

## PowerLock Connectors “At a Glance”

### VEAM PowerLock Overview

The VEAM PowerLock connector series for field installation power distribution systems offers the ultimate in safety and reliability under the most severe operating conditions. PowerLock connectors are plastic bodied single pole electrical connectors used in high current applications. For use in single and polyphase power distribution systems up to 660 amps, the range includes panel and cable mounted connectors, and associated accessories. PowerLock connectors are moisture and impact resistant and feature insulated contact tips to prevent accidental touching of electrically live parts.



ITTT VEAM PowerLock Box

The connectors are easy to terminate to copper cable using either industry standard crimp tools or set-screw contacts. The silver plated contacts are available in 2 continuous current ranges, those with brass contacts are suitable for use up to 400 amps and those with copper contacts up to 660 amps. The high impact plastic connector bodies are keyed to prevent connection errors, and color coded to suit 3 phase electrical systems that are used in the US, Europe and Australia.

|               | Ground | Neutral | Line 1 | Line 2 | Line 3 |
|---------------|--------|---------|--------|--------|--------|
| Europe        | Green  | Blue    | Brown  | Black  | Grey   |
| North America | Green  | White   | Black  | Red    | Blue   |
| Australia     | Green  | Black   | Red    | Black  | Blue   |

### The VEAM Difference:

- PowerLock connectors can only be connected in a safe sequence
- Keying prevents incorrect mating
- IP2X Finger protected contacts prevent touching of live parts
- Sealed, lidded and lockable versions

### Features & Benefits

- 400 amp or 660 amp continuous power ratings
- Crimp or Set-screw cable attachment
- Environmentally sealed to IP67
- Secondary lock for added security
- 19" rack mountable in 2U space
- 500 mating cycles
- VDE certified



Secure coupling of a connector pair is through a bayonet lock together with a secondary locking pin. The secondary lock engages when the bayonet lock is fully turned and disconnection requires a simple release key. The secondary lock discourages tampering and reduces the risk of accidental or unauthorized disconnection. If fast disconnection is required, for an application where tampering is not a risk, the connectors can be fitted with a sliding collar that quickly unlocks the connectors.

## Applications



### ENTERTAINMENT

STADIUM LIGHTING, SPECIAL EFFECTS,  
FIELD CAMPS



### RIVER BOATS

POWER FEEDS, LOAD BANKS,  
3 PHASE MOTORS



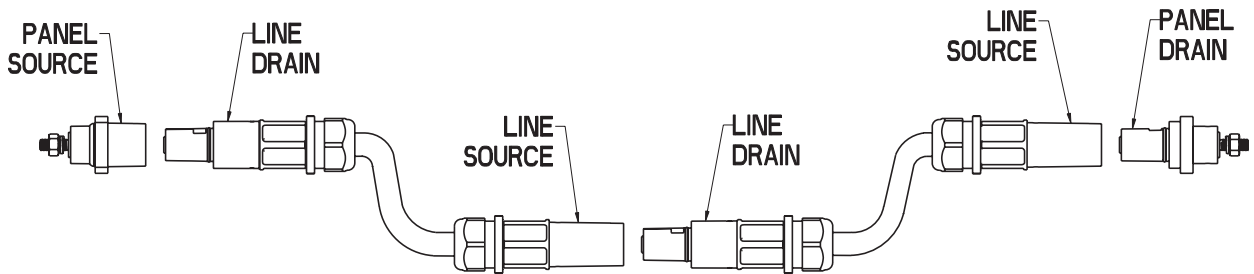
### EMERGENCY SYSTEMS

MOBILE GENERATORS,  
BACK-UP POWER SYSTEMS



### COMMERCIAL BUILDINGS

MALLS, HOSPITALS,  
SUPERMARKETS, FACTORIES



## PowerLock Ordering Guide

|                     |  |  | NLDFT            | E-GN | L | C240 | M40B | HG |
|---------------------|--|--|------------------|------|---|------|------|----|
| Body Style          | NLS<br>NLDFT<br>NPS<br>NPDTF   | Line Source<br>Line Drain<br>Panel Source<br>Panel Drain   |                  |      |   |      |      |    |
| Line/Phase Color    | E-GN<br>N-BL<br>N-W<br>N-BK<br>L-BN<br>1-BK<br>1-R<br>2-BK<br>2-R<br>2-W<br>3-GY<br>3-BL | Ground / Green<br>Neutral / Blue<br>Neutral / White<br>Neutral / Black<br>Line 1 / Brown<br>Line 1 / Black<br>Line 1 / Red<br>Line 2 / Black<br>Line 2 / Red<br>Line 2 / White<br>Line 3 / Grey<br>Line 3 / Blue   |                  |      |   |      |      |    |
| L                   | L<br>Blank   | Use with NLDFT & NPDTF<br>Leave blank for NLS & NPS  | NPS & NPDTF only |      |   |      |      |    |
| Type                | C300<br>C240<br>C185<br>C150<br>C120<br>C107<br>C95<br>C70<br>C50<br>C35<br>S120*        | Crimp 300mm <sup>2</sup> copper cable*<br>Crimp 240mm <sup>2</sup> copper cable*<br>Crimp 185mm <sup>2</sup> copper cable*<br>Crimp 150mm <sup>2</sup> copper cable*<br>Crimp 120mm <sup>2</sup> copper cable*<br>Crimp 107mm <sup>2</sup> copper cable*<br>Crimp 95mm <sup>2</sup> copper cable*<br>Crimp 70mm <sup>2</sup> copper cable*<br>Crimp 50mm <sup>2</sup> copper cable*<br>Crimp 35mm <sup>2</sup> copper cable*<br>Set Screw 120 mm <sup>2</sup> ( <b>See Note*</b> ) | NLS & NLDFT only |      |   |      |      |    |
|                     | T4<br>T6   | M12 Threaded post 400amp<br>M12 Threaded post 660amp   | NPS & NPDTF only |      |   |      |      |    |
|                     | H4<br>H6   | M12 Threaded hole 400amp<br>M12 Threaded hole 660amp   | NPS only         |      |   |      |      |    |
| Contact Cable Gland | M40S<br>M40A<br>M40B<br>M50  | Gland nut 15-23mm Ø<br>Gland nut 19-28mm Ø<br>Gland nut 22-32mm Ø<br>Gland nut 30-38mm Ø   | NPS & NPDTF only |      |   |      |      |    |
| Special Options     | SC<br>HG<br>NF<br>M6F<br>M6R   | Sliding Collar (Source only)<br>Hand Grip (Line only)<br>No Flange (Panel only)<br>M6 threaded insert front<br>M6 threaded insert rear   |                  |      |   |      |      |    |

\*S120 Ordering Note – When using S120 contact with smaller cables, a reduction kit is required. See the PowerLock catalog for a complete list of kits.

[CLICK HERE](#) to download a copy of the ITT VEAM PowerLock and SnapLock Connector Catalog

Connect with your ITT Interconnect Solutions representative today or visit us at [www.ittcannon.com](http://www.ittcannon.com)

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