

Ericson mfg

Pendant Power and Control

Commercial & Industrial Cable Reels

Wire Mesh Strain Relief

Pendant Power and Machine Control

*Offering the Broadest Selection of
Pendant Power to the industry*



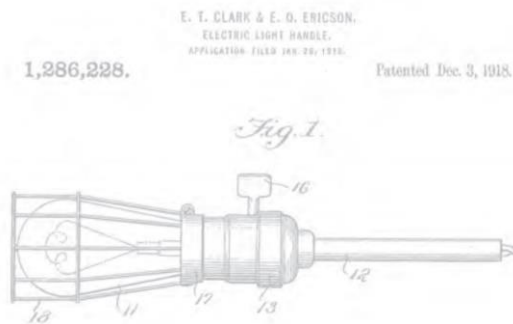
History & The Ericson Difference

1916

- Founded in 1918
- 4th Generation Family Owned & Operated
- Manufacturing in Willoughby, OH
- From our start Ericson's focus has been worksite safety
- Innovative Patents & Technology Introductions Through the Years



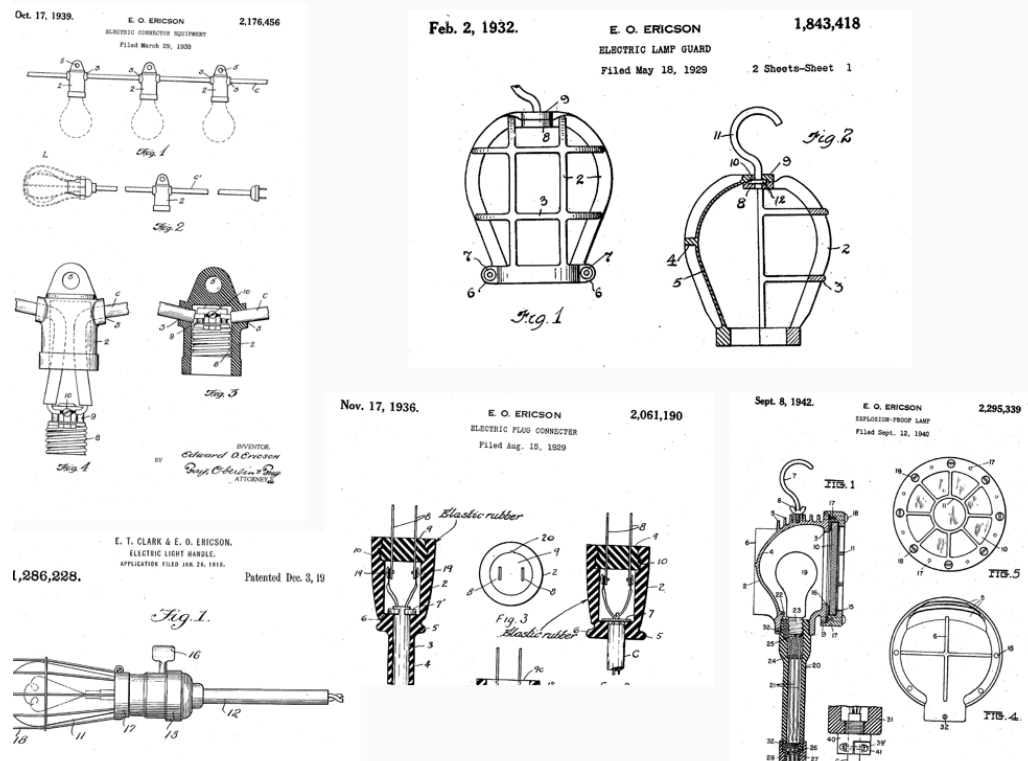
First Logo



The Rubber industry brings Edward Oscar Ericson (founder of Ericson Manufacturing) to Akron, Ohio where his awareness of worksite safety hazards brought forth inspiration to develop products for a safer workplace.

....from innovative patents to worksite safety....

1918 – 1930 Patents



1930 Catalog

C & E STANDARD MULTIPLE OUTLET CORD
Capacity 110 Volts, 960 Watts

No.	Length	Number Socket Outlets
2425	25 feet	3
2450	50 feet	5
2500	100 feet	10

Carton, 2. Standard Package, 4.

Special Cords, as to size, length and number and spacing of outlets, can be furnished to meet your special needs. The above units can be furnished of No. 14-SJ wire. Prices on request.

C & E STANDARD PORTABLE LAMPS

C & E NO. 600 SERIES PORTABLE LAMPS
Approved by Underwriters' Laboratories—Complete Units Include Handle, Socket and Guard.
Rubber Handle with C & E No. 6-B SOCKET with Cord Grip Clamp.

