

December 2023

# Electrical Products & Solutions™

*The Purchasing Guide for Electrical Contractors*

[www.epsmag.net](http://www.epsmag.net)



**+  
INDUSTRY  
NEWS**



# CORDLESS CANNON 6K

# iTOOLco.

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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.



# MADE IN AMERICA, FOR AMERICA

At Electri-Flex, we are proud to do our part in **rebuilding America** by providing **top-quality, domestically sourced conduit** made right here in the U.S. Our industry-leading Liqueatite® flexible conduit line is second to none, **offering options for virtually every application**, from data and defense to transit, rail and bridges. And backed by more than **65 years of family ownership**, we look after your business as if it were an extension of our own. Because we believe that America deserves the best.

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**Rebuilding our infrastructure  
at every turn.**

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**ALL PRODUCTS PROUDLY  
MADE IN THE USA**



## electri-flex



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# Qwik Duct

## Safer Better Faster

HDPE CUSTOM TEMPLATES  
In Any Configuration Required

**IP1**  
cUL US  
Patent Pending

**IP3b**  
Patent Pending

**PVC Offset**  
Sizes 1/2" thru 6"  
Meets Flexible Mandrel Test Requirements

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

**IP2**  
cUL US

**IP13A-F**

# Conduit Transition Couplings

**IP15**  
End Bell Adapter  
Schedule 40/80 PVC

**PVC/PVC**  
**PVC/EMT**  
**PVC/Rigid**  
**PVC/Liquidtight**  
**PVC/Stainless**  
**PVC/Alum**  
**PVC/Flex**

**IP14a**  
1 Piece Reaming Bit  
1/2" thru 6" Schedule 40/80

**Save Cost on the Rigid Nipple, Tape & Labor**  
**Use for Entire Job - Not Just for Repair**

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

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No Tape • No Plastic Straps • No Metallic Straps

## NO KIDDING!

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THE  
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- Backed by a dedicated sales team and technical service
- Covered by a limited lifetime warranty



For more information and videos, please visit  
[www.phoenixcontact.com/us-TOOLfox](http://www.phoenixcontact.com/us-TOOLfox).



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CONTACT**



# 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.electricalsafetyproducts.com](http://www.electricalsafetyproducts.com), email  
Vince at: [sales@millersafetyltd.com](mailto:sales@millersafetyltd.com)

**AUTHORIZED**  
**Cementex**  
**The Safety Tool Specialists**

**DISTRIBUTOR**

Give Vince a call at  
**(703) 367-0404**



Deluxe Maintenance Tool Kit



Class O Glove Kit

# Protect yourself from "Arc Flash"

**ARC FLASH LIFT-FRONT HOOD WITH V<sup>12</sup> HIGH-VOLUME VENTILATOR**  
Compact. Powerful. Reliable

Our V<sup>12</sup> High-Volume Ventilator boasts an unexpectedly quiet, high output (35+ CFM) turbine fan to cool and circulate the ambient air within the hood. Fully protected beneath it's durable ABS shell and added fabric layering, the V<sup>12</sup> High-Volume Ventilator isn't just compliant, it's superior.



**40 CAL/CM2 ULTRALIGHT CLOTHING BY OTEX**

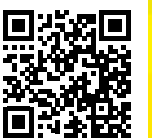
Our new dual-layer Ultralight clothing takes advantage of DuPont's® dedication to scientific advancement and Westex's® industry leading dependability. Weighing in 37% lighter than traditional HRC4 PPE, our Ultralight Clothing is the most innovative contender in the lightweight arena.

**HYBRID LAYERING**

Combined Fabric Weight: 14 oz

Outer Layer: DuPont® Protera  
Color: Navy

Inner Layer: Westex Ultrasoft  
Color: Safety Orange



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Each year we choose what we believe are **Top Products** in the Electrical Industry market. This year is no different. The products and services chosen are each unique, beneficial and reliable in their own right. Having the ability to choose the tools and services that best fits your job description and your work style is what it's all about. We hope you agree with our choices.



### Appleton™ Mercmaster™ Connect LED Luminaire

The Appleton™ Mercmaster™ Connect LED Luminaire by Emerson is designed to illuminate hazardous and harsh industrial locations with integrated motion and illuminance sensors. This groundbreaking solution dramatically lowers cost when compared to wired monitoring alternatives, with faster installation time and minimal disruption to plant operations.

Mercmaster Connect LED Luminaires are linked wirelessly to Plantweb Insight™ software via Emerson WirelessHART™ network technology. With quick and accurate data analysis made possible by Plantweb Insight, it is much easier to prioritize maintenance and identify potential hazards or failures that may put the safety, reliability, and compliance of a facility at risk.

**For more information, visit [www.appleton.emerson.com](http://www.appleton.emerson.com)**



### Innovative Two-Piece Split Conduit and Split Coupler System

As the world leader in split conduit repair products, Conduit Repair Systems' provides an array of products to offer you the perfect solution for your repair needs. Conduit Repair Systems innovative two-piece split conduit and split coupler system is available in ten-foot split conduit lengths, pre-bundled repair kits, split WYE kits, and our industry leading split sweeps.

Conduit Repair Systems' split sweeps are available in a 24" or 36" radius and come in both 45° and 90° sweeps. They are great for electrical conduit applications underground, being encased in concrete, as risers coming up and out of the ground, for solar projects and more. All of our split sweeps are available in the following sizes: 1", 1.25", 1.5", 2", 2.5", 3", 4", 5", and 6".

With our two-piece split conduit system, no tape, straps or clamps are needed. Everything is done in a snap!

