KI POWER SOLUTIONS SELECTION MANUAL

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This Power Solutions Selection Manual is intended to help KI personnel & customers to gain a general understanding of the power offerings and the options available to supplement KI furniture products. With an understanding of the customer's needs, this guide will help determine the most appropriate electrical product recommendations. For detailed specifications, use the product specific Planning Guides and/or CAD resources to generate project drawings and bills of material.

INTRODUCTION TO
POWER OPTIONS

Use the points below to determine the appropriate level of power needed based on the room layout and equipment needs.

LEVEL 1

CUSTOMER NEEDS

Power is intended for occasional charging access.

Users will need access near tabletop to plug in their equipment (laptops/tablets/phones).

Each electrical device will plug individually into a building receptacle, or one of the 10-wire electrical system receptacles.

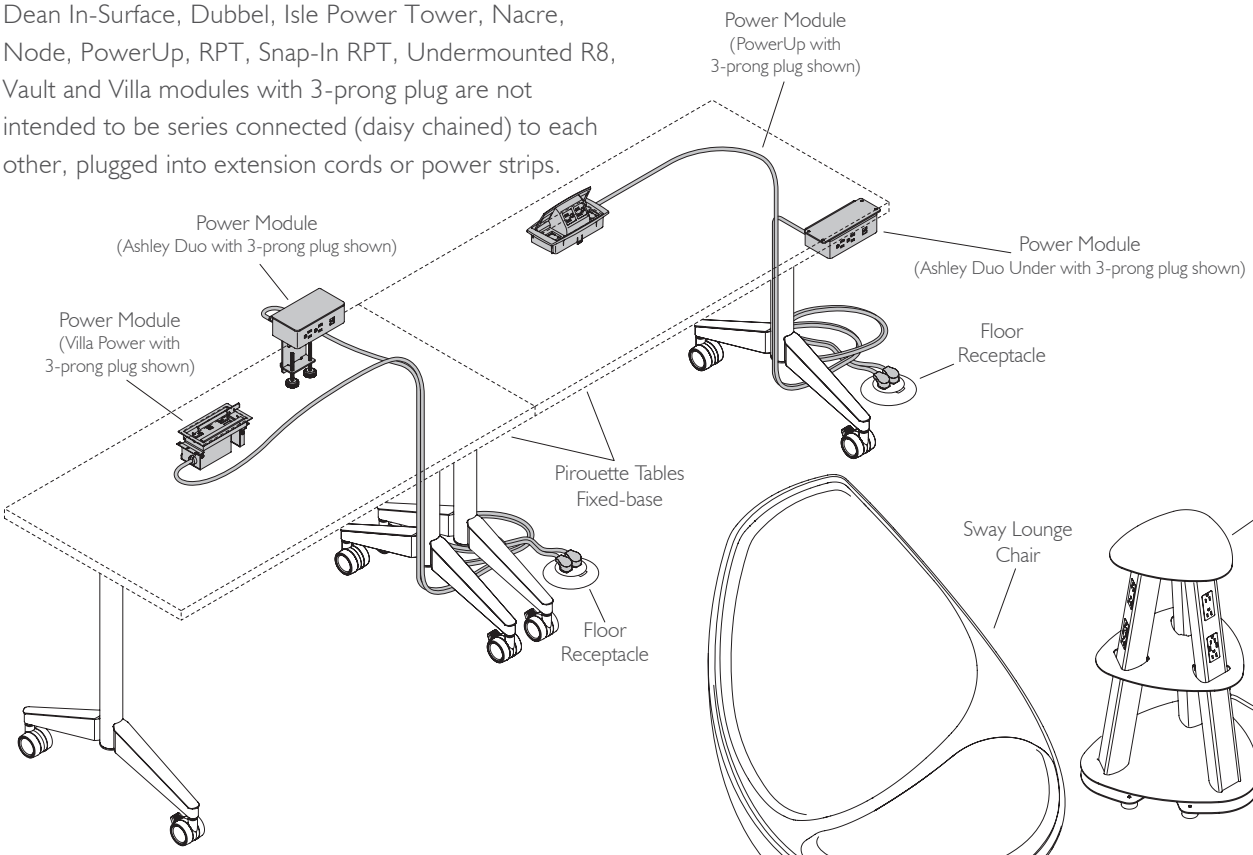
Furniture to be highly flexible as space must accommodate consistent reconfigurations.

WARNING

4-Port, Ashley Duo, Ashley Duo Under, Dean Clamp-On, Dean In-Surface, Dubbel, Isle Power Tower, Nacre, Node, PowerUp, RPT, Snap-In RPT, Undermounted R8, Vault and Villa modules with 3-prong plug are not intended to be series connected (daisy chained) to each other, plugged into extension cords or power strips.

PRODUCT RECOMMENDATIONS

- PowerUp module with 3-prong plug.
- Villa power module with 3-prong plug.
- Isle Power Tower.
- Ashley Duo or Ashley Duo Under with 3-prong plug.
- Dean In-Surface power module with 3-prong plug.
- Dean Clamp-On power module with 3-prong plug.
- Nacre In-Surface Pop-Up power module with 3-prong plug.
- Dubbel Undersurface power module with 3-prong plug.
- Node In-Surface power module with 3-prong plug.
- 4-port power module with 3-prong plug.
- Vault power module with 3-prong plug.
- Undermounted R8 power module with 3-prong plug.
- RPT module with 3-prong plug.



Level 1 - Pirouette Tables with Power Modules with 3-Prong Plugs

Level 1 - Isle Power Tower & Sway Lounge Chair

INTRODUCTION TO
POWER OPTIONS

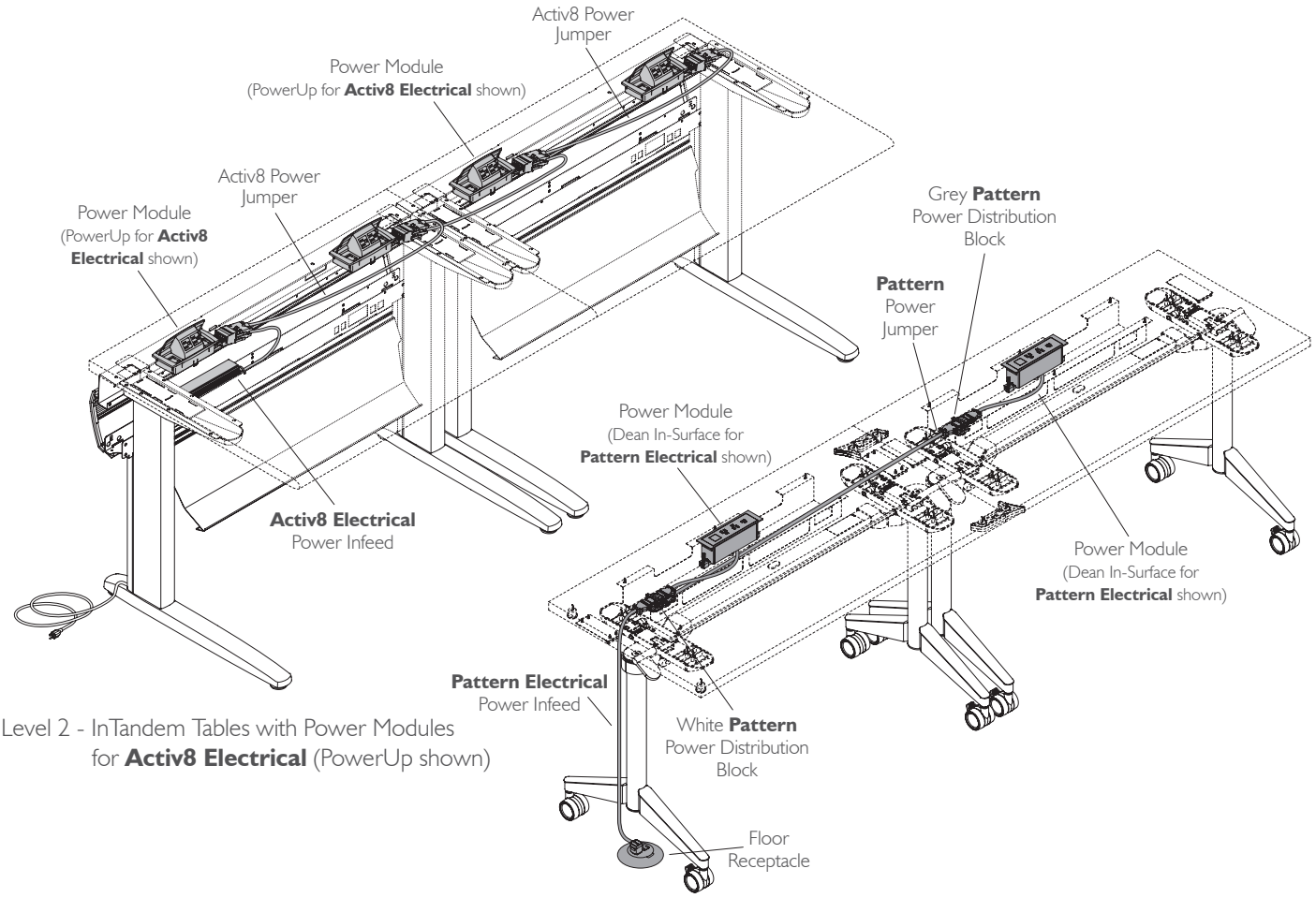
LEVEL 2

CUSTOMER NEEDS

- Users will need access near tabletop to plug in their equipment (laptops/tablets).
- Power infeed (3-prong plug) to plug into building receptacle or one of the 10-wire electrical system receptacles.
- Single circuit infeed (15-amp) meets anticipated amp requirements.
- Power modules are connected together with jumpers powered from a single building receptacle.
- Ganging of furniture is required, limiting the flexibility of reconfigurations.
- Ease of use as jumpers can be disconnected without need of installation crew or electrician.

PRODUCT RECOMMENDATIONS

- Activ8 Electrical System installs within various table systems as well as Trellis.
- Pattern Electrical System is currently available with Pirouette Tables.