For Cords Up To 1 1/2 in. Diameter No. 603-R

No.	With No.	Guard	Watt	List Each	Carton	Std. Pkg.	Wt. Lbs.
603	103	Open	75	\$1.90	12	24	18
603-R	103-R	Reflector	75	2.00	12	24	18
603-S	103	Open	75	2.15	12	24	18
603-RS	103-R	Reflector	75	2.30	12	24	18
617	117	Open	60	2.20	12	24	18
617-S	117	Open	60	2.35	12	24	18

C & E SAFETY PLUGS (All Rubber)
(Patents Issued No. 2061190)

The C & E Safety Attachment Plugs are made to give longer service—be dependable during daily duty or emergency—make the usual repairs unnecessary—save time, work and money—the Last Word in plugs. There are as automobile hard rubber insert, which fits into a tough rubber jacket. This rubber jacket has a flexible shank which when the rear of the cord and has a special clip and groove retaining flexible shank in place. The Cord Grip Clamp removes all tension from the connections and allows one to yank the plug from the receptacle without any danger of shock and breakage. Pronounced by engineers to be the BEST Plug made. Standard with industrial, Railroads, Public Utilities, etc.

No.	For Lamp	List Each	Carton	Std. Pkg.	Wt. Lbs.
15-PC	75 Watt No. 79-S	\$0.30	10	100	16
15-P	125 Watt No. 79-S	\$0.40	10	100	16
15-POL	125 Watt No. 79-S	\$0.50	10	100	8
15-T	125 Watt No. 79-S	\$0.60	10	100	8
15-TC	125 Watt No. 79-S	\$0.70	10	100	8

Over 100 Years of Patented Safety Firsts:

- Industry's 1st insulated guard
- Industry's 1st rubber hand lamp
- Industry's 1st portable GFCI devices
- Industry's 1st dead-front, back-wired plug
- Industry's 1st 4-way insulated electrical box
- Industry's 1st voltage monitor for GFCI devices
- Industry's 1st explosion and vapor proof hand lamp
- Industry's 1st ground and continuity monitor devices
- Industry's 1st anti-microbial safety electrical products
- Industry's 1st low voltage LED XP string light
- Award winning e-Card PTU
- 1st Manufacturer to offer UVC Carts to the Electrical Channel

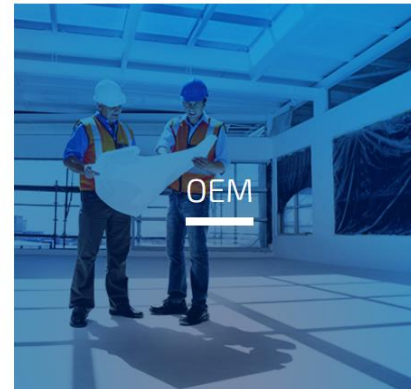
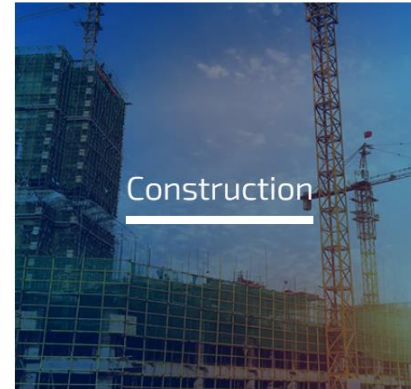
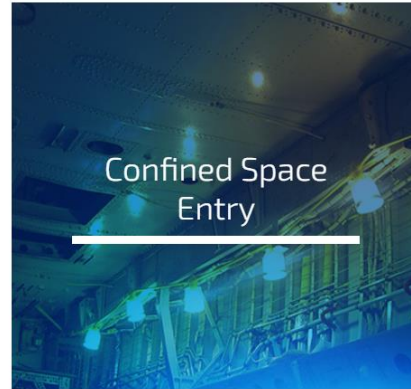


2023: Where we are Today

- Factory in Willoughby, Ohio (*20min East of Cleveland*)
- Continue to manufacture durable & high-quality products for the harshest environments
- Products are tested to the highest standards to comply with:
 - NRTL: UL, ETL, CSA
 - OSHA, NEC, NSF & More
 - ISO 9001:2015
- **97% of our products are Made in North America!**



Industries Served



It All Works Together:

- Provider of All Things Portable Power & Lighting

IT ALL WORKS TOGETHER

For over 100 years, Ericson has engineered and manufactured the safest portable power distribution and temporary lighting products on the market. Designed for superior durability and convenience, our engineered solutions offer customers the best tailor-made products to fit their specific needs.

