



POWER-TREX[®]

Family of Products for
Temporary & Emergency Power



TPC WIRE & CABLE CORP.
EXPECT HIGH PERFORMANCE[®]

One Source – Endless Possibilities

At TPC Wire & Cable Corp. we're helping customers develop custom solutions for their temporary power strategies that are turnkey and can be easily deployed by most employees. Our Power-Trex® product solutions can be custom designed based on the specific needs of your facility. The possibilities are endless, but the one constant is that the final solution comes from one source. Our experienced sales professionals can meet with you on site to find out what you need, develop a plan and deliver products that will keep your facility running in the event of a power emergency.

In the wake of the 2011 earthquake and tsunami that devastated Japan and crippled one of their key nuclear reactors, the U.S. Nuclear Industry adopted the FLEX / Fukushima strategy to protect American reactors from such a catastrophe. In support of this strategy, TPC has worked closely with the design engineering firms and the nuclear utilities to develop a temporary power solution consisting of low and medium voltage cables, connectors, distribution terminals and storage/deployment systems. These products have since been adopted as the standard for many of the nuclear sites as well as the Phoenix and Memphis Regional Response Centers. In the event of a critical emergency at a U.S. Nuclear Power Plant, TPC products will be deployed to provide temporary power and keep these plants running.

Whether you're looking for solutions to keep your food manufacturing plant running, an oil rig producing or a pond aeration system functional, we know time lost means money lost. Our totally customizable emergency electrical power solutions can minimize your downtime, meet your safety criteria and allow you to work with one company to get it all done.



Complete Temporary Power “Plug & Play” Cabling Systems

TPC’s Super-Trex® brand is a very rugged line of cables that includes both single and multi-conductor configurations ranging from 600 volts to 35,000 volts. These products are designed for harsh power applications where cables may be exposed to tension, reeling, flexing, cutting, abrasion, impact and heat.

The most popular cable for temporary power systems:

LOW VOLTAGE CONTROL CABLES



Type W, RHH/RHW-2 Single Conductor Cable (480 V – 2,000 V)

UL Listed, Type W – 2,000 V, RHH/RHW-2 – 600 V, Extra Hard Usage, Suitable for Class I, II, III Division 1 & 2, Max Conductor Temperature 90°C Wet/Dry, FT-4/IEEE 1202 Flame Rating, UV Resistant, RoHS Compliant, Meets ICEA S-75-381

Ribbed conductor insulation and a flexible Super-Trex® TSE jacketing combine to prevent kinking, corkscrewing and conductor breakage due to twisting and flexing. The copper is designed with 30 AWG stranding to provide a longer life in dynamic applications.

MEDIUM VOLTAGE POWER CABLES



Medium Voltage Power Cable (5kV – 35kV)

FT-4 Flame Rating, IEEE - 383 Flame Rating, RoHS Compliant, 600 V, CSA Approved

This single conductor power cable was designed for use as a shielded power cable. The product is designed to provide flexibility for reeling, ease of handling and installation. We can also connectorize this product to your exact specifications.

Assembly Testing: *Assemblies are tested prior to shipping in accordance with ANSI/NEMA WC 58-2008, 6.17 Electrical Tests on Complete Cables. The customer receives a full test report to ensure the highest quality workmanship and traceability of the ready to install assembly.*

AVAILABLE: 2 AWG TO 750 MCM

5kV Yellow	15kV Orange	25kV Red	35kV* Black
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**35kV is NOT CSA Approved*

Create a “Plug & Play” Connector Assembly

TPC can create a custom “plug & play”/quick connect system for power, control or data cables that can be quickly deployed in an emergency situation. The all rubber construction of the molded connector design reduces cable stress and provides an environmental seal between the cable and connector head — protecting against water, oil and dust contamination.