Level 2 - InTandem Tables with Power Modules for **Activ8 Electrical** (PowerUp shown)

Level 2 - Pirouette Tables with Power Modules for **Pattern Electrical (**Dean In-Surface shown)

INTRODUCTION TO
POWER OPTIONS

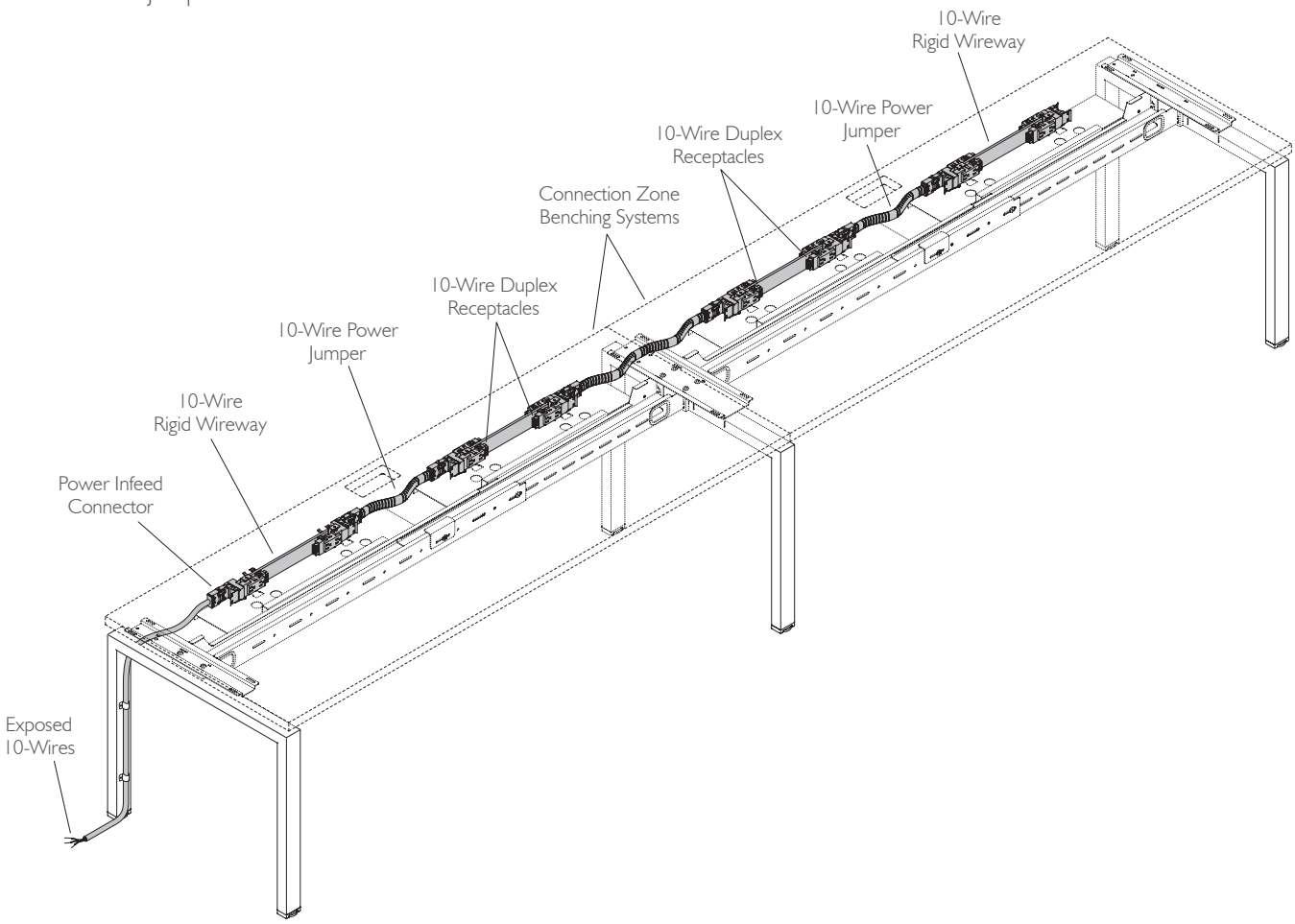
LEVEL 3

CUSTOMER NEEDS

- Space supports larger quantity of desktop computers.
- Each circuit is rated up to 20 amps. The 6-2-2 system has six circuits. The 4-4-2 system has four circuits.
- Multi-circuit infeed will be hard wired to building power source by electrician.
- Space is not anticipated to change so furniture will be stationary.
- 10-wire rigid wireways with 10-wire duplex receptacles are attached together by use of 10-wire table-to-table jumpers.

PRODUCT RECOMMENDATIONS

- 10-Wire – Installs within select powered tables (within wire trough), Connection Zone Benching or Trellis.



Level 3 - Connection Zone Benching with 10-Wire Rigid Wireway

POWER DISTRIBUTION SYSTEMS
ACTIV8 ELECTRICAL SYSTEM

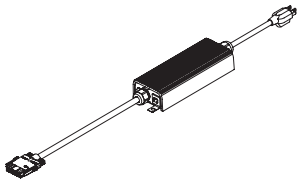
WHAT IS ACTIV8?
Activ8 is a single circuit, connectible power distribution system with a three-prong plug equipped infeed. Five module styles are available (see Statement of Line below).

HOW DOES ACTIV8 WORK?
Customers simply plug the power infeed into a wall or floor receptacle. No electrician is needed. Jumpers connect from table-to-table to carry power across multiple pieces of furniture.

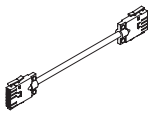
IMPORTANT INFORMATION
- Infeed can connect anywhere in the run, it does not have to be at one end.
- All components are ordered separately. Don't forget infeeds, jumpers, and modules.
- Activ8 is not sequenced, meaning other than the infeed, the furniture doesn't have to be configured in any specific order.
- Use of a powered system, including Activ8, requires that the tables be mechanically ganged together.
- Activ8 requires a wire management solution. Options include horizontal Velcro managers and under-surface troughs.

WARNINGS
- Infeed plugs into a building receptacle.
- Activ8 infeed cannot be used in conjunction with a ground fault interrupter. GFI/GFCI receptacles are found in locations near water, such as kitchens, bathrooms, laboratories, break rooms, etc.
- Backup systems (i.e. uninterruptable power supply) may affect Activ8 functions, including devices that have built-in ground fault sensing systems.
- Activ8 can connect a maximum of eight modules (above and below surface) or extend 40 feet after the infeed, whichever limit is reached first.
- Activ8 is a 15-amp single circuit system, however continuous use load should not exceed 80%. Therefore only load to 12 amps of draw if current is expected to continue for three or more hours at a time. See page 33 for average draw amounts by unit type.
- Reconfigurations may need extra jumpers and infeeds to achieve various desired layouts.
- If the room will have multiple layouts, verify building power source locations for each potential layout.

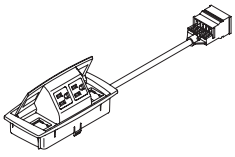
STATEMENT OF LINE



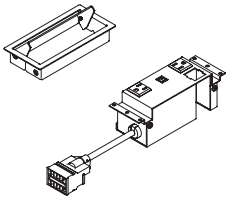
Activ8 Electrical Power Infeed



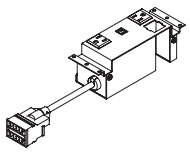
Activ8 Power Jumper



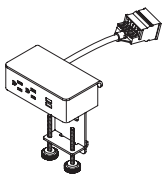
PowerUp Module for **Activ8 Electrical**



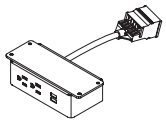
Villa Power Module with Cover for **Activ8 Electrical**



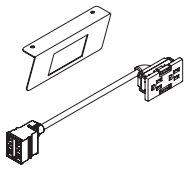
Villa Power Module for **Activ8 Electrical**



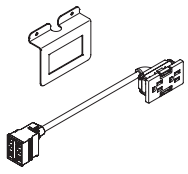
Ashley Duo Power Module for **Activ8 Electrical**



Ashley Duo Under Power Module for **Activ8 Electrical**



RPT (Relocatable Power Tap) Module for **Activ8 Electrical** with RPT Bracket



RPT (Relocatable Power Tap) Module for **Activ8 Electrical** with RPT Bracket (InTandem)

POWER DISTRIBUTION SYSTEMS

PATTERN ELECTRICAL SYSTEM

WHAT IS PATTERN?

Pattern is a single circuit, connectible power distribution system with a three-prong plug equipped power infeed. Six module styles are available (see Statement of Line below).

HOW DOES PATTERN WORK?

Customers simply plug the power infeed into a wall or floor receptacle. No electrician is needed. Jumpers and distribution blocks connect from table-to-table to carry power across multiple pieces of furniture.

IMPORTANT INFORMATION

- Modules can be specified on preconfigured models or ordered separately, depending on the product (please ensure worksurface has proper cut out sizes to support modules). Jumper kits and infeed kits are ordered separately.
- Power infeed can connect anywhere in the run, it does not have to be at one end.
- Power infeed can be used in conjunction with a ground fault interrupter. GFI/GFCI receptacles are typically found in locations near water, such as kitchens, bathrooms, laboratories, break rooms, etc.
- Pattern is not sequenced, meaning other than the infeed, the furniture doesn't have to be configured in any specific order.

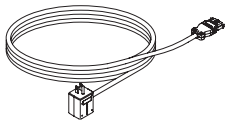
IMPORTANT INFORMATION (CONT.)

- Use of a powered system, including Pattern, requires the tables be mechanically ganged together.
- Pattern requires a wire management solution. Options include horizontal Velcro managers and under-surface troughs.

WARNINGS

- Power infeed plugs into a building receptacle.
- Pattern can connect a maximum of 10 distribution blocks and 600" (50') of jumper from the power infeed (in either direction), whichever limit is reached first.
- Pattern is a 15-amp single circuit system, however, continuous use load should not exceed 80%. Therefore only load to 12 amps of draw if current is expected to continue for three or more hours at a time. See page 33 for average draw amounts of unit type.
- If the room will have multiple layouts, verify building power source locations for each potential layout.

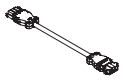
STATEMENT OF LINE



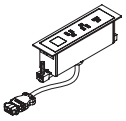
Pattern Electrical Power Infeed



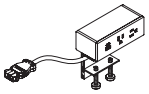
Pattern Power Distribution Block



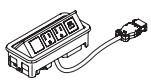
Pattern Power Jumper



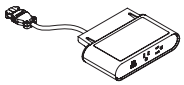
Dean® In-Surface Power Module for **Pattern Electrical**



Dean® Clamp-On Power Module for **Pattern Electrical**



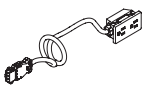
Nacre® In-Surface Pop-Up Module for **Pattern Electrical**



Dubbel Undersurface Power Module for **Pattern Electrical**



Node In-Surface Power Module for **Pattern Electrical**



Snap-In RPT Power Module for **Pattern Electrical**

POWER DISTRIBUTION SYSTEMS

SINGLE CIRCUIT ACTIV8 & PATTERN ELECTRICAL SYSTEM - SPECIFICATION QUESTIONS

QUESTION	WHY WE ASK
Do you have a building drawing/shell or furniture layout?	Having a building shell to design around will make it more efficient for CAD to provide an appropriate layout. A shell should have accurate measurements and power source locations identified.
Where are the power sources located?	Power source locations affect the number of infeeds needed to achieve certain layouts.
Does the site have the ability to add more power sources?	New construction planning allows for the ability to install power sources where needed, vs. existing buildings which may or may not have the option of adding new power sources, or adding wires to existing location(s).
How many tables will be in the space? What sizes will they be?	The number and size of tables to be used will determine how many infeeds, jumpers, and modules will be needed, as well as jumper lengths.
What items will be using the power?	Activ8 and Pattern are a 15-amp system, which means the maximum continuous use load is no more than 12 amps of draw to the system. Occasional use can load up to 15 amps of draw. See page 33 for average draw amounts by unit type.
Does the furniture's power receptacles need to be above the surface, below the surface, or both?	This will determine the type of module used. The above surface power will use Ashley Duo, PowerUp or Villa style receptacles for Activ8 Electrical and Dean In-Surface, Dean Clamp-On, Nacre In-Surface Pop-Up and Node In-Surface for Pattern Electrical. Below surface will use the Ashley Duo Under or RPT for Activ8 Electrical and Dubbel Undersurface and Snap-In RPT for Pattern Electrical.
How many modules will be needed total and how many per surface?	Activ8 and Pattern have some limitations. Activ8 offers up to eight modules total to connect to each infeed, or extend to 40 feet, whichever comes first. Pattern offers up to ten distribution blocks to connect to each infeed, and up to 600" of power jumpers from the power infeed (in either direction), whichever comes first. Number of above surface modules will also determine the cutouts needed in the surface.

