

UPLIFT Power & Data Rail: Byrne 8-Trac System

SKU: PDC005

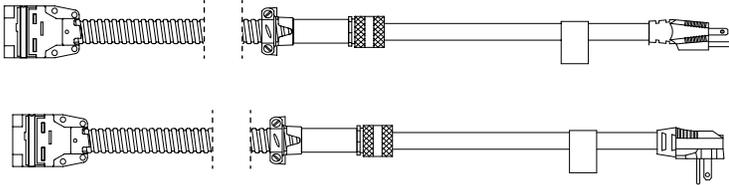
The recommended electrical system for the UPLIFT Power and Data Rail is the Byrne 8-Trac System. However, we have also designed the Power and Data Rail to accept the Dekko 8-Wire System. This can help prevent any delays if one of those two suppliers is experiencing long lead times.

There are two types of power infeeds for the UPLIFT Power and Data Rail - plug-in (see fig.1) and hardwire (see fig.2). The plug-in infeed simply plugs into either a wall outlet or a floor outlet and can be installed by anyone. The hardwire infeed connections are made by a licensed electrician.

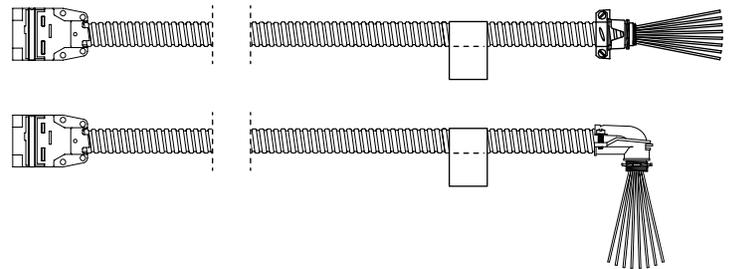
The Byrne system is rated for 20 amps per circuit.

- Plug-in feeds are supplied by a single 20 amp circuit that typically supplies your office wall outlets. Outlets for plug-in power infeeds must be 20 amp type configuration (see fig.3) in order to maintain UL listing. Do not use plug adapters to plug infeed into a 15 amp type outlet.
- Hardwire feeds are supplied by up to four 20 amp circuits. Hardwired infeeds allow for four circuits consisting of four line conductors, two neutrals, and two grounds. Per National Electrical Code (NEC) requirements, up to 13 duplex receptacles may be used per circuit, with a total of 52 available receptacles if all four circuits are used. The line conductors are 12 AWG, and share a 12 AWG ground and a 10 AWG neutral conductor. The fourth circuit is isolated and dedicated and is serviced by its own line, neutral, and isolated ground conductors. The Byrne 8-Trac System can be wired in both single and three-phase configurations, 240/120V, 208/120V respectively (see fig.4).

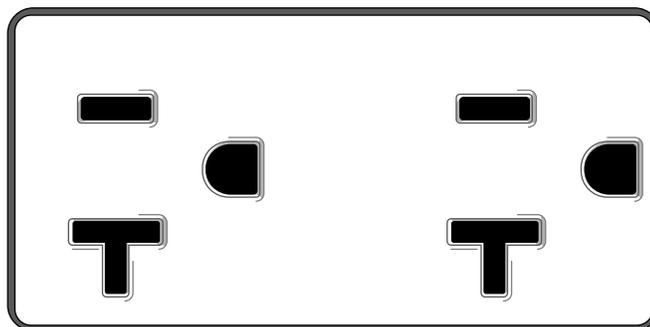
(fig.1 - plug-in power infeeds)



(fig.2 - hardwire power infeed)