**For more information, visit [www.conduitrepair.com](http://www.conduitrepair.com)**





## Antimicrobial Liquidtight Nonmetallic Type LNMP



additive inhibits the growth of commonly known food processing microbes, such as E. coli, listeria, and salmonella, and even shows a reduction of these microbes over a 24-hour period. Type LNMP is ideally suited for Food Processing, Pharmaceutical, Bottling Equipment, and Clean Room installations. It is UL listed (cULus), a Certified Component for NSF/ANSI 169 special purpose food equipment, meets FDA CFR21 & NSF 51/61 requirements, is WEEE & RoHS Compliant, and is ARRA Certified.

### Type LNMP Food Grade

UL-listed, flexible liquidtight, nonmetallic conduit Type LNMP-Food Grade now has an improved antimicrobial jacketing that offers a wider temperature range and is made with a new food processing blue jacketing. Type LNMP is made of flexible PVC with a nylon reinforcing braid and is ideal for continuous flexing applications as it does not contain a metal core that could fatigue with repeated flexing. The flexible PVC jacketing now contains an antimicrobial biocide additive. This

For more information, visit  
[www.electriflex.com](http://www.electriflex.com)

### New UltraLite 40 Cal Lift-front Vented Hood

We've listened to our users who perform "non-contact" testing within the arc-flash protection boundary and have release the OTEX lift shield hood. This new style hood will incorporate the Paulson lift shield assembly. The new hood assembly will also have the additional safety features of our standard M12 vented 40 Cal hood such as the patented arc flash sensor, head lamp and the Milwaukee M12 battery powered fan system.

For more information, visit  
[www.electricalsafety.com](http://www.electricalsafety.com)



# DRIVEN TO DELIVER

## THE CONSOLE X



- Clean up those cabs and get your fleet organized!

### Your Total Mobile Office Solution

*The Truck Console-X combines your Laptop Work Station, Radios, Speakers, Cables, Storage and Cup Holders. No Drill Installation Brackets Included.*

The **Truck Console -X** is the latest innovative mobile office solution to join the Mobile Desk brand family of products. This complete control, communication and convenience Utility Truck Console is becoming the new standard for fleets of all sizes. The design of the **Truck Console -X** has originated from our years of experience working directly with the lineman, supervisors, communications, and fleets of some of the most notable utility companies in America. Loaded with standard and optional features that maximize ergonomics, productivity, and fleet/telecom standards into one Mobile Office Solution.

### Screen Out™ SCREEN-DISABLER™

Our Patented Screen Out App **Stops texting** while driving for all employees on all tablets, laptops and smart phones that run Windows, iOS or Android Operating Systems. **It's that easy!**  
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Find us on:



**1-877-663-3375**  
[www.mobiledesk.com](http://www.mobiledesk.com)

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### iTOOLco's Strut Mount System

Who doesn't hate using spring nuts? Strut installations are 2x faster with iTOOLco's Strut Mount System. Our new Strut Mount makes joining two struts together a snap. Adding cross members to strut structures or building new structures is simple. Determine the height of the cross strut, then install the bracket at that mark & you're done. Where existing spring nuts can slide out of place, making alignment of hardware a tedious task. The iTOOLco strut mount utilizes a "Stud Mount System" that places all the load between the welded stud of the bracket and the slot of the strut for easy & precise placement of cross members. The Strut Mount has a load rating up to 750 lb per unit when using pins and up to 1,200 lb per unit when using 3/8" bolts.

For more information, visit  
[www.iTOOLco.com](http://www.iTOOLco.com)



### iTOOLco's Ground Rod Dawg XL

With two models available, safely drive three quarter or one inch rods from ground level with iTOOLco's Ground Rod Dawg XL's. The Ground Rod Dawg XL eliminates the need for climbing up ladders and using sledge hammers to drive large ground rods under grade. Simply plug the Ground Rod Dawg XL into your hex shank jack hammer. Then insert the bottom of the rod into the Ground Rod Dawg XL and go. The unique design allows the Ground rod Dawg XL to bite down onto the rod, allowing the user to drive it in with ease. Once the rod is driven in far enough, use the end receiver on the top of the rod to finish driving it to the final grade level.

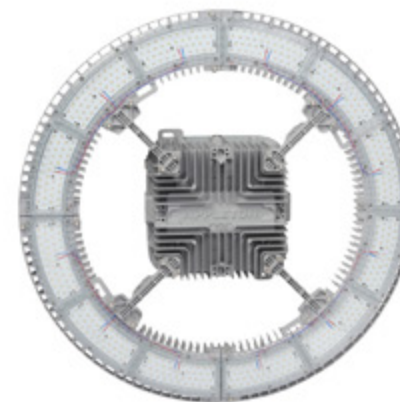
For more information, visit  
[www.iTOOLco.com](http://www.iTOOLco.com)



### Lighting Your Way at Greater Heights

The Appleton™ IHC LED Luminaire by Emerson is the ideal solution to deliver light from mounting heights of 50 to over 100 feet. With outputs up to 90,000 lumens, an IP66 marine and wet location rating, and an ambient temperature range of -40 °C (-40 °F) to 75 °C (167 °F), the IHC was designed to meet the demands of your harsh industrial environment and lighting requirements.