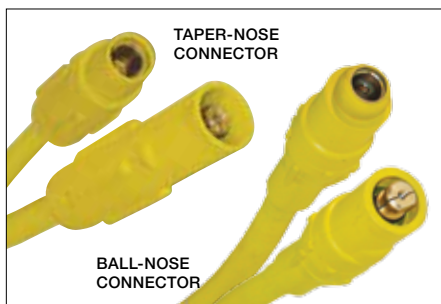
Our temporary power customers frequently use these connectors:

LOW VOLTAGE ASSEMBLIES – 480/600 V



Molded Locking Assemblies

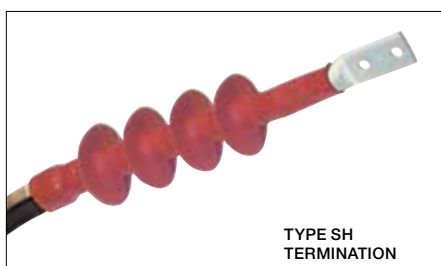
This is a fully molded design which provides a complete bond between the cable jacketing and connector head. The molded locking connector has been “pull tested” to 2,000 lbs. and contains a safety feature to prevent unintended disconnection. To disconnect, depress the safety release, one quick turn, and the connector can be easily changed out.



Molded Single Pole Assemblies

TPC’s PA16 “Taper-Nose” and PA18 “Ball-Nose” connections are fully molded and bonded to the cable which provides an environmental seal protecting the connection from dust, dirt, water, chemicals, and reduces cable stress. This molded process eliminates cable “pull back” from the connection. These power assemblies are available in a variety of cable sizes.

MEDIUM VOLTAGE ASSEMBLIES – 5kV TO 35kV



Type SH Termination Assemblies

TPC’s flexible medium voltage power cables can be connectorized with a variety of medium voltage connections. Contact your sales representative to discuss connector options that meet your requirements. TPC will cut the cable to any length and add connectors to provide a complete solution. Also, ask about cable storage and deployment solutions for these cables.

