RigPower, LLC

Creating New Industry Standards

PHASE-LOCK®

Sequential Locking System

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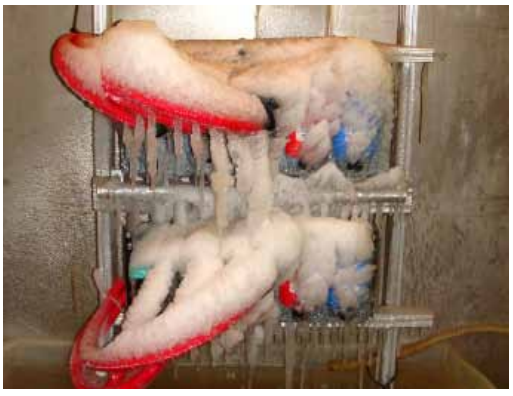
RigPower, LLC's mission is to create new industry standards in industrial electrical connectors by combining appropriate technological advances, quality production methods and dependable customer support.



Applications
Outdoor applications such as on-location broadcast systems and studios, sporting events, amusement park rides, alternative energy installations, and construction sites, often require the use of mobile power generators, linked to a low voltage network. These applications require extremely high power output.

In the past, the use of standard connectors was once a common solution for mating high-power cables to generators when powering outdoor equipment. The use of individual connectors as a solution often overlooked fundamental safety concerns for the personnel operating the generators. This solution adversely affected the reliability of the outdoor equipment itself. Without proper safety mechanisms, such as locking options, color-coding, and protection from harsh environments, equipment can shut down, be interfered with, or cause serious, and sometimes fatal injuries.

Introducing the Phase-Lock® Sequential Mating Connector System
RigPower, LLC has developed a high-power sequential-mating connector solution with built-in safety and ease-of-use design elements to meet the varied needs and concerns associated with outdoor equipment.

SAFETY - The Phase-Lock® Inline Panel forces a sequential system when making electrical connections. The panels require that the green, safety ground be connected first, before any of the power connections are made. When a neutral is installed, it is the second connection that must be made before the subsequent power connections. The high voltage power connections are made last. The panel covers are brightly color-coded to highlight which connector is needed for the individual hook-ups.

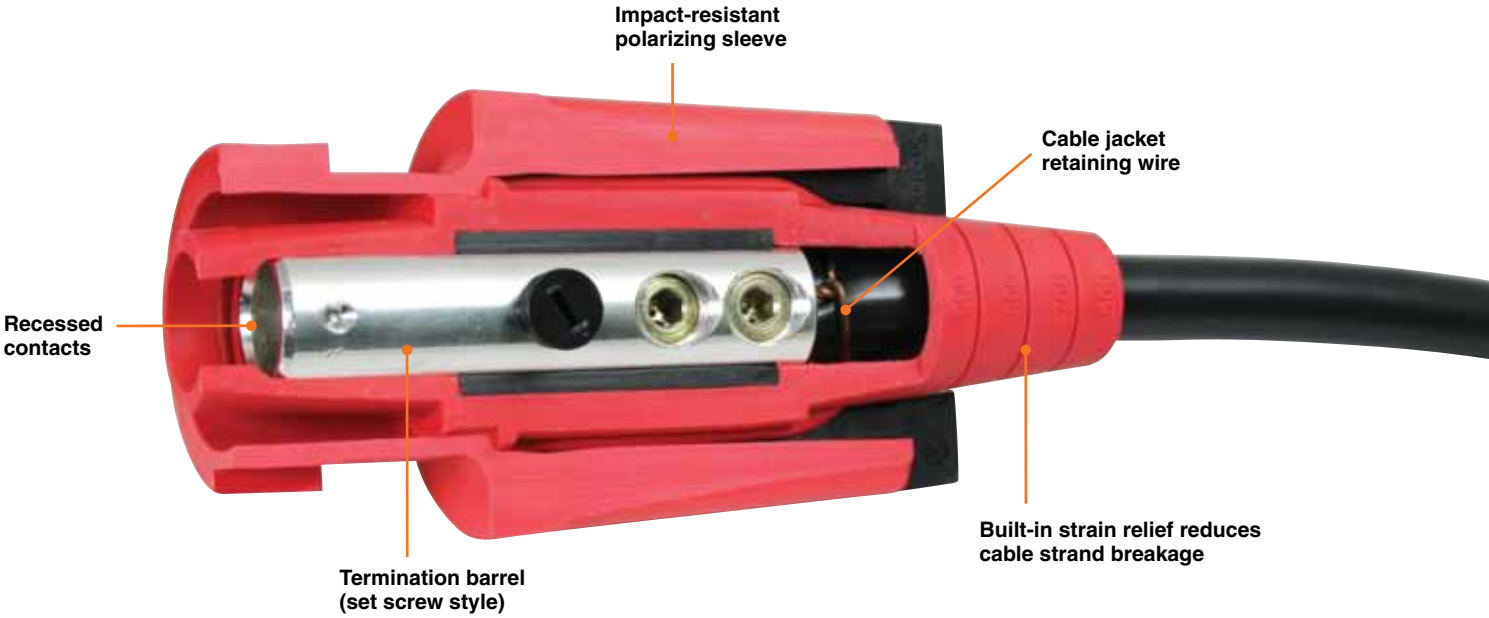
The connections are always made in a left-to-right pattern. The consistent, repeatable operation reinforces the pattern of safe electrical connections. When a connector is inserted into a panel and turned 90° to lock it, the panel door on the adjacent panel is unlocked allowing it to be opened. When disconnecting, a connector must be removed and the panel door shut before the adjacent connector can be removed.

