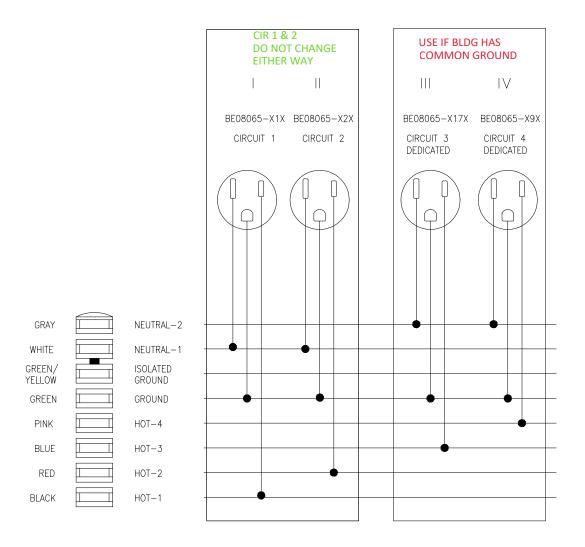
BYRNE 8 WIRE, 4 CIRCUIT, 2+2 WIRING MODULAR ELECTRICAL SYSTEM WIRING DIAGRAM FOR USE WITH BUILDINGS THAT HAVE **COMMON GROUND** HARDWIRING OF EACH POWER INFEED TO J-BOX BY OTHERS.





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DATE: 03/02/10 JVT

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BYRNE-8 WIRE CIRCUIT
IDENTIFICATION: CIRCUITS 2+2 WITH
3+D COMMON GROUND

B Y R N E

8-TRAC OVERVIEW

1) Introduction

Byrne Electrical Specialists, Inc. provides quality, cost effective, innovative power/data distribution solutions. From initial concept to final product design, Byrne Electrical Specialists Inc.'s in-house vertical integration of product design, injection molding, assembly, and UL Listing assures consentient product performance, quality and service.

The Byrne 8-Trac System is adaptable to all architectural elements. It can be utilized in modular furniture, ceiling applications, floor to ceiling partitions, and raised flooring. The System will accommodate panel applications of 2" to 3 ½" thick with harnesses available from 12" to 1800" in length. Assemblies are 100% electrically tested to ensure the highest quality and reliability. Multiple iterations are available to accommodate the different architectural elements. The standard options shown represent a fraction of total product offering. Consult a project engineer to provide the best solution for your application.

2) Universally Recognized

The Byrne 8-Trac System is UL Recognized as an Office Furnishing Accessory (UL 1286), and is UL Listed as a Manufactured Wiring System (UL 183) in full compliance with electrical specifications found in the National Electrical Code (NEC). It also complies with municiple standards such as New York, Los Angeles & San Fransisco.

3) Circuitry/Keying

The Byrne 8-Trac System is rated for 20 amps allowing the use of 4 circuits with 4 line conductors, 2 neutrals and 2 grounds. Under NEC requirements, up to 13 duplex receptacles maybe used per circuit, with a total of 52 available receptacles if all circuits are used, per single power entry. The line conductors are 12 AWG, and share a 12 AWG ground and a 10 AWG neutral.

Alternate circuit diagrams are available. The Byrne System can be wired in both single and three-phase configurations, 240/120V, 208/120V respectively. Additionally, a 3 hot, 3 neutral, 2 ground (3-3-2) wiring system is available.

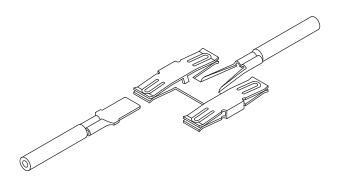
SEE ATTACHED (2+2) WIRING DIAGRAM

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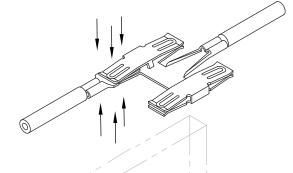
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4) Contact

The center of the Byrne 8-Trac System is the patented six point contact terminal. This Quad Terminal is rated at over 50 amps, offering built in overload insurance. The design efficiently distributes power, reducing the contact resistance. The six points of contact provide a stable connection, eliminating rocking.

