them suitable for installations near freezers, high-temperature processing equipment, and frequent hot-water washdowns.

For more information, visit www.electriflex.com

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Cementex

The Safety Tool Specialists



Deluxe Geared Maintenance Tool Kit

Cementex Double-insulated Tools:
- Comply with the IEC 900 standard
- 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 IGK00-11 glove kit:
- 11" long Class 00 rubber insulating gloves
- Leather protectors
- Canvas storage bag



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Southwire Announces Launch of 15A Floor Box Kits

Southwire Company, LLC, announces the launch of its round and rectangular 15 A Floor Box Kits.

The 15A Floor Box Kits are used to provide a place for electrical power in a floor for residential and light commercial builds. These boxes can be installed in carpet, tile or wood floors. These are ideal for use in conjunction with electric furniture (like heated recliners or power-assisted lift chairs), countertops, office furniture, laboratory tables or anywhere AC power is needed.

Features and Benefits:

- Comes with complete, ready-to-Install kits to reduce complexity by consolidating components into one complete, readytoinstall solution
- Drop-in installation design
- Two cover styles for different spaces; choose low-profile screw-in plugs or a clean pop-up cover within the same floor box family
- Pop-up cover design retracts when not in use and comes with an adjustable box
- Designed to simplify installs and reduce the risk of rework in finished floors
- Consistent finish options across the line maintain visual continuity across rooms and projects

For more information, visit www.southwire.com





DON'T MISS OUT!

Does your product help to increase profits or improve safety and overall working conditions for the electrical contractor? If so, don't forget to submit your product for nomination as one of *Electrical Products & Solutions'* **"TOP PRODUCTS OF 2026".** **All the winners will be featured in our December issue.**

Deadline: December 6, 2026

Requirements:
Submit a high resolution photo (300 dpi) of your product, along with a brief description (up to 150 words). *Please note on your submission that it is for consideration for Top Products.*

E-mail: danny@epsmag.net
or mail to: Electrical Products & Solutions
2009 Eagle Ridge Drive, Birmingham, AL 35242



Galvanized Rigid Transition Couplings to Schedule 40/80 PVC Stub-Up

MADE IN USA

Save at Least 1 Hour per Installation.

When Concrete is Poured and Metal Below the Slab is Needed



Saves a great deal of time transitioning from PVC conduit to Rigid Conduit above slab without damaging PVC risers and chipping concrete eliminating a concrete repair job!

All SP Products Inc. Transition Fittings are manufactured for installation to either meet or exceed in accordance with NEMA TC2, TC3 or UL 651 specifications

Transitions in Less Than 5 Minutes!

Save Cost on the Rigid Nipple, Tape & Labor

Use for Entire Job - Not Just for Repair

See Our Conduit Plug See page IP27c



See Our REAMING BITS for Transition Couplings



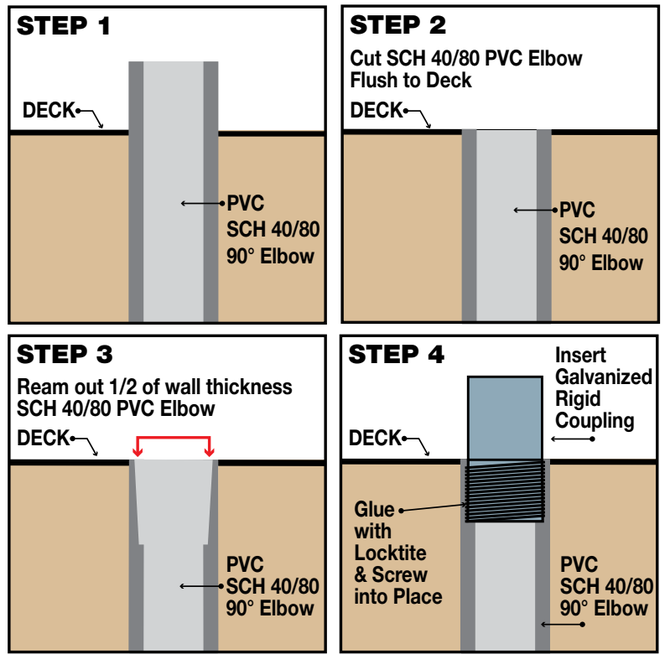
See page IP15

PATENT PENDING

1/2" thru 6"

