

# Electrical

December 2021

## Products & Solutions™

*The Purchasing Guide for Electrical Contractors* [www.epsmag.net](http://www.epsmag.net)





*Simplify and Enhance Your Monitoring and Reporting Capability*

# 6 Environmental Data Loggers

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Lightmeter Model 1110

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**AEMC**  
 INSTRUMENTS  
 CHAUVIN ARNOUX GROUP



# SP PRODUCTS, INC.

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## IP26 Flat "Big O"

Box Support Plate



SAVES OVER 1 HOUR PER INSTALLATION

Prefabricated Assemblies

SAVE More Than \$15.00 per Wall Outlet

PFA3



## IP11

### Trapeze Brackets

Original EZUTB - Size 1/2" thru 1 1/2" Conduit or equal size MC Cable.

SAVE OVER 20 MINUTES PER FOOT



TRAPEZE Eliminates ALL Conduit Clamps!



NECA SHOW STOPPER 7991

Mount Boxes on Both Sides or Between Studs

## IP28a

PATENTED

### 2 Box Flat Fixed Position

Strong 16 Gauge Galvanized Steel



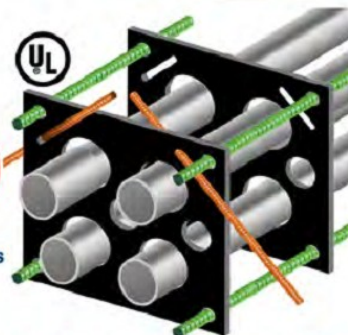
## IP1

### QwikDuct HDPE CUSTOM TEMPLATES

LOWER CONDUIT FROM ABOVE  
NO WORKERS BELOW PREVENTS INJURIES OR DEATHS  
4,000 PSI TENSILE STRENGTH AT BREAK  
OVER 12X FASTER THAN SPACERS & CHAIRS

PATENT PENDING

NECA SHOW STOPPER 2000



## Conduit & Box Support Plates



IP5  
PATENTED

\* IP6  
PATENTED

\* IP6c  
PATENT PENDING

\* IP7  
PATENTED

IP8  
PATENT PENDING



Support From Only ONE Rod Plus Eliminates Conduit Clamps  
Save More Than One Hour per Installation! \*

## IP13a-13h

### Transition Couplings



## IP19 4-Conduit Block

PATENTED

Support up thru 4 conduits From ONLY 1 ROD!



SAVE OVER 30 MINUTES PER INSTALLATION

Sizes 1/2" thru 6" Schedule 40/80 Conduit

## IP15

1 Piece Reaming Bit

PATENT PENDING

1/2" thru 6"



High Speed Steel for Long Life.

## IP21a QwikBlock Box Support

PATENT PENDING

NEW



Accepts Both 1/4" & 3/8" Threaded Rod

NEW

Snap-ON Adjustable Back Box Support

## IP18a

PATENT PENDING



## IP3a

End Bell Adapter



Smooth Edges Allow Trouble Free Wire Pulls.  
PVC Schedule 40 & 80  
Sizes 1/2" thru 6"

## IP3b

PVC Offset

1/2" thru 6" Conduit  
1/2" thru 2" Offset  
PATENT PENDING



Plus More That Do Jobs **SAFER BETTER FASTER** Constantly Being Invented!



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# Electrical Products & Solutions™

The Purchasing Guide for Electrical Contractors [www.epsmag.net](http://www.epsmag.net)

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*Electrical Products & Solutions™* is published twelve times a year on a monthly basis by ABD Communications, Inc., 3591 Cahaba Beach Road, Birmingham, Alabama, 35242, USA. *Electrical Products & Solutions™* is distributed free to qualified subscribers. Non-qualified subscription rates are \$57.00 per year in the U.S. and Canada and \$84.00 per year for foreign subscribers (surface mail). U.S. Postage paid at Birmingham, Alabama and additional mailing offices.

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**POSTMASTER:** Send address changes to  
ABD Communications, Inc., P.O. Box 382885  
Birmingham, Alabama 35238-2885

PRINTED IN THE USA



# INNOVATIONS

## Faster Safer Workspace

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### ALL JACK™

Increase productivity and decrease fatigue using iTOOLco's All Jack™. Install pipe, lights, cabinets, drywall, temporary dust barriers and much more with this innovative jack designed to lift and support the weight of your workpiece while you anchor it into position.

