

Ericson mfg

Portable Power

Wiring Devices – Commercial & Industrial

Watertight, Antimicrobial and IEC Pin & Sleeve

Non-Metalic Boxes, Covers, Plates &
Custom Assembled Product



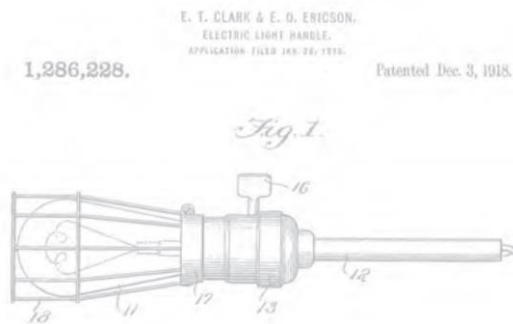
History & The Ericson Difference

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



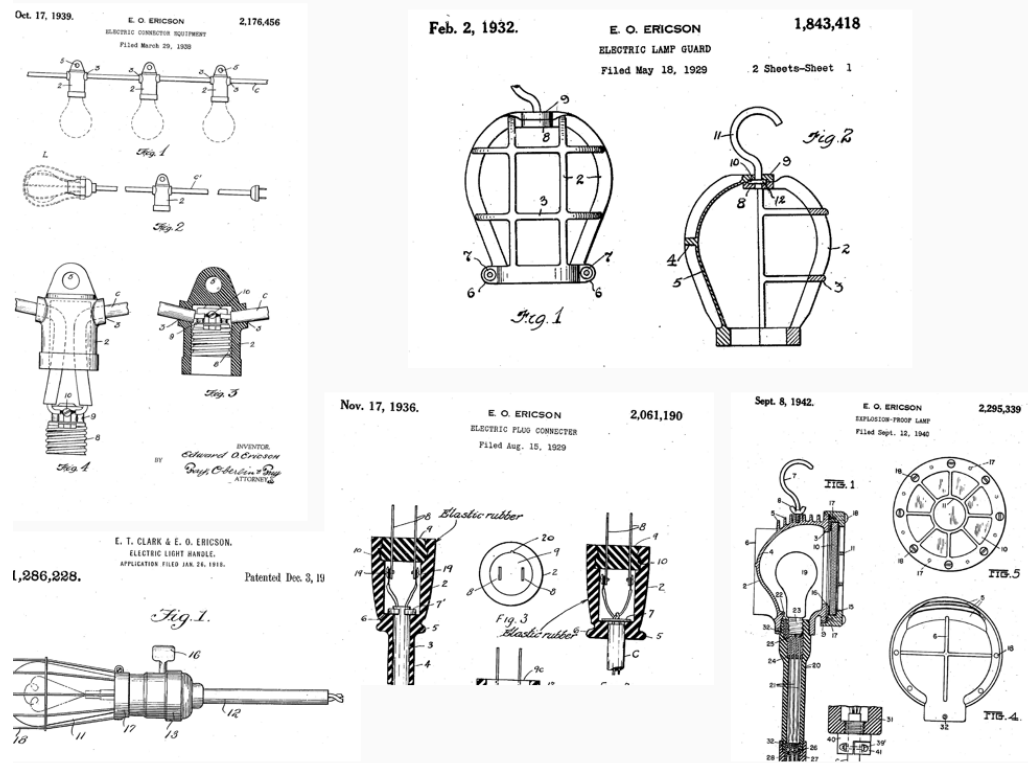
First Logo



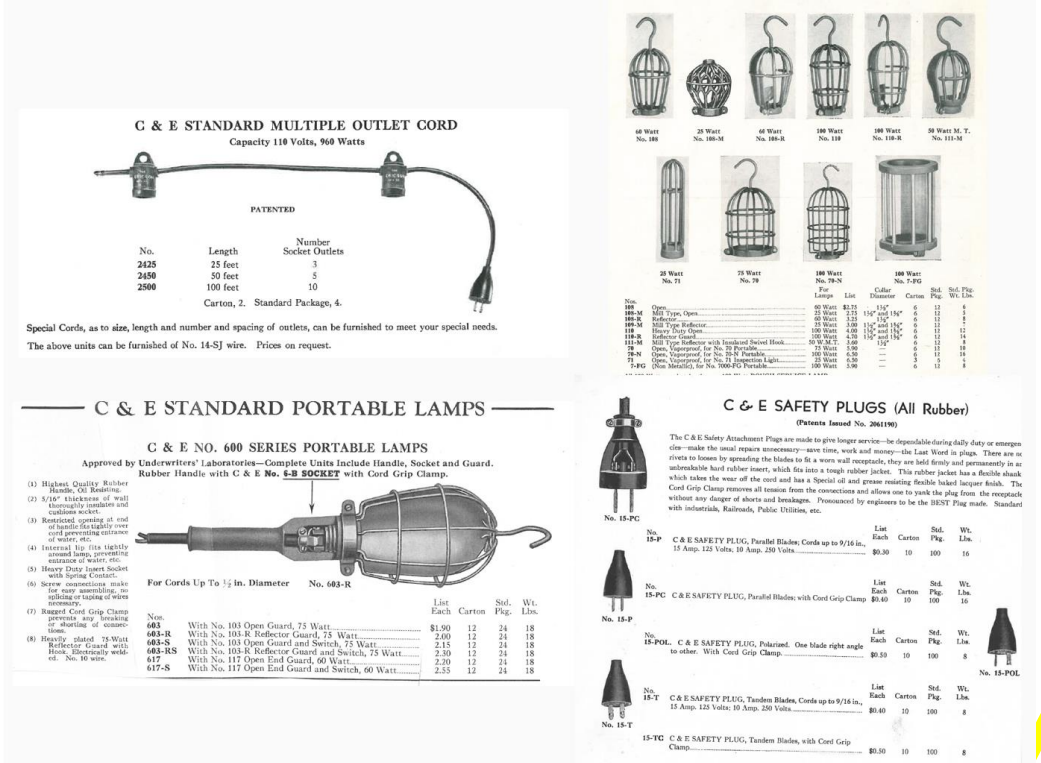
The Rubber industry brings Edward Oscar Ericson (founder of Ericson Manufacturing) to Akron, Ohio where his awareness of worksite safety hazards brought forth inspiration to develop products for a safer workplace.

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

1918 – 1930 Patents



1930 Catalog



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-Cart PTU

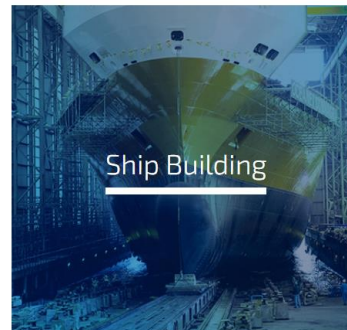
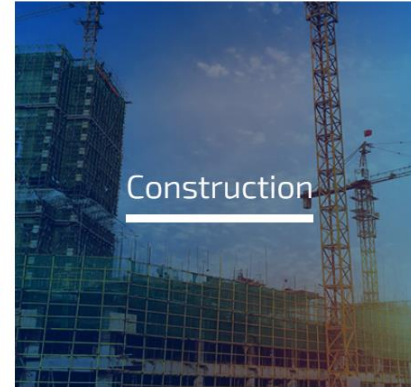
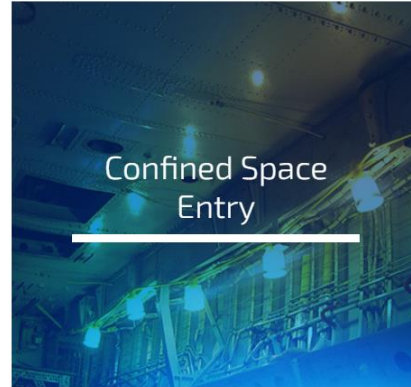


2023: Where we are Today

- 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
- **Over 98% of our Products are Made in USA and Canada!**