Learn more at: [masteringled.com](http://masteringled.com)



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### M18™ FORCE LOGIC™ Single Channel Strut Shear Kit

The M18™ FORCELOGIC™ Single Channel Strut Shear is the Most Productive Way to Shear Strut on the jobsite. Utilizing Milwaukee® proprietary Shearing Dies, the Strut Shear delivers square, clean shears without additional filing or deburring. The integrated strut support plate offers a quick 4in/10cm measurement offset for simple, repeatable shears increasing productivity on site. The Strut Shear's dual die design eliminates exposed blades and reduces the chance of cut and laceration injuries on jobsites. This highly portable Strut Shear offers unmatched versatility allowing you to easily shear on any flat surface or chain vice at the point of installation around the jobsite. The integrated tri-stand chain vice mount allows seamless integration into any brand chain vice to keep users productive. Featuring Milwaukee® ONE-KEY™ Technology, view tool usage, receive notifications for recommended maintenance, and lock the tool out for added security to protect your investment. The kit includes (1) 1-5/8" x 1-5/8" Single Channel Shearing Dies, (1) M18™ XC 5.0 REDLITHIUM™ Battery, M18™ and M12™ Multi-Voltage Charger and a soft-sided carrying bag with pockets that can accommodate (3) additional Shearing Die Sets. Additional Accessory Dies available: 13/16" x 1-5/8" Dies (49-16-1316), 7/8" x 1-5/8" Dies (49-16-0078), Combination 13/16" & 1-5/8" Dies (49-16-1513), and Combination 7/8" & 1-5/8" Dies (49-16-1578).



For more information, visit  
[www.milwaukeetool.com](http://www.milwaukeetool.com)

### The Console-X

Console-X Truck Consoles from Mobile Desk / Mobile Office Solutions has become the new standard for Electric Utility Contractors and Companies of all sizes. The rapid adoption of the Console-X within the Electric utility markets has driven by its unique ability to consolidate Fleet, Telecom and End Users standards and requirements into a single package.

#### Compatibility:

Its rugged design accommodates any environment for the most popular trucks utilized in the electric utility industry including the following vehicles 2008 -2020 Ford F-150-F-550 / 2009-2020 Chevy Silverado 1500-5500 / 2005-2019 Dodge Ram 1500-550 / International 4000 and 7000 series / 2003- 2020 Freightliner M2 and Cascadia and most Peterbilt and Kenworth Semi Tractors.

#### Features and Options

Include, Large full or partial storage, file rails, integrated or magnetic cupholders, ergonomic and secure laptop and tablet mounting, adjustable single or dual armrests, power distribution, ring terminal block, map box, radio slot, dual or single buss electronic timers, no-drill installation, magnetic mic clip, switches, wiring harness, quick disconnects, 400 and 600 watt pure sine power inverter with ignition sense relay, office supply tray, magnetic phone mounts, pre-wiring and fused PDU optional, Lind Laptop and Tablet power solutions. Dual 3.1 amp USB and properly used 12-volt accessory ports. In the previous ten years, no other vehicle accessory has had more impact in the Electric Utility Industry than the Console-X.



For more information, visit  
[www.mobiledesk.com](http://www.mobiledesk.com)



## Extend Luminaire Life While Reducing Energy Consumption

The Appleton™ Mercmaster™ Connect LED by Emerson is designed to illuminate hazardous and harsh industrial locations with integrated motion and illuminance sensors. Paired with Emerson's Plantweb Insight Connected Lighting Application, operators have access to lighting usage data and sustainability analytics.

The Mercmaster Connect LED provides facility managers with continuous monitoring of their LED lighting with real-time insights gained into sustainability goals, diagnostics and lumen levels from any remote location at dramatically lower costs as compared to wired alternatives, with faster installation time and minimal disruption to plant operations.

Learn more at: [masteringled.com](http://masteringled.com)



Appleton™ Mercmaster™ Connect LED

APPLETON™

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### clipx WIRE assist system

The customizable clipx WIRE assist system from Phoenix Contact helps panel builders improve wire processing efficiency.

The clipx WIRE assist software increases wire processing productivity and improves consistency. The software controls the wire cutting and labeling devices, guiding the user through clear onscreen instructions on a laptop or touchscreen. The program can be used with the CUTFOX 10 wire cutting machine, the THERMOMARK ROLL series printers, the CF3000 wire stripper and ferrule crimper, and the CF500 ferrule and lugs crimping machine.

The optional clipx WIRE assist workbench is an ergonomic and efficient workstation that keeps everything a panel builder needs within reach. The technician can quickly adjust the tabletop's height and easily maneuver the mounted machines. The workbench also features wire spool rods or mounting shelves for quick access to wires.

The clipx WIRE assist system is customizable, making it suitable as a standard shop bench or a flexible workbench.

**For more information, visit**  
**[www.phoenixcontact.com](http://www.phoenixcontact.com)**

### 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!

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**[www.randl-inc.com](http://www.randl-inc.com)**



## Versatile Mounting for Extreme Environments



*SolaHD™ SCP-X Series Standalone  
IP67 Power Supplies*

The SolaHD™ SCP-X Series Standalone IP67 Power Supplies by Emerson can be mounted almost anywhere on a machine, conveyor, or wall. With no enclosure required they offer safety against arc flash hazards.

Quick-connect cables ensure the IP67 rating and eliminate costly wiring. Available from 100 Watts to 240 Watts, the SCP-X Power Supplies meet the diverse needs of automotive manufacturing, conveyor systems, and equipment where 24 Vdc power is required for geographically dispersed devices.