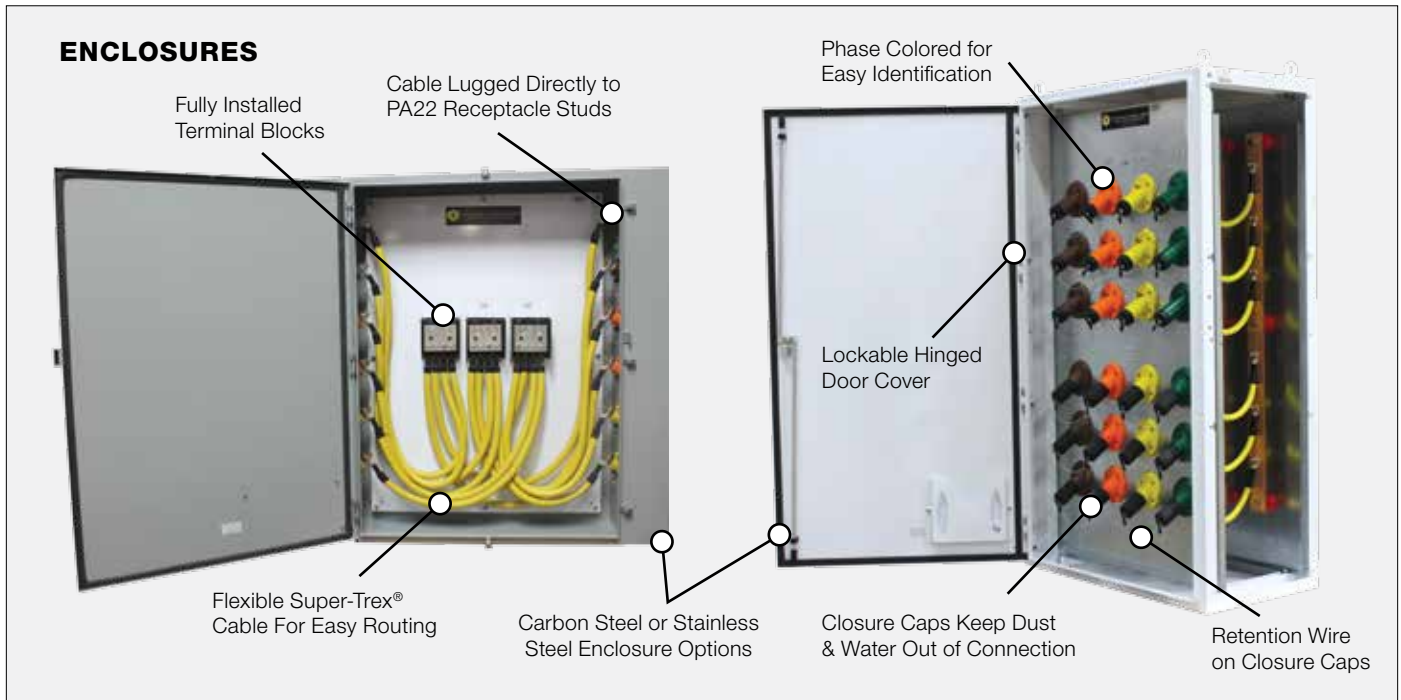


Medium Voltage Quick-Connect™ Assemblies

If you need a quick plug and play solution, we can add a connector to a TPC medium voltage cable to create a medium voltage quick connect assembly to support your temporary power and distribution requirements.

Custom Electrical Connection Enclosures

Once the cable and connectors have been selected the next question is: *how and where will they connect?* TPC provides electrical enclosures engineered to meet your site specific needs. TPC's team has experience selecting the best enclosure to allow you to quickly and safely connect your emergency power equipment. A wide variety of enclosure designs and connection styles are available.



Add Accessories to Your Solution

These panel mount systems are ordered as a “kit” and used on receptacle enclosures:

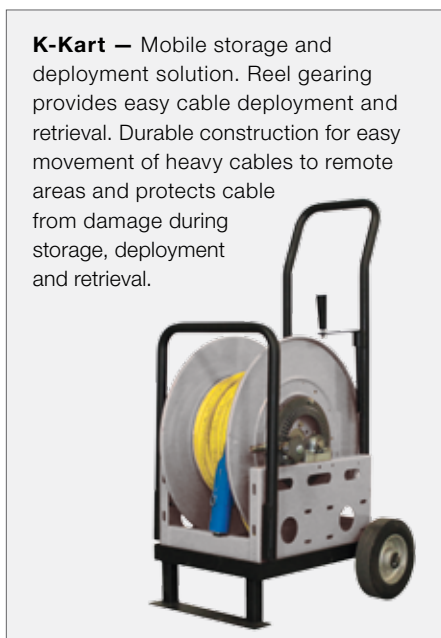
MALE ACCESSORY KIT – PART NUMBERS	
 Male Panel Mount Receptacle	PA22MR-BN (Brown)
	PA22MR-OR (Orange)
	PA22MR-YL (Yellow)
 Male Panel Mount Receptacle Plug	PA22MR-WH (White)
	PA22MR-GN (Green)
	PA22MR-BK (Black)

FEMALE ACCESSORY KIT – PART NUMBERS	
 Female Panel Mount Receptacle	PA22FR-BN (Brown)
	PA22FR-OR (Orange)
	PA22FR-YL (Yellow)
 Female Panel Mount Receptacle Cap	PA22FR-WH (White)
	PA22FR-GN (Green)
	PA22FR-BK (Black)

PFISTERER RECEPTACLE KIT
Available for medium voltage assemblies. Ask for more details.

