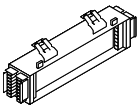
Power and Data

Statement of Line

Base Power



Modular Power Block – Standard-Capacity
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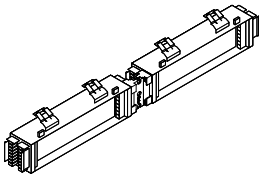

Modular Power Block – High-Capacity
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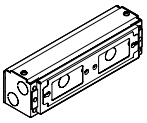

Chicago Hardwire Box
Understanding
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Duplex Receptacle
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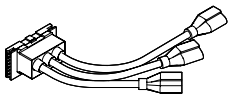

Flexible Receptacle
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Filler Package–Power/ Data
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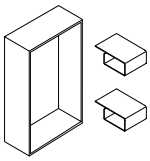

Data Kit for Use with FrameOne
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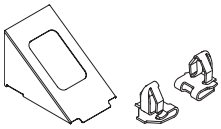

Data Kit for Use with Ology Bench
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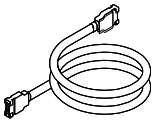

Modular Harnesses
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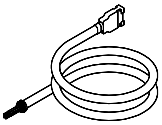

Hardwire-to-Modular Power Infeed
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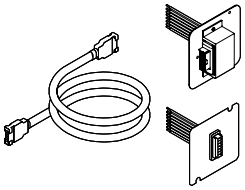

Modular-to-Modular Power Infeed
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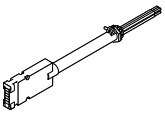

San Francisco Power Infeed
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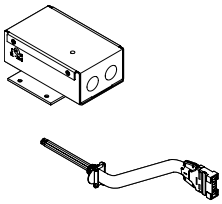

New York Power Infeed for Use with FrameOne Bench
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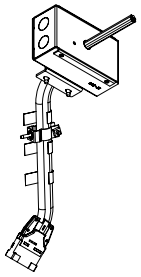

New York Power Infeed for Use with Ology Bench
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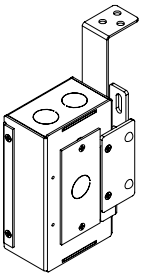

New York Infeed for Use with Migration SE Bench
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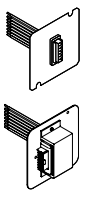

Junction Box Faceplate – Modular
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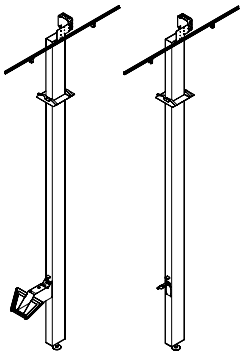
Base Power, continued



Utility Poles for Use with FrameOne Bench
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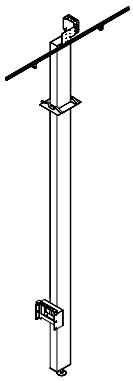

Utility Pole for Use with Ology Bench
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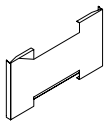

Infill for Use with Ology Bench Utility Poles
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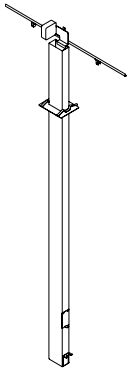

Utility Pole for Use with Migration SE Bench
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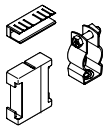

Bracket Kit and Dust Cover
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Block-to-Block Connector
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Vertebral Riser for Use with FrameOne Bench
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Extension Vertebral Riser
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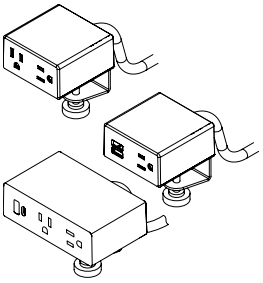
Worksurface Power and Data



Powerstrip Intro
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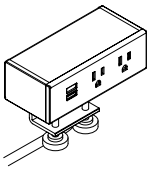

Powerstrip Plus
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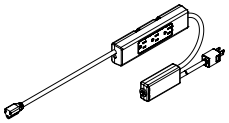

Under Worksurface Utility Power
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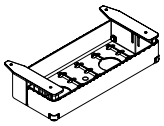

Universal Cable Management Kit, Small
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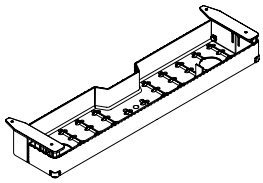

Universal Cable Management Kit, Large
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Power and Data Wiring Schematics

Details for the Electrician

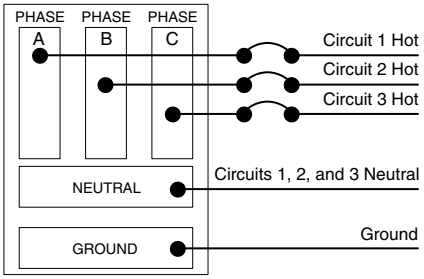
Height-adjustable benching offers three different wiring schematics to allow you to match your specific wiring strategy to any typical building wiring plan.