High ceilings and ladder work are not a problem for this dynamic tool. Reach from 58" to a staggering height of 13'6". The industrial gas shock ensures a snug, stable support that stays in place while you complete the installation. Once your workpiece is secured into place, simply remove the All Jack™ by releasing the shock. More powerful than a typical support pole, the All Jack's gas shock can handle your most challenging jobs.



SCAN QR

### CORDLESS CANNON 3K™

Speed, Versatility, and performance are all yours with iTOOLco's Cordless Cannon 3K™. This portable 3,000 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.

The high-capacity rechargeable battery is long-lasting and delivers maximum power. The Cannon 3K™ will even chew through a medium size run of 4 - 350 in 3" conduit with 4 - 90s 220' long in record time and still have half the battery life for your next pull.

SCAN QR



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## NO KIDDING!

*Designed especially for power, communications  
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**STEP 1**  
Remove damaged  
conduit



**STEP 2**  
Cut split duct  
conduit to fit



**STEP 3**  
Snap in  
place



**STEP 4**  
Attach  
adapters



**STEP 5**  
Finish job in  
record time

***"The World Leader In Split Conduit Products"***



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**The World Leader In Split Conduit Products**



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# 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 in<sup>3</sup> 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



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See our line of telecom & fire signal boxes at: [www.RANDL-INC.com](http://www.RANDL-INC.com)

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



# 20 21 TOP PRODUCTS

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.





# 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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## CORPORATION

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### **AEMC® Instruments has a New Hand-held Megohmmeter/Multimeter Model 6529**

The Model 6529 is a low cost 1000V digital hand-held Megohmmeter that also offers Multimeter functions. It's simplicity and low price make it ideal for contractors and electricians that need to check the quality of insulation as well as perform basic electrical measurements. It is a True Megohmmeter® in compliance with IEC 61010 and is lightweight, compact, rugged and easy to handle, even when wearing gloves. An intuitive pass/fail indication offering a blue/red backlight makes it very easy to identify defective conditions. It includes an automatic test inhibit if connected to a live circuit as well as automatic discharge at the completion of the test. A relative measurement function called DMR (Differential Mode Resistance), unique to AEMC, provides the capability to compare measurements to a known reference quickly recognizing potential problems. It includes Megohmmeter DAR and PI ratio test functions. Multimeter functions include AC/DC voltage, resistance, and continuity.

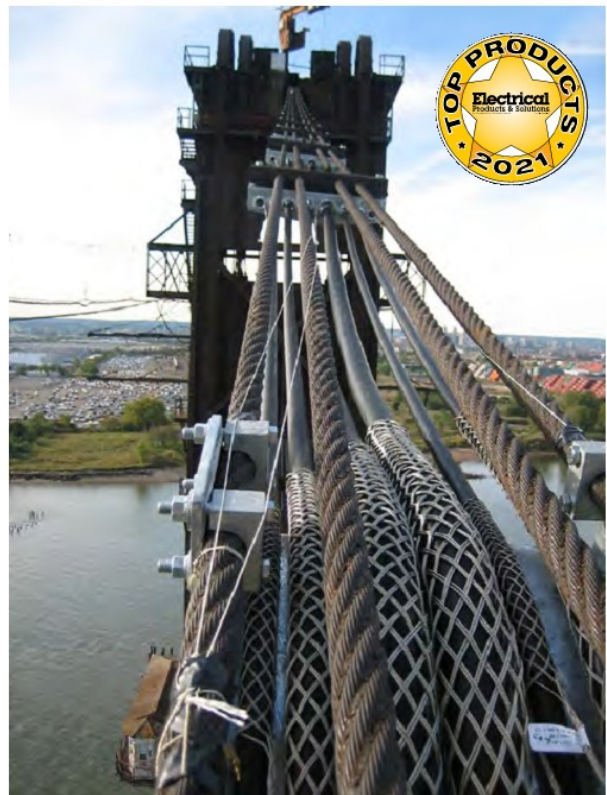
**For more information, visit  
[www.aemc.com](http://www.aemc.com)**

### **Wire Mesh Cable Grips and Accessories**

Amtec Corp. was founded in 1988 by David E. Fallon to design, manufacture, and market wire mesh cable grips and accessories. Wire mesh is used in a wide variety of pulling, strain relieving and cable support applications. Cable grips are traditionally used in the utility, industrial, mining, construction and electrical OEM markets.

With the ability to custom design wire mesh grips for your specific needs we are able to ease the process of securing solutions for your requirements. Manufacturing for worldwide applications, from Distribution, to OEM's, Authentic Amtec Grips is your choice for all of your quality wire mesh cable grips.