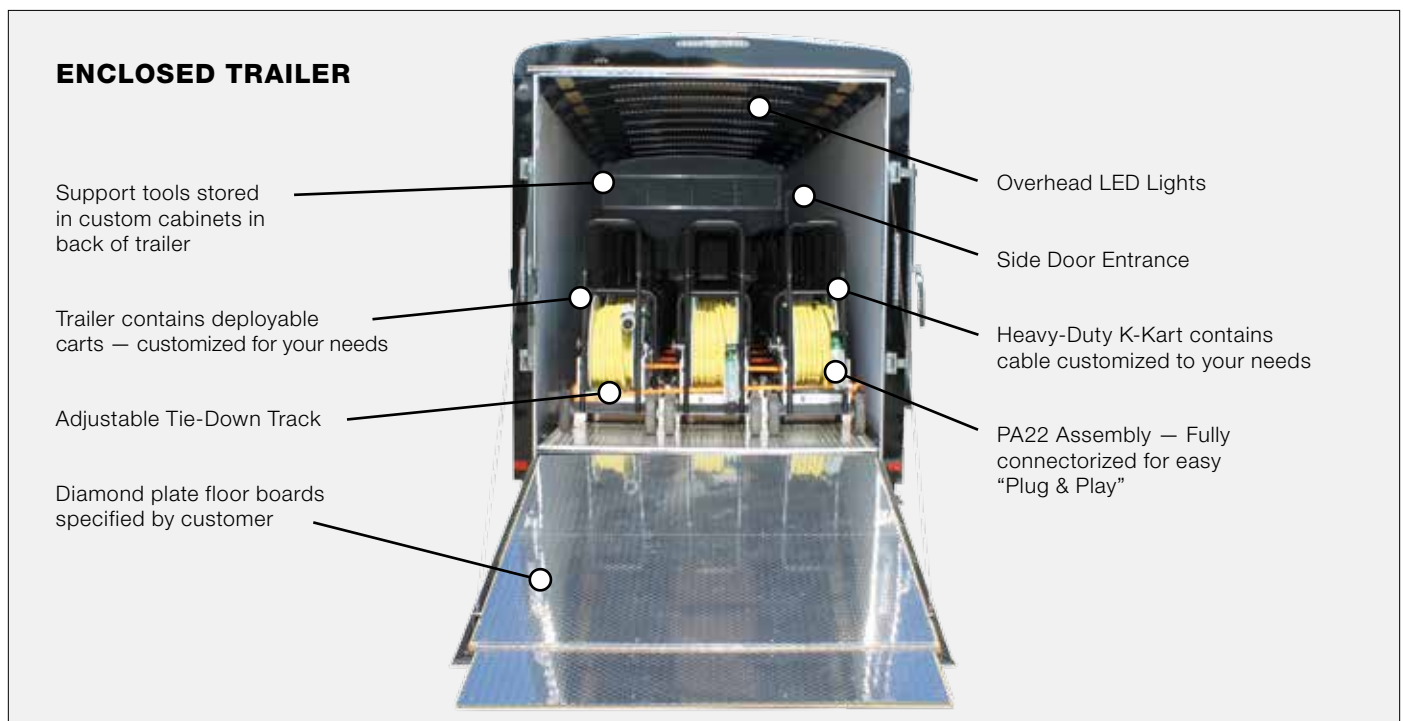