RELIABILITY - The panels provide a weather-sealed connection when the cover is closed or when the connection is made. The connections, sealed with a gasket, protect against ingress of dust, dirt and rain. The connections are rated NEMA 3R and IP65.

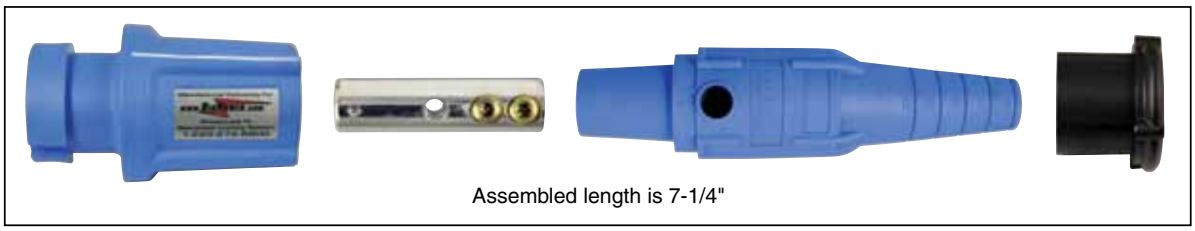
The Phase-Lock® Inline Panels are non-conductive for added protection. The panel covers are constructed with an engineered polymer alloy and are virtually indestructible. The material is UV resistant and flame-rated at UL 94-V0.

These products are UL and cUL listed and are available in 400A/600V options.

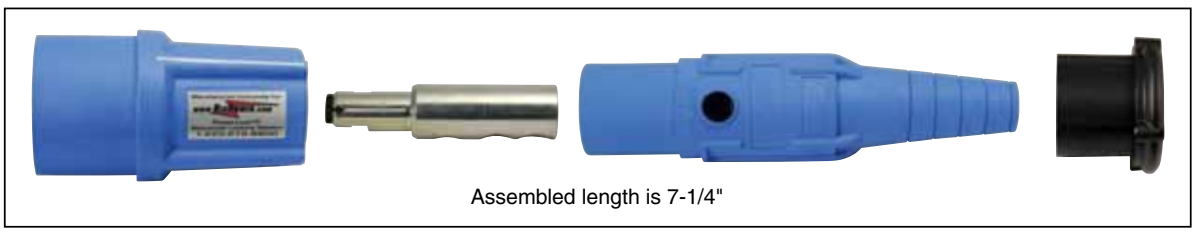
Tin Plated Copper Contacts At the core of the Phase-Lock® plugs are tin-plated copper contacts. These contacts provide the highest conductivity and the lowest overall operating temperature resulting in higher reliability and longer life. Dead front tip prevents inadvertent contact with male pins.



An Inside Look As shown in the photo above, the contacts are recessed in an impact-resistant plug sleeve to secure the connection and protect the contacts when they are not in use. The tapered design and rubber outer jacket of the Phase-Lock® connectors offer flexibility and allow for easier connecting and disconnecting. As shown in the photo above, the built-in strain relief limits the cable bend at the entrance to the connector thereby reducing cable strands from breaking. The retaining wire holds the cable jacket in place.



female



male

PHASE-LOCK® Plugs are configured as an interwoven series of components. Each of these individual parts is carefully manufactured to exacting standards. The overall result is a carefully constructed system designed to integrate together for the ultimate in safety and performance.

Waterproof Seal The panels provide a weather-sealed connection when the cover is closed or when the connection is made. The connections, sealed with a gasket, protect against ingress of dust, dirt and rain. The connections are rated NEMA 3R, and IP65. Phase-Lock® panels are designed to mount in the existing hole pattern of competitive models.