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

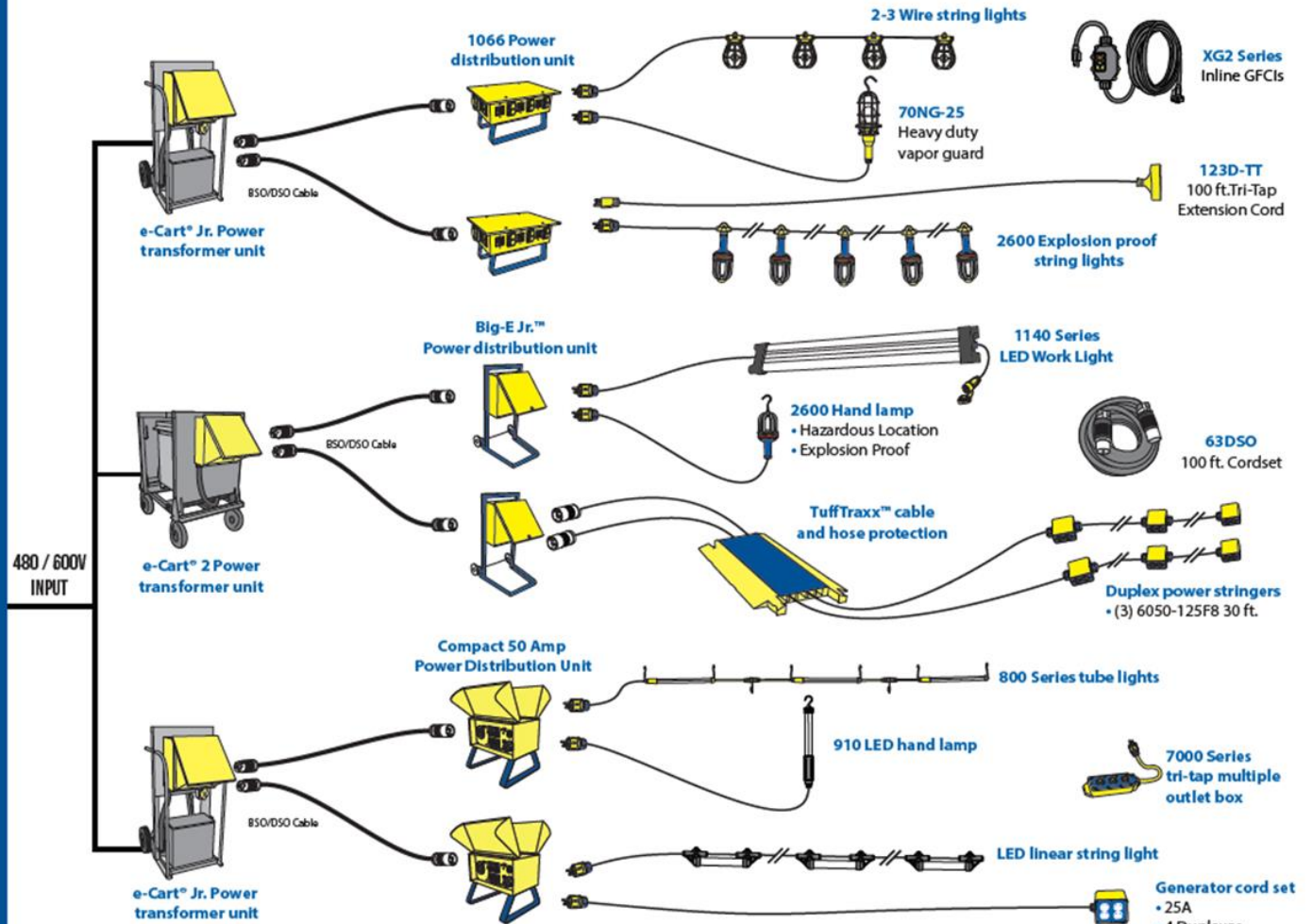
The Power Distribution Unit provides circuit breaker protection and distribution receptacles to distribute the 120, 240, or 208V power to tools and lights.

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.

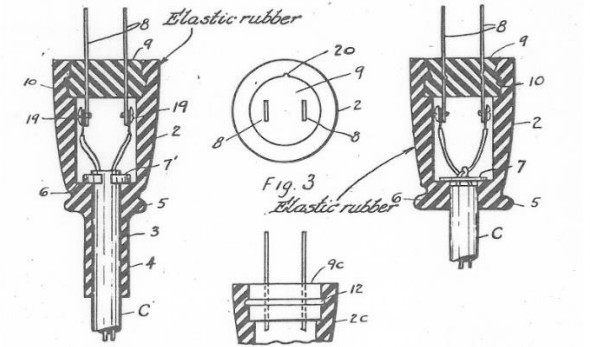


*PRODUCT NOT PORTRAYED TO SCALE

L1000679C

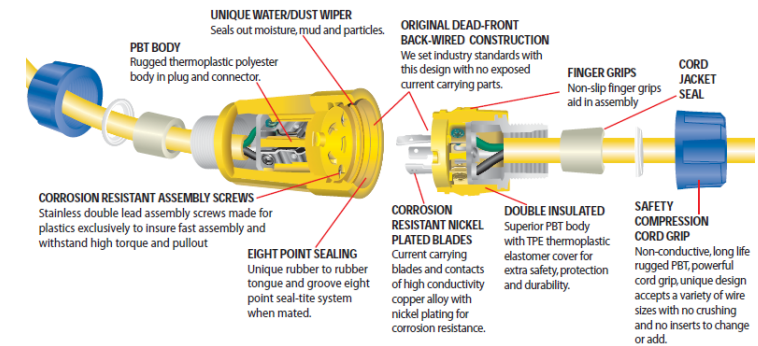
Originator & Innovator

- 1st Dead-Front, Back-wired Plug (Industry Standard)
- 1st 6P Watertight Seal Wiring Devices
- 1st Antimicrobial Embedded Wiring Devices



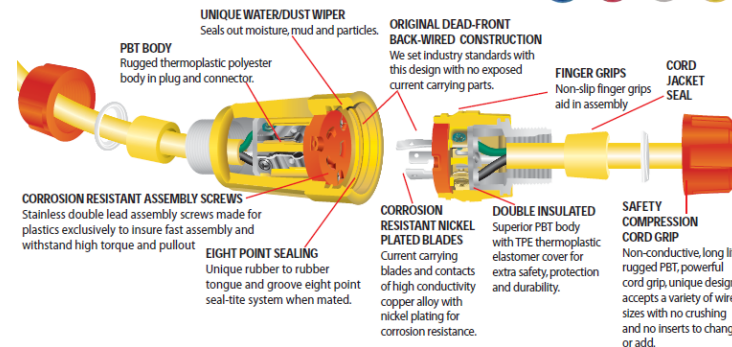
Ericson's invention of the first "Dead-Front, Back-Wired" electrical plug revolutionizes the wiring device industry.

PERMA-TITE® 2



PERMA-KLEEN™

EXTRA GROMMETS Color coded rubber cord sealers grommets supplied for a variety of diameters.



Wiring Devices

- Why Ericson –
 - Broadest Line of Wiring Device Options
 - Perma-Spec
 - Perma-Link
 - Perma-Grip
 - Perma-Tight
 - Perma-Kleen
 - Smart Monitor (-Link, -Grip, -Kleen)
 - Exclusive Elastomer Rubber Housing
 - Internal Dust/Moisture Wiper
 - Various Cord Clamp/Grip Options
- We invented Dead-Front Plugs in 1929!