NOTE

Activ8 and Pattern electrical are not a standard option on Flatscreen Garage or Smartlift, because these tables are designed to hold desktop computers along with other mechanical devices (motor, locking control box, etc.), and in most instances the power requirements will exceed the maximum amp capacity of Activ8 and Pattern electrical.

POWER DISTRIBUTION SYSTEMS

SINGLE CIRCUIT ACTIV8 & PATTERN ELECTRICAL SYSTEM - COMPARISON

	Activ8	Pattern
Amperage	15-amp, single circuit. *Continuous use load should not exceed 80% (12 amps).	15-amp, single circuit. *Continuous use load should not exceed 80% (12 amps).
Construction	Power jumper and infeed connectors built into the power modules.	Power jumper and infeed connectors (distribution blocks) are separate components. Distribution blocks do not need to be specified separately and are included with table-to-table power jumper and infeed kits.
System Limitations	Eight modules or 40' total of table-to-table power jumpers, whichever comes first.	Ten distribution blocks or 600" (50') of table-to-table power jumpers from the infeed, so up to 600" (50') each direction, whichever comes first.
Power Module Styles	• PowerUp • Villa • Ashley Duo Clamp-On • Ashley Duo Under Surface • RPT (below surface)	• Dean® In-Surface • Dean Clamp-On • Nacre® In-Surface Pop-Up • Dubbel Undersurface • Node In-Surface • Snap-In RPT (below surface)
Infeed can Connect Anywhere in Run?	Yes	Yes
Table-to-Table Jumper Lengths	29", 53", 77", 101"	29", 53", 75", 101"
GFCI Compatible Infeed?	No	Yes
Backup System Compatible? (i.e. UPS)	No	Yes
Compliance Certification	UL Recognized Electrical Components (USA/Canada). UL Listed Electrical System - when evaluated with UL Listed end product (USA/Canada).	Intertek (ETL) Listed Furniture Power Distribution Unit System (USA/Canada).

*UL and Intertek (ETL) are both OSHA approved Nationally Recognized Testing Laboratories (NTRL's) providing certification for products in the furniture industry. Intertek evaluates products to the same safety standards as UL. Both are accepted by Authority's Having Jurisdictions (Inspectors).

10-WIRE ELECTRICAL SYSTEM

WHAT IS 10-WIRE?

10-wire is a multi-circuit power distribution system. The infeed is wired to the building power by an electrician.

HOW DOES 10-WIRE WORK?

An Electrician MUST install a 10-wire infeed.
Installers may install the rest of the components.
KI recommends CAD drawings for all 10-wire layouts.

IMPORTANT INFORMATION

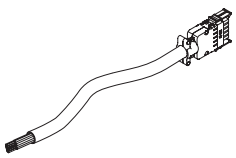
- All components are ordered separately. Don't forget top or base infeeds, jumpers, wireways, and receptacles.
- 6-2-2 System (T6) is the KI system used on tables. It offers the greatest number of potential circuits (6).
- KI offers a 4-4-2 System (T4) on select products. Be aware that 6-2-2 and 4-4-2 configurations require unique modular components, such as jumpers and rigid wireways. Since wires are not visible, components for both systems appear identical.
- UL color coded labels either green (6-2-2) or light blue (4-4-2) are attached to components for identification.
- 6-2-2 and 4-4-2 modular components cannot be used together.
- Some buildings may be equipped with eight wires. The 6-2-2 wire configuration can still be used. The electrician will not power up circuits #5 and #6. Wiring diagrams to review with the electrician are on pages 29, 30, 31 and 32.

WARNINGS

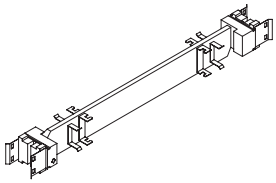
- Always get a CAD drawing and have it double checked.
- Each circuit is 20-amp rated, however continuous use load should not exceed 80%. Therefore, only load to 16 amps of draw per circuit if current is expected to continue for three or more hours at a time. See page 33 for average draw amounts by unit type.
- Each duplex receptacle is rated at 15-amps.
- Always present the wiring schematics to an electrician to determine the correct 10-wire system and components to specify. Schematics are located on pages 29, 30, 31 and 32.
- Relocation, or disconnection, of the infeed requires an electrician.
- Three phase electrical is the only system that accommodates all six circuits of 10-wire electrical. Verify if building has single phase or three phase power.
- The term "Hardwire" is often confused with other electrical systems (i.e. 10-wire) where an electrician is wiring furniture to a building electrical source. KI's Hardwire option is intended to meet City of Chicago electrical code and contains no multi-circuit electrical components.

EXCEPTIONS

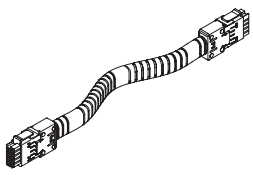
- City of Chicago electrical code prohibits use of 10-wire power distribution system. Hardwire applications are available to meet this requirement. Tables specified as hardwire electrical contain no multi-circuit electrical components. An electrician must supply all electrical parts.
- City of New York electrical code requires use of a junction box within the furniture at the infeed location. All other 10-wire electrical parts are acceptable for use, provided they have been approved for use by the City of New York Bureau of Electrical Controls.



10-Wire Power Infeed



10-Wire Rigid Wireway



10-Wire Table-to-Table Jumper



15-Amp 10-Wire Duplex Receptacle

POWER DISTRIBUTION SYSTEMS

10-WIRE ELECTRICAL SYSTEM - SPECIFICATION QUESTIONS

QUESTION	WHY WE ASK
Do you have a building shell or layout?	Having a building shell to design around will make CAD work much more efficient. A shell should have accurate measurements and power source locations identified. The number and size of tables to be used will determine how many infeeds and modules will be needed.
Where are the power sources located?	Power may come from the floor, wall or ceiling. Power source placement affects the number of infeeds and type of infeed (base or top feed) needed to achieve desired layouts.
Does the site have the ability to add more power sources or additional circuits within existing locations?	New construction planning allows for the ability to install power sources where needed, vs. existing buildings which may or may not have the option of adding new power sources, or adding wires to existing location(s).
What items will be using the power?	Each circuit is 20-amp rated, however continuous use load should not exceed 80%. Therefore, only load to 16 amps of draw per circuit if current is expected to continue for three or more hours at a time. See page 33 for average draw amounts by item type.
Does the furniture's power receptacles need to be above the surface, below the surface, or both?	This will determine the type of module used. Above surface will use Ashley Duo, PowerUp or Villa Power modules. Below surface will use wireway mounted duplex receptacles, Ashley Duo Under or RPT modules.
How many duplex receptacles will be needed total and how many per surface?	Receptacle counts are necessary to ensure the correct cutouts are specified in the worksurfaces and all users and equipment will have access to required power.
Does the building have three phase or single phase power?	Three phase building electrical is the only system that can accommodate all six circuits available with 10-wire. Single phase can use our 6-2-2 system with fewer circuits available. See wiring diagrams on pages 29, 30, 31 and 32.

POWER DISTRIBUTION SYSTEMS
HARDWIRED ELECTRICAL SYSTEM

WHAT IS HARDWIRED ELECTRICAL?

Non-powered KI furniture with cutouts for power to be added in the field. City of Chicago electrical code prohibits the use of 10-wire power distribution systems. Hardwired applications are available to meet this requirement.

HOW DOES HARDWIRED ELECTRICAL WORK?

Tables and other furniture are made with appropriate electrical cutouts or junction boxes. The customer's own electrician is required to supply receptacles, wires and connections.

WARNINGS

Tables specified as Hardwired electrical contain no receptacles or wires. An electrician must supply most of the electrical parts, and verify the integrity of the system.

The term “Hardwired” is often confused with other electrical systems (i.e. 10-wire) where an electrician is wiring furniture to a building electrical source. KI’s Hardwired option is intended to meet City of Chicago electrical code and contains no multi-circuit electrical components.

SPECIFICATION QUESTIONS

QUESTION	WHY WE ASK
Where will product be installed?	Because the Hardwired electrical option is specific to the City of Chicago electrical code, we ask to confirm install locations, to be sure another electrical system would not be more appropriate.

POWER DISTRIBUTION SYSTEMS
TRELLIS

WHAT IS TRELLIS?
Trellis is a raised power and data distribution system, used to bring power into any space that needs more receptacles and data.

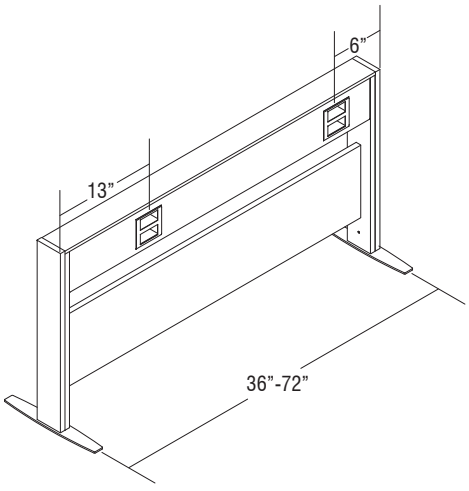
HOW DOES TRELLIS WORK?
Trellis can utilize the Activ8, 10-Wire, or Hardwired electrical systems to deliver power. Trellis is essentially a stand-alone power beam.

IMPORTANT INFORMATION
For typicals and diagrams, please refer to the Trellis System Planning Guide.

WARNINGS
- "Hardwired" version is available on Trellis and contains no receptacles or wires. An electrician is to supply all electrical parts except receptacle boxes (appropriate for City of Chicago electrical code).
- If 10-Wire is needed, do not specify "Hardwired", specify T6 power.
- Receptacle cutouts are not the same for 10-Wire (T6), Activ8, or Hardwired. Be sure to specify the right style of power needed as parts are not interchangeable.

SPECIFICATION QUESTIONS

QUESTION	WHY WE ASK
How should this be powered?	Trellis can support 10-Wire, Activ8, and Hardwired applications (Chicago code). See page 5 for Activ8, page 9 for 10-wire info and page 11 for hardwired.
How many receptacles will be needed per Trellis chase?	The Trellis chase type & width will determine how many receptacles are available per side. Hardwired Electrical and 10-wire Trellis units which are 24" and 30" wide will have one opening per side, while 36" through 72" wide units of this type receive two receptacles per side. Trellis units with Activ8 which are 24" through 54" wide will have one opening per side, while 60" through 72" wide units receive two receptacles per side.



POWER MODULES
POWERUP

PowerUp is a surface mounted power and data module, which when closed is nearly flush with the tabletop. When opened, the module flips up providing easy plug-in access to angled receptacles and data ports.

The PowerUp module's closed plastic cover has a finger indent on it which can be pushed to activate a dampened, spring-loaded mechanism and flip the module open for use. Press at the detent to close and it snaps into place for storage.

Module fits securely into a 6 1/4" x 3" cut out, still allowing removal without tools.

Two power receptacles and two openings for customer provided data jacks per module.

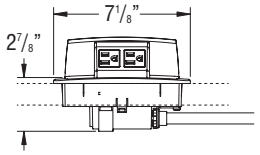
Constructed of polycarbonate with a textured finish.

PowerUp is available in three versions, one with a connector end for the Activ8 electrical system, a power cord version with 3-prong plug (for connection to a building receptacle or to 10-wire electrical system) and a hardwired connector end version (such as for Chicago code).

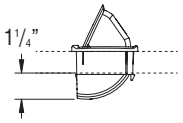
The 3-prong plug is oriented on a 90 degree angle and offers modules with either 36", 108" or 180" power cords.