Tip: All the components in an electrical system must use the same wiring schematic. The components are keyed and color coded to make it impossible to connect mismatched parts.

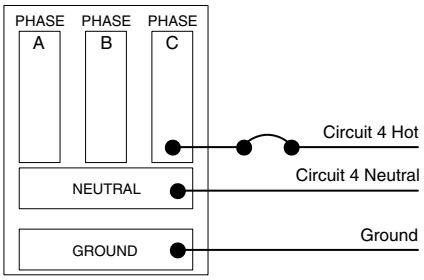
Black = Four-circuit, 3+1
Brown = Four-circuit, 2+2
Rust = Three-circuit, separate neutral (3SN)
Shared neutral = 10 gauge
Non-shared neutral = 12 gauge
Hot wires = 12 gauge

Four-Circuit, 3+1

Circuit Panel 1

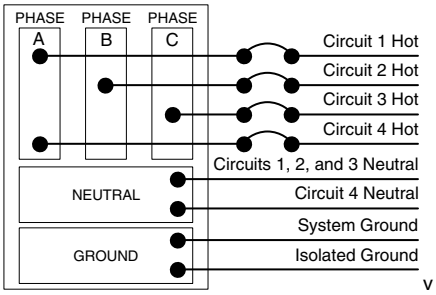


Circuit Panel 2



In the four-circuit 3+1 schematic, circuits 1, 2, and 3 are distributed from the first circuit panel and are supported with one shared neutral and one shared ground. Circuit 4 is distributed from a second circuit panel and is supported with a separate neutral and ground.

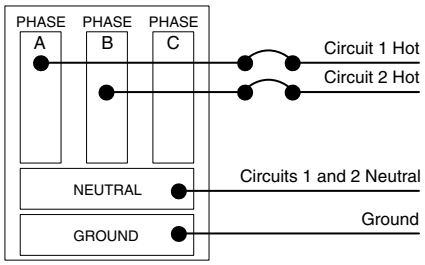
Single 3-Phase
Circuit Panel



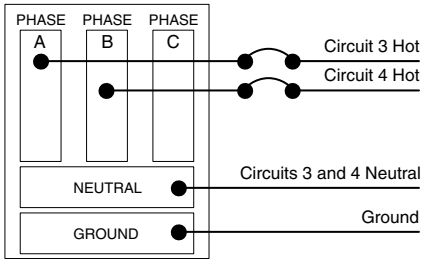
On a single 3-phase circuit panel, all four circuits are distributed as shown.

Four-Circuit, 2+2

Circuit Panel 1

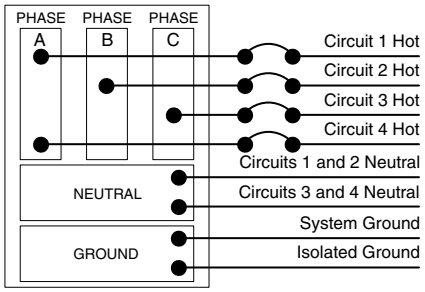


Circuit Panel 2



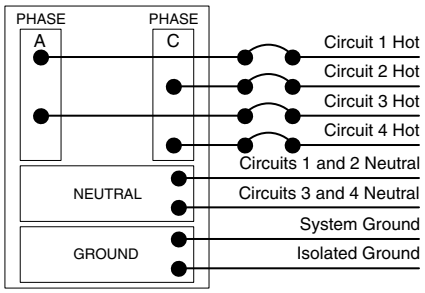
In the four-circuit 2+2 schematic, circuits 1 and 2 are distributed from two different phases from the first circuit panel and are supported with one shared neutral and one shared ground. Circuits 3 and 4 are distributed from a second circuit panel and supported by their own shared neutral and ground.

Single 3-Phase
Circuit Panel



On a single 3-phase circuit panel, all four circuits are distributed as shown.

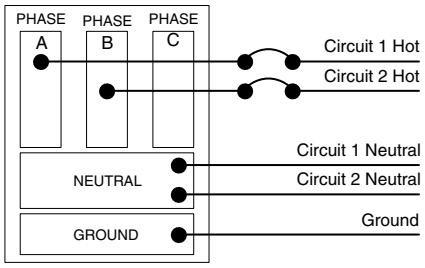
Split-Phase
Circuit Panel



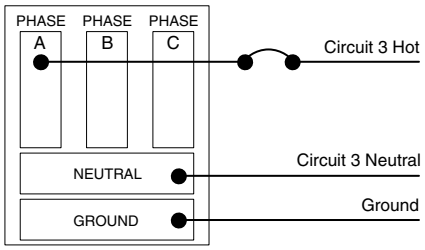
On a split-phase circuit panel, all four circuits are distributed as shown.