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





## 20 21 TOP PRODUCTS



### Appleton™ Mercmaster™ Connect LED Luminaire

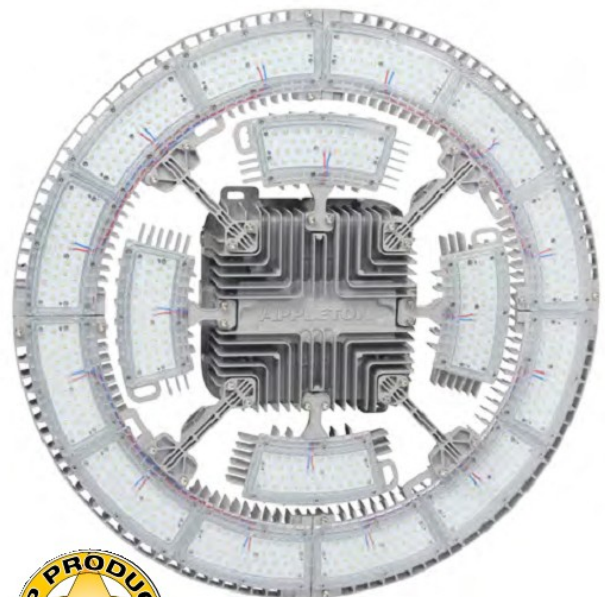
The Appleton™ Mercmaster™ Connect LED Luminaire by Emerson is designed to illuminate hazardous and harsh industrial locations with integrated motion and illuminance sensors. This groundbreaking solution dramatically lowers cost when compared to wired monitoring alternatives, with faster installation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

### Appleton™ IHC LED Luminaire

The Appleton™ IHC LED Luminaire by Emerson is the ideal solution to deliver light from mounting heights of 50 to over 100 feet. This innovative solution LED luminaire supports heavy industrial facilities in their drive for continued productivity, lower costs, and better safety. The Appleton IHC is especially ideal for hot areas of a facility, with engineering capable of withstanding maximum ambient temperatures up to 167° F (75° C), like a steel mill, foundry or paper plant. With outputs up to 90,000 lumens, it can supply up to 250% more output than standard LED fixtures on the market, unlocking operational cost-savings for manufacturing facilities by requiring fewer luminaires.

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





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- Clean up those cabs and get your fleet organized!

## Your Total Mobile Office Solution

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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™**  
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## 20 TOP 21 PRODUCTS



### 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 IM-



PULSE PHASER is designed and built to withstand the normal use generally associated with linemen's 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)**

### 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 in<sup>3</sup> 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!

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





# Control, Monitor and Manage Power & Energy Usage and Costs


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- Affordable, simple-to-use, single-, split-, and three phase power and energy logger
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- Track time-of-use energy costs
- Complies with NEC 220.87 monitoring requirements and generates the reports.



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front panel,  
DataView®  
control panel,  
or the Android App*



 Android™ App Available

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**AEMC**  
INSTRUMENTS  
CHAUVIN ARNOUX GROUP



## 20 21 TOP PRODUCTS

### 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)**



### Food Grade



### Type LAFG Liqueflex® Flexible Conduit

Electri-Flex Company offers Liqueflex® flexible electrical conduit Type LAFG, now with an improved PVC jacketing. These enhancements include a food processing blue color, a wider temperature range, and now antimicrobial. Food Grade type LAFG provides a flexible liquidtight protective wiring raceway, ideal for Food Processing, Pharmaceutical, and Bottling Equipment installations.

The food processing blue jacketing has grown in popularity as it provides high visibility for fast moving machinery and operations. Blue coloring is an added safety feature, as manufacturers can easily spot the blue color if fragments break off and get into the product.

The antimicrobial flexible PVC jacketing contains a biocide additive, inhibiting 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 LAFG also has a new wider temperature range, -30°C through 105°C, ideal for installations near heat-producing food equipment.

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





## Extend Luminaire Life While Reducing Energy Consumption



Appleton™ Mercmaster™ Connect LED

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](https://masteringled.com)

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## 20 21 TOP PRODUCTS



### OmniMax LED Retrofit

The OmniMax is the perfect fit when updating decorative streetlights to LED. Emulating the burn center and size of HID bulbs the OmniMax utilizes existing fixture optics as intended. A matte finish, molded silicone optic eliminates LED 'points' and glare. Built-in smart features, such as Photocontrol Failsafe, which guarantees dusk-till-dawn operation should the fixture photocontrol fail, plus dimming via ConnectLED, Evluma's wireless mobile app, puts the OmniMax in a class of its own when it comes to retrofits. For use in teardrop, post top, shoebox or globes, the OmniMax installs in any orientation: base up, base down or horizontal; mogul or medium base socket. Need to update your decorative fixtures as well? Evluma's Build-Your-Own Acorn product line offers curated and customizable globes, capitals and shields. The OmniMax is offered in 40 or 70 watts and six CCT: 2000K – 5000K. 10-year warranty. 100W OmniMax Coming Soon!