A drop-in USB charging port can fit into data opening – see page 27 for Drop-In USB Charger (must be plugged into a separate power source).

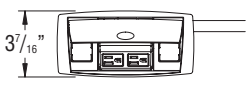
Snap-in data adaptor brackets are supplied to hold the most common data connectors. The data connectors are purchased by the customer.



Front View



Side View



Top View

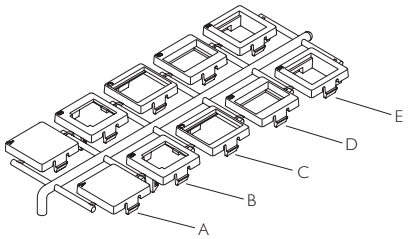
WARNING

PowerUp modules with 3-prong plug are not intended to be series connected (daisy chained) to each other, plugged into extension cords or power strips.

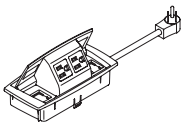
DATA ADAPTER BRACKET TREE

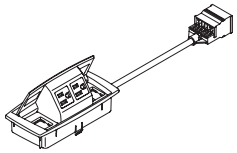
Customer selects the appropriate data plate for the phone/data jack to be used (see chart). Jacks are sold by separate companies and not supplied with the module. The chart below is a guide listing some of the more common jacks, and not intended to be all-inclusive.

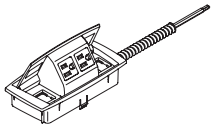
Data Plate Letter	Opening Size	Phone/Data Jack
A	None	Blank
B	0.635" x 0.730"	Panduit "CJ"
C	0.670" x 0.929"	Ortronics "TrakJack"
D	0.585" x 0.780"	Panduit "KJ" and "KJA", AMP CAT-3 and CAT-5, Hubbel "HD5", Otronics "OR-6295003-T568B" and "OR-6295004-T568A", Krone, Leviton "41108-RE5"
E	0.680" x 0.710"	AT&T

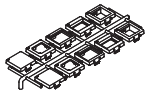


(Part # for Data Tree is #46.0151. Data Tree is automatically included with PowerUp modules, Sequence Power & Data modules and Concerto Seating with Power & Data.)


PowerUp Module with **3-Prong Plug**


PowerUp Module for **Activ8 Electrical**


PowerUp Module for **Hardwire Applications**


Data Adapter Bracket Tree (Part # 46.0151)

POWER MODULES
VILLA

Villa is a surface power module that mounts below a 6 1/4" x 3" grommet cutout. Receptacles are accessible when grommet cover is open.

Villa power includes two simplex power receptacles and two USB charging ports, along with one opening for a customer supplied data jack.

An additional receptacle is located under the module, under the worksurface on the 3-prong plug version.

Metal grommet cover features a hinged lid. Metal grommet can be powdercoated and is available in metallic paint. Grommet fits into KI power cutout.

Cover can be specified for use as a grommet cover only, or as a cover for the Villa module.

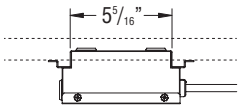
Villa is available with a connector end for the Activ8 electrical system and a power cord version with 3-prong plug (for connection to a building receptacle or to 10-wire electrical system).

The 3-prong plug is oriented on a 90 degree angle and offers modules with either 36", 108" or 180" power cords.

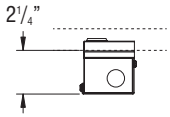
Snap-in data adaptor brackets are supplied to hold the most common data connectors. The data connectors are purchased by the customer.

WARNING

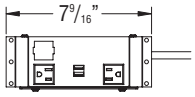
Villa modules with 3-prong plug are not intended to be series connected (daisy chained) to each other, plugged into extension cords or power strips.



Front View



Side View

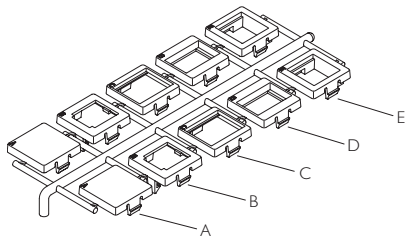


Top View

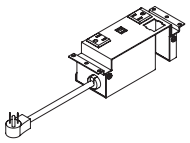
DATA ADAPTER BRACKET TREE

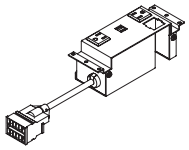
Customer selects the appropriate data plate for the phone/data jack to be used (see chart). Jacks are sold by separate companies and not supplied with the module. The chart below is a guide listing some of the more common jacks, and not intended to be all-inclusive.

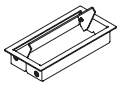
Data Plate Letter	Opening Size	Phone/Data Jack
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C	0.670" x 0.929"	Ortronics "TrakJack"
D	0.585" x 0.780"	Panduit "KJ" and "KJA", AMP CAT-3 and CAT-5, Hubbel "HD5", Otronics "OR-6295003-T568B" and "OR-6295004-T568A", Krone, Leviton "41108-RE5"
E	0.680" x 0.710"	AT&T

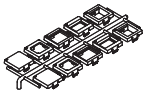


(Part # for Data Tree is #46.0151. Data Tree is automatically included with PowerUp modules, Sequence Power & Data modules and Concerto Seating with Power & Data.)


Villa Power Module with **3-Prong Plug**


Villa Power Module for **Activ8 Electrical**


Villa Grommet Cover


Data Adapter Bracket Tree (Part # 46.0151)

POWER MODULES
ASHLEY DUO

Ashley Duo is available in two designs: The “Above Worksurface Model” and “Below Worksurface Model.”

The “Above Worksurface Model” is designed to install at the back side, clamping to the underside of a $^{3}/_{4}$” to $1^{1}/_{2}$” thick worksurface, presenting the unit 1.20” above the worksurface.

Ashley Duo Under, “Below Worksurface Model” is designed to mount under the surface at the front, user side of a worksurface using four screws.

Ashley Duo power includes two power receptacles and two USB charging ports.

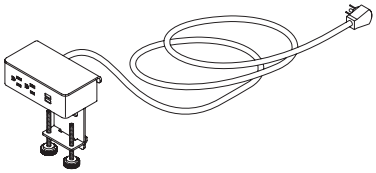
Each USB port utilizes a Smart Device Recognition Chip to monitor and independently deliver the required amperage to your devices, up to 2.1 amps each.

Ashley Duo and Ashley Duo Under power modules are available with a connector end for the Activ8 electrcial system and a power cord version with 3-prong plug (for connection to a building receptacle or to 10-wire electrical system).

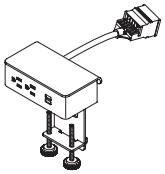
The 3-prong plug is oriented on a 90 degree angle and offers modules with either 36", 108” or 180” power cords.

WARNING

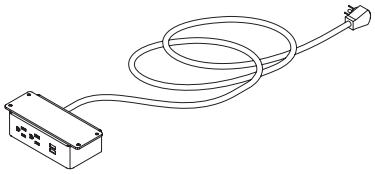
Ashley Duo and Ashley Duo Under power modules with 3-prong plug are not intended to be series connected (daisy chained) to each other, plugged into extension cords or power strips.



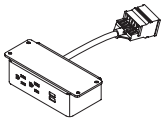
Ashley Duo Power Module with **3-Prong Plug**



Ashley Duo Power Module for **Activ8 Electrical**



Ashley Duo Under Power Module with **3-Prong Plug**



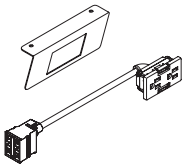
Ashley Duo Power Module for **Activ8 Electrical**

POWER MODULES
RPT

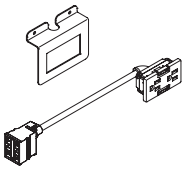
RPT Module is a relocatable power tap (a.k.a, furniture power distribution unit), duplex 15-amp equipped power receptacle. It snaps into a rectangular cutout in various brackets or KI furniture.

Two module versions are available, one with a connector to plug into the Activ8 electrical system with a RPT bracket to mount to InTandem, and the other option is with a connector to plug into the Activ8 electrical system with a RPT bracket to mount to all other tables.

The module is always mounted vertically into an under-surface bracket, a stanchion or trough. It may not be surface mounted horizontally.



RPT (Relocatable Power Tap) Module for **Activ8 Electrical** with RPT Bracket



RPT (Relocatable Power Tap) Module for **Activ8 Eletrical** with RPT Bracket (InTandem)

POWER MODULES
DEAN

Dean is available in two styles: The KI standard "in-surface model" and the "above surface clamp-on model".

The above surface model is designed to install at the back side, clamping to the underside of a 3/4" to 1 1/2" thick worksurface, presenting the unit 3 1/2" above the worksurface.

Dean in-surface is designed to fit securely into a 6.31" x 1.88" cutout.

Two power receptacles, one USB-A, one USB-C and one opening for customer provided data jacks per module.

Construction of polycarbonate with an aluminum, powder coated faceplate.

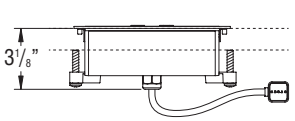
Dean is available in two versions, one with a connector end for the Pattern electrical system and a power cord version with a 3-prong plug (for connection to building receptacle or to 10-wire electrical system).

The 3-prong plug is oriented on a 90 degree angle and offers modules with either 22", 108" or 180" power cords.

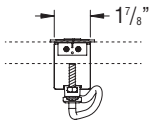
Snap-in data adaptor brackets are supplied to hold the most common data connectors. The data connectors are purchased by the customer.

WARNING

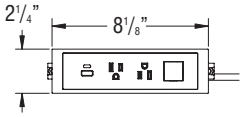
Dean modules with 3-prong plug are not intended to be series connected (daisy chained) to each other, plugged into extension cords or power strips.



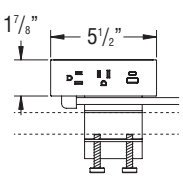
Front View



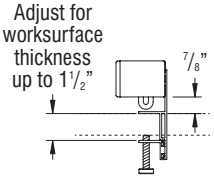
Side View



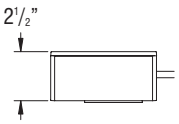
Top View



Front View



Side View



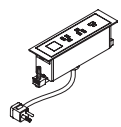
Top View

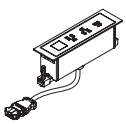
DATA ADAPTER BRACKET TREE

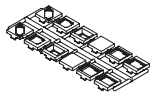
Customer selects the appropriate data plate for the phone/data jack to be used (see chart). Jacks are sold by separate companies and not supplied with the module. The chart below is a guide listing some of the more common jacks, and not intended to be all-inclusive.

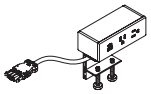
Adapter	Manufacturer	Website
BBB	L-Com Keystone Modular	www.L-Com.com
BBB	NETCONNECT, and 110 Connect Series Modular Jack	www.Anixter.com
BBB	Siemon ZMAX Style	www.Siemon.com
BBB	Allen Tel Versa Tap Series	www.Graybar.com
BBB	Leviton Quick Port® Series	www.Leviton.com
BBB	Belden REVConnect	www.Belden.com
BBB	HDMI Adapter Cable	www.Byrne.com
CCC	Hubbell Nextspeed™ Keystone Series	www.Hubbell-premise.com
CCC	ADC Truenet Series	www.Anixter.com
DDD	Blank (no coupler/jack)	
EEE	Ortronics TracJack Series	www.Ortronics.com
FFF	Panduit Mini-Com Series	www.Panduit.com
HHH	Video Monitor Jack/DB-15, panel mount solder style (VGA Connection)	www.Byrne.com

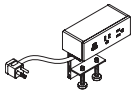
(Part # for Data Tree is #48.0738. Data Tree is automatically included with Dean In-Surface power modules.)