PERMA-LINK®

Base Model Configuration

1510-P - Plug

1610-C - Connector



PERMA-GRIP™

Add "G" to Base Model Configuration

1510-PG - Plug

1610-CG - Connector



PERMA-TITE® 2

Add "W6P" to Base Model Configuration

1510-PW6P - Plug

1610-CW6P - Connector



PERMA-KLEEN™

Perma-Grip™ Configuration

Add "-AM" to Desired Configuration

1510-PG-AM - Plug

1610-CG-AM - Connector



SmartMonitor™

Perma-Grip™ Configuration

Add "MGL" to Desired Configuration

1510-PMGL - Plug

1610-CMGL - Connector



PERMA-TITE® 2 SmartMonitor™ Configuration

Add "L" to Desired Configuration

1510-PW6PL - Plug

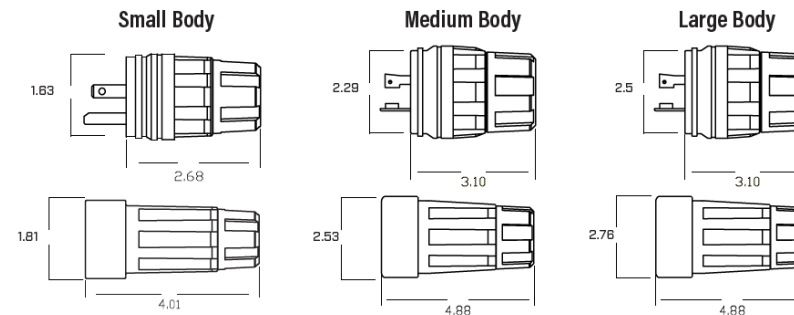
1610-CW6PL - Connector

Perma-Tite: Industrial Watertight (IP69K)

- Specifications:
 - NRTL: UL Listed, cETL, CSA
 - IP Ratings: Outdoor (NEMA 4, 4X, 6P, IP69K)
 - NEMA Configurations: 15-30A, Non-NEMA / 120-480V
 - Material: PBT & TPE
- Features & Benefits:
 - Widest Selection of Watertight NEMA Configurations
 - Double tongue & groove sealing system
 - Yellow body & Blue end make identification easy
 - Ribbed body provides non-slip grip in wet environments
 - High Pressure (1,500_{psi}), High Heat (176F), Directed Spray for Wash-Down Applications.
- Applications:
 - Commercial & Industrial, Power Generation, Petro-Chemical, Harsh & Demanding Environments



Dimensions:



Industry Catalog Number Standards

- Black and White – Most all lead by Hubbell/Leviton.
- Watertight – most all have adopted Woodhead.



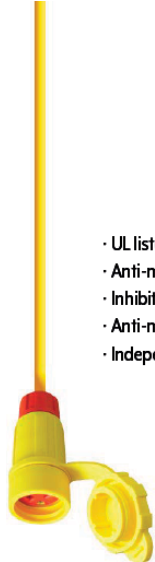
Perma-Kleen: Antimicrobial – Market Exclusive

- Specifications:
 - NRTL: UL Listed, cETL, CSA
 - IP Ratings: Outdoor (NEMA 4, 4X, 6P, IP69K)
 - NEMA Configurations: 15-30A, Non-NEMA/120-480V
 - Material: PBT & TPE, *Patented Ericson Antimicrobial Additive*
- Features & Benefits:
 - Industry Exclusive
 - Double tongue & groove sealing system
 - Yellow body & Blue end make identification easy
 - Ribbed body provides non-slip grip in wet environments
 - High Pressure (1,500_{psi}) Wash Down
- Applications:
 - Food & Beverage Processing, Food & Bev OEM's, Hospitals, Labs



PERMA-KLEEN®
ANTI-MICROBIAL PRODUCTS

- UL listed and CSA certified
- Anti-microbial additives embedded in polymer
- Inhibits growth of bacteria, molds, mildews and fungi
- Anti-microbial additive resistant to scuffing and cleaning
- Independently tested and certified
- Double tongue and groove sealing system provides environmental protection of NEMA Type 4, 4X, 6, 6P, IP67, & IP69K
- Devices resist high-pressure hose down of 1,000 psi
- Custom color options available



PERMA-KLEEN™ CORD DROPS



PERMA-KLEEN™ WIRING DEVICES



PERMA-KLEEN™ CORDSETS



PERMA-KLEEN™ CABLE



PERMA-KLEEN™ MOLDED WIRING DEVICES

KEEP YOUR FACILITY KLEEN.

Perma-Kleen: How it Works

Antimicrobial Compounds / Additives

- ✓ Disrupt Micro-organisms ability to live and multiply

Surface Area

- ✓ Made Undesirable for Microbial Population / Growth

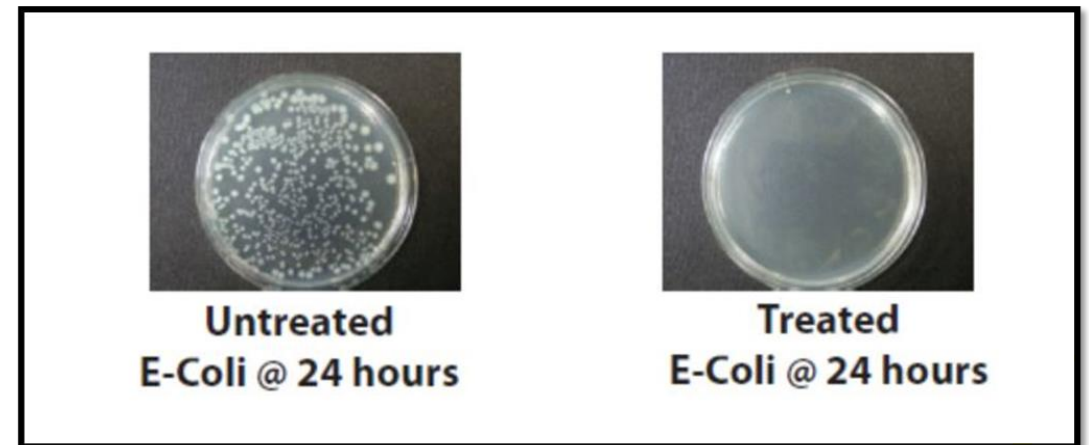
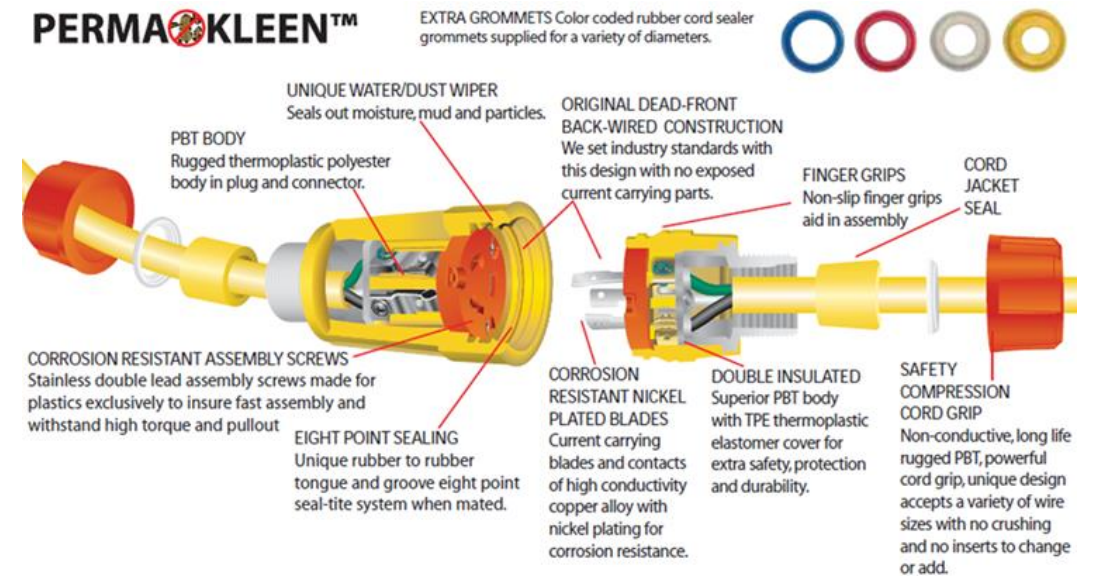
How Is It Measured?