**Learn More at: [www.solahd.com](http://www.solahd.com)**

**SOLAHD™**

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### QwikDuct HDPE Bore Spacers

- 3/4" HDPE for Greater Strength to Accommodate Assemblies with Wheels.
- 2" Diameter Wheels are Standard, Larger Size Diameters Available Upon Request
- Roll assembled conduit into caisson

#### WHEN ORDERING CUSTOMER MUST SPECIFY:

1. Material Thickness 3/8", 1/2", 3/4" and Load Rating Required (1/2" & 3/4" are special order materials)
2. Size & Location of Rebar Holes
3. Spacing Between Conduit Openings
4. Rebar Stake Down Slots Required?
5. Diameter of Conduits
6. Footage Between Templates
7. Size & Location of Concrete Flow Holes
8. Size, Number & Location of Wheels



For more information, visit  
[www.spproducts.com](http://www.spproducts.com)



### Transition Couplings PVC Schedule 40 & 80 Slip to Galvanized Rigid

- Transitions in One Minute
- Save Cost on the Rigid Nipple, Tape & Labor
- Use for Entire Job - Not Just for Repair
- Reamer NOT Required to Transition from PVC to Rigid
- Apply PVC Cement to Secure & Complete



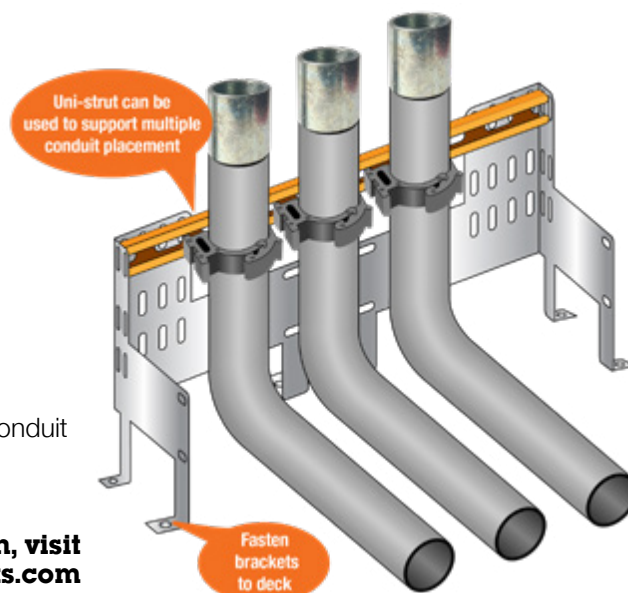
For more information, visit  
[www.spproducts.com](http://www.spproducts.com)

### 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, minerlacs, 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, minerlacs, one-hole straps or Ty wraps
4. Pour slab



For more information, visit  
[www.spproducts.com](http://www.spproducts.com)



# SP PRODUCTS, INC.

Productivity and value thru ideas  
**FOR SAFER BETTER FASTER JOBS**



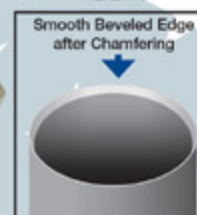
We're Proud to be the Electricians' Friend for Over 50 Years!

IP15a

### Chamfer Bit for PVC SCH 40/80



PATENT PENDING



IP27b

### Electro Post EP-10 Box Support Bracket



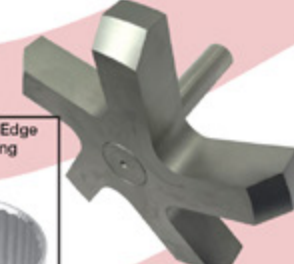
Mounts on all standard stud widths of 2-1/2", 3-5/8" or 6"



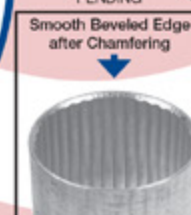
PATENT PENDING

IP15b

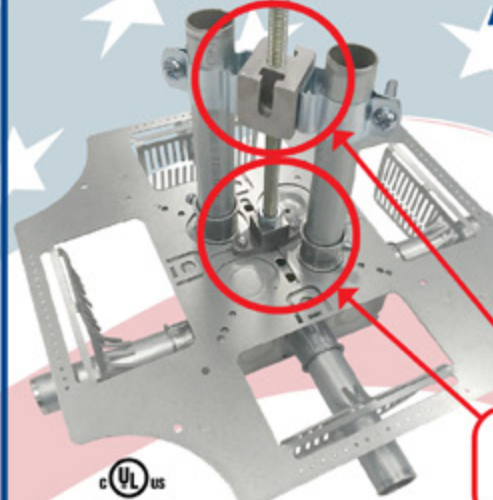
### Chamfer Bit for Aluminum EMT



PATENT PENDING



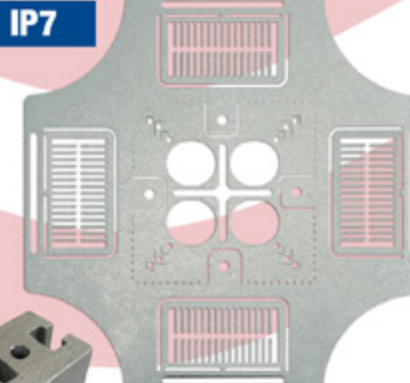
## NEW PRODUCTS



### 4-WAY CONDUIT & BOX SUPPORT PLATE with Split Fingers for Horizontal or Vertical Installation

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

IP7



IP21a

QwikBlock

PATENT PENDING

IP19/20  
4-Conduit Block  
PATENTED

### PVC Running Thread SCH 40/80 Up to 30" Long

PATENT PENDING

IP3d



### NEW Transition Fittings Saves a Great Deal of Time Repairing Conduit The Inside Diameter Remains the Same Allows for Trouble Free Wire and Cable Pulls

UL US

IP13k

Inside PVC to Inside PVC  
PATENT PENDING



IP13p

3/4" MC Cable to PVC

PATENT PENDING



UL US

IP13q

PVC Reducer

PATENT PENDING



### Male Threaded PVC Offset

IP3c

1/2" thru 3" Offset for Conduit Sizes 1/2" thru 6"