NO ONE DOES IT BETTER.

We pride ourselves on providing distributor partners, industrial end users, and OEM customers all over the world with durable, industrial-grade products that protect the workforce from work site hazards, increase productivity, and have a lower cost of ownership than other options on the market.

Our unique array of products allows Ericson to offer our customers a comprehensive line of portable power and lighting solutions all in one place. Ericson is a customer-driven organization focused on high quality products, continuous improvement, and exceeding our customer's expectations. From initial application consultation, to design and manufacturing, to product performance in the field, we aim to consistently impress.

Thank you for considering Ericson products for your company.



① PTU

The Power Transformation Unit converts voltages of 480V or 600V plant power, such as from a welder socket, to lower voltages suitable for use by workers with portable tools and lights.

② PDU

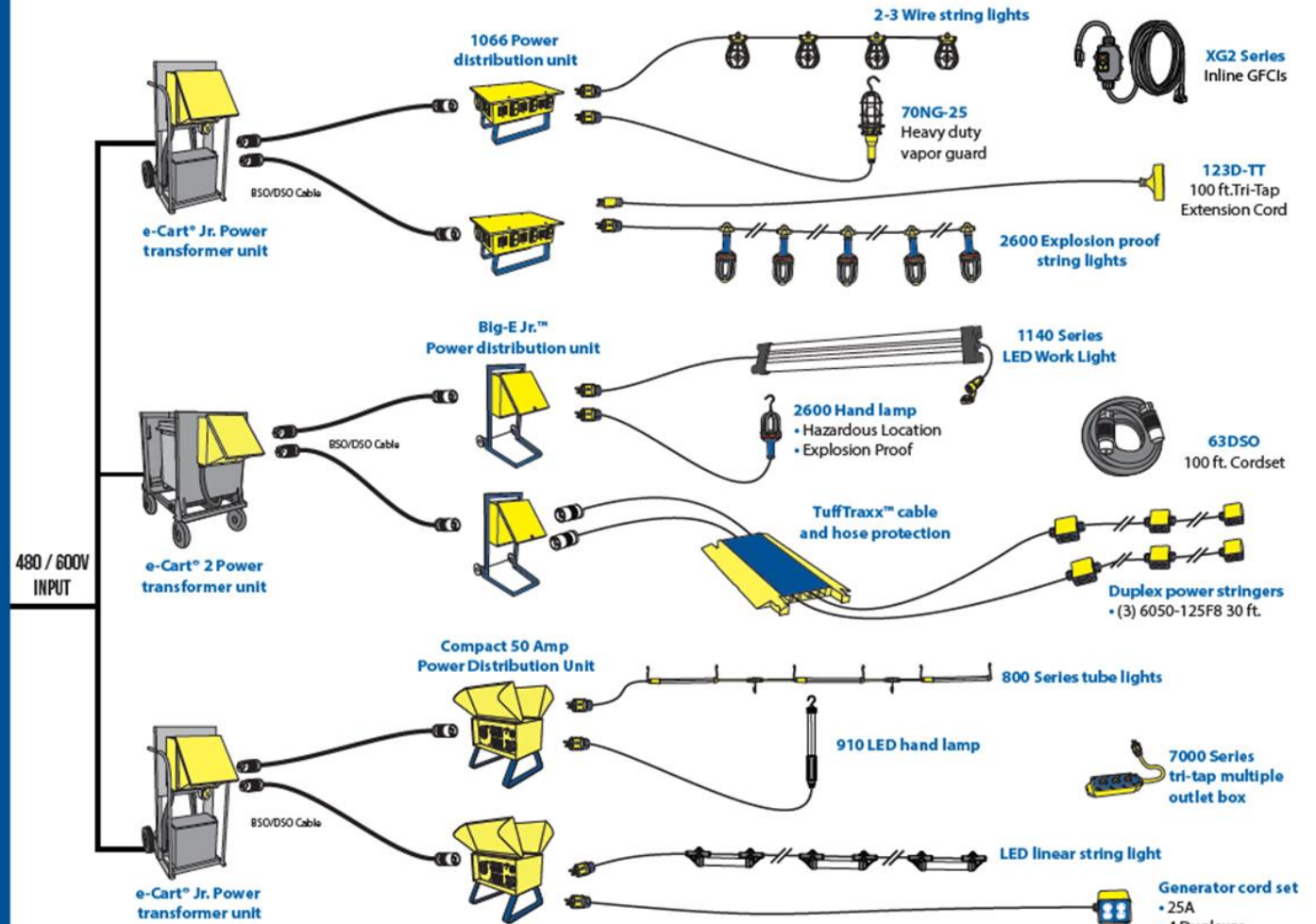
The Power Distribution Unit provides circuit breaker protection and distribution receptacles to distribute the 120, 240, or 208V power to tools and lights.