Dean® In-Surface Power Module with **3-Prong Plug**


Dean® In-Surface Power Module for **Pattern Electrical**


Data Adapter Bracket Tree


Dean® Clamp-On Power Module for **Pattern Electrical**


Dean® Clamp-On Power Module with **3-Prong Plug**

POWER MODULES
NACRE

Nacre is an in-surface mounted pop-up power and data module, which when closed is nearly flush with the tabletop. When opened, the module flips up providing easy plug-in access to angled receptacles and data ports.

The Nacre module is made of molded plastic with a flat cover, which can be pushed to activate a dampened, spring-loaded mechanism and flip the module open for use. Press the plastic cover to close and it snaps into place for storage.

Module fits securely in to a 6.88" x 3" cutout with .37" radius corners, still allowing removal without tools.

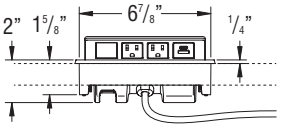
Nacre is available in two versions, one with a connector end for the Pattern electrical system and a power cord version with a 3-prong plug (for connection to building receptacle or to 10-wire electrical system).

The 3-prong plug is oriented on a 90 degree angle and offers modules with either 22", 108" or 180" power cords.

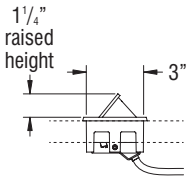
Snap-in data adaptor brackets are supplied to hold the most common data connectors. The data connectors are purchased by the customer.

WARNING

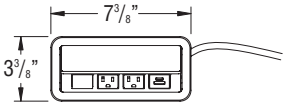
Nacre modules with 3-prong plug are not intended to be series connected (daisy chained) to each other, plugged into extension cords or power strips.



Front View



Side View



Top View

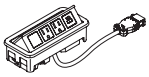
DATA ADAPTER BRACKET TREE

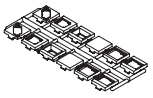
Customer selects the appropriate data plate for the phone/data jack to be used (see chart). Jacks are sold by separate companies and not supplied with the module. The chart below is a guide listing some of the more common jacks, and not intended to be all-inclusive.

Adapter	Manufacturer	Website
BBB	L-Com Keystone Modular	www.L-Com.com
BBB	NETCONNECT, and 110 Connect Series Modular Jack	www.Anixter.com
BBB	Siemon ZMAX Style	www.Siemon.com
BBB	Allen Tel Versa Tap Series	www.Graybar.com
BBB	Leviton Quick Port® Series	www.Leviton.com
BBB	Belden REVConnect	www.Belden.com
BBB	HDMI Adapter Cable	www.Byrne.com
CCC	Hubbell Nextspeed™ Keystone Series	www.Hubbell-premise.com
CCC	ADC Truenet Series	www.Anixter.com
DDD	Blank (no coupler/jack)	
EEE	Ortronics TracJack Series	www.Ortronics.com
FFF	Panduit Mini-Com Series	www.Panduit.com
HHH	Video Monitor Jack/DB-15, panel mount solder style (VGA Connection)	www.Byrne.com

(Part # for Data Tree is #48.0738. Data Tree is automatically included with Nacre power modules.)

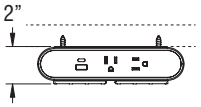

Nacre® In-Surface Pop-Up Power Module with **3-Prong Plug**


Nacre® In-Surface Pop-Up Power Module **Pattern Electrical**

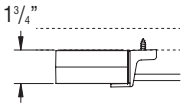

Data Adapter Bracket Tree

POWER MODULES
DUBBEL

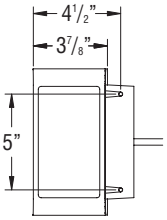
- Dubbel under surface is designed to mount under the surface at the front, user side of a worksurface using two screws.
- Dubbel power module includes two power receptacles, one USB-A and one USB-C connector ports.
- Constructed of molded plastic.
- Dubbel is available in two versions, one with a connector end for the Pattern electrical system and a power cord version with a 3-prong plug (for connection to building receptacle or to 10-wire electrical system).
- The 3-prong plug is oriented on a 90 degree angle and offers modules with either 22", 108" or 180" power cords.



Front View



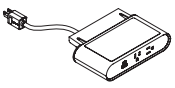
Side View



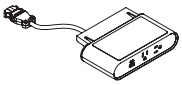
Top View

WARNING

- Dubbel modules with 3-prong plug are not intended to be series connected (daisy chained) to each other, plugged into extension cords or power strips.



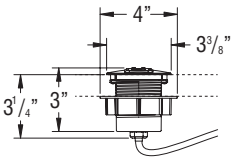
Dubbel Power Module with **3-Prong Plug**



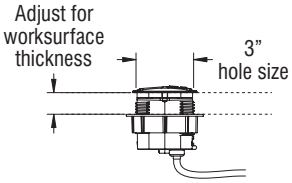
Dubbel Power Module for **Pattern Electrical**

POWER MODULES
NODE

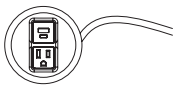
- Node is a surface mounted power module that fits securely into a 3" diameter cutout, still allowing removal without tools.
- Node power module includes one power receptacle and one USB-A and one USB-C charging ports.
- Constructed of molded plastic housing with a powder-coat painted faceplate.
- Node is available in two versions, one with a connector end for the Pattern electrical system and a power cord version with a 3-prong plug (for connection to building receptacle or to 10-wire electrical system).
- The 3-prong plug is oriented on a 90 degree angle and offers modules with either 108" or 180" power cords.



Front View

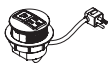


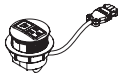
Side View


Top View

WARNING

Node modules with 3-prong plug are not intended to be series connected (daisy chained) to each other, plugged into extension cords or power strips.

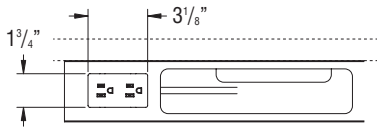

Node Power Module with **3-Prong Plug**


Node Power Module for **Pattern Electrical**

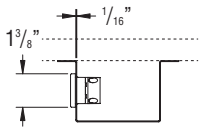
POWER MODULES
SNAP-IN RPT

Snap-in RPT is a relocatable power tap (a.k.a, furniture power distribution unit), duplex 15-amp equipped power receptacle. It snaps into a rectangular cutout on undersurface wire troughs on Pirouette tables.

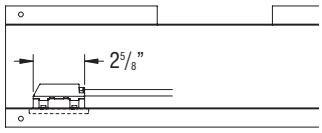
One module version is available and includes a connector to plug into the Pattern electrical system for use with undersurface wire troughs on Pirouette tables.



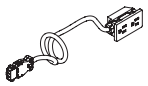
Front View



Side View

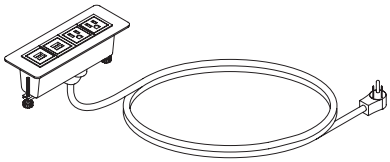


Top View


Snap-In RPT (relocatable power tap) module for **Pattern Electrical**

POWER MODULES
4-PORT

- 4-Port is a surface mounted power module, which inserts into a grommet cutout and mounts flush with the tabletop.
- Module features two power receptacles and two dual USB charging ports.
- Both USB-A ports can power and charge separate devices, simultaneously.
- Power cord length is 15'.
- Available on Serenade Gathering Tables.



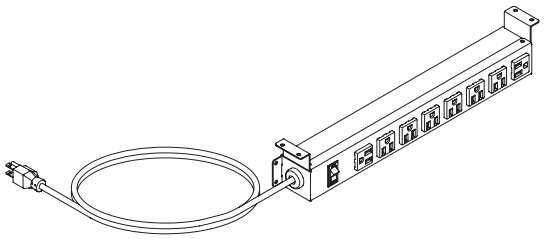
4-Port Power Module
with **3-Prong Plug**

WARNING

4-Port power modules with 3-prong plug are not intended to be series connected (daisy chained) to each other, plugged into extension cords or power strips.

POWER MODULES
UNDERMOUNTED R8

- Undemounted R8 Power Module is secured to the underside of a worksurface with four screws.
- The unit features eight power receptacles.
- Cord length is 12'.
- Module hangs down from the surface 1" to allow easier access to plug in and unplug.
- Module measures 16.3" wide by 2.3" deep by 2.8" high.
- Intended for use with Toggle and/or Workup tables. Wire trough (specified separately) conveniently conceals equipment cords plugged into the R8 module.
- Undermounted R8 Power Module is not intended to plug other electrical modules into it, such as Ashley Duo, PowerUp, or Villa.



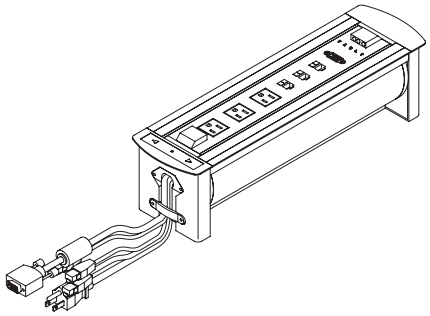
Undermounted R8 Power Module with **3-Prong Plug**

WARNING

- Undermounted R8 power modules with 3-prong plug are not intended to be series connected (daisy chained) to each other, plugged into extension cords or power strips.

POWER MODULES
VAULT MODULE

- Vault is a power and data module that inserts into and sits flush with the surface of the tabletop.
- Vault module includes three power receptacles, three data ports, one VGA connection and one HDMI connection.
- Module is opened and closed by touching red and green arrows on the surface of the module.
- Power cord length is 12'.
- Available with one or two modules as standard on Serenade Conference Table (with upcharge).



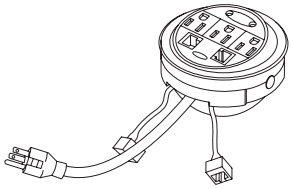
Vault Power Module
with **3-Prong Plug**

WARNING

- Vault power modules with 3-prong plug are not intended to be series connected (daisy chained) to each other, plugged into extension cords or power strips.

POWER MODULES
POWER STATION

- Power Station includes three power receptacles and two data ports (RJ45/RJ11).
- Power cord length is 10'.
- Worksurface cutout is 4 1/4" diameter.
- Available on Aristotle Conference Tables.



Power Station
with **3-Prong Plug**

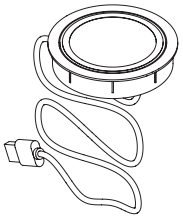
WARNING

Power Station modules with 3-prong plug are not intended to be series connected (daisy chained) to each other, plugged into extension cords or power strips.

POWER MODULES

WIRELESS POWER MODULE

- Charging module can be intergrated into a variety of spaces to conveniently power various devices without cords.
- The wireless charging module is compatible with Qi-enabled devices.
- USB cable must be plugged into separate power source.
- Available in black only.
- Cord length is $78^{3}/_{4}$".
- Grommet holes can be specified to the worksurface as a modified solution, or can be drilled in the field.

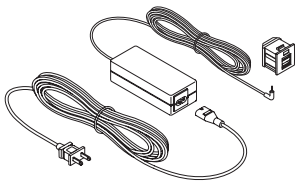


Wireless
Power Module

POWER MODULES

DROP-IN USB CHARGER

- Features two USB charging ports in one module. Designed to snap into the universal data tree ports (in place of data) in PowerUp and Villa Power modules (see pages 13 and 14).
- Two USB charging ports, 2-amps of power each.
- Must be plugged into a separate power source.
- Available in black only.
- Cord length is 72".