PATENT PENDING



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

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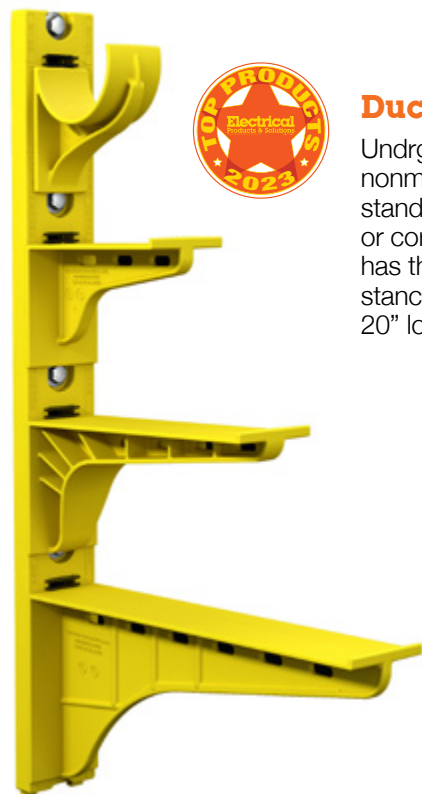


### The IMPULSE PHASER

The IMPULSE PHASER was originally developed in the early 1950's to increase personnel safety when working on paper insulated, lead covered cables. Since its introduction, the IMPULSE PHASER has been used safely and reliably by electric utilities throughout the U.S. on solid dielectric cables and paper insulated, lead covered feeders in excess of 20 miles and even on submarine cable 300 feet underwater. Because safety is most important, the IMPULSE PHASER is designed to operate only if the cable circuit to which it is connected has been shorted and grounded. Also, the transmitted signal cannot be imposed on any other cable in the circuit. The IMPULSE PHASER promotes safe, positive identification of cables. The IMPULSE PHASER is designed and built to withstand the normal use generally associated with linemens' tasks. Because the IMPULSE PHASER is well constructed, you get an instrument which is economical to purchase and maintain, providing years of reliable service.



For more information, visit  
[www.timcoinstruments.com](http://www.timcoinstruments.com)



### Duct Spacers and Nonmetallic Cable Supports

Underground Devices manufactures several different styles of duct spacers and nonmetallic cable supports. The Heavy Duty Nonmetallic Cable Rack has become a standard in manhole racking. The Heavy Duty Rack is nonconductive and will never rust or corrode. Grounding and insulators are no longer necessary. The Heavy Duty Rack has the same loading capacity as comparable steel cable racks. With seven standard stanchion lengths ranging from 8" to 48" long, and ten arms ranging from a 3" saddle to a 20" long arm, the Heavy Duty Rack is an extremely versatile cable racking system.

For more information, visit  
[www.udevices.com](http://www.udevices.com)

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## Compact and Easy to Install DC UPS for Harsh Industrial Locations



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# Ruselectric Cogeneration Systems for CHP Applications Offering Generator Paralleling Control, Active Synchronization and Soft Loading

Ruselectric, A Siemens Business, a leading manufacturer of automatic transfer switches and power control systems, manufactures UL-listed cogeneration systems for combined heat and power (CHP) applications in which the generator sets are run to serve the connected load and heat is also recovered for other uses. Designed and built for mission critical facilities such as healthcare, research and development and campus facilities, Ruselectric cogeneration systems are designed to provide maximum protection for operators and maintenance personnel and to minimize the danger of operator error. All Ruselectric cogeneration systems

are UL listed, offer programmable logic controller (PLC) system controls, and are supervisory control and data acquisition (SCADA)-capable. They feature utility/generator and other power assets paralleling control, and provide active synchronization and soft loading. Systems use a utility-approved interconnecting protective relay system. Ruselectric cogeneration power control switchgear may have additional controls and monitoring to optimize heat recovery. The systems can be designed to operate in parallel with the utility to optimize power and heat balance. Ruselectric manufactures complete systems in-house. All enclosures, bus, and

other structural components are fabricated and fully assembled in Ruselectric plants. Factory testing of complete systems is performed prior to shipment. Components are selected to assure the reliable operation of these critical systems. Utility-grade instruments provide both accuracy and visibility. Heavy-duty, switchboard type control switches are rated at a minimum of 25 amps. Protective relays for generator and utility power are utility-grade. UL-listed power circuit breakers with stored energy closing mechanisms provide 5-cycle (maximum) closing for paralleling. Draw-out circuit breakers simplify maintenance. □

### ABOUT RUSELECTRIC

Founded in 1955, Ruselectric®, A Siemens Business, provides high-integrity power control solutions for mission critical applications in the healthcare, information technology, telecommunication, water treatment, and renewable energy markets. The company maintains vertically integrated manufacturing facilities in Massachusetts and Oklahoma, where it designs and builds a full line of automatic transfer switches, switchgear, and controls. Ruselectric products carry the longest and most comprehensive warranty in the industry and are backed by a team of expert factory-direct field service engineers. To learn more about Ruselectric products and the company's commitment to customer satisfaction, visit [www.ruselectric.com](http://www.ruselectric.com), call (781) 749-6000, or email [info@ruselectric.com](mailto:info@ruselectric.com).



# Electri-Flex Company Provides Community Meals for Thanksgiving

ELECTRI-FLEX COMPANY, celebrated Thanksgiving this year with its 4th consecutive annual food drive, teaming with community leaders to deliver 700 meals on Thanksgiving day. Electri-Flex organized 700 meals complete with turkeys in their roasting pans, cans of corn and cranberries, boxes of stuffing and mashed potatoes, and much more. Community leaders

provided even more food, which was all boxed and distributed to the public in meal boxes right before the holiday weekend. Sponsors include Electri-Flex Company, the Roselle Police Association Foundation, the DuPage County Sheriff's Office, Fates, Bodily & Parker PLLC, Precision Stamping Products, Meals on Wheels of DuPage County, and SCARCE.



