

RACE TRACK



**Maximum Performance Power For
The Office Of Today & Tomorrow**

RACETRACK *Maximum Performance Power For The Office Of Today And Tomorrow*

8 Circuits 14 Wires

Technically Advanced

RACETRACK is a technically advanced, highly potent power package. It offers four or more outlet locations on each side of longer tracks. It has 14 wires, preferably eight circuits, variable length adjustment, multiple power entry devices, various outlet options, choice of wiring configurations, retrofit ability, and just four basic parts that install quickly and easily.

Circuitry For Every Need

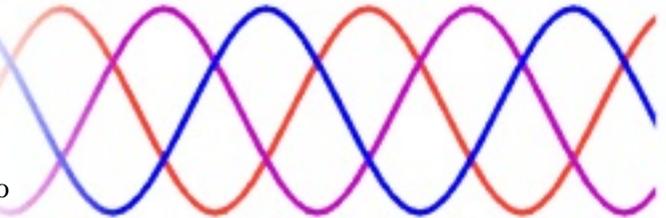
RACETRACK circuitry includes isolated technology circuits to power computers, word processors, computer peripherals, and other sophisticated equipment.

Other circuits provide utility power and specialized use from ambient lights to pencil sharpeners.

Harmonics Protection

Today's office demands more circuits. RACETRACK provides up to eight circuits for the most sophisticated office environment. Highly computerized settings have brought concerns of harmonic neutral overload. Harmonics are created when two or more load lines share a neutral. Worst case harmonic neutral load was confirmed by Underwriters Laboratories, Inc. Their studies show that two 20 ampere lines may place up to 28 amps on the shared neutral. RACETRACK 842-842 limits technology circuits to two per shared neutral for added assurance of harmonic control. Standard neutrals are code rated to carry 30 amperes. Neutrals may be upgraded to carry 40 amperes. RACETRACK 6-circuit 842-642 has no shared computer neutrals.

RACETRACK operational ratings are 20 amperes per circuit under UL 1286 and 15 amperes per circuit under CSA 22.2