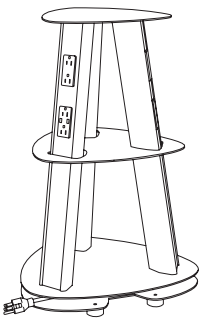
Drop-In USB Charger
with **3-Prong Plug**

POWER MODULES
ISLE POWER TOWER

- Isle Power Tower is a power delivery device. It features 360° access to a total of twelve outlets and 6 USB ports. 15-amp capacity is supported through a single 3-prong plug power source.
- Isle Power Tower is a 15-amp system, which means the maximum continuous use load is no more than 12 amps of draw to the system. Occasional use can load up to 15 amps of draw. See page 33 for average draw amounts by item type.
- Power infeed (3-prong plug) to plug into building receptacle, or one of the 10-wire electrical system receptacles.
- Two USB-A charging ports per upright (six total).
- Four 3-prong receptacles per upright (twelve total) provide continuous power.
- Three shelves support devices while charging.
- Circuit breaker for overload protection.
- Metal construction ensures stability and durability.
- Slots in the base allow user to secure the tower to the floor if stationary application is needed (security cable/lock provided by customer).
- A 108" power cord winds around the tower base featuring a magnetic catch to secure the cord when not in use.
- Black, Starlight Silver and Cottonwood finish options.
- Unit is 25.5" tall x 18" at the widest point.
- Designed to fit under standard height tables.

WARNING

- Isle Power Towers are not intended to be series connected (daisy chained) to each other, plugged into extension cords or power strips.

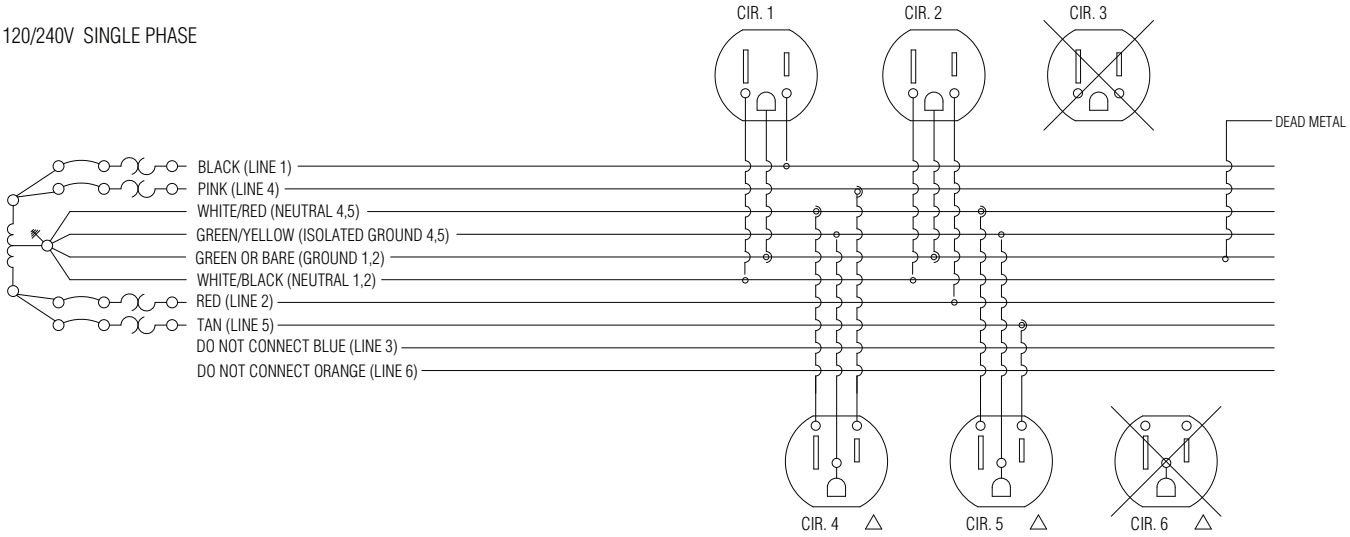


6-2-2 CONNECTION DIAGRAMS

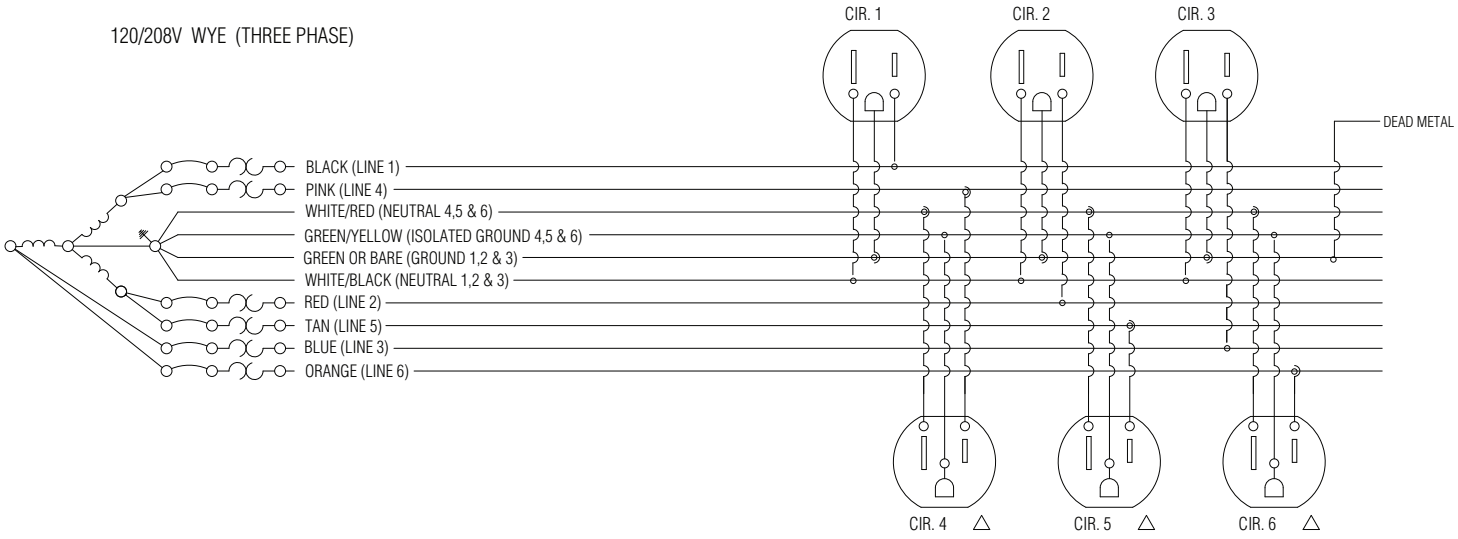
10-WIRE ELECTRICAL

Below are wiring schematics to be provided to customer's electrician to validate whether building power is single phase or three phase and to determine which circuits are to be used within the furniture plan.

120/240V SINGLE PHASE



120/208V WYE (THREE PHASE)

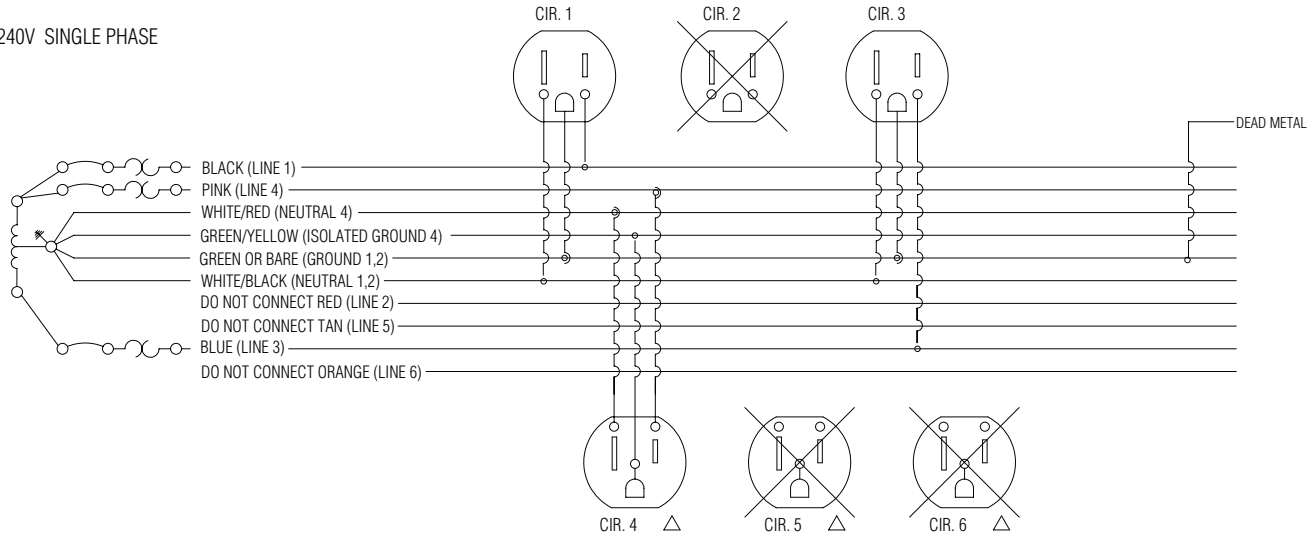


6-2-2 CONNECTION DIAGRAMS

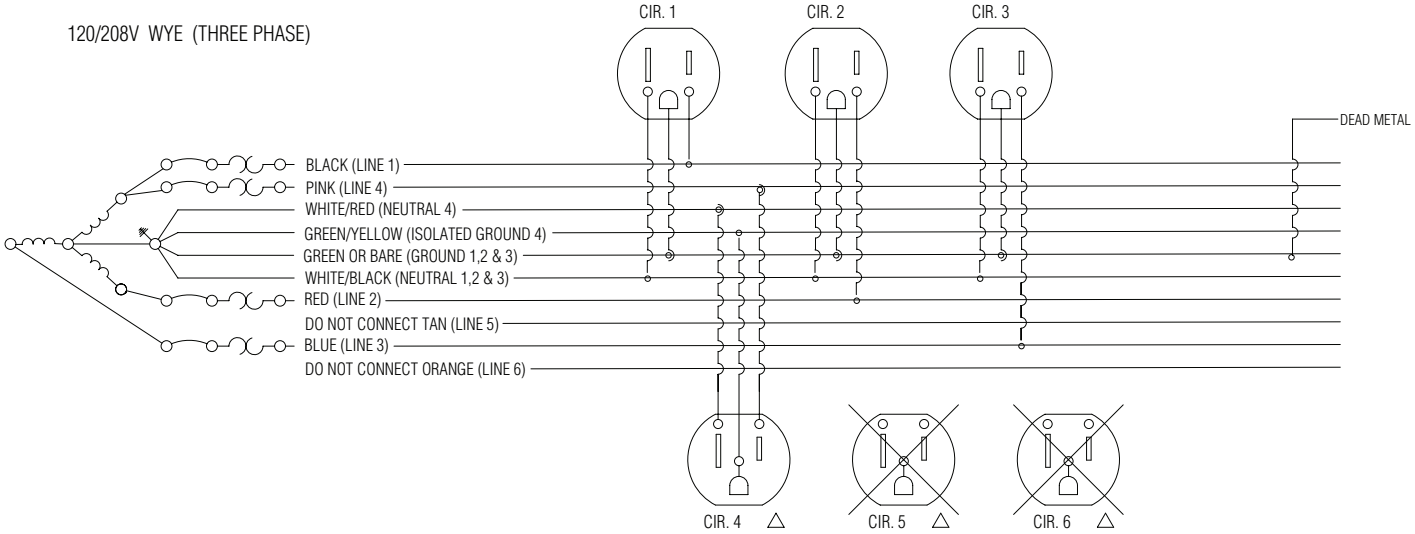
8-WIRE ELECTRICAL
(10-WIRE SYSTEM BEING CONNECTED TO 8-WIRE BUILDING)

Below are wiring schematics to be provided to customer's electrician to validate whether building power is single phase or three phase and to determine which circuits are to be used within the furniture plan.