### ABOUT ELECTRI-FLEX

Electri-Flex Company, a leader in electrical conduit design and manufacture for over 65 years, produces Liquealite®, the most diverse line of liquidtight flexible electrical conduit in the industry. The company offers custom design, engineering, quality assurance and testing capabilities. For more information on Electri-Flex Company, call (630) 529-2920 or (800) 323-6174; fax: (630) 529-0482; e-mail: [mktg@electriflex.com](mailto:mktg@electriflex.com); visit: [www.electriflex.com](http://www.electriflex.com); or write: 222 West Central Avenue, Roselle, IL, 60172-1994.



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# NSI’s Building Technologies Business Unit Grows with Acquisition of ENET Solutions, Inc.

*The Addition of the Aliso Viejo, Calif.-Based Manufacturer & Solution Provider of Compatible Network Peripherals and Connectivity Products Continues NSI’s Commitment to Growing its Building Technologies Category*

NSI Industries, LLC, a leading provider of electrical product solutions for more than 45 years, has announced that it has acquired ENET Solutions, Inc., an Aliso Viejo, Calif.-based manufacturer and solution provider of compatible network peripherals and connectivity products, represented by Global Capital Markets, Inc. As part of its commitment to connecting distributors to the products, services, and technologies they require to move forward and satisfy their customers’ needs, the acquisition also allows NSI to further key inroads into the Building Technologies market.

“Adding ENET to NSI’s family of leading brands is a testament to our commitment to growing our Building Technologies business unit,” said Dave DiDonato, NSI Building Technologies president. “ENET’s strong product offering portfolio, their ongoing strive for excellence in product performance, and personnel dedicated to being the best in the industry make them an ideal addition to NSI.”

Founded in 2003, ENET Solutions, Inc. is a leading solution provider of compatible network peripherals and connectivity products, offering more than 10,000 different connectivity product solutions. Its product portfolio includes



high speed OEM compatible transceivers, active optical cable assemblies (AOC), direct-attach copper cable assemblies (DAC), server memory, media converters, network interface cards (NICs), and thousands of different cable solutions, which are designed and manufactured specifically for the most demanding network environments. With an entirely unique go-to-market strategy, ENET focuses on High Performance Computing, Large Enterprise Business, Data Centers, Service Providers and Public Sector. ENET offers a true OEM alternative by offering identical functionality to OEM products and a lower acquisition cost without sacrificing quality or support.

“Our continued growth is the direct result of our dedication to quality through innovation, development, and validation using the industry’s most

advanced networking and testing platforms,” said Jason Barrette, ENET Solutions president. “Much like NSI, the ENET team is comprised of motivated industry professionals with a shared desire and commitment to providing our customers with a greater overall business experience.”

NSI Building Technologies, a part of NSI’s Electrical Division, is a leader in fiber and copper cable assemblies, pigtails, connectors, patch cords, patch panels, trunks, enclosures, jacks, electronics and components for networking applications, and interconnects, AV cable, USB cables and signal distribution electronics for networking, security & AV applications. The ENET brand joins Lynn and Platinum Tools to expand NSI’s offering to Broadband, Data Communications and AV/Security customers. □

## ABOUT NSI INDUSTRIES, LLC

NSI’s core philosophy is *Making Connections*. Focused on the electrical, building technology, and HVAC markets, NSI connects distributors to products, services, and technologies by providing a fresh perspective and caring approach that drives smart solutions. The driving force behind a stable of market-leading brands and a large breadth of products, the company’s primary job for more than 45 years has been to fulfill the needs of distributors and their customers. By staying grounded in the principles of service and value, NSI continues to deliver high-quality, industry-advancing, and comprehensive product solutions that enable growth. NSI has many well-respected brands, including Bridgeport Fittings®, Remke Fittings®, Polaris® Power Connectors, TORK® Timers and Controls, Metallics™ Fasteners, Platinum Tools® Network Connectors, Lynn™ Network Components, Duro Dyne® Air Duct Solutions and SUPCO HVAC Repair Products. For additional information about NSI Industries and our family of brands, visit [www.nsiindustries.com](http://www.nsiindustries.com).