③ LIGHTING

Wide area lamps and task lamps provide bright, glare-free illumination for all your lighting needs.

④ CORD SETS

Cord sets bring reliable power right to where you need it to get the job done.



*PRODUCT NOT PORTRAYED TO SCALE

L1000679C

Ericson mfg

Wire Mesh Products

Complete line of Pulling, Support, Deluxe Strain Relief, Standard and I-Grips

Exclusively Made in the U.S.



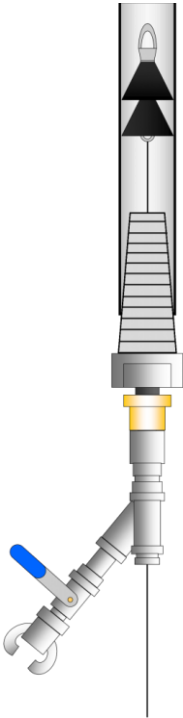
Wire Management – Wire Mesh

- Major Classifications & Applications
 - **Pulling Grips** -
 - Used primarily for Pulling transmission lines, service lines and cabling for construction
 - **Supporting Grips** -
 - Managing and Supporting Cable for permanent indoor and outdoor applications.
 - **Strain Relief Grips** -
 - Relieving strain where cords, entering equipment or tools, are affected by motion, vibration or risk of pull-out.
 - Used indoor as dry and dust resistant – ***Wire Mesh Strain Relief***
 - Used outdoor or wet environments – called ***Deluxe Strain Relief***
 - **Cord Grips** -
 - Water-tight and corrosion resistant grips offering pull-out protection for enclosures
 - **I-Grips** -
 - Cable support, pull-out protection and arc-of-bend protection used with wiring devices

Pulling Grips

- Applications

- Specific Pulling Grips are designed for pulling insulated cable, bare conductor (aluminum or copper), ground wire, wire rope or messenger strands for overhead and underground pulling applications including transmission lines. Versions available for pulling communication cables.



How to Select the Correct Pulling Grip

Step 1	Choose a pulling grip style that is best suited for your application. Junior Pulling Grips cable diameter range = .25 to 1.25" and Breaking Strength = 450 to 3900 lbs. Light Duty Grips cable diameter range = .50 to 3.99" and Breaking Strength = 2800 to 14700 lbs. Utility Pulling Grips cable diameter range = .50 to 6.99" and Breaking Strength range = 4500 to 48000 lbs.
Step 2	Determine your cable outside diameter. Refer to Technical Reference section.
Step 3	Find the mesh grip size that encompasses your cable diameter.
Step 4	IMPORTANT! Estimate the tension to be put on the grip, establish the working load you require and compare this to the listed approximate breaking strength of the grip to insure that the grip will be strong enough. For Pulling Grips, use a Safety Factor of 5. Refer to Refer to Technical Reference section for safety and working load considerations.



Pulling Grip Styles -

- JPG Style - Junior Pulling Grips –
 - Sizes - .25" – 1.25", Breaking Strength – 450 – 3,900 lbs.
 - Offered in Kit Form – all part numbers from .25" – 1.25"
- LDPG Style – Light Duty Pulling Grip
 - Short = denoted by –S at end of catalog number (short in length)
 - Sizes - .50" – 3.49"
 - Breaking Strength – 2,800 – 14,700 lbs.
 - Standard
 - Sizes - .50" – 3.99"
 - Breaking Strength – 2,800 – 14,700 lbs.
- UPG – Utility Pulling Grips
 - Sizes - .50" – 3.99"
 - Breaking Strength - 4,500 – 31,000 lbs.