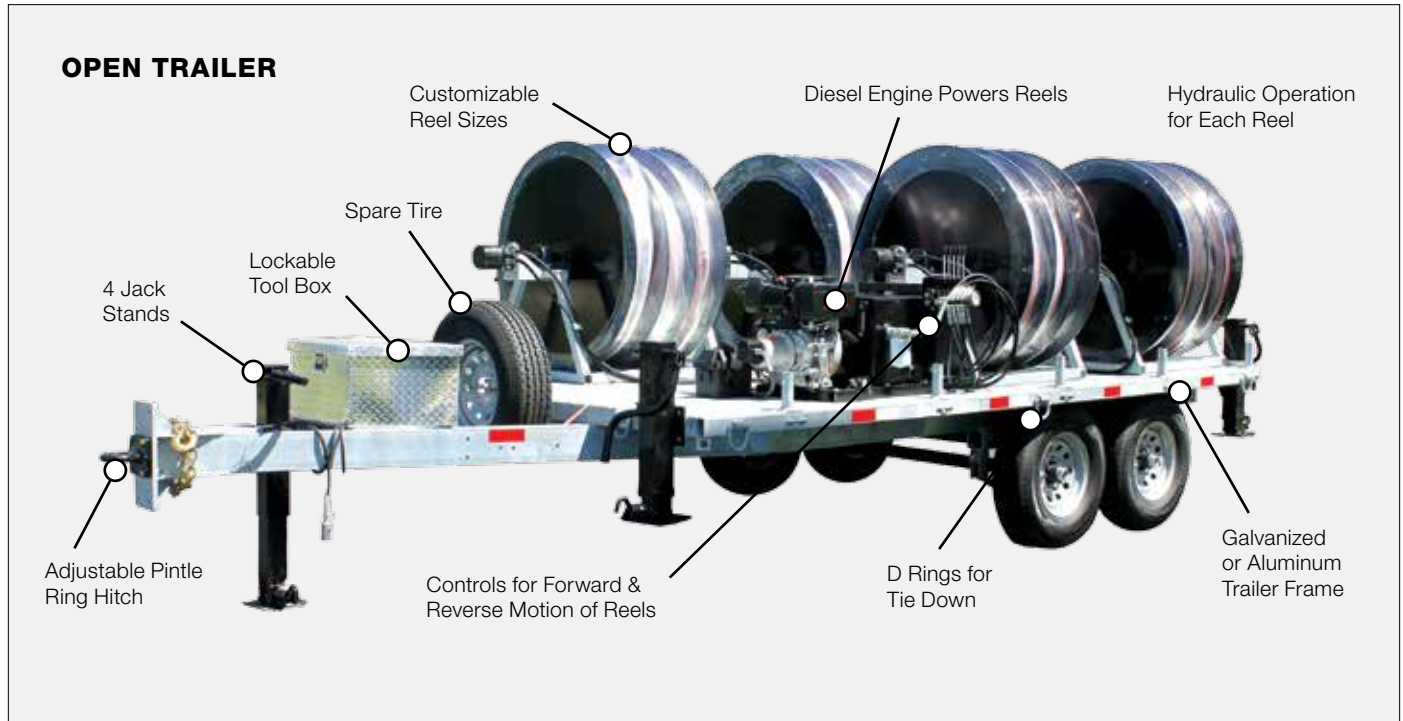
Custom Storage / Deployment Systems