Transition Couplings	
Size	**Catalog #**
1/2"	50-PVC-R-GRC
3/4"	75-PVC-R-GRC
1″	100-PVC-R-GRC
1-1/4″	125-PVC-R-GRC
1-1/2″	150-PVC-R-GRC
2″	200-PVC-R-GRC
2-1/2″	250-PVC-R-GRC
3″	300-PVC-R-GRC
3-1/2″	350-PVC-R-GRC
4″	400-PVC-R-GRC
5"	500-PVC-R-GRC
6"	600-PVC-R-GRC

All Above Meet UL651 CSA C22.2, No.85 and US Army Corps Engineers Specifications



Customer must satisfy all codes and owners' specifications.

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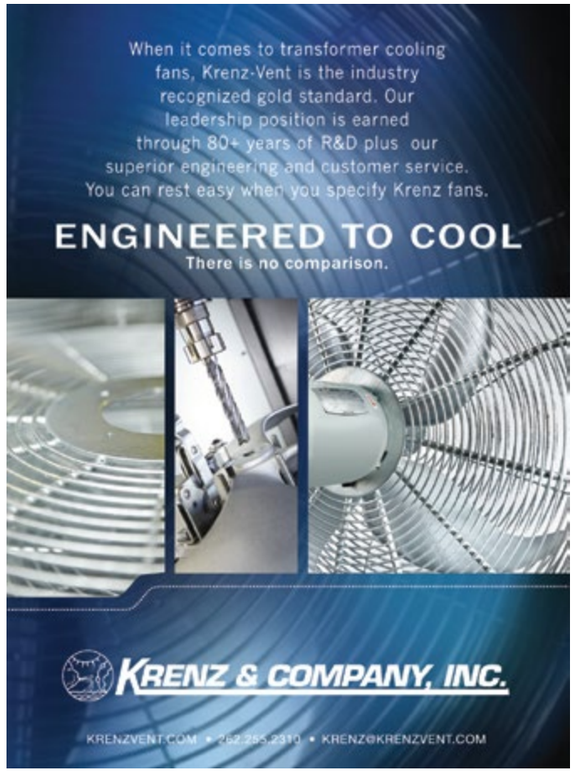
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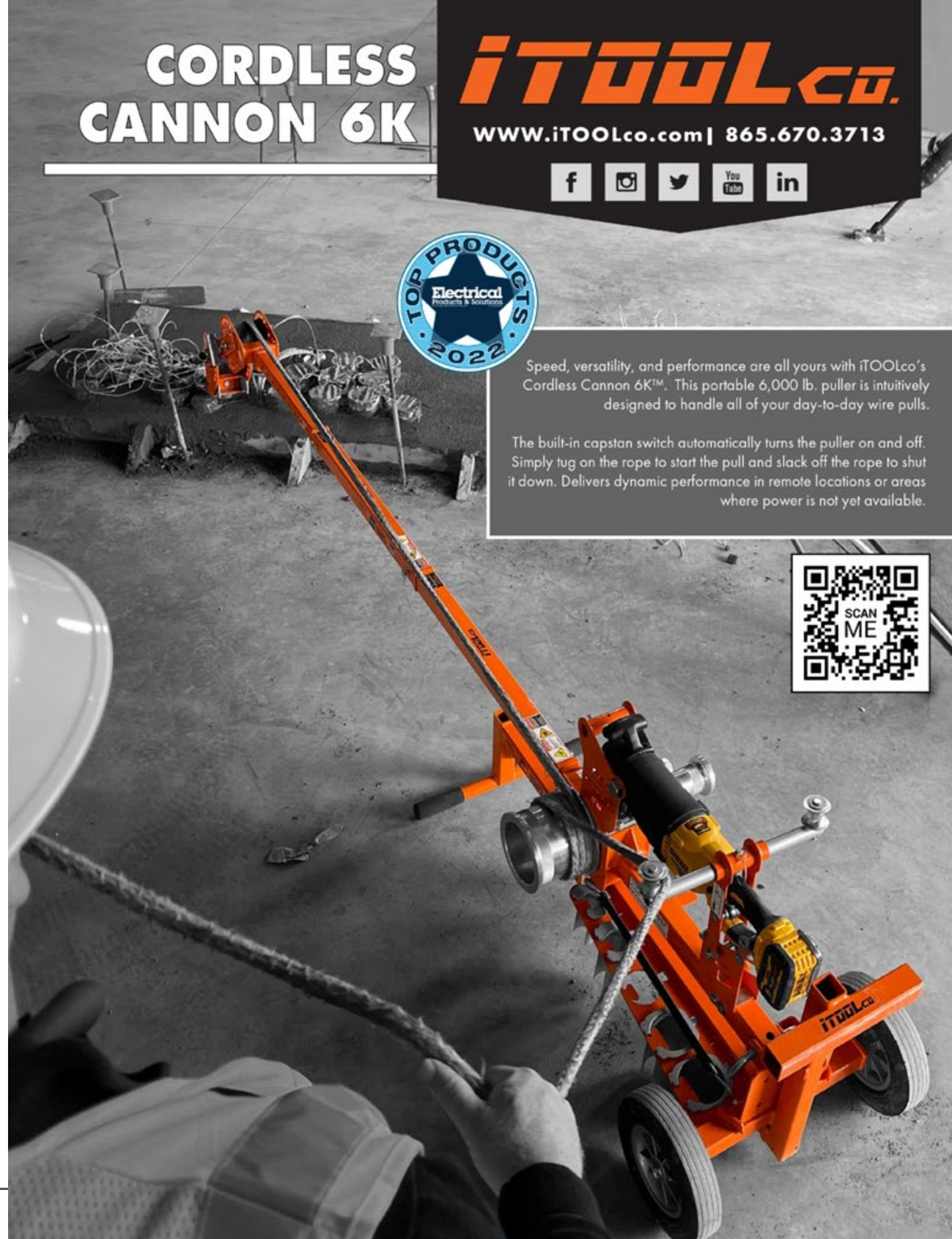
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TOP PRODUCTS 2022 Electrical Products & Solutions