Each Phase-Lock® panel offers a locking option, preventing unauthorized interference with the system.

Individual units, can be purchased for easy field repair or replacement.

PHASE-LOCK® Inline Panels

While individual, standard connectors may cost less and can be adequate in terms of amperage and functionality, the Phase-Lock™ sequentially mated power-connector system provides the safety, security and reliability that is essential to outdoor equipment.

INDUSTRY EXCLUSIVE
RigPower designed exclusive spring loaded covers snap up and stay open to allow for easy plug hook-up and removal

INDUSTRY EXCLUSIVE
NEMA 3R rated when mated or disconnected. Gasket creates seal protecting ports against dust, dirt and water

Exclusive spring loaded covers will not open until previous connection in the line has been completed. This insures correct phase rotation and prevents completion of power connections before secure neutral and ground connections are established

Designed to intermate with existing U.S. sequential locking, single pole systems

The Phase-Lock® system uses the same footprint as competitive models

Once connected the system can be secured by a key lock

Protective non-metalic covers cannot be raised until the preceding plug is locked into position. The same is true for the disconnect sequence

Engineered from high impact, thermo-resistant polymer alloys

Suitable for use in outdoor environments without the need for additional enclosures

Modular Components

INDUSTRY EXCLUSIVE
Complete modular panel system allows for quick and easy field repair

PHASE-LOCK® Plugs

Exclusive alignment feature assures correct contact. Each plug and receptacle have a unique key slot

Exclusive color-coded system assures correct connections.

G W
BL R
Y BK
OR BR

COMPLETE PANELS

Part No.	Description	Body/Housing Color
PL-CMP-3	MALE 3 POSITION, SINGLE PHASE	G, W, BK
PL-CMP-4N	MALE 4 POSITION SINGLE PHASE	G, W, BK, R
PL-CMP-4G	MALE 4 POSITION 3 PHASE	G, BK, R, BL
PL-CMP-5-240	MALE 5 POSITION 3 PHASE	G, W, BK, R, BL
PL-CMP-5-480	MALE 5 POSITION 3 PHASE	G, W, BR,OR, Y
PL-CMP-6-240	MALE 6 POSITION 3 PHASE	G, W, W, BK, R, BL
PL-CMP-6-480	MALE 6 POSITION 3 PHASE	G, W, W, BR, OR, Y
PL-CFP-3	FEMALE 3 POSITION SINGLE PHASE	G, W, BK
PL-CFP-4N	FEMALE 4 POSITION SINGLE PHASE	G, W, BK, R
PL-CFP-4G	FEMALE 4 POSITION 3 PHASE	G, BK, R,BL
PL-CFP-5-240	FEMALE 5 POSITION 3 PHASE	G, W, BK, R, BL
PL-CFP-5-480	FEMALE 5 POSITION 3 PHASE	G, W, BR, OR, Y
PL-CFP-6-240	FEMALE 6 POSITION 3 PHASE	G, W, W, BK, R, BL
PL-CFP-6-480	FEMALE 6 POSITION 3 PHASE	G, W, W, BR, OR, Y

INDIVIDUAL MODULES

Part No.	Description	Body/Housing Color
PL-1M-G	Male	GREEN
PL-1M-W	Male	WHITE
PL-1M-BK	Male	BLACK
PL-1M-R	Male	RED
PL-1M-BL	Male	BLUE
PL-1M-Y	Male	YELLOW
PL-1M-BR	Male	BROWN
PL-1M-OR	Male	ORANGE
PL-1F-G	Female	GREEN
PL-1F-W	Female	WHITE
PL-1F-BK	Female	BLACK
PL-1F-R	Female	RED
PL-1F-BL	Female	BLUE
PL-1F-Y	Female	YELLOW
PL-1F-BR	Female	BROWN
PL-1F-OR	Female	ORANGE

INLINES

Part No.	Description	Body/Housing Color
PL-MP-G	Male	GREEN
PL-MP-W	Male	WHITE
PL-MP-BK	Male	BLACK
PL-MP-R	Male	RED
PL-MP-BL	Male	BLUE
PL-MP-Y	Male	YELLOW
PL-MP-BR	Male	BROWN
PL-MP-OR	Male	ORANGE
PL-FP-G	Female	GREEN
PL-FP-W	Female	WHITE
PL-FP-BK	Female	BLACK
PL-FP-R	Female	RED
PL-FP-BL	Female	BLUE
PL-FP-Y	Female	YELLOW
PL-FP-BR	Female	BROWN
PL-FP-OR	Female	ORANGE

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