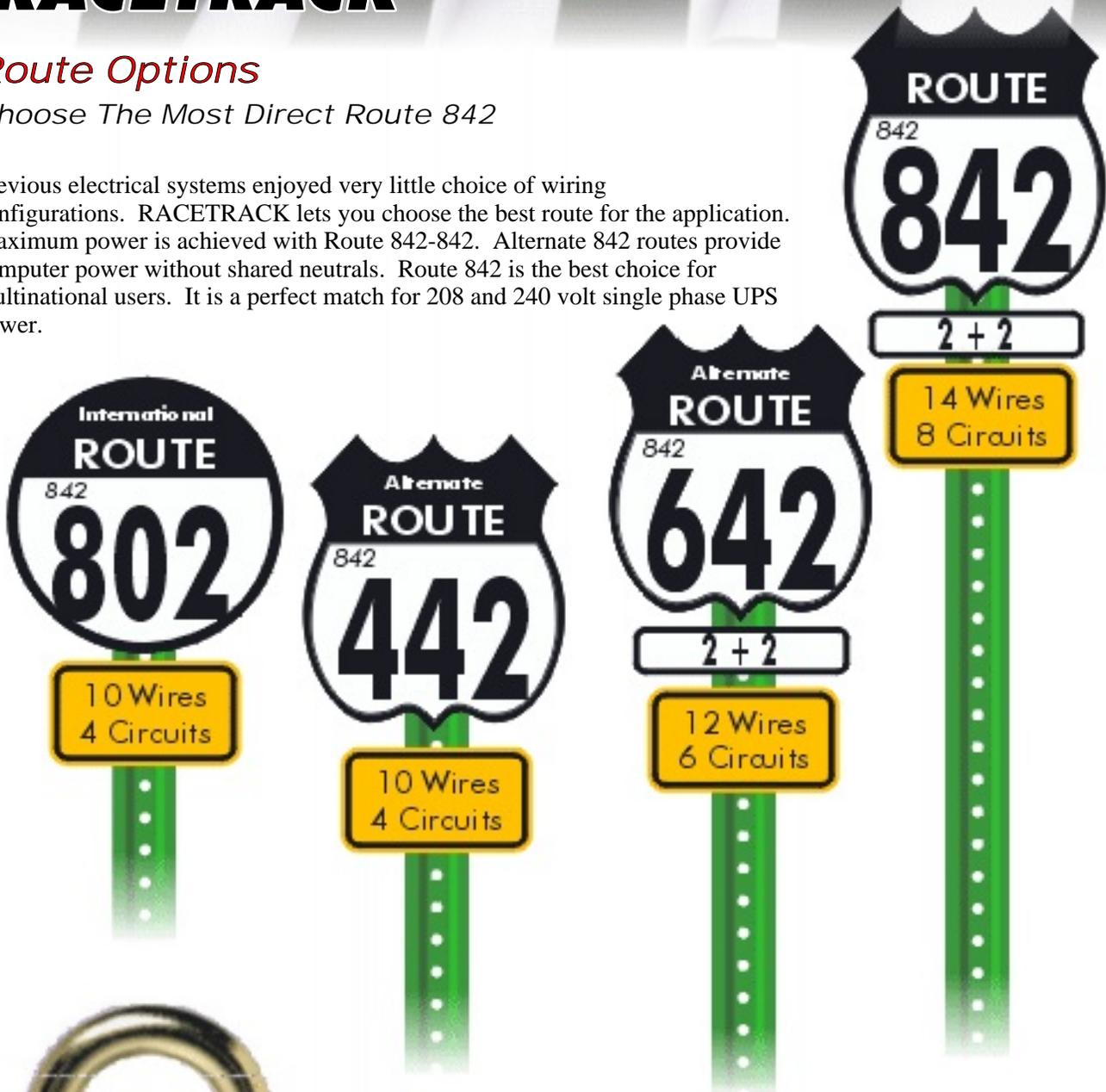


Maximum Performance Power For The **RACETRACK** *Office Of Today And Tomorrow*

Route Options

Choose The Most Direct Route 842

Previous electrical systems enjoyed very little choice of wiring configurations. RACETRACK lets you choose the best route for the application. Maximum power is achieved with Route 842-842. Alternate 842 routes provide computer power without shared neutrals. Route 842 is the best choice for multinational users. It is a perfect match for 208 and 240 volt single phase UPS power.



Security

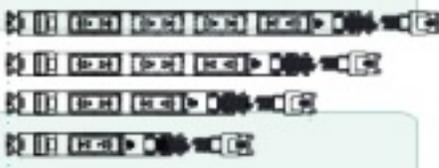
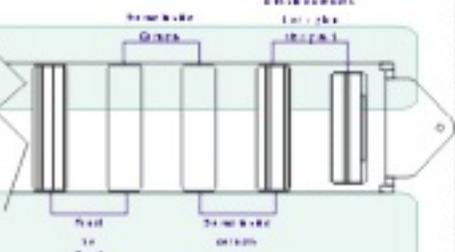
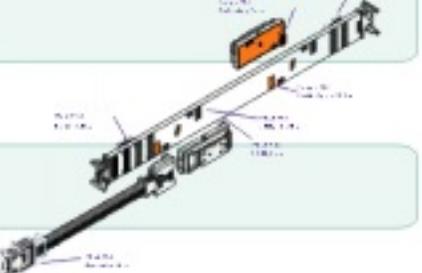
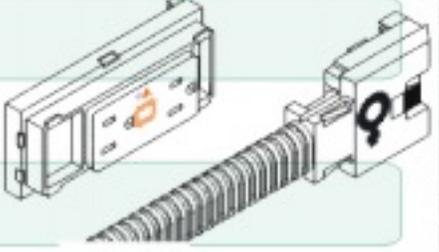
Keys to RACETRACK Lock In And Out

The 14 wires of RACETRACK may be configured in many ways. A unique key plan provides users with the possibilities. The key plan prevents the various routes from intermingling. It locks in choices and locks out other routes.