Support Grips

- Applications –
 - Support Grips are used for indoor or outdoor applications where cable, metal rod, hose and tubing support is required
 - You'll find applications in buildings, industrial applications, poles, excavations, mine shafts, towers, elevators, jetways and several other structures

Support Grip Styles	
Standard Support Grips	Support Vertical Runs to 99 ft. Loads to 600lbs. Electrical cables must be supported or their dead weight can cause excessive strain or pullout at the connections resulting in a power failure. (Diameter Range = .5 to 3.99" and Breaking Strength Range = 500 to 4900 lbs.)
Heavy Duty Grips	Support Vertical Runs over 100 ft. Loads Over 600lbs. Electrical cables must be supported or their dead weight can cause excessive strain or pullout at the connections resulting in a power failure. (Diameter Range = .75 to 4.49" and Breaking Strength Range = 2820 to 12070 lbs.)
Service Drop	Light Duty to Support Service Entrance Cable in sloping, vertical, or horizontal positions. (Diameter Range = .23 to 1.25" and Breaking Strength Range = 290 to 1790 lbs.)
Bus Drop	Light Duty Support, Indoors Only, On Bus Drop Cable that relieves tension and absorbs vibration which protects the cable. Safety Springs can be used in conjunction to relieve sudden strain on cord or cable overhead systems. (Diameter Range = .22 to 1.25" and Breaking Strength Range = 350 to 1800 lbs.)
Conduit Riser	Support Cable Runs in Rigid (Sched. 40) Conduit. (Diameter Range = .50 to 3.99" and Breaking Strength Range = 290 to 5380 lbs.)

Support Grips

Standard Support, Heavy Duty Support, Service Drop, Conduit Riser Grips, and Bus Drops

How to Select the Correct Support Grip

Step 1	Refer to the chart below to determine the Support Grip style that is best suited for your application.
Step 2	Where available, select an Eye style that is best suited for your supporting application
Step 3	Determine your cable outside diameter. Refer to Technical Reference section.
Step 4	Find the mesh grip size that encompasses your cable diameter.
Step 5	Select a Mesh style from chart below. Whenever possible, use a closed mesh that assembles over the cable end. If the cable end is not available, use a split mesh such as Lace or Rod Closing.
Step 6	IMPORTANT! Estimate the tension to be put on the grip, establish the working load you require and compare this to the listed approximate breaking strength of the grip to insure that the grip will be strong enough. For Support Grips, use a Safety Factor of 10. Refer to Technical Reference section for safety and working load considerations.



Universal Bale



Double

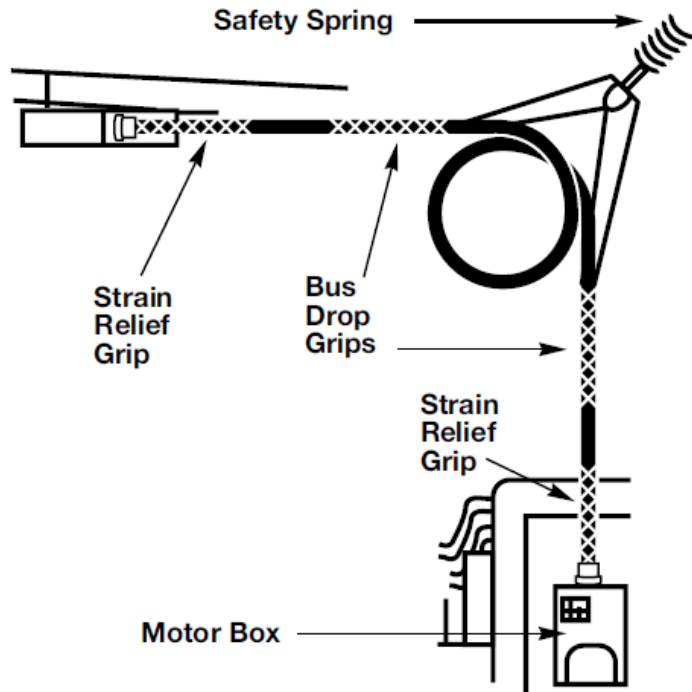


Offset



Offset

Support Applications – Bus Drop Grips & Springs



Bus Drop Grips and Safety Springs

Ericson Bus Drop Grips are offered with either a single eye or universal bale attachment. The mesh is single weave galvanized steel with the patented wide range construction. They are suitable for indoor use only. Consult Technical Service for Stainless Steel Grips.

Application

Bus Drop Grips provide a safe, easy and economical method to support flexible cord or bus drop cable at bus duct and other industrial areas.

Benefits

- Easily installed
- Absorb tension, vibration and pull with no cable damage
- Patented mesh construction

Safety Spring

Springs can be used with single eye grips by disassembling drawbar from coil, placing through eye and replacing drawbar.