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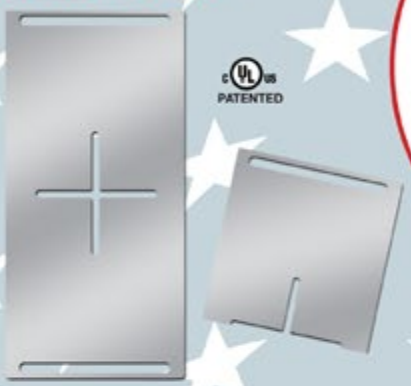
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IP5
"The Original"
Enter Any KO on Both Sides of the Box



IP19/20
4-Conduit Block
PATENTED

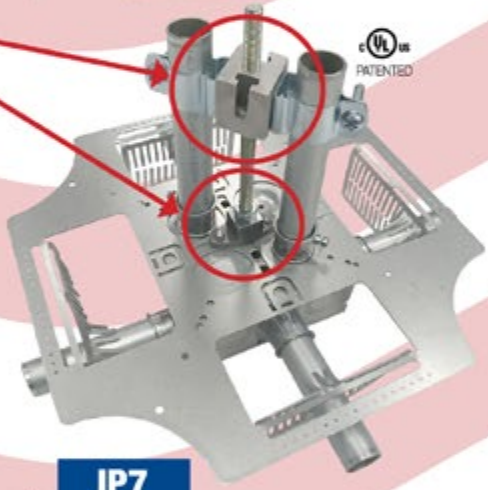
IP21a
QwikBlock
PATENT PENDING



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

IP6d
2-Way
with Split Fingers for Horizontal or Vertical Installation





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



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



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

20 x 20
Supports up to 12 x 12 J-Box

28 x 28
Supports up to 20 x 20 J-Box

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Plus More Being Invented for *SAFER BETTER FASTER* Jobs . . . Call With Your Ideas!

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