- Log Kill, Percent Kill, Log Reduction
- Measure of the Starting Population Minus the Number of Surviving Organisms
- Results Reported as a Logarithm of the Killed Organisms
 - ✓ Log Kill
 - ✓ Percent Kill



Perma-Kleen – Microbial Contamination Defense

- Approved and safe
- Antimicrobial Ingredient Added to Polymer/Plastic or all Nonmetallic Components
 - Not a Surface Treatment
- Additives Gradually Released to Surface
- Provide Continual, Long Lasting 24/7 Protection
- Inhibits / Reduces / Controls Growth
 - ✓ Bacteria
 - ✓ Mildews
 - ✓ Fungi
 - ✓ Molds



Specification Support

- Specification Documents
 - Necessary information for:
 - Engineering Firms, OEMs, Quality Control, Competitive Analysis
 - e-specs & specification versions
- White Paper - Perma-Kleen



Perma-Kleen™ (Anti-Microbial) Watertight Wiring Devices

Manufacturer

Ericson Manufacturing Company
4323 Hamann Parkway
Wiloughby, OH 44094
Phone: 800-ERICSON
Phone: 440-951-8000
Fax: 440-951-1867
E-mail: info@ericson.com
Web: www.ericson.com

About Us

Since 1918, Ericson has been an industry leader in electrical safety products. Our commitment to delivering safe and innovative products, which is demonstrated by UL, ETL, CSA, QPS listings and NEC/CEC and OSHA Code compliance, is incorporated into every design. ISO 9001 certification, 24/7 emergency customer support, and professional application engineering support ensures that our customers receive the highest quality products and customer experience possible. Based in Wiloughby, Ohio, Ericson delivers unsurpassed service and solutions to industrial and commercial customers.

Product Description

Perma-Kleen™ watertight, antimicrobial wiring devices deliver exceptional watertight performance for safe, reliable operation in virtually any environment. The unique eight point tongue and groove sealing system is 6P rated delivering a secure seal in demanding outdoor and in-plant environments where exposure to moisture, water, submersion up to six feet, or long is possible.

Embedded antimicrobial additives are resistant to high pressure hose-down and continue to inhibit the growth of bacteria, mold, mildew and fungi, even when nicked or scraped, as additional anti-microbial additives bloom to the surface.

Current carrying blades and contacts are made from a high conductivity copper alloy with nickel plating for superior corrosion resistance. Stainless steel double lead assembly screws have been designed and tested to ensure fast assembly, with the ability to withstand high torque and pullout forces.

The large ribbed body housing and covers simplify mating, even when environmental conditions require hand protection. A large assortment of color coded sealing bushings ensures that a secure seal is established, eliminating the possibility of water egress common with competitive devices. The transparent back-plate assembly provides quick visual verification that all connections are correct and secure.

Perma-Kleen™ wiring devices provide exceptional watertight performance, ease of use and durability. They are ideal for any application where moisture, water egress, icing or wash down / hose down operations may occur, delivering safe long-lasting reliability.



Types

Perma-Kleen™ watertight wiring devices are available in most standard NEMA configurations as well as common non-NEMA styles. (See Chart on page 3 for product offerings. Note: Competitor SKUs listed in chart are NOT Anti-Microbial solutions)

Materials and Finishes

Perma-Kleen™ watertight, antimicrobial Wiring Device body is made from rugged thermoplastic polyester. The safety compression cord grip nut is made from long life PBT. Blades are corrosion resistant nickel plated. The watertight housings are made from rugged, durable TPE.

Color

Yellow body housing. Orange strain relief nut and interior.

Benefits

- NEMA 4, 4X, 6 and 6P Compliant
- Superior Tongue and Groove Sealing System
- Large, Ribbed Body Housing
- Safety Compression Cord Grip Nut
- Extra Large Covers and Tabs
- Rugged, Durable TPE Construction
- 8-Point Water Seal
- Low Temperature Flexibility
- Wash-Down, Hose-Down Qualified
- Corrosion Resistant Nickel Plated Blades
- Simple Alignment with Keyed Body and Cover
- Color Coded Sealing Bushings
- Transparent Back-plate
- Industry Interchangeability

Options

Watertight, antimicrobial plug covers are available

Dimensions

Dimensions vary depending on the specific NEMA configuration. Typical length: 2.7" - 3.1". Typical diameter: 1.6" - 2.5"



Watertight Wiring Device Specifications

Materials	
Plug Connector	
Part	Materials
Back-Contact Carrier	PBT Thermoplastic, yellow
Terminal Insulator	Polycarbonate, clear
Housing	Thermoplastic Elastomer, yellow
Sealing Insert	Polysulfone, natural
Strain Relief Nut	PBT Thermoplastic, grey
Grommet	Thermoplastic Elastomer, various colors
Female	Polysulfone, natural
Back-Contacts	Brass, nickel
Terminal Screws	Steel, chrome
Terminal Screw Size	#10-32 x .40-.52
Body Holding Screws	Stainless steel
Drive Screws	Steel, chrome

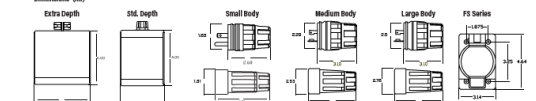
Plug Lid Assembly (see connector for device materials)

Part	
Materials	
Plug lid and cover plate	PBT Thermoplastic, yellow
Sealing Collar	Thermoplastic elastomer, yellow
Mounting Plate	Stainless steel
Spring	Stainless steel
Plug Pin	Stainless steel
Mounting Screws	Stainless steel

Portable Outlet Box and Accessories

Part	
Materials	
Box Enclosure	Thermoplastic Elastomer, yellow
Strain Relief Nut	PBT Thermoplastic, black
Grommet	Thermoplastic Elastomer, various colors
Female	Polysulfone, natural
Strain relief insert	Nylon, yellow
Locknut	Steel, zinc plate
Threaded Insert	Polysulfone, natural
Strain relief wire	Stainless steel
Duplex receptacle screw	Steel, black oxide
Cover plate screws	Nylon, yellow
Cover Plate	PBT Thermoplastic, yellow
Plug covers	Foam rubber, black
Cover plate Spring	Stainless steel
Plug Pin	Aluminum
Hinge Bracket	Stainless steel
Blade	Steel

Dimensions (in.)



Listings (Plug/connector and Plug Lid Assembly)

Listed to UL 494
Certified to CSA 22.2 No. 42.
Meets NEMA WD-1, WD-6 and ANSI standards

Performance

Electrical

Dielectric Withstand: Connectors: 3000V AC if rated 3000V or less

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

3000V AC if rated above 300V

IEC 309: Pin & Sleeve

- Specifications:
 - NRTL: UL Listed
 - IP Ratings: IP67 Watertight & IP44 Splashproof
 - IEC 309: 20A – 100A, 120-600V
 - Material: Thermoplastic Nylon
- Features & Benefits:
 - Quick Install: Two-part cable clamp design
- Applications:
 - Higher Power Applications – 20 - 100A.
 - International connectivity



International Electrotechnical Commission (IEC)

The **International Electrotechnical Commission** (IEC) prepares and publishes International Standards for all electrical, electronic and related technologies.

IEC provides a platform to companies, industries and governments for meeting, discussing and developing the International Standards they require.



Pin & Sleeve Devices

- Ericson's devices wrote the standard for the first IEC 60309 Pin & Sleeve Devices as they are known today.
- Ericson Pin & Sleeve Devices are manufactured to IEC 60309-1 & -2 standards and are interchangeable with other manufacturers that conform to these IEC specifications: material, ground-pin location, size & color.
- IEC 60309 devices are typically used to supply power for stationary or portable applications where quick-safe connect/disconnect capabilities are necessary –
 - electrically operated and portable equipment –
 - portable tools
 - generator sets
 - compressors
 - welders
 - heating and cooling equipment
 - lighting & entertainment

Who are the primary users of IEC 60309 type devices?