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

### Greaves SNAP! Makes Perfect Connections

SNAP! connectors offer time-saving convenience, and the ability to work in tight spaces without bulky tools and dies. Insert your stripped wire, then turn a standard (box or adjustable) wrench to compress the copper body until the pre-calibrated nut snaps off. The result is superior conductivity and pull-out strength. SNAP! Connectors are UL listed. I got tired of hauling around a heavy hydraulic crimper and a full set of dies just to do 3 or 4 simple connections. For inspection, the slots show that the wire is fully inserted. When the connection is completed, the hex nut is gone, showing that the connection is complete and solid. After insulation (cold-shrink, heat-shrink, tape, etc.) the resulting shape without the hex nut is visually apparent. SNAP+ kits include cold-shrink sleeves. SNAP! is available in 1-hole and 2-hole NEMA lugs, and splices, for #2 through 500MCM.



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





## Lighting Your Way at Greater Heights



*Appleton™ IHC LED Luminaire*

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](https://masteringled.com)

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## 20 21 TOP PRODUCTS

### Cordless Cannon 6K

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. Capable of pulling up to 52' per minute using a 60V battery, this wire puller delivers dynamic performance in remote locations or areas where power is not yet available.

### All Jack™

Increase productivity and decrease fatigue using iTOOLco's All Jack™. Install pipe, lights, cabinets, drywall, temporary dust barriers and much more with this innovative jack designed to lift and support the weight of your workpiece while you anchor it into position.

High ceilings and ladder work are not a problem for this dynamic tool. Reach from 58" to a staggering height of 13'6". The industrial gas shock ensures a snug, stable support that stays in place while you complete the installation. Once your workpiece is secured into place, simply remove the All Jack™ by releasing the shock. More powerful than a typical support pole, the All Jack's gas shock can handle your most challenging jobs.

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





## Innovative Solution for Harsh Environments and Hazardous Locations



*SolaHD™ SDU AC - B Series  
DIN Rail UPS*



*Active  
Comm Card*



*Passive  
Comm Card*

The SolaHD™ SDU AC - B Series DIN Rail UPS by Emerson is perfect for mitigating power quality issues, minimizing loss of data and downtime. The SDU AC - B combines an industry leading compact design, wide operation temperature range, enhanced communication and unique installation options to solve common application problems.

- **Wide temperature range to protect against shortened battery life**, the field replaceable battery rated from 32 °F to 122 °F (0 °C to 50 °C).
- **Optional network communications that support all major protocols**, including EtherNet/IP™, Modbus®, Profinet or EtherCAT.

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

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## 20 21 TOP PRODUCTS

### The Electronic Control Center (ECC)

The ECC combines all your electronics into a single no drill package, and you get to keep your center seat!

This ECC Package Includes:

- Your Fully Adjustable Laptop or Tablet Mount
- Your Mobile Radio Mount
- Microphone Clip
- Your Handheld Radio Charger Mounts
- Variable Shutdown Timer
- PDU (12 Volt Power Distribution Unit)
- Ring Terminal Buss
- No Drill Base Installation



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




## Antimicrobial Food Grade Flexible Electrical Conduit

Liquatite® flexible conduit Types LAFG and LSSFG now have an improved antimicrobial PVC jacketing that contains a biocide additive, actively inhibiting the growth of commonly known food processing microbes and even *reducing* them over a 24-period. The blue jacketing is a highly visible color, not naturally occurring in the food chain, making any plastic contamination in the product stream easy to spot. The wider temperature range of -30°C through 105°C allows for hot wash downs and installation near heat-producing equipment. These conduits are Certified Components for NSF/ANSI 169, meet FDA CFR 21, and NSF 51/61 requirements.