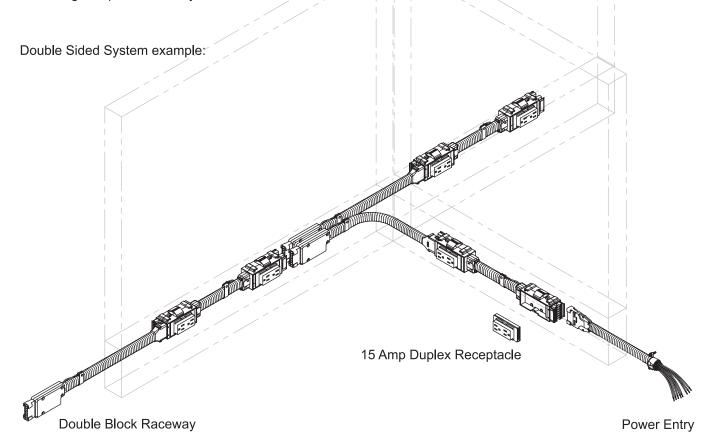


Six points of contact (three each side)



5) Flexibility

The practical design of the Byrne 8-Trac System combines junction blocks, jumpers and power infeeds into one modular assembly. With 3-1/2" of adjustability, different length harnesses for 90 degree and "T" panel conditions are not required. Power is routed through extremely flexible oval metal conduit, which makes traversing sharp corners easy.



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"H" Connector

The Byrne 8-Trac System is available in both single and double block options, allowing for a more economical way of placing duplexes. Pass Thru Jumpers are also available if power outlets are not required. A variety of power feed options for single and multi-circuit applications are available to distribute power for any facility plan.

6) Installation

All connections are positive locking, assured by keyed terminal housings. The patented slide mount block is easily installed on site after panel or table assembly.

Single Sided System example:

M/M Adjustable Jumper

M/M Non Adjustable Jumper

Single Sided Junction Block

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Power Entry

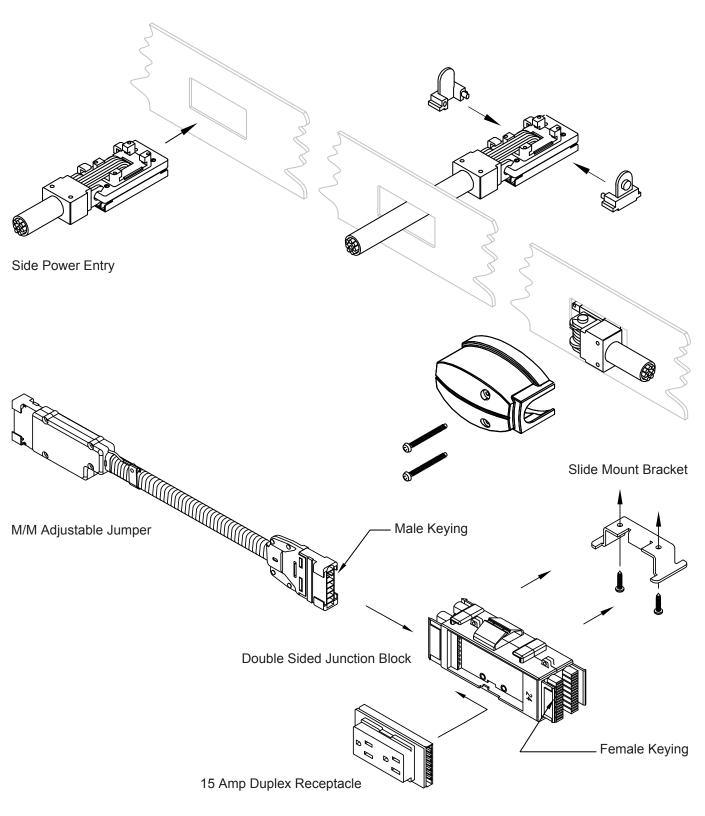
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The patented Side Power Entry rotates 180 degrees allowing installation in either direction after hardwiring to the building electrical supply. Receptacles simply snap in with a positive locking tab feature that assures positive contact to the power blocks. Power blocks, harnesses and receptacles are installed without tools.



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