Maintenance & Support

- ✕ Refrigeration Container Retrofit
- ✕ Shipyards/Waterfront
- ✕ Paper Mills
- ✕ Slaughterhouses
- ✕ Chicken Processing
- ✕ Portable Power Rental Co's
- ✕ Fast Food Restaurants
- ✕ Theme Parks – Six Flags etc.
- ✕ Carnivals
- ✕ Public Utilities
- ✕ Elevators – People Movers
- ✕ Railroads
- ✕ Agricultural Irrigation
- ✕ Entertainment Industry
- ✕ Exhibition Halls
- ✕ Breweries



Manufacturing

- ✕ Data Centers
- ✕ Injection Molding Machine
- ✕ Assembly Machine
- ✕ Food Processing Machine
- ✕ Packaging Machinery
- ✕ Pharmaceutical Machinery
- ✕ Printing Press
- ✕ Machine Tool
- ✕ Wood Working Machine
- ✕ Portable Power Equipment
- ✕ Cable Accessory Assemblers
- ✕ Welding Machine
- ✕ Generator
- ✕ Industrial Welders
- ✕ Ship Builders
- ✕ Television Equipment



ALL Ericson Voltages are IEC 60309 & UL Listed

UL Listing of all IEC 60309 international voltages and amperages. Important markets include -

- ✓ Computer Industry – Data Centers
- ✓ Entertainment
- ✓ Military Applications & Manufacturers
- ✓ Machine Tool Manufactures



IEC 60309-2 “Voltage - Color”

Originally established by Ericson Devices

110V – 125V	Yellow
230V – 250V	Blue
380V – 480V	Red
277V	Grey
125V – 250V	Orange
500V & Above	Black
250 DC	Black
50-600 400Hz	
	Green



Competitive Product Offering

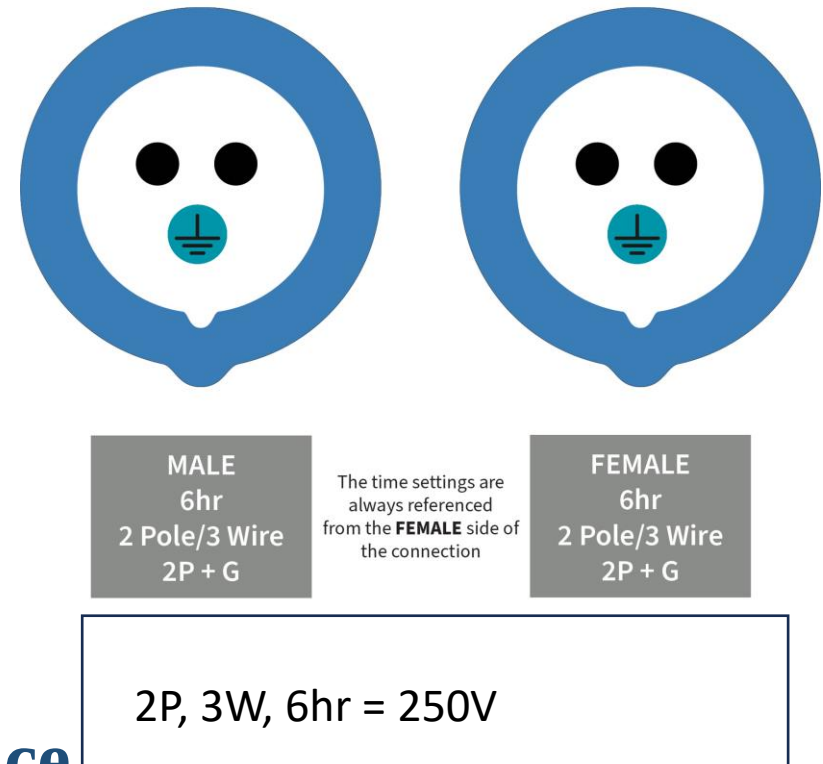
	<u>Ericson</u>	<u>Hubbell</u>	<u>Bryant</u>	<u>Leviton</u>	<u>P&S</u>	<u>Arrow Hart</u>
North American Product Ratings	884	160	144	200	270	193
International Product Ratings	981	60	56	58	178	59
Total Products Available	1865	220	218	258	448	252
IP67 Product Rating	841	220	200	160	212	213
IP44 Product Rating	1024	0	18	98	236	39

NOTE: Ericson offer the most complete offering in the industry

IEC 60309 Female Ground

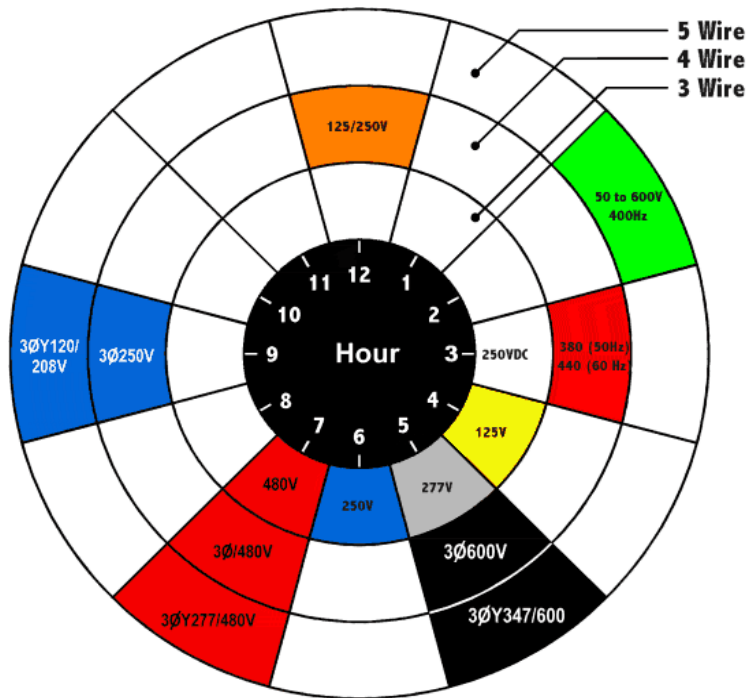
- The Ground location is known as the “Clock Position”
- This clock position is determined by the:

- ✓ **The number of poles / wires**
- ✓ **The voltage rating of the device**

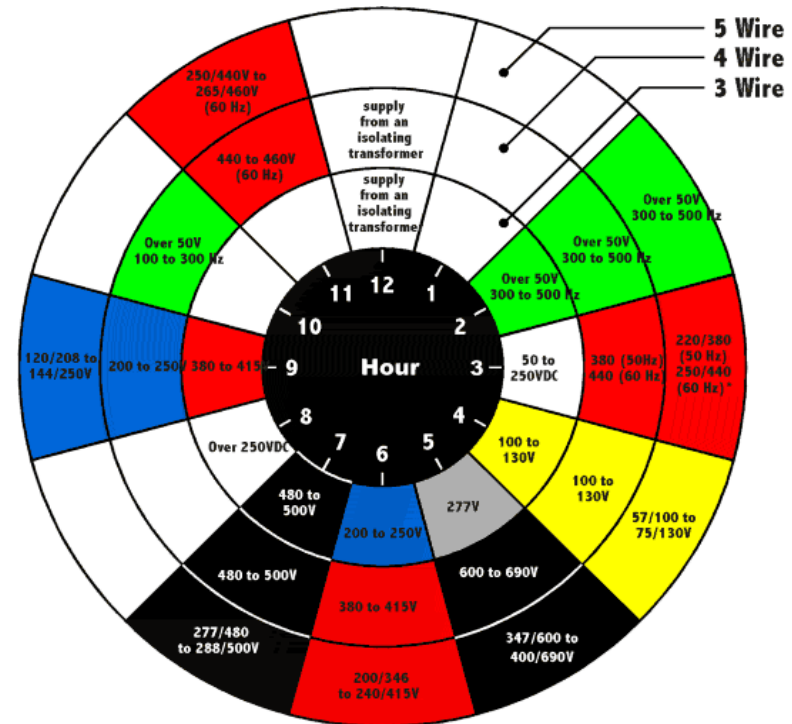


Ericson NA and International Ratings

North American Ratings



International Ratings



Ericson 60309 North American & International Voltages are UL Listed

Ericson Catalog Numbering System

- Follows the Industry Standard Catalog System

Catalog Numbering System: Receptacles, Plugs, Connectors, and Inlets

4	30	P	7	W
Wires	Amperage Rating North American/ International	Device Type	Clock Position	Environmental Classification
3	20	P - Plug	Clock position	W - Watertight
4	30	C - Connector	of Female	S - Splashproof
5	60	R - Receptacle	Grounding	E - Economy
7	100	RA - Receptacle Angled	Contact	Splashproof
		B - Inlet		
		BA - Inlet Angled		
		MI - Mechanical Interlock		

International Configuration Devices available with ratings of 16A, 32A, 63A and 125 Amps; Consult factory for additional information.