120/240V SINGLE PHASE



120/208V WYE (THREE PHASE)

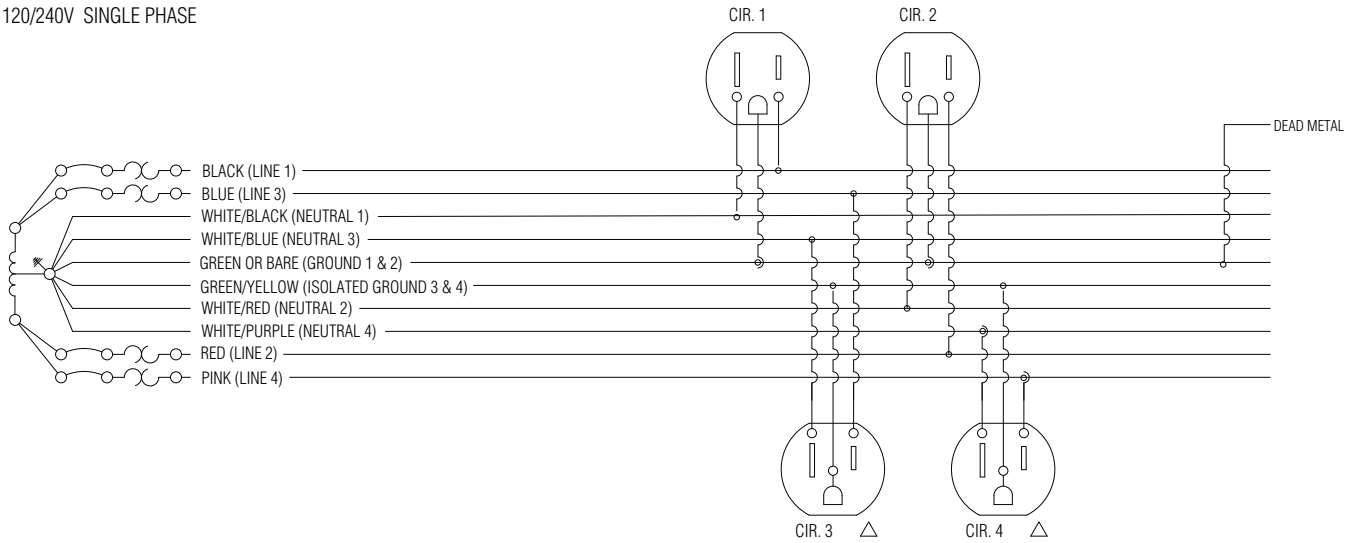


4-4-2 CONNECTION DIAGRAMS

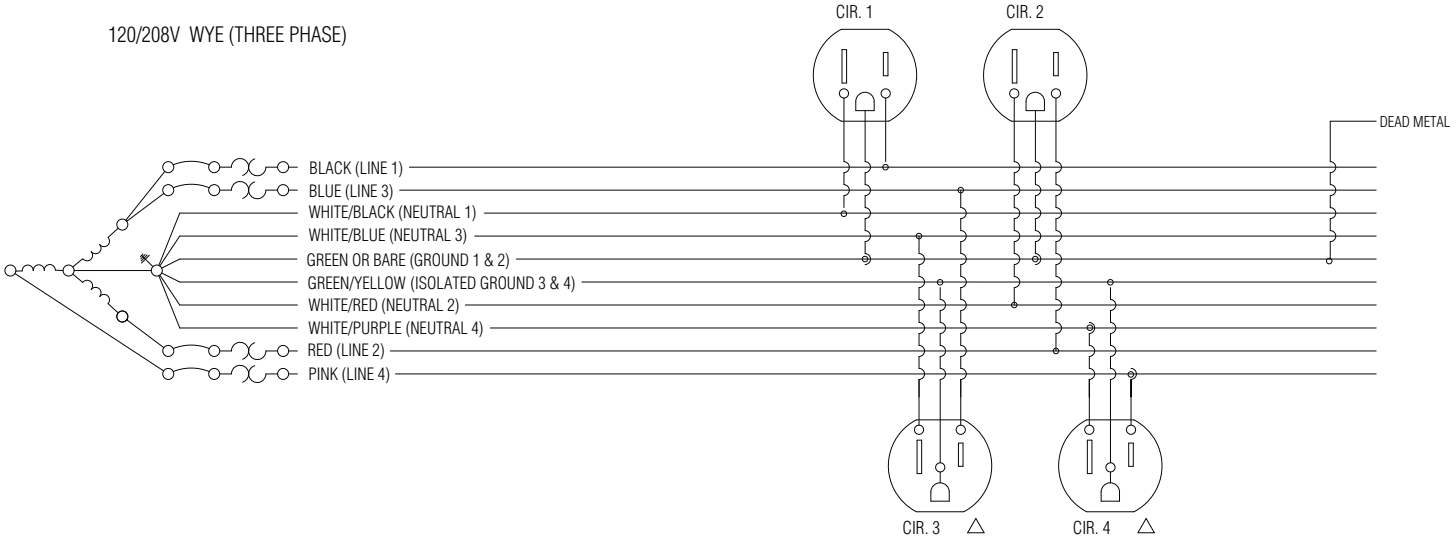
10-WIRE ELECTRICAL

Below are wiring schematics to be provided to customer's electrician to validate whether building power is single phase or three phase and to determine which circuits are to be used within the furniture plan.

120/240V SINGLE PHASE



120/208V WYE (THREE PHASE)

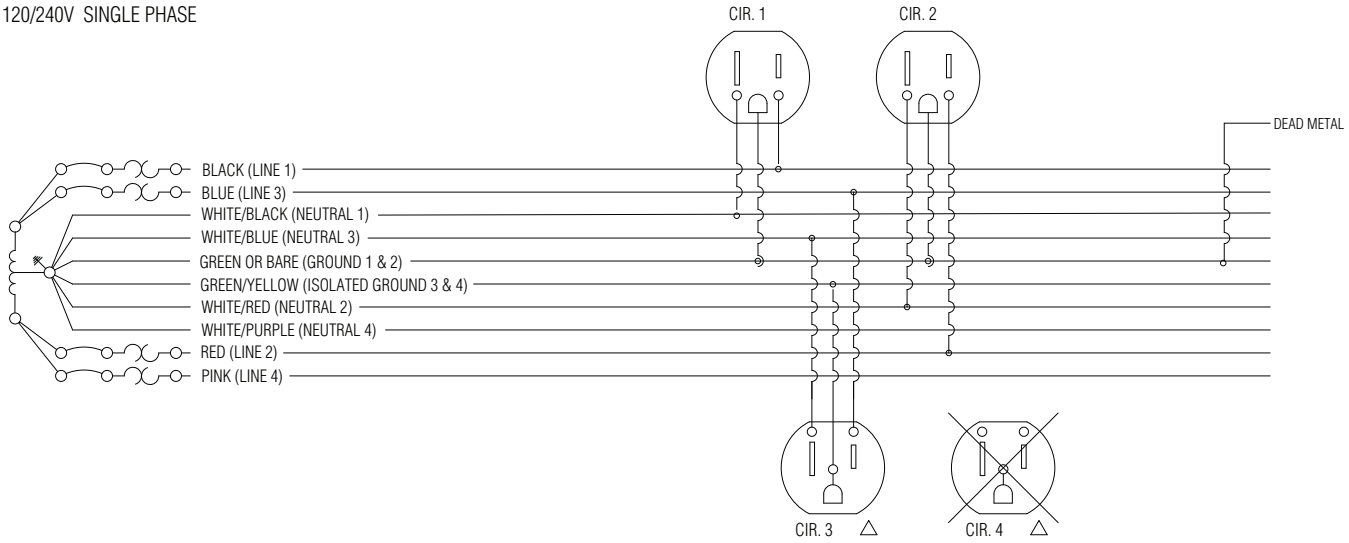


4-4-2 CONNECTION DIAGRAMS

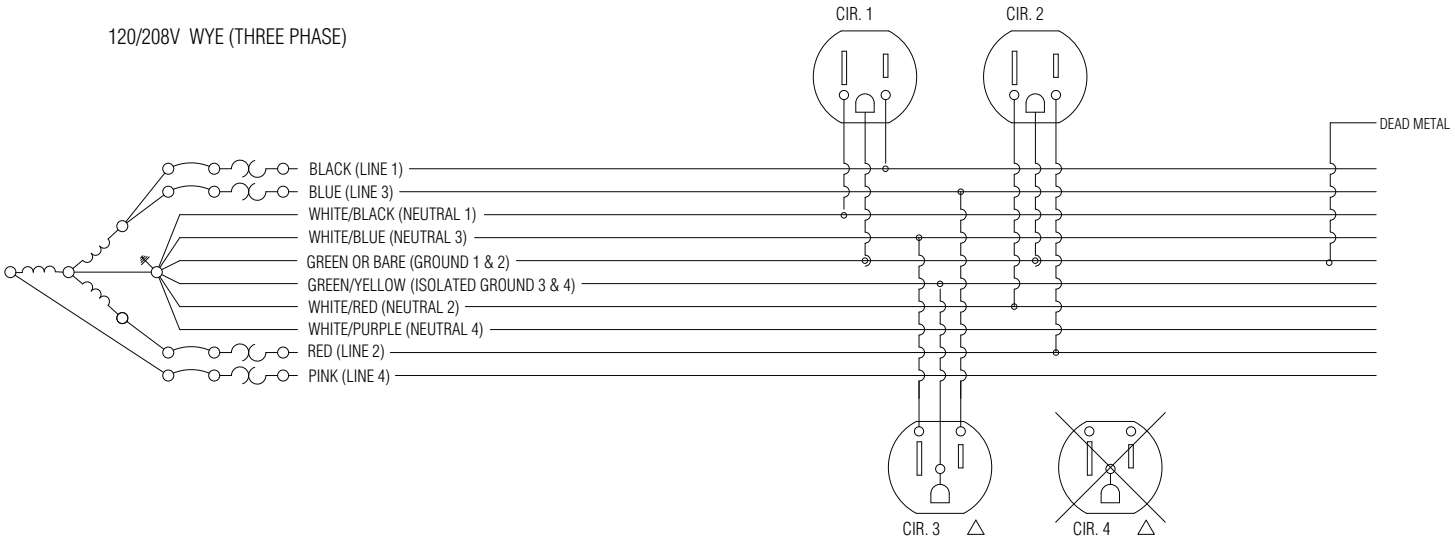
8-WIRE ELECTRICAL
(10-WIRE SYSTEM BEING CONNECTED TO 8-WIRE BUILDING)

Below are wiring schematics to be provided to customer's electrician to validate whether building power is single phase or three phase and to determine which circuits are to be used within the furniture plan.