Bus Drop Safety Springs



PART NUMBER	MAXIMUM DEFLECTION	APPROX BREAKING STRENGTH	LENGTH (NO LOAD)	
			L	D
40 LB SPRING	2-1/8 @40 LBS.	SPRING	600LBS.	8-1/4
80 LB SPRING	3-1/8 @80 LBS.	SPRING	850 LBS.	8-1/4

Support Grips – Conduit Riser

- Use in vertical support applications where relieving strain of cord and cable where they exit conduit.
- Allows Air Circulation
- Used in Metal or Schedule 40 Rigid PVC Conduit
- Mesh attached to supporting ring
- Available in Split Mesh or Rod Closing Styles
- Permanent Support when Cable Ends Accessible –
 - $\frac{3}{4}$ " – 6"
- Permanent Support when Cable Ends Inaccessible –
 - Split Mesh or Rod Closing Styles – 1-1/4" – 6"



Support Grips – Accessible or Inaccessible Ends

- Called Split Mesh – Wraps Around
- Two Styles & How to Secure
 - Lace Closing – weave wire from the anchoring end (where the eye is), thread lacing through the first pair or loops, tighten and continue, crossing (like tying shoes), not overly tight, until the end. For Permanent Installations.
 - Rod Closing – start at anchoring end (where the eye is), twist in cork-screw fashion until the rod is entirely threaded. For Temporary Installations.
- Secure – Remove all slack, starting at the equalizers at the eye, work to the end. Apply bands or clamp approx. 2" around the mesh at the tail to prevent accidental slippage.
- Attach eye to Supporting Hardware

INSTALLATION

For Closed Mesh Support Grips...

1. Insert the cable completely through the entire length of the mesh...proceed to step 4.

For Split Mesh, Lace-Closing Support Grips...

2.1 Wrap the grip around the cable and, starting at the anchoring end of the grip (where the eye is), thread the lacing through the first pair of loops in the mesh. Pull the lacing until it is centered at this point. Continue lacing as you would your shoe, crossing the laces before lacing the next two loops. (Fig. 2.1)

2.2 Don't pull lacing too tight. Leave a space between adjoining loops approximately equal to the width of one diamond of the mesh. (Fig. 2.2)

2.3 At the tail end of the mesh, twist the lace ends tightly together and wrap them once or twice around the grip. (Fig. 2.3)

2.4 Twist the ends together securely. Excess lace can be cut off. (Fig. 2.4)...proceed to step 4.



Fig. 2.1 Fig. 2.2 Fig. 2.3 Fig. 2.4

For Split Mesh, Rod-Closing Support Grips...

3.1 Wrap the grip around the cable and, starting at the anchoring end of the grip (where the eye is), thread the rod through the preformed loops with a corkscrew motion, using the leading edge of the rod to engage the loops. (Fig. 3.1)

3.2 The action required is a steady push and twist simultaneously. Use one hand to bring the mesh loops together just ahead of the leading edge of the rod while guiding the rod with the other hand. (Fig. 3.2)

3.3 Thread the rod through the entire length of the grip. (Fig. 3.3)...proceed to step 4.



Fig. 3.1 Fig. 3.2 Fig. 3.3

For All Support Grips...

4. Remove all slack from the mesh starting at the strand equalizers and working toward the tail end of the grip. To prevent accidental release of the grip, apply a band or clamp to the mesh approximately 1 to 2 inches from the tail end of the mesh. (Fig. 4)

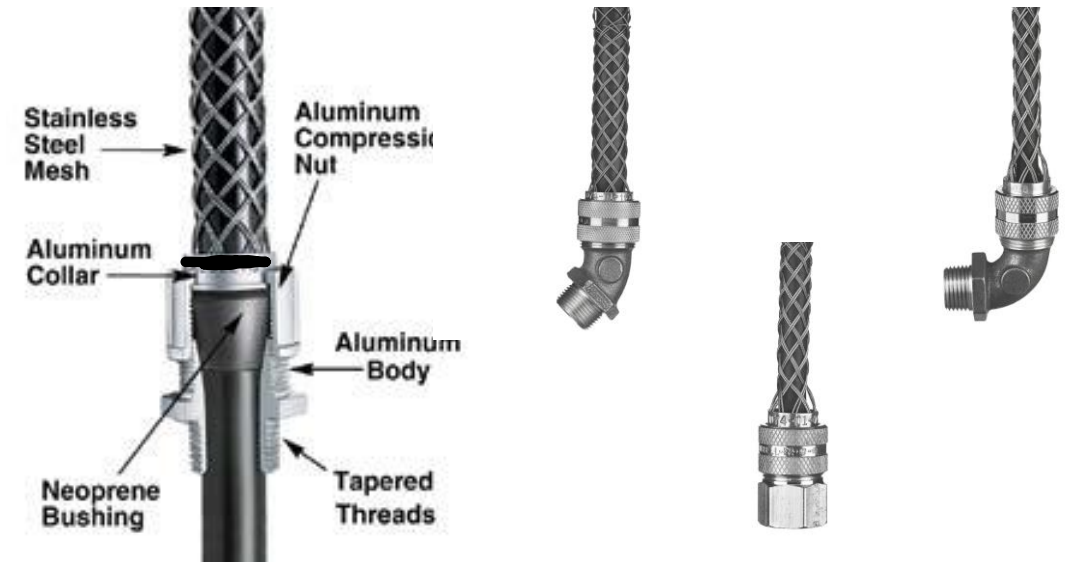
5. Attach eye terminations to anchored hardware. (Fig. 5)