IEC 60309 “Degrees of Protection”

IP 44 (Splash Proof) 

- IP4_
- Protection against touching with tools, wires, etc. more than 1mm thick and solid objects greater than 1mm thick
- IP_4
- Protection splashing water from any direction (360 °)

IP 67 (Watertight) 

- IP6_
- Unlimited protection against contact with live parts and any penetration of dust or particles
- IP_7
- Protection against effects of immersion in water under defined conditions of pressure and time

How to choose the correct device!

4 + 7 = Key questions to Ask

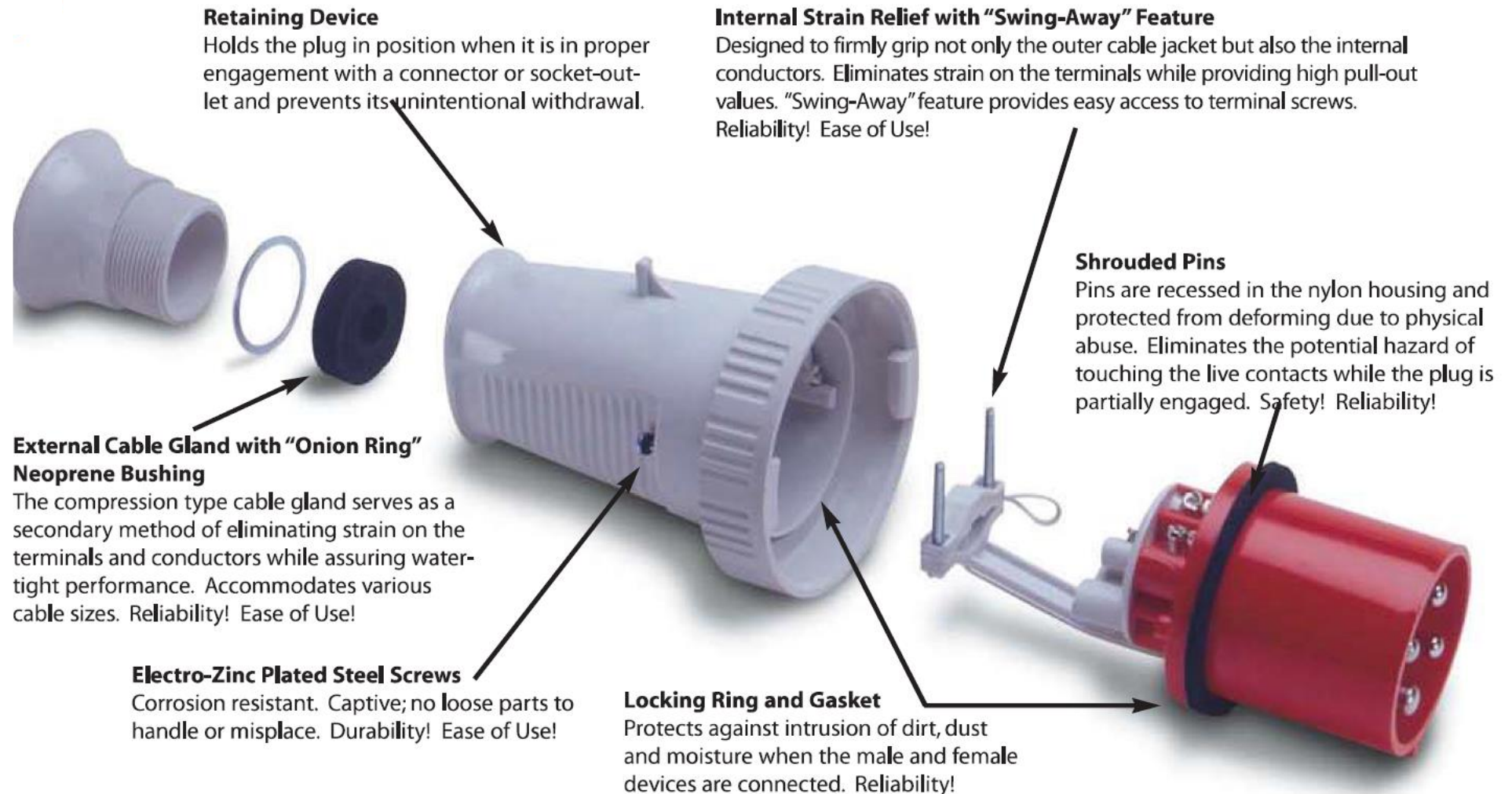
Basic Types of Devices

1. Male Plug
2. Female Connector
3. Female Receptacle
4. Male Inlet

1. Amperage
2. Number of Poles
3. Voltage
4. Color
5. Clock Position
6. IP67 (Watertight) or IP44 (Splash proof)
7. Type of Device