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RACETRACK Comes With A List Of Awesome Standard Features

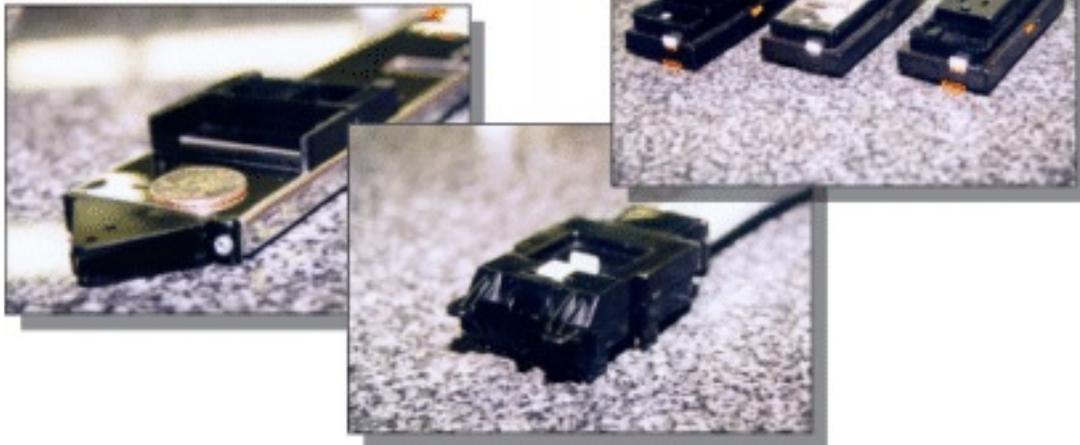
<ul style="list-style-type: none">○○○	<h3>Sizes</h3> <p>Tracks are manufactured in custom proportional lengths to fit a given raceway or decorator cavity. The rigid track length varies, while the standard, flexible track to track cable reaches back into the prior raceway to receive power.</p>		<ul style="list-style-type: none">○○○
<ul style="list-style-type: none">○○○	<h3>Automatic Length Adjustment</h3> <p>The interconnecting length will adjust using a unique track feature. Interconnecting cables cross posts, round corners, and make adjacent panel connections with equal ease.</p>		<ul style="list-style-type: none">○○○
<ul style="list-style-type: none">○○○	<h3>Branching</h3> <p>The RACETRACK provides an area to reverse direction and carry power in all branches of plan view X, T, or Y configurations.</p>		<ul style="list-style-type: none">○○○
<ul style="list-style-type: none">○○○	<h3>Keyed And Colored</h3> <p>Keyed track sites control polarity and routes. Color in the sites aids installers. Keyed and colored cable and outlet connectors identify wiring configuration and lock in route choice.</p>		<ul style="list-style-type: none">○○○
<ul style="list-style-type: none">○○○	<h3>Circuit Graphics And Visual Indicators</h3> <p>The face of each receptacle is marked in colorful symbols to help identify internal wire color and/or phase. An orange triangle and computer icon signals isolated ground circuits. Female connectors come marked with the international symbol for female to aid installations.</p>		<ul style="list-style-type: none">○○○

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Streamlined Design

Maximum Power In A Conveniently Sized Package

RACETRACK's streamlined design maintains 14 wires in a 2" by 1/2" housing, making it fit virtually every panel system, desk or table channel, and beltline application; often, with plenty of room to spare for data or communication circuits.