- Now Antimicrobial
- Food Grade Blue Jacketing
- Wider Temperature Range
- NSF Certified Component
- FDA-approved compound in PVC

**Electri-Flex Company**  
222 West Central Avenue  
Roselle, IL 60172-1994 USA  
Phone: (630) 529-2920

**www.electriflex.com**  
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## Compact and Easy to Install DC UPS for Harsh Industrial Locations



SolaHD™ SDU DC - B Series DIN Rail UPS

The SolaHD™ SDU DC - B Series DIN Rail UPS by Emerson are perfect for mitigating power quality issues, minimizing loss of data and downtime.

The SDU DC - B UPS combines an industry leading compact design, wide operation temperature range  $-15^{\circ}\text{C}$  to  $+50^{\circ}\text{C}$  ( $+5^{\circ}\text{F}$  to  $+122^{\circ}\text{F}$ ), enhanced communication and unique installation options to solve common application problems.

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

**SOLAHD™**

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**CONSIDER IT SOLVED™**



## 20 21 TOP PRODUCTS



### SolaHD™ SDU AC-B UPS

The SolaHD™ SDU AC-B UPS by Emerson is perfect for mitigating power quality issues, minimizing loss of data and downtime. The SDU AC-B UPS combines a very compact footprint with a wide operation temperature range (0° to 50° C), while offering a network communications option that supports all major industrial protocols. Built rugged for harsh and hazardous locations, it helps manufacturers and data centers by bridging power failures during outages to allow for safe shutdowns of machinery, and by mitigating power



quality issues that adversely affect critical loads, therefore minimizing work interruptions, long restart cycles and the loss of data at the point of use.

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

### SolaHD™ SDU DC-B UPS

The SolaHD™ SDU DC-B UPS by Emerson helps improve availability of mission-critical devices, while simplifying commissioning, reducing maintenance, and driving down the Total Cost of Ownership across multiple industries. Leveraging microprocessor-based controls, the SolaHD SDU DC-B bridges power to machinery in the event of a brief disruption, as well as allows for safe shutdown of devices during a mains failure, therefore preventing data loss, work interruptions or equipment damage. With an input voltage range of 22.1 Vdc to 28.6 Vdc, the SolaHD SDU DC-B also provides a consistent flow of clean power by filtering noise and isolating damaging transients that are common in applications such as automotive manufacturing, material handling conveyors, the life sciences, pharmaceuticals processing, and “pick and pack” areas in distribution centers.



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



### Fire-Rated Speaker Cover

The Fire-Rated Speaker Cover is a dome-shaped intumescent enclosure which has been designed to help maintain the integrity of fire-rated ceilings for 60 minutes when using in-ceiling loudspeakers. With the entirety of the enclosure being composed of a proprietary intumescent material, the cover will expand internally 5x in the event of a fire, completely sealing off flames and heat. With this unique design, the flexible and lightweight enclosure gives the architect, sound professional, and installer more freedom in speaker selection as the covers are suited to fit a wide range of in-ceiling loudspeakers up to 10". The covers do not require any assembly and are placed within seconds.



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





### **An innovative way to join 2 pcs of conduits SCH40 PVC by not exceeding outer dimension of conduits.**



Duct bank projects often are being prefabricated on site or at a shop at a contractor place near the trench location. PVC Conduits of that trench section come in 20, 40 or 80 ft length and lowered in a trench at one time. Often breakage of conduit occur for many reasons. When that happens contractor has an issue trying to fix the repair. Transition coupling inside to inside pvc is the solution. You join 2 pcs of conduit at breakage point by reaming out both pcs of conduits, applying cement glue to both ends of a tapered part fitting and completing repair without touching prefabricated system of your trenched conduits solving a very serious headache. The product is used in a variety of ways not only for repair jobs, but new installation as well. Manholes often require joining conduits together, stub ups coming out of slabs require same installation method and this is a unique way to completing that install.

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

### **Electro Post CAT# EP-10 Box Support Plate**

Mount boxes quickly to either side of bracket  
Works with all stud wall widths 2.50" 3,625" or 6".  
Safer solution -No need to reach all the way up to the building steel eliminating need of using ladder in excess of 10' height or more.

Simply fold bracket in under 5 seconds forming a cylinder, placing tabs in 3 slots to secure it in place.

Attach box or boxes to either side of EP-10 as shown in picture above.

5 times faster than current installation methods.

Mount boxes by eliminating height dangerous jobs.

Strong 24 gauge galvanized steel.

Safer for electricians to work with, accessible and consistent height thru-out building.

No tools needed during installation other than a screw gun and screws.

Square tube design allows to install boxes on opposite sides of the pre punch post.



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



### **PVC Tapered to Threaded Transition Couplings to PVC Conduits Exiting Concrete Slab For SCH40 or 80 PVC**

Transition in less than 5 minutes.