IP67 Pin & Sleeve – Plugs – Features & Benefits

- Reliability



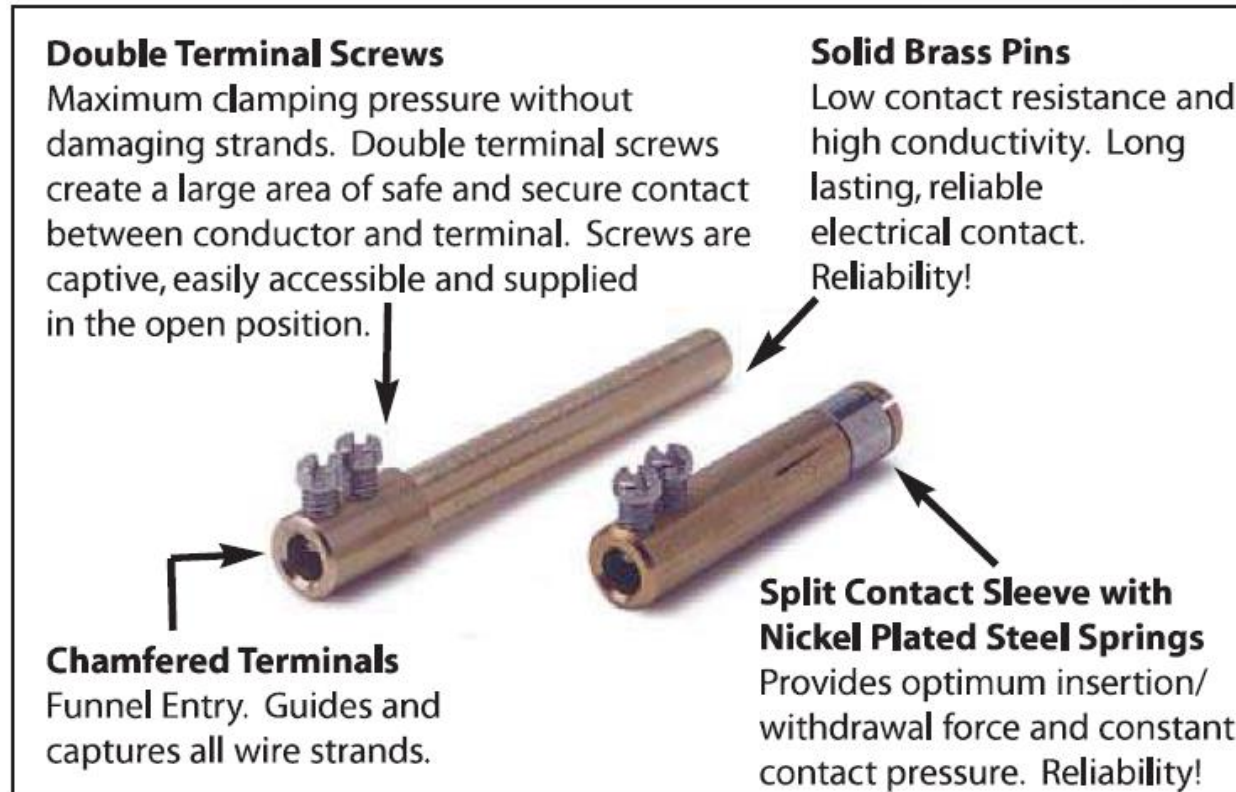
IP67 Pin & Sleeve – Connectors

- Safety



Pin & Sleeve Connections

- Safety & Reliability



Product Range

- IP67 – Watertight Pin & Sleeve Products
- 20-30A Versions

Receptacles		Plugs	Connectors	Inlets
				
Straight	Angled			Angled
320R3W	320RA3W	320P3W	320C3W	320BA3W

Product Range

- IP67 – Watertight Pin & Sleeve Products
- 60-100 A Versions

Receptacles		Plugs	Connectors	Inlets	
					
Straight	Angled			Straight	Angled

IP44 – Splash-Proof Product Range -

- Market Exclusive –
- Cable Gland – 20-60A
- Cable Sleeve – 20A-60A
- Available in 20A 6P/7W

Receptacles		Plugs	Connectors	Inlets	
					
Straight	Angled			Straight	Angled
320R3S	320RA3S	320P3S	320C3S	320B3S	

Retaining Device

Pin & Sleeve devices are provided with a mechanical arrangement which holds a plug or connector in position when it is in proper engagement, and prevents its unintentional withdrawal.



A Complete System –

- Back Boxes
- Watertight Closure Caps – Male Plugs & Inlets

Back Boxes for use with Ericson watertight and splashproof receptacles

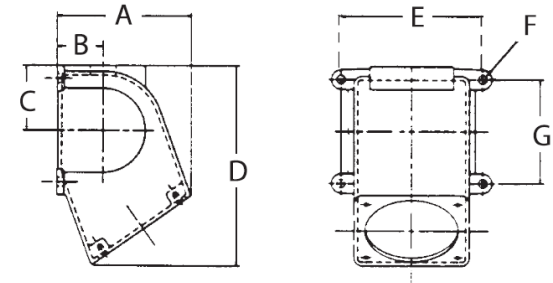


Cat. No.	Description	Hub Size	Dimensions (Inches)							Cubic Inch Capacity
			A	B	C	D	E	F	G	
BB201W	20° Angle for 20A, 4 and 5 wire recepts. and all 30A recepts.	3/4"	3.34	0.97	1.12	4.12	4.00	0.25	2.38	20.4
BB301W		1"								
BB601W	20° Angle for all 60A receptacles	1 1/4"	4.41	1.41	2.09	5.63	5.00	0.28	3.00	59.7
BB602W		1 1/2"								
BB1001W	20° Angle for all 100A receptacles	1 1/2"								
BB1002W		2"	5.18	1.78	2.50	7.71	5.50	0.34	4.00	96.6

NOTE: For availability of straight back boxes, please contact the factory.

Cast Aluminum Junction Boxes for Watertight and Splashproof Receptacles

Epoxy-coated junction boxes are corrosion resistant and designed to pass the 500-hour salt spray test, UL hosedown and external icing test.



Watertight Closure Caps for use with watertight male plugs and inlets



Cat. No.	Poles and Wires	Amperage Rating	Standard Pkg. Quantity
PC320	3 Wire	20	5
PC3430		30	5
PC60		60	2
PC100		100	2
PC420	4 Wire	20	5
PC3430		30	5
PC60		60	2
PC100		100	2
PC520	5 Wire	20	5
PC530		30	5
PC60		60	2
PC100		100	2

Ericson IEC 60309 Mechanical Interlock Devices

Designed to combine a disconnect switch & receptacle into one compact unit.

The mechanical interlock receptacles are built for safety first by eliminating the possibility of making a haphazard connection and breaking the circuit under load.

Disconnect switch cannot be energized, until plug solidly connected. Plug can't be disconnected until power is disconnected.

Units are available in Watertight IP67 (NEMA 4X) and Splash Proof IP44 and MCB Breaker versions.



Mechanical Interlocks

- Disconnect Switch Style
 - 20-100A
 - HP Rated
 - No Overload Protection

Selection Guide - IP67 Mechanical Interlocks without circuit breakers



Poles & Wires	Configuration Recept Conn. Plug Inlet	Voltage	Horsepower Rating 20A & 30A Only	20 Amps	30 Amps	60 Amps	100 Amps	Horsepower Rating 60A & 100A Only
2P3W	 	120	2	320MI4W-L	330MI4W-L	360MI4W-L	3100MI4W-L	3
2P3W	 	240	5	320MI6W-L	330MI6W-L	360MI6W-L	3100MI6W-L	7.5
2P3W	 	480	10	320MI7W-L	330MI7W-L	360MI7W-L	3100MI7W-L	15
3P4W	 	120/240	2 @ 120 5 @ 240	420MI12W-L	430MI12W-L	460MI12W-L	4100MI12W-L	3 @ 120 7.5 @ 240
3P4W	 	3Ø 240	10	420MI9W-L	430MI9W-L	460MI9W-L	4100MI9W-L	15
3P4W	 	3Ø 480	20	420MI7W-L	430MI7W-L	460MI7W-L	4100MI7W-L	25
3P4W	 	3Ø 600	25	420MI5W-L	430MI5W-L	460MI5W-L	4100MI5W-L	30
4P5W	 	3Ø Y 120/208	10	520MI9W-L	530MI9W-L	560MI9W-L	5100MI9W-L	15
4P5W	 	3Ø Y 277/480	20	520MI7W-L	530MI7W-L	560MI7W-L	5100MI7W-L	25
4P5W	 	3Ø Y 347/600	25	520MI5W-L	530MI5W-L	560MI5W-L	5100MI5W-L	30

Notes:

1. Also available in IP44 splashproof models - contact factory for availability
2. Also available with circuit breakers - contact factory for availability

Mechanical Interlock Devices – Other Available Styles

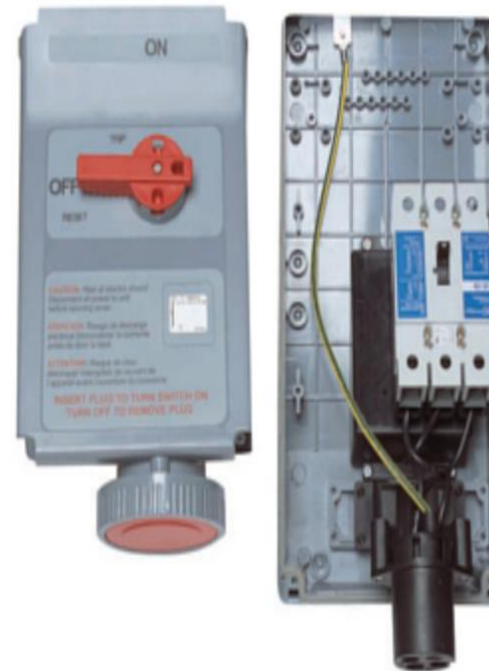
Units are NEMA and IP rated for use with IEC 60309 devices.



Available with a Breaker as the control switch



Available MCB breaker and non-breaker.