Fig. 4 Fig. 5

Strain Relief Grips – Deluxe Cord Grips

- Applications –
 - Used both indoor and outdoors in moisture laden or splash or submersion prone.
 - You'll find application around electrical enclosures (crane and hoist pendant control stations, bus drop applications, construction equipment, hand tools, processing equipment and material handling.
- Types
 - Indoor – Dust Tight – Galvanized Mesh
 - Outdoor – Waterproof – Stainless Mesh
 - Straight – 3/8" – 3"
 - 45 or 90-Degree Versions
 - 90-Degree - 3/8" – 2"
 - 45-Degree – 3/8" – 1-1/2"
 - Female Thread – 3/8" – 1-1/2"
 - Cable Ranges - .18" – 3.25"



Strain relief Grip Styles	Application	Features
Wide Range Grip 	Indoor use only for wiring of electrical enclosures, portable power tools, bus drop cable systems, etc	Aluminum Body Stainless Steel Mesh Grip Range = .25 to 2.45"
Deluxe Cord Grip 	Outdoors or indoors rated where item are subjected to moisture or splash. Examples are hand tools, pendant drops for cranes and hoists, or pumps and processing equipment.	Aluminum Nut Aluminum Body Neoprene Bushing Stainless Steel Mesh with Aluminum Collars Grip Range = .18 to 3.25"
Cord Grips 	Outdoors or indoors rated where items are subjected to moisture or splash	Aluminum Nut Aluminum Body Neoprene Bushing
I-Grips 	Provides additional strain relief for Plugs and Connectors while controlling the cable arc of bend. For indoor use only.	High Strength Galvanized Strand Grip Range = .30 to 1.25"

I-Grips



- Applications –

- I-Grips control cable arc-of-bend and reduce pulling tension transmitted to the device and wiring terminals. Used with Ericson Perma-Spec and Perma-Link Devices
- Manufactured of High-Grade Galvanized Steel, these are designed for indoor applications

- Types –

- Traditional – Cord Clamp Screw Style
- Female Deluxe Strain Relief



Cord Grips



- Applications –

- Anywhere you need cable support in water-tight, dust laden, corrosive resistant applications
 - Petro-Chem, Mining, Pulp and Paper Mills, Food & Beverage Processing, Wastewater and Marine Industries

- Types –

- Standard Straight –
 - Diameter – Machined Aluminum (3/8" – 1-1/2"). Cast Aluminum (2" – 3")
 - Cable Range - .062" – 1.437", (Machined Aluminum), .250" – 3.25" (Cast Aluminum)
- 90-Degree – 3/8" – 2"
- 45-Degree – 3/8" – 1-1/2"



Take Aways -

- Understand the application –
 - Pulling - Type
 - Supporting Style
 - Strain Relief
 - Pull Out
 - Bend-of Arc Protection
 - Indoor or Outdoor
 - Atmospheric conditions – water, dust, chemicals
- Wire Size
 - Jacket Type
- Approximate Load Rating

Distributor Countertop & Store Options

Countertop:

- Wiring Device PowerPaks (plug & connector in tube)
- Wiring Device Selection Mats (22X16)
- Gravity Feed Displays



POWERPAK
25 Plug and Connector Tubes
Spec cards



Slatwall & Floor Stands:

- Various Product Merchandising Options
 - 18" Spinner. Moveable. Stationary. End-cap
 - 2 & 4' Stationary. (Movable with casters provided)
 - Slat Wall Mount – Tiled Wall w/Support brackets (not shown)