Save cost on rigid nipple, tape and labor.

Use them for entire job, not just repair.

Great way to transition from PVC stub up to PVC conduit above slab without damaging PVC risers and chipping concrete, eliminating a concrete repair job.

Transition Fitting is manufactured in accordance with NEMA TC2, TC3 or UL 651 specifications.

Made in USA  
C UL US Listed



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





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IN USA**



**PRODUCTS, INC.**

*Productivity and value thru ideas*

**FOR SAFER BETTER FASTER JOBS**

**2021 NECA**  
**ShowStopper**  
**WINNER**



# Transition Couplings



**PVC Schedule 40 & 80 to  
Inside PVC to Inside PVC  
When Exiting Concrete Slab**

**Save  
at Least  
1 Hour** per  
Installation.

**NEW**



**Transitions in  
Less Than 5 Minutes!**

**Save Cost on the Rigid  
Nipple, Tape & Labor**

**Use for Entire Job -  
Not Just for Repair**



**PATENTED**

**1/2" thru 6"**

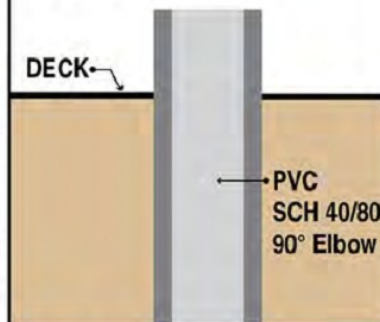
## Transition Couplings

| Size   | Catalog #        |
|--------|------------------|
| 1/2"   | 50PVC-IN/PVC-IN  |
| 3/4"   | 75PVC-IN/PVC-IN  |
| 1"     | 100PVC-IN/PVC-IN |
| 1 1/4" | 125PVC-IN/PVC-IN |
| 1 1/2" | 150PVC-IN/PVC-IN |
| 2"     | 200PVC-IN/PVC-IN |
| 2 1/2" | 250PVC-IN/PVC-IN |
| 3"     | 300PVC-IN/PVC-IN |
| 3-1/2" | 350PVC-IN/PVC-IN |
| 4"     | 400PVC-IN/PVC-IN |
| 5"     | 500PVC-IN/PVC-IN |
| 6"     | 600PVC-IN/PVC-IN |

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

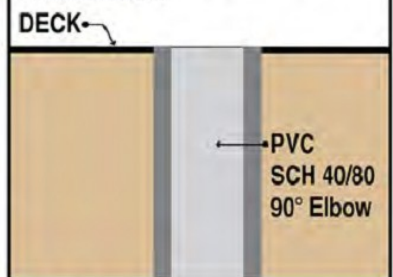
All SP Products Inc.  
Transition Fittings are  
manufactured for  
installation to either  
meet or exceed  
in accordance with  
NEMA TC2, TC3 or  
UL 651 specifications

### STEP 1



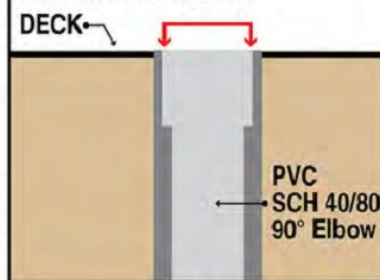
### STEP 2

Cut SCH 40/80 PVC Elbow  
Flush to Deck

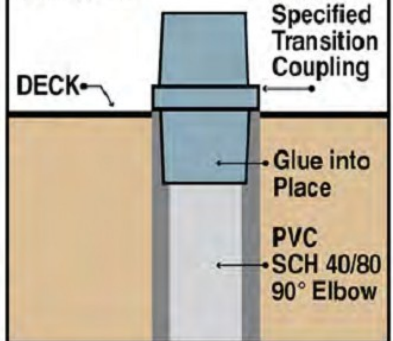


### STEP 3

Ream out 1/2 of wall thickness  
SCH 40/80 PVC Elbow



### STEP 4



See Our  
Conduit Plug  
See page IP16



See Our  
REAMING BITS for  
Transition Couplings



See page IP15

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**IP13k**



## Affordable test equipment for 2021



### **Spitfire** - 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



# TIMCO INSTRUMENTS, LLC

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**Save on Installation!**



Assemble Conduit Above Trench -  
**No Workers Below - Prevents Injuries and Deaths.**  
Also Allows Digging a Narrower Trench  
for Less: Excavation, Concrete, Slurry,  
Backfill & Shoring.