A storage solution may change depending on the possible natural disasters in your region, your work environment or depending on your facility's safety specifications. TPC design engineers and product development managers work with our customers to provide a custom solution for any temporary power requirements. The storage system will be designed to keep materials in optimum condition until they are needed and allow for fast and easy deployment.

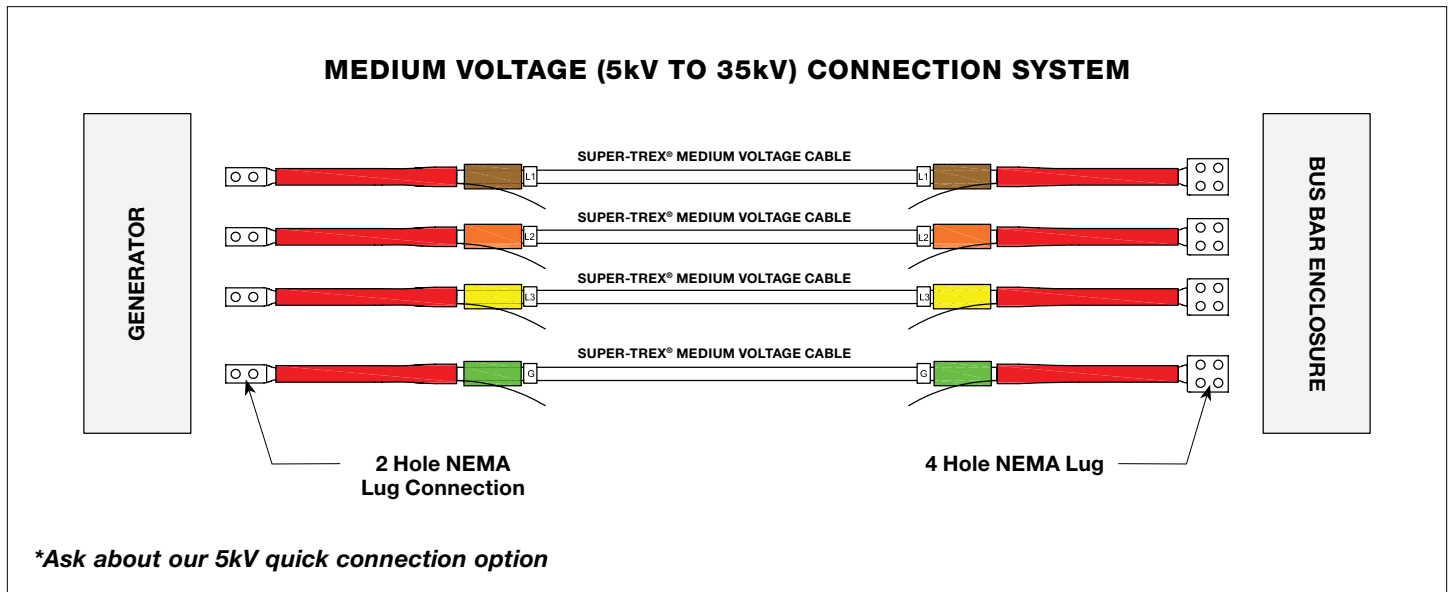
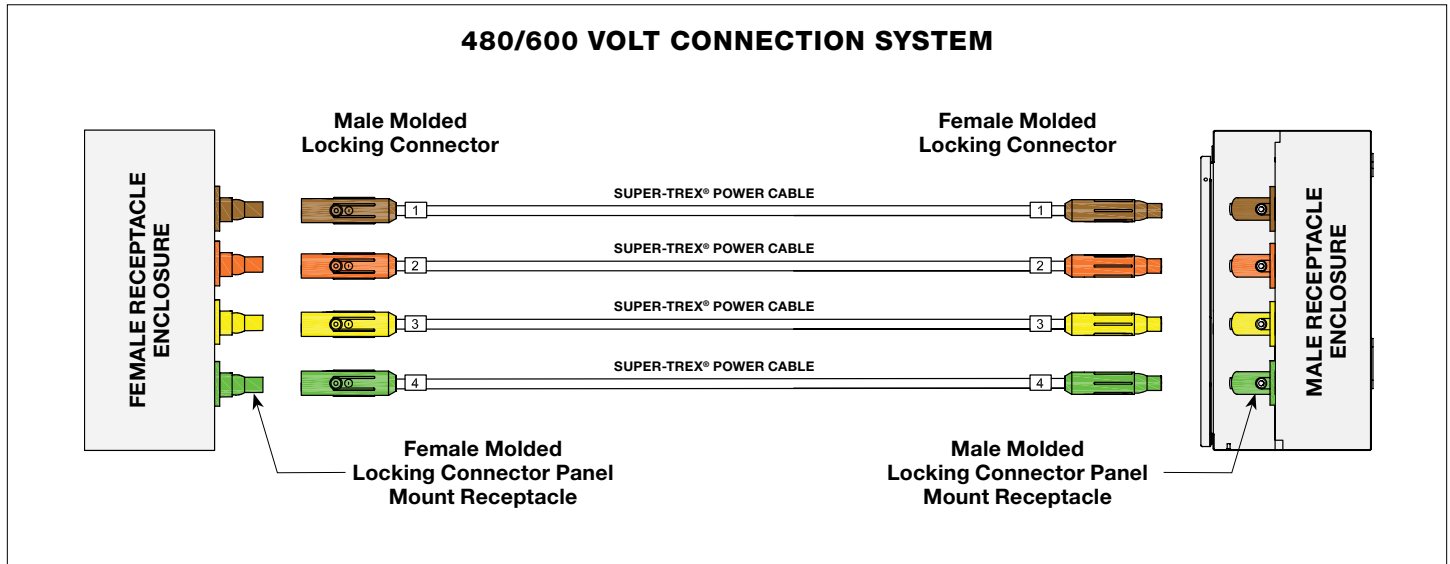


Pre-Loaded – Ready to Ship – Temporary Power Solutions

We've provided many custom solutions for all types of companies. Here are just a few examples of the details involved and the size and scope of what is possible. All of these options were designed through our engineering department and implemented by our assembly shop with close supervision by a project manager.



Connection System Schematics



Want to learn more about the steps you can take to keep your facility running in the event of a power emergency? Visit us at www.tpcwire.com or call 800-521-7935 today.



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