Three-Circuit, Separate neutral

Circuit Panel 1

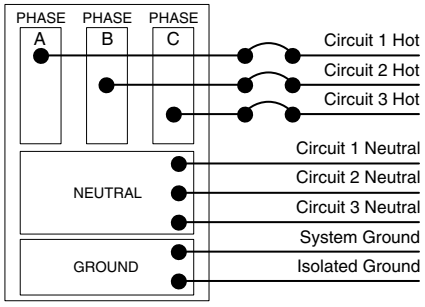


Circuit Panel 2



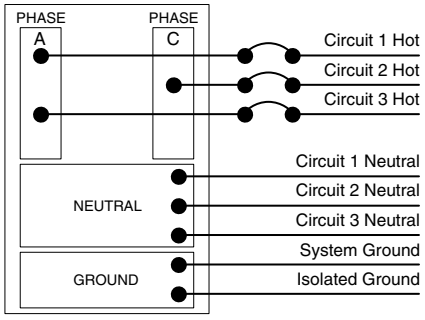
In the three-circuit, separate neutral schematic, circuits 1 and 2 are distributed from two different phases from the first circuit panel. Each circuit is supported with its own neutral and a common ground. Circuit 3 is distributed from the second circuit panel and is supported by its own neutral and ground.

Single 3-Phase
Circuit Panel



On a single 3-phase circuit panel, three circuits are distributed as shown.

Split-Phase
Circuit Panel



On a split-phase circuit panel, three circuits are distributed as shown.

How to Calculate Power Needs

Use This to Determine How Many Power-Ins You'll Need

When planning a power network, you must calculate the amperage requirements of all your electrical components so you can provide sufficient electricity to power them.

If your usage is not known in advance:
The National Electrical Code (NEC) allows a maximum of 13 receptacles on each 20-amp circuit. This provides up to 30 receptacles for each 3-circuit power-in.

If your usage is known in advance:
Add up the amperage used by each piece of equipment in the workstation. Whenever you reach 60 amps (20 amps times 3 circuits) from items that are likely to be used at the same time, you have reached the limit for a single power-in. Specify another power-in and continue until all equipment is powered.

If the circuits will normally be subject to a continuous load (three or more hours of continuous use, such as lights or computers), the NEC requires that circuit capacity be "de-rated" by 20 percent. Therefore, treat circuits used for continuous loads as if they were rated at 16 amps instead of the regular 20 amps.

Try to anticipate future increases in power requirements and build some excess capacity into your plan.

▶See table at right for typical and actual amperage usages for components.

To calculate amperage when the wattage of a device is known, divide watts by 120.

Some appliances, such as large copiers, coffee makers, or space heaters require most of the current available on a 20-amp circuit. It is recommended that such devices be supplied with their own receptacle/circuit, directly from the building. This leaves the capacity of the furniture circuits available for the more dynamic requirements of the office equipment.

Local electrical codes vary. Consult a qualified electrical contractor or engineer for the proper planning of electrical circuits in your locale.

Approximate power consumption for common devices

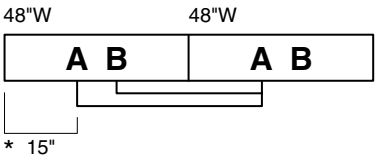
Device	Wattage	Amperage	Voltage	Number of Devices Supported on Single 20 Amp Circuit*
Laptop	90	0.8	110	20
CPU/Desktop Computer	120	1.1	110	15
Monitor	60	0.5	110	29
Phone	5	0.0	110	352
High Power Tablet (e.g. Surface Pro)	40	0.4	110	44
Low Power Tablet (e.g. iPad Air)	15	0.1	110	117
Desktop Printer	40	0.4	110	44
42" LCD Screen	210	1.9	110	8
DVD Player	25	0.2	110	70
Projector	175	1.6	110	10
Desktop Lamp	19	0.2	110	93
Large Printer/ Copier (high)	1900	17.3	110	1
Large Printer/ Copier (low)	850	7.7	110	2
Paper Shredder	360	3.3	110	5
Desktop Fan	20	0.2	110	88
Standing Fan	180	1.6	110	10
Coffee Maker (high)	1200	10.9	110	1
Coffee Maker (low)	600	5.5	110	3
Microwave (high)	400	13.6	110	1
Microwave (low)	150	5.5	110	3
Refrigerator (high)	1500	3.6	110	4
Refrigerator (low)	200	1.4	110	12
Vacuum (high)	1500	13.6	110	1
Vacuum (low)	200	1.8	110	9
Space Heater (high)	1500	13.6	110	1
Space Heater (low)	750	6.8	110	2

Tip: These calculations are estimations and are meant solely for informational purposes. It is important to conduct proper power planning for each installation to prevent overloading a circuit.