120/240V SINGLE PHASE



120/208V WYE (THREE PHASE)



RESOURCES

AMP DRAW RANGE BY ITEM TYPE

This chart shows the estimated amp draw for common devices. Be sure to calculate the necessary amperage needs for the space. Amp draw requirements will determine the number of infeeds and circuit receptacles needed.

ITEM BEING POWERED	LOW END OF RANGE	HIGH END OF RANGE
Cell Phone	0.15	0.5
Laptop	1.0	2.0
LCD Monitor	1.0	2.5
Fax	1.0	2.0
CPU	2.0	5.0
Tablet	0.5	1.0
Printer	4.0	10.0
3-way Lamp	0.25	0.9

NOTES TO CONSIDER

10-WIRE/6-2-2

10-wire (T6) offers up to six 20-amp circuits for a total maximum of 120 amps per infeed. Continuous use load should not exceed 80% (therefore only load to 16 amps/circuit or 96 total amps)

10-WIRE/4-4-2

10-wire (T4) offers up to four 20-amp circuits for a total maximum of 80 amps per infeed. Continuous use load should not exceed 80% (therefore only load to 16 amps/circuit or 64 total amps)

ACTIV8

Activ8 offers a single 15-amp circuit. Continuous use load should not exceed 80%, therefore only load to 12 amps of draw, if current is expected to continue for three or more hours at a time.

PATTERN

Pattern offers a single 15-amp circuit. Continuous use load should not exceed 80%, therefore only load to 12 amps of draw, if current is expected to continue for three or more hours at a time.

CALCULATE AMPS FROM WATTS

To calculate amps from watts, divide the watts by 120. Example: 600 watts/120 = 5 amps.

RESOURCES

ELECTRICAL OPTIONS BY PRODUCT

KI PRODUCT	ACTIV8 1 CIRCUIT (15-AMP)	PATTERN 1 CIRCUIT (15-AMP)	10-WIRE 6-2-2 6 CIRCUIT (20-AMP)	10-WIRE 4-4-2 4 CIRCUIT (20-AMP)	HARDWIRE (CHICAGO CODE)
InTandem	X		X	as a modified solution	X
DataLink	X		X	as a modified solution	X
Smart Lift			X	as a modified solution	X
Trellis	X		X	as a modified solution	X
Pirouette	X	X			
Flat Screen Garage			X	as a modified solution	X
Connection Zone	X		X	X	X
Hurry Up!	X				

KI PRODUCT	POWERUP (ACTIV8)	VILLA (ACTIV8)
InTandem	X	X
DataLink	X	X
Smart Lift	X	X
Trellis	X	X
Pirouette	X	X
Flat Screen Garage	X	X
Connection Zone	X	X
Hurry Up!	X	X

- Many KI tables can accommodate Activ8, Ashley Duo, Ashley Duo Under, PowerUp, Villa or RPT.
- Each product line accommodates these electrical options differently.
- Tables are specified non-powered (i.e. no 10-wire) with Activ8 components ordered separately, with the exception of Pirouette which can be ordered/configured with a number of Activ8 and Pattern electrical options. Ashley Duo, Ashley Duo Under, PowerUp or Villa (3-prong plug) modules can be specified along with 10-wire or for individual use. Refer to Power Options on pages 2 thru 4 for examples.

ELECTRICAL ACCESSORIES BY PRODUCT

KI PRODUCT	POWERUP (3-PRONG PLUG)	VILLA (3-PRONG PLUG)	ASHLEY DUO (3-PRONG PLUG & ACTIV8)	ASHLEY DUO UNDER (3-PRONG PLUG & ACTIV8)	RPT (ACTIV8)
InTandem	X	X		X	X
DataLink	X	X	X	X	X
Smart Lift	X	X			
Trellis	X	X			X
Pirouette	X	X	X	X	X
Flat Screen Garage	X	X			
Connection Zone	X	X		X	X
Hurry Up!	X	X	X	X	X

KI PRODUCT	DEAN IN-SURFACE (3-PRONG PLUG & PATTERN)	DEAN CLAMP-ON (3-PRONG PLUG & PATTERN)	NACRE (3-PRONG PLUG & PATTERN)	DUBBEL (3-PRONG PLUG & PATTERN)	SNAP-IN RPT (PATTERN)
InTandem					
DataLink					
Smart Lift					
Trellis					
Pirouette	X	X	X	X	X
Flat Screen Garage					
Connection Zone					
Hurry Up!					

Many KI tables can accommodate Activ8, Ashley Duo, Ashley Duo Under, PowerUp, Villa or RPT.

Each product line accommodates these electrical options differently.

Tables are specified non-powered (i.e. no 10-wire) with Activ8 components ordered separately, with the exception of Pirouette which can be ordered/configured with a number of Activ8 and Pattern electrical options. Ashley Duo, Ashley Duo Under, PowerUp or Villa (3-prong plug) modules can be specified along with 10-wire or for individual use. Refer to Power Options on pages 2 thru 4 for examples.

GLOSSARY
ELECTRICAL TERMS

10-WIRE
6-2-2 (or T6): 6 hot wires, 2 shared oversized neutral wires, 2 separate ground wires (one isolated ground, and one building ground).

4-4-2 (or T4): 4 hot wires, 4 independent neutral wires, 2 ground wires (one isolated ground and one building ground).

AMPS
The quantity of electrical current flowing through a circuit. To calculate amps from watts, divide watts by 120.

BEZEL
A plastic or metal piece that frames the opening used for receptacle attachment.

CHASE
A plastic or metal channel used to carry wires or cables from one point to another.

CHICAGO ELECTRICAL CODE
Municipal electrical code for the City of Chicago. Relative to contract furniture, this code generally means all furniture is provided without modular power distribution components. Furniture is specified as "Hardwired Electrical" (absent of electrical components but ready to receive field added electrical) and electrical distribution is provided by customer's licensed electrician.

CIRCUIT
A complete electrical path for electrical current flowing from the building power source to the equipment being powered and back to the power source. Which requires a hot, a neutral and a ground conductor.

CIRCUIT BREAKER
A safety device designed to automatically stop the flow of electricity whenever a circuit becomes overloaded or faulty (shorted out).

CONDUIT
Tubing, available in either rigid (EMT) or flexible varieties, used to route and protect electrical wires and cables.

CONTINUOUS LOAD
A load where the current is expected to continue static for three hours or more.

CURRENT
The rate of electricity flow.

DAISY CHAIN
A wiring scheme in which multiple devices are electrically connected together from one power infeed.

DEDICATED CIRCUIT
A circuit with three conductors – consisting of hot, a unique neutral, and unique ground. This type of circuit greatly reduces 'noise' from other circuits, which can cause problems with sensitive equipment.

DUPLEX RECEPTACLE
A receptacle with two "plug-in" openings which accept two 120-volt three-prong grounded plugs.

FLEXIBLE METAL CONDUIT
Hollow flexible metal tubing designed expressly for holding wires or cables.

GAUGE
The measure of the size of a wire. The smaller the number, the thicker the wire and the higher the amperage load.

GFI/GFCI
(Ground Fault Interrupter/Ground Fault Circuit Interrupter) A device designed to interrupt the flow of power when an imbalance is detected between the flow and return of current.

GROMMET
A metal or plastic insert to line a cutout in the worksurface.

GROUND CONDUCTOR
The conductor of a circuit that provides safety from fire and electrical shock in cases of short circuits and other electrical problems. The conductor is physically attached and is used to conduct stray electrical current safely back to earth.

HARD WIRE
Connection of electrical components directly to the buildings power supply. Requires a certified electrician to install a hard wire connection. Note: Do not confuse with "Hardwired Electrical" (See Chicago Electrical Code definition).

GLOSSARY
ELECTRICAL TERMS

HOT CONDUCTOR
The conductor that carries current from the power source to the equipment. For a complete circuit, the hot conductor requires a neutral conductor to carry the current back to the power source. Hot conductors usually have black or red insulation.

INFEED
An electrical component that allows for the connection of power from the building source power to the furniture's electrical system.

INTERTEK
Intertek delivers Assurance, Testing, Inspection and Certification solutions. The Intertek ETL Mark is proof of product compliance to published industry standards. Intertek is an OSHA Recognized NRTL.

JUMPER
A cable used to pass power from one receptacle-carrying furniture unit to another; does not allow for receptacle attachment to itself.

JUNCTION BOX
A box containing connections of electrical wires and/or receptacles. Has a removable cover that must be accessible (cannot be buried in ceilings and walls). Also called a J-box.

LIQUID-TIGHT FLEXIBLE CONDUIT
Flexible conduit covered by an outer liquid-tight (waterproof), nonmetallic, sunlight-resistant jacket over an inner flexible core with associated couplings, connectors and fittings. Approved for the installation of electric conductors.

MAXIMUM CONTINUOUS LOAD
The maximum electrical current in a circuit expected to be in constant use for three hours or more. For safety considerations, a continuous load must not exceed 80% of the maximum electrical rating, per the National Electric Code (NEC).

NEUTRAL CONDUCTOR
The return conductor in a circuit. It usually has white insulation. More properly called the grounded conductor because it returns current to ground at the service panel.

NEW YORK ELECTRICAL CODE
Municipal electrical code for the City of New York. Relative to contract furniture, this code generally means electrical infeed connections must be made inside the furniture with a junction box wired by a licensed electrician. Modular electrical distribution can be used beyond the initial NY Code infeed.

OSHA'S NATIONALLY RECOGNIZED TESTING LABORATORY (NRTL) PROGRAM
Recognizes private sector organizations to perform certification for certain products to ensure that they meet the requirements of both the construction and general industry OSHA electrical standards. After certifying a product, the NRTL authorizes the manufacturer to apply a registered certification mark to the product.

OVERLOAD
To run equipment or wire in excess of its normal full-load rating.

PIGTAIL
A short length of individual wire(s) that is attached to an electric device. Typically refers to the building connection end of an infeed.

POWER MODULE
An electrical component consisting of a combination of receptacles, data ports, and/or USB ports, to make access to power convenient for the users. Usually mounted into a worksurface cutout, or under surface mounted.

RACEWAY
A plastic or metal channel used as a chase to run wires or cables from one point to another.

RECEPTACLE
A contact device installed at the outlet for the connection of an attachment plug, or for the direct connection of electrical utilization equipment designed to mate with the corresponding contact device. Labeled with the circuit number when in furniture. Receptacles are either 15-amp or 20-amp.

RIGID WIREWAY
Contains the wires and provides access to receptacles.

GLOSSARY
ELECTRICAL TERMS

SHORT CIRCUIT
An accidental connection between two conductors or between a conductor and ground, or some other unintended grounded surface. A short circuit creates a spark and causes the circuit breaker to trip.

SIMPLEX RECEPTACLE
A receptacle with one plug opening which will accept one 120-volt three-prong grounded plug. Usually used in fixed seating applications.

SURGE PROTECTION
Protection against a fluctuation of the circuit voltage above a normal level over a period of time.

THREE PHASE
Three-phase electric power is a common method of alternating current electric power generation, transmission, and distribution. It is a type of polyphase system and is the most common method used by electrical grids worldwide to transfer power.

UL (UNDERWRITER'S LABORATORIES)
UL certifies, validates, tests, verifies, inspects, audits, advises and educates. The UL Mark is proof of product compliance to published industry standards. UL is an OSHA Recognized NRTL.

VOLT
The measure of electrical potential, or the force that moves an electrical current. (Amp is the measure of electrical current).

WATT
The amount of power used by an electrical device. A function of volts and amperes.

WHIP
The bundle of wires in conduit (power infeed) that connects the building's main power supply to the electrical system.

NOTES

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