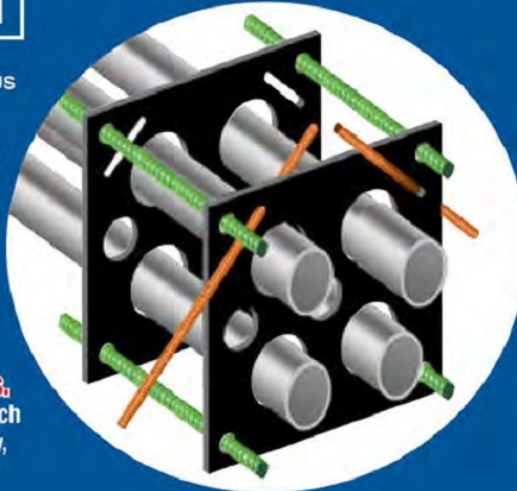
# Qwik Duct Safer Better Faster

**HDPE CUSTOM TEMPLATES**  
*In Any Configuration Required*

**IP1**



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**



**IP13A-F**

## Conduit Transition Couplings



**PVC Schedule 40 & 80**  
Transitions in Less Than  
**5 Minutes**

PATENT PENDING



**IP15**

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



PATENT PENDING



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

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# 20 21 TOP PRODUCTS

## 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)**



## ALWAYS AVAILABLE

The Top Products issue of Electrical Products and Solutions magazine is available year-round and archived for reference just like all of the previous issues at **[www.epsmag.net](http://www.epsmag.net)**.

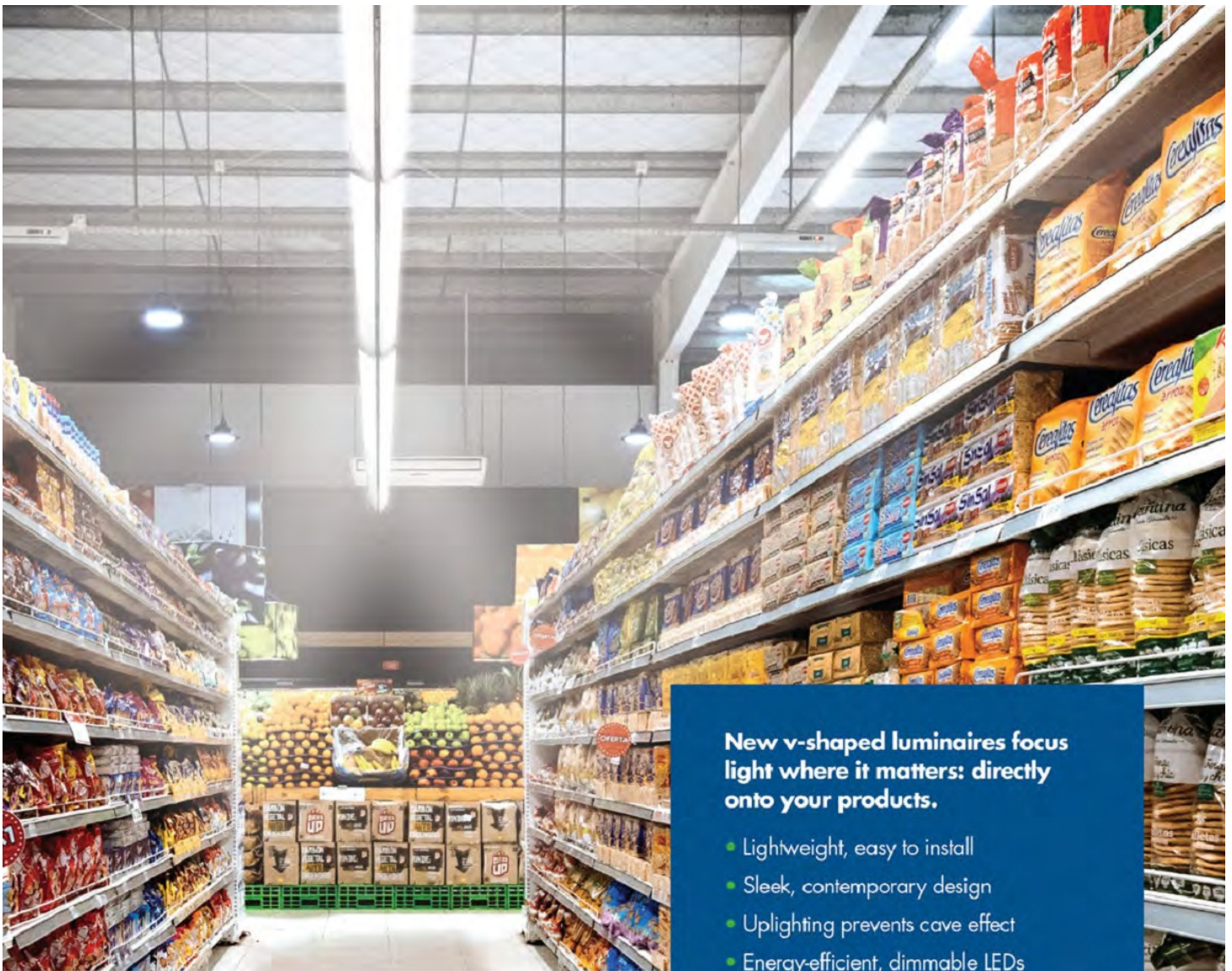
Topaz's Electric and Lighting Family  
in Their Favorite Ugly Sweaters