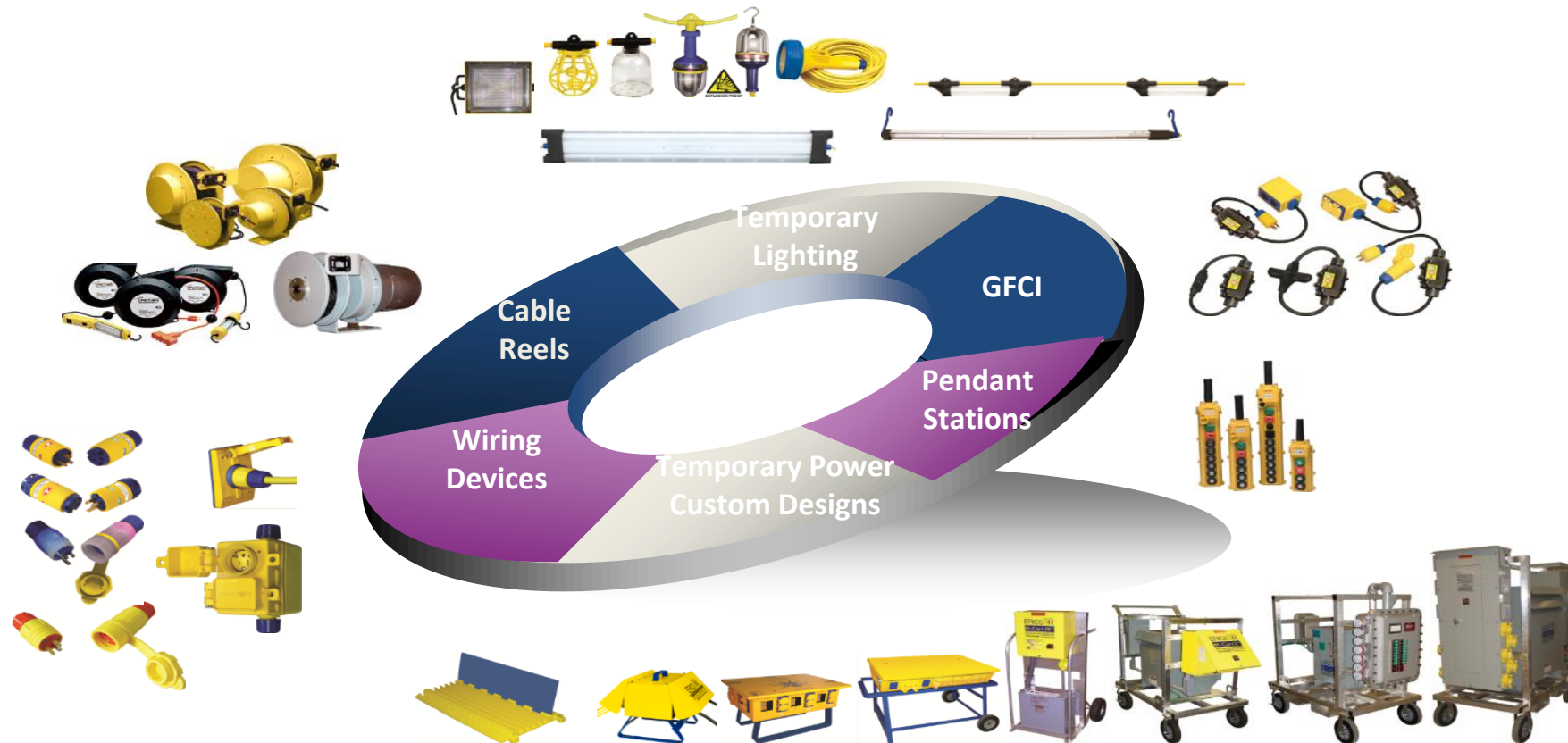
Product Categories

- Jobsite Power
- Portable Power
- Jobsite Lighting
- Pendant Power

*Sales Plan with Focus End-User Targets Required



Ericson – Safe Power and Lighting where its Needed



www.ericson.com

Next Month -

Pendant Power & Machine Control



Wire Mesh Grips

Industrial Grade
ericson.com/grips



Pulling Grips

- Reusable pulling tool for light to heavy cables



Support Grips

- Hold and support vertical or horizontal cables, metal rods and tubing
- Prevents cable pull-out by supporting the weight



Cord Grips

- Protects cable when exposed to moisture or submersion
- Eliminates fatigue points and prevents cable pull-out
- Indoor and outdoor use



Strain Relief Grips

- Prevents damage caused by cable pull-out
- Reduces tension from being transmitted to joints
- Minimizes stress and strain on conductors at the point of wire termination



Deluxe Support Grips

- Prevents damage caused by cable pull-out
- Reduces tension from being transmitted to joints
- Minimizes stress and strain on conductors at the point of wire termination



I-Grips

- Easy to attach
- Controls cable arc-of-bend
- Provides heavy duty strain relief for plugs and connectors



Thank you
for your
time today