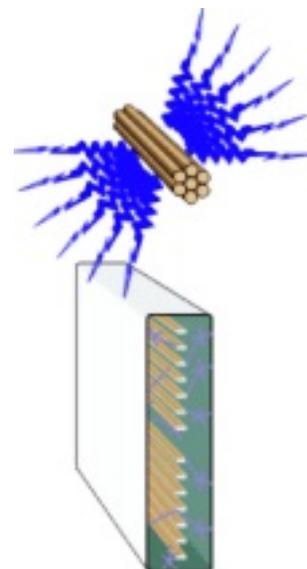


Less EMI

Steel Housing Blocks Interference

With the proliferation of electronic office devices, electromagnetic interference (EMI) has become an increasing concern.

All electrical conductors are sources of EMI. RACETRACK's fully enclosed steel housing provides protection for sensitive data and communications lines. RACETRACK's steel housing also protects interior conductors from radio frequency interference (RFI), microwaves, and other forms of interference of concern to electronic equipment users.



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Route 842 842 2+2 offers highly computerized environments four utility circuits and four isolated technology circuits (up to 104 outlets per run!). Only two circuits share each neutral, controlling harmonics. Fourteen wires offer maximum power.



Lines	Neutrals	Grounds
4 Utility	2 Utility	1 Utility
4 Technology	2 Technology	1 Technology
8	4	2

Route 842 642 offers two isolated computer circuits that do not share a neutral. Coupled with four utility circuits, 842 642 provides up to 78 outlets per run. Each of the two utility neutrals is paired with only two line wires, controlling harmonics.



Lines	Neutrals	Grounds
4 Utility	2 Utility	1 Utility
2 Technology	2 Technology	1 Technology
6	4	2

Route 842 442 uses ten wires to provide four circuits with no shared neutrals. The two technology circuits share an isolated ground, offering harmonic free power. This route offers maximum power with only ten wires.



Lines	Neutrals	Grounds
2 Utility	2 Utility	1 Utility
2 Technology	2 Technology	1 Technology
4	4	2

International Route 842 802 offers four circuits with no shared neutrals. It is wired in standard European colors to allow use in many foreign markets. Four circuits are comprised of two isolated technology circuits, and two utility circuits



Lines	Neutrals	Grounds
2 Utility & 2 Black Neutrals	0 or Black	1 Utility
2 Technology & 2 Black Neutrals	0 or Black	1 Technology
8	0	2

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Multiple Power Entry Prevented

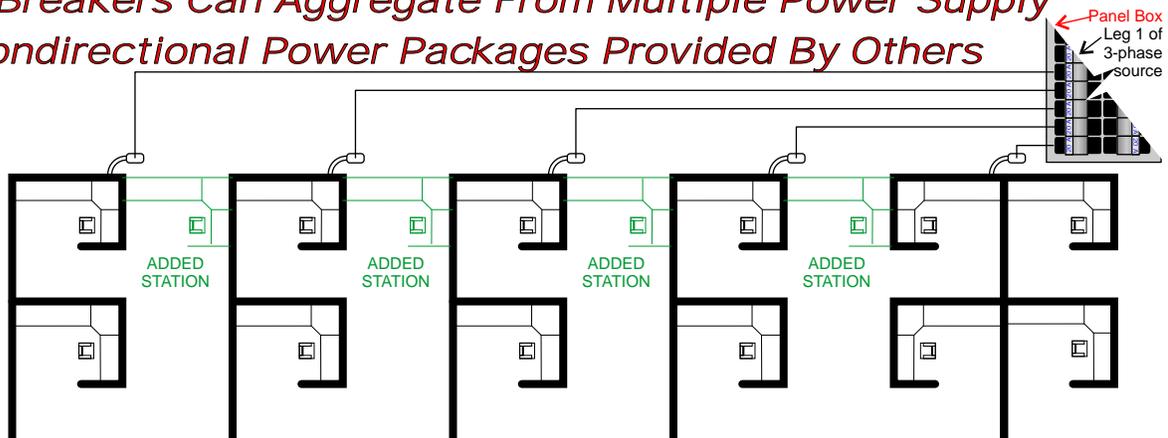
RACETRACK Power Entry Cables Will Not Interconnect