Also available in compact version



Mechanical Interlock Devices

**Internal View
of a 100A
Mechanical
Interlock with
a breaker.**

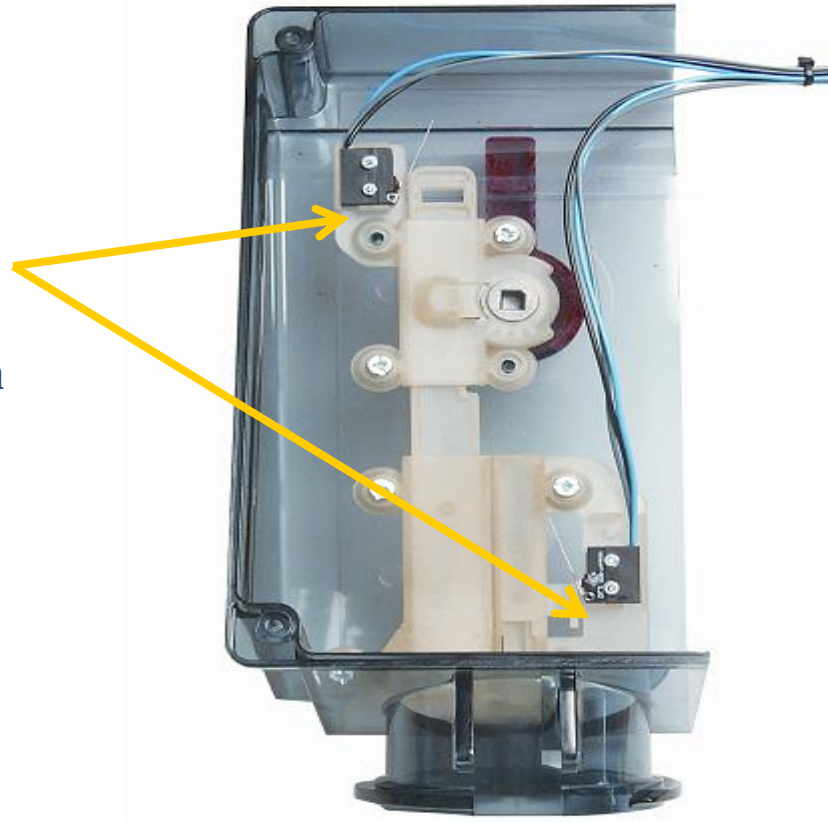


**Unique Ground
Plate Design
Allows Top,
Bottom and Side
Entry**



Mechanical Interlock Devices – Status Indication

**Micro-Switch
Mechanical
Interlock Version
Available**



**The addition of an
Upper or Lower
Installed Micro-
Switch Can be used
to detect insertion or
removal of a plug at
a remote location**

Power Distribution Units (PDU) & Systems (PDS)

Stock or custom-built **power distribution units** have a main power inlet & integrate multiple variations of receptacle outputs that combine to make a single, compact unit.

- Combine multiple like receptacles or an assortment of various receptacles in one compact enclosure
- Multiple conduit runs with individual branch circuit wiring can be eliminated
- Installation and material costs are significantly reduced
- Shipped completely wired and ready for use



Portable Power Distribution Units are Stackable

SAFE. RUGGED. RELIABLE.

Ericson's Power Distribution Units are built tough to work reliably and last – even in the roughest terrains, toughest applications and most extreme environments



New Pin & Sleeve Catalog!

Includes all of our devices along with Custom
Factory Assembled Cordsets

Introducing...

IEC 309-2 Pin & Sleeve Solutions Guide Plugs, Connectors, Inlets, Outlets & Mechanical Interlocks

Learn More



Ericson's new IEC 309-2 Solutions Guide

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' Stationary. (Movable with casters provided)
 - Slat Wall Mount – Tiled Wall w/Support brackets (not shown)

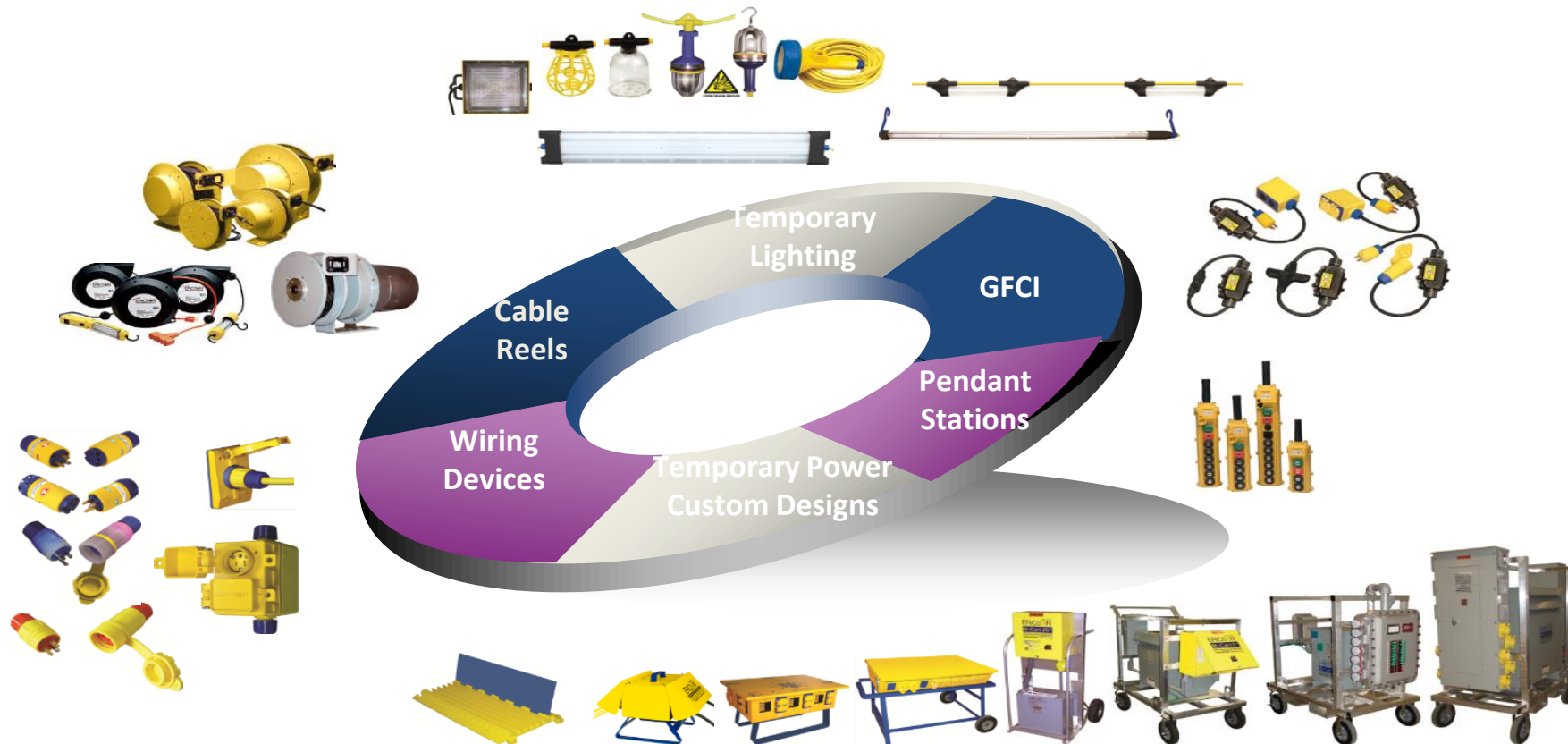
Product Categories

- 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

Ericson mfg

Next Month...

Portable Power

Wiring Devices –

Commercial and Industrial Grade Plug and Connectors.

Industrial Grade Perma-Tite - Water-Tight

IEC 309-2, Pin & Sleeve

Perma-Kleen – Antimicrobial

GFCI Cordsets

Factory Assembled Cord Sets, Nonmetallic Boxes



Thank you
for your
time today