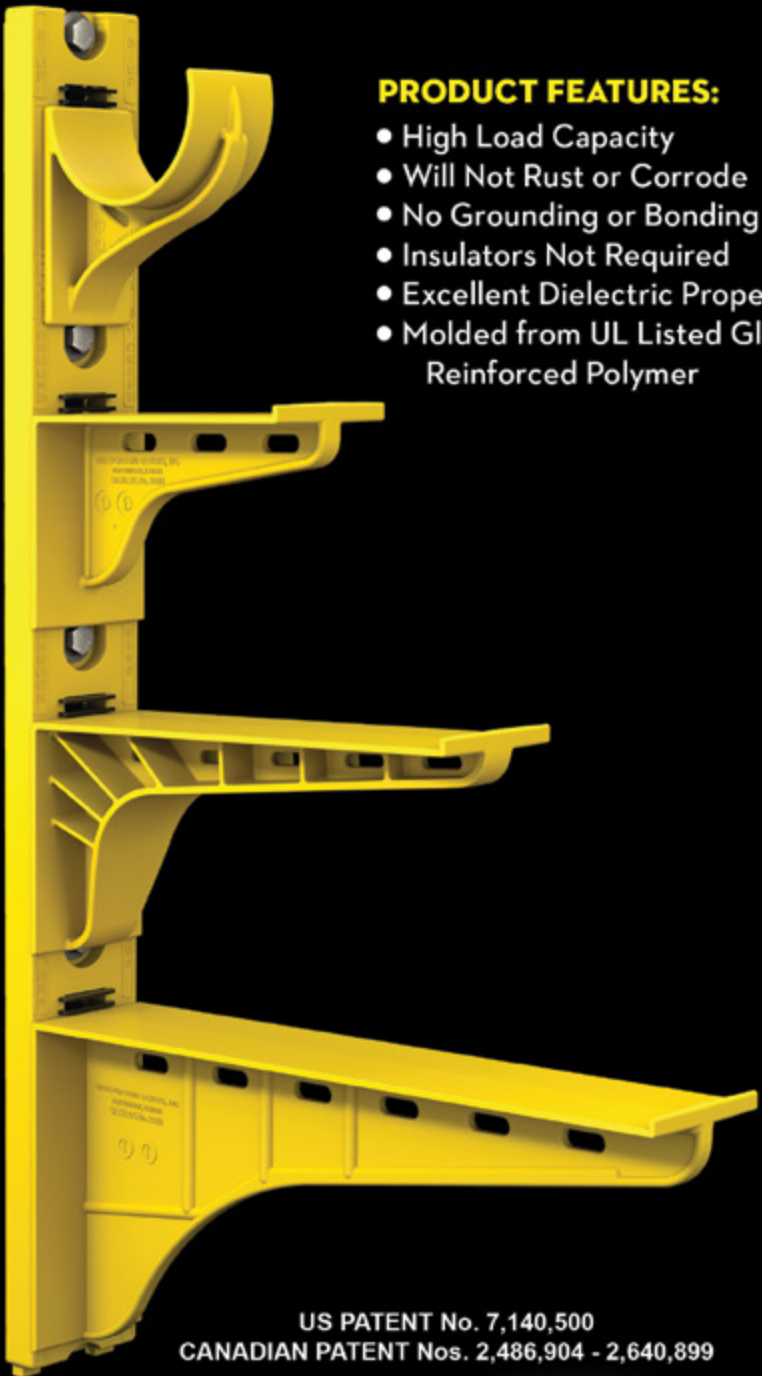
# The Heavy Duty Nonmetallic CABLE RACK

For Power and Communications Manholes And Vaults



## PRODUCT FEATURES:

- High Load Capacity
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- No Grounding or Bonding
- Insulators Not Required
- Excellent Dielectric Properties
- Molded from UL Listed Glass Reinforced Polymer



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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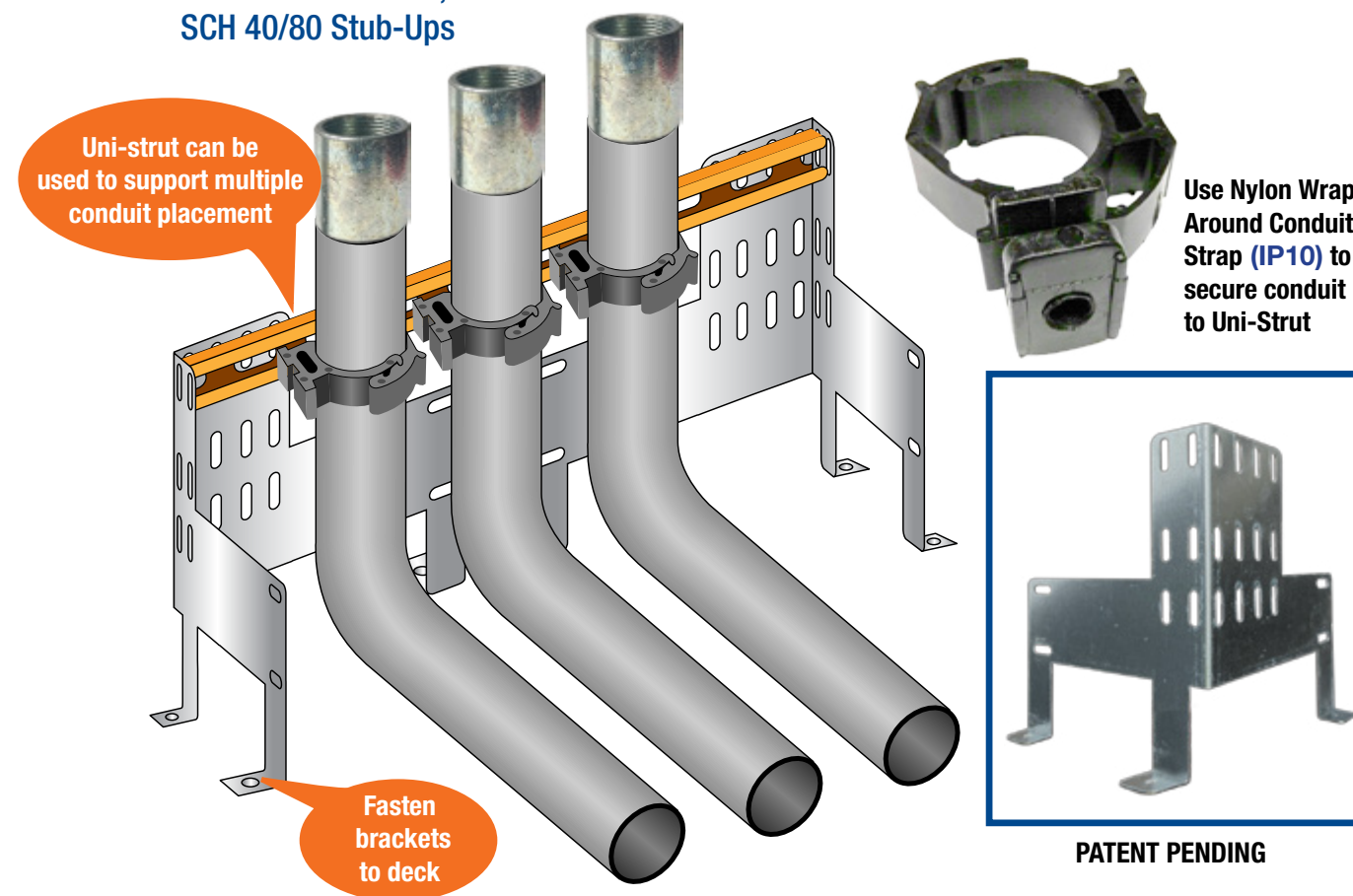
# EZ Stub-Up SUPPORT BRACKET



- 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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## Optronics Introduces Industry's First Temperature-Sensitive Heated LED Lighting Family with Full Lifetime Warranty

Highly efficient and microprocessor-controlled, Optronics' new heated LED lamps automatically monitor ambient temperature and turn heating functions on and off as weather conditions change.