RACETRACK has an exclusive safety feature that overwhelms all of the otherwise exciting and innovative product details. No component, combination of components, or cluster of stations can be energized from more than one source of supply. Overcurrent protectors cannot accidentally aggregate in the panel box. Although power can be carried in all directions, the unique feature does not allow every mechanically connected panel to be electrically connected. Directional Power prevents inadvertent interconnection of multiple power entry cables. Underwriters Laboratories, Inc. and the Canadian Standards Association require nondirectional power packages to carry a warning label as follows:

WARNING: Risk of Fire or Electric Shock. Connect to one and only one source of supply

RACETRACK is exempt from the warning label. It prevents multiple power supply. Multiple power supply rarely happens in the original installation because the warning is on the power entry cable. It happens during reconfiguration. The illustration below shows how added work stations align circuit breakers in a panel box and move the 20 ampere safety fuse threshold to 100 amperes or more. The single neutral wire in panel wiring is also forced to carry the elevated imbalance with no breaker at all. This page and illustration may be copied and distributed without permission. Through dissemination of this information, potential disasters can be prevented.

How Breakers Can Aggregate From Multiple Power Supply In Nondirectional Power Packages Provided By Others



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Outlet Option Modules

The Key To Controlability

RACETRACK's vast array of outlet option modules offers the user control of voltage and circuit usage. RACETRACK outlet option modules are completely modular, allowing them to be exchanged easily by the user. RACETRACK provides the ability to choose between voltage levels, phase usage, and isolated or utility ground usage at every outlet. User may assure load balance. More modules like the Chosen Circuit Surge Sentry, theater lamps, independent outlet switching, and fusing options allow the user complete control.



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Top Features



Up To 8 Circuits

The 842 2 + 2 configuration provides up to four technology circuits and four utility circuits. Fewer power entries lower cost to power more computers, laser printers, task lights, et cetera. All eight circuits are available on both sides of each track.



Multipunch Density

Tracks for 24" and 30" raceways offer one or two outlets per side. Longer tracks offer three, four, or more outlet sites per side to substantially reduce the number of required tracks, eliminate wing power, and lower user cost.



Directional Safety

RACETRACK ensures multiple feeds per run will not interconnect, preventing risk of fire and electric shock.



Harmonics Control

Only two lines in 2 + 2 may harmonically share each neutral. By limiting neutrals to just two lines, harmonics are controlled.



Lap Cables And Link

The adaptability of RACETRACK lap cables and link allow customers cost control. Lap cables open raceway space for communication and data cables.



Worldwide Usability

Unique design adapts to single phase, three phase, and international voltages. RACETRACK works worldwide.



Simple Sophistication

Few parts, and no tools required, simplifies installation and inventory for lowest installed cost. Available factory installed parts actually add to overall cost. Powered panel staging is eliminated with preferred field installation. Field installation is a snap.



Outlet Options

Various Outlet Option Modules provide user flexibility to control cost and circuit usage. Special needs are covered, not cobbled.



Universal Cable Length

Tracks adjust length so one cable size serves all junctions and branches for ease of installation and relocation. There are no spanners, adapters, or inside/outside lengths.



Compact Size

The track measures a trim 2" x 1/2", leaving plenty of other cable space in the raceway



Beltline Option

A beltline feed and a flat back track is available to serve desk height needs.



Conduit Choices

Various conduit choices provide user options in cost, shielding, flexibility, and local code compliance.



Heavy Duty Parts

RACETRACK components are designed for durability and cool operation. Steel tracks and cables shield against electromagnetic interference.



Separation Of Circuits

Tracks separate technology from utility circuits and the cables cluster wires for phase cancellation to control electromagnetic noise.