**CELEBRATE WITH STYLE** Topaz's Friendly Tip #25

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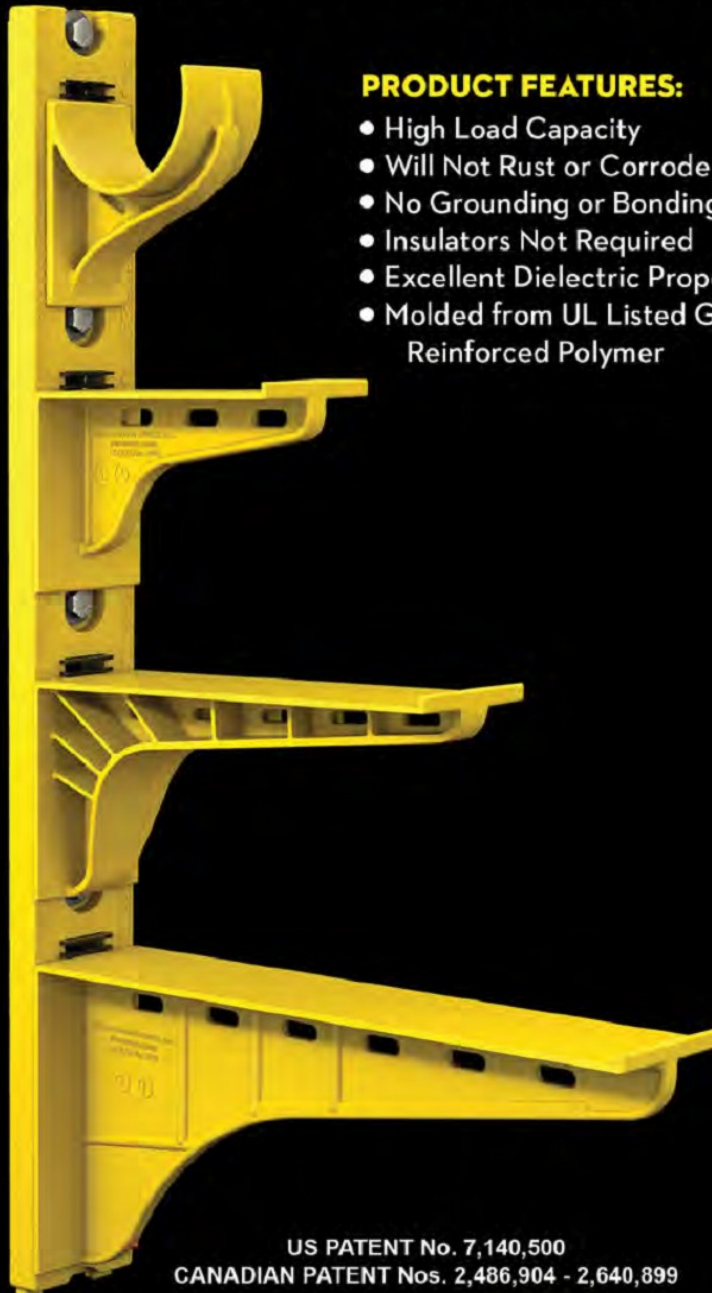




# The Heavy Duty Nonmetallic CABLE RACK



For Power and Communications Manholes And Vaults



## PRODUCT FEATURES:

- High Load Capacity
- Will Not Rust or Corrode
- 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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**NEW** ***SNAP Connectors*** from Greaves. A revolutionary compression connector concept that gets the job done with just a few turns of a standard wrench!

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