Optronics International, a leading manufacturer of vehicle harnesses, electronic control systems and LED lighting for the global transportation industry, announced the release of its TLL75 Series LED flood beam work lights and STL13 Series 4-inch round LED stop, turn, tail lights just in time for winter weather. The TLL75 Series LED flood beam work light is also being offered with an amber lens that is less reflective in snowy environments.

Some heated LED lighting units use resistors to heat themselves, and as long as the light is on, the lights continue to generate heat. Because heat affects LED lifespan, and because these lights are exposed to excess heat year-round, their service life can suffer and thus warranties are usually strictly limited.

"Unlike many other lamps that are constantly 'cooking' themselves to death, our heating technology only comes on when necessary," said Dustin Smith, vice president of sales for Optronics. "Our lamps are smart, and our microprocessors are programmed to start heating only when temperatures begin dropping below 50 degrees Fahrenheit (10 degrees Celsius), in preparation for ice and snow, and as the environment warms again, they stop heating."

Another unique feature of Optronics' new lamps is the way in which they actually heat. Most of the heated lamps on the market use filaments embedded in their lenses, much like a rear-window defroster. Optronics' heated lamps begin the heating process at the core of the lamp, at the level of the circuit board. The heat then emanates throughout the lamp, quickly warming the entire body of the lamp, including its housing.



"The tiny filaments many manufactures rely upon to heat their lenses can be easily damaged and, once compromised, will fail to defrost their lamps," said Smith. "Just like Optronics' other lamps, our TLL75 Series LED flood beam work lights and STL13 Series 4-inch round LED stop, turn, tail lights employ a solid-state, surface-mount device (SMD) design that protects their electronics, including their heating elements, against moisture, shock and vibration."

The lamps are designed to target commercial vehicles operating in a northern climate with harsh winters. In fact, Smith mused that Optronics had its first order come in from Canada before it even had the new heated lamp products on the shelf. Body builders, upfitters and aftermarket retailers with customers that contend with frigid weather now have a

robust, reliable product with a lifetime warranty to offer them.

The TLL75 Series LED flood beam work light and STL13 Series 4-inch round LED stop, turn, tail light heat up quickly to melt ice and snow from their lenses and housings. In fact, performance results in environmental test chambers show rapid, whole-lamp heating. Starting at -22 degrees Fahrenheit, with 5 millimeters of ice on their lenses, the lamps heated to 3 degrees Fahrenheit after one minute, 43 degrees Fahrenheit after five minutes and 100 degrees Fahrenheit after 15 minutes.

The TLL75FHBB work light features a 4,500 raw lumen output and an effective lumen output of 2,800, while the TLL75AHBB work light offers a 2,300 raw lumen output and an effective lumen output of 2,000. □

**Optronics**

### ABOUT OPTRONICS

Optronics products are available in the U.S. and Canada through the company's extensive distribution network of more than 30,000 convenient distribution locations. For information on international sales and distribution of Optronics products, please contact Dorian Drake at +1 (914) 697-9800, or visit <http://doriandrake.com>.

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- ◆ High energy output
- ◆ Proven reliability
- ◆ Compact design
- ◆ Lightweight

### Wayfind'r - Impulse cable tracer

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- ◆ Easy to use
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The Purchasing Guide for Electrical Contractors





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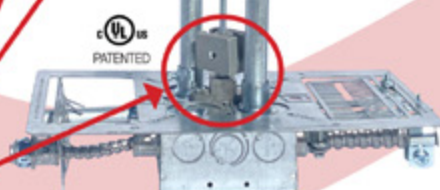
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(IP21a)

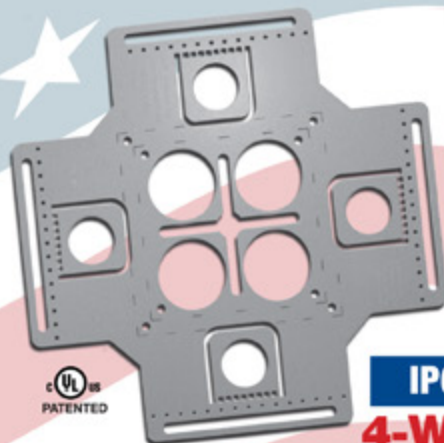
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**IP6**

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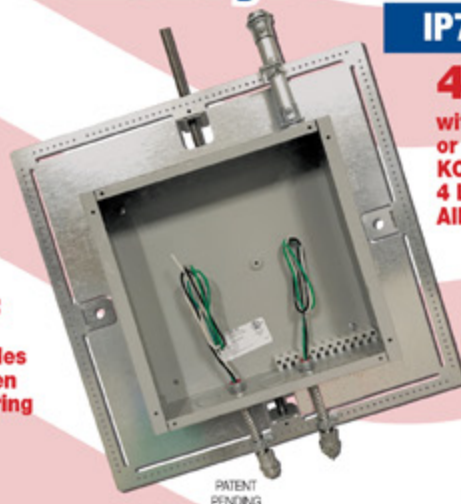
Enter Any KO on All 4 Sides  
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KOs in Center Allows Entering  
Back of Box



**IP6a**

**2-Way/Half**

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



**IP7**

**4-Way**

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