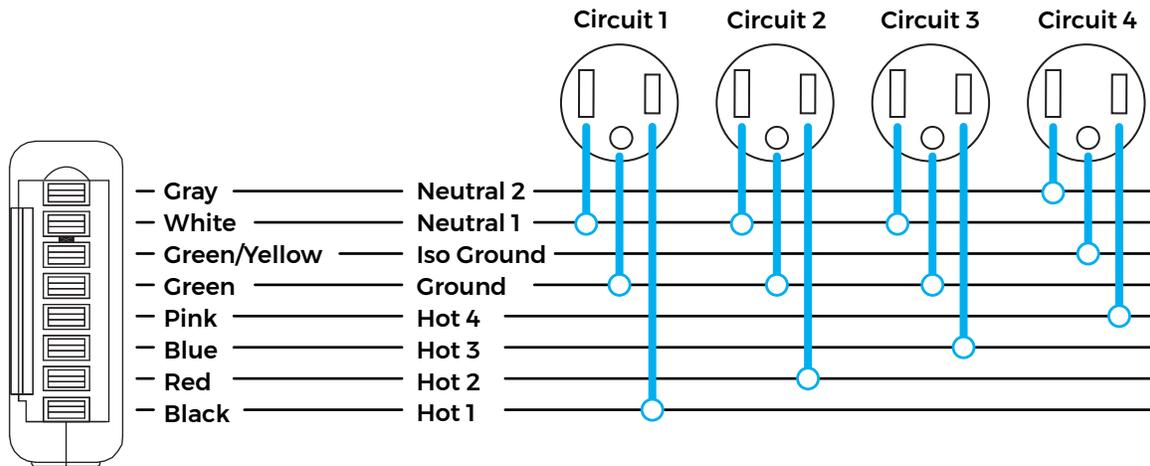
(fig.3 - required outlet type for plug-in power infeed)



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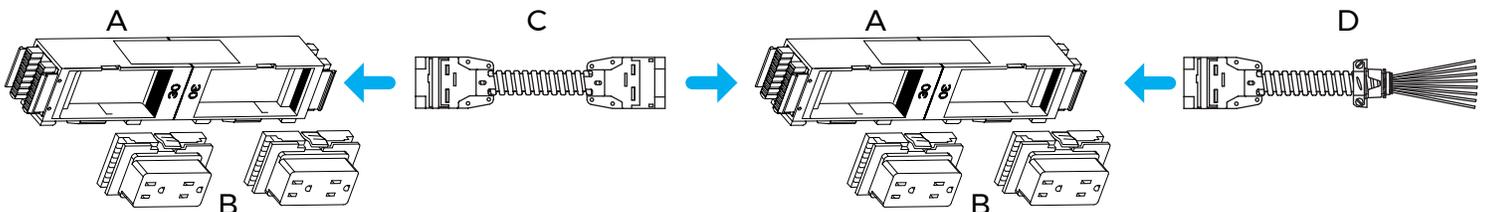
(fig.4 - hardwire power infeed wiring diagram)



This power rail system utilizes (4) circuits; (3) for general purpose that share a common neutral and ground, and (1) circuit that has a dedicated neutral and ground. This dedicated circuit is sometimes used as the “computer” circuit since it does not share a neutral conductor, thereby reducing the chance for electrical noise originating from other loads that may be plugged in. But many users plug their computers into any of the 4 circuits without issues. Byrne duplex receptacles are marked as 1, 2, 3, and 4. Receptacles marked 1, 2, and 3 connect to the three general purpose circuits and the receptacle marked 4 connects to the dedicated circuit. IF you optionally choose to only plug computers into the dedicated circuit you may need to use additional power infeeds and an electrical designer can help with this - as a general rule, you can assume 250W (2.08A) for each computer receptacle and 180W (1.5A) for each general purpose receptacle when calculating for each 20A circuit.

Power infeed and jumper assemblies are available in lengths between 12 and 1800 inches to accommodate any wiring needs. Electrical assemblies are 100% electrically tested to ensure the highest quality and reliability. Consult an UPLIFT Desk sales associate for the best solution for your application. Electrical systems are UL Recognized as an Office Furnishing Accessory (UL 1286) and 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 municipal standards such as New York, Los Angeles, and San Francisco. The practical design of the Byrne 8-Trac System combines junction blocks (A), duplex receptacles (B), jumpers (C), and power infeeds (D) into one modular assembly. Power is routed through extremely flexible oval metal conduit which makes traversing corners of the UPLIFT Power and Data Rail easy. All connections are positive locking with keyed terminal housings (see fig.5).

(fig. 5 - All connections are positive locking with keyed terminal housings)



For technical questions and support please email info@upliftdesk.com, visit our chat service at upliftdesk.com, or call 800-349-3839.