Power Routing Harness Chart for FrameOne

Bench to Bench

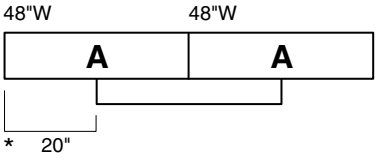
48"W – Dual-Sided Units



Harness Length

A to A	39"
B to A	30"

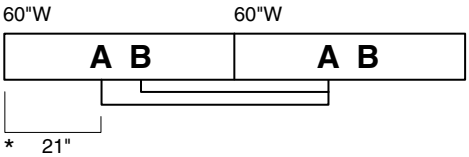
48"W – Single-Sided Units



Harness Length

A to A	39"

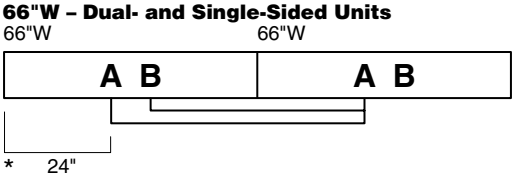
60"W – Dual- and Single-Sided Units



Harness Length

A to A	51"
B to A	42"

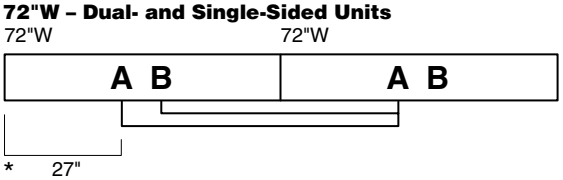
66"W – Dual- and Single-Sided Units



Harness Length

A to A	57"
B to A	48"

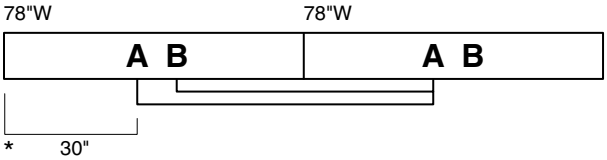
72"W – Dual- and Single-Sided Units



Harness Length

A to A	63"
B to A	54"

78"W – Dual- and Single-Sided Units



Harness Length

A to A	69"
B to A	60"

Key: A = Standard-capacity power

AB = High-capacity power

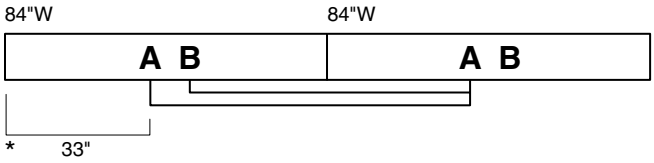
When using high-capacity power (AB), harness connection to the next unit can occur only from the B position.

** = Dimension from edge of desk to first power position (A). Add 10" for dimension of second power position (B), when determining length of infeed. B to B harness length is same as A to A.*

Tip: 48"W and 96"W single-sided units allow standard-capacity power only.

▶See *Distribution and Access,* page 426.

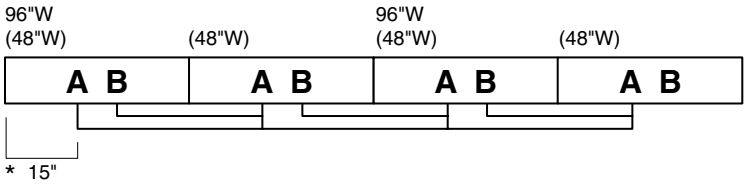
84"W – Dual- and Single-Sided Units



Harness Length

A to A	75"
B to A	66"

96"W – Dual-Sided Units

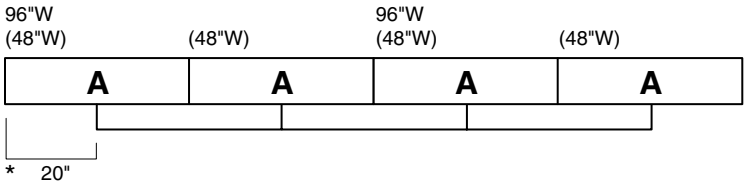


Harness Length

A to A	39"
B to A	30"

Tip: 96"W includes two 48"W frames.

96"W – Single-Sided Units



Harness Length

A to A	39"

Tip: 96"W includes two 48"W frames.

Key: A = Standard-capacity power
AB = High-capacity power
When using high-capacity power (AB), harness connection to the next unit can occur only from the B position.
** = Dimension from edge of desk to first power position (A). Add 10" for dimension of second power position (B), when determining length of infeed. B to B harness length is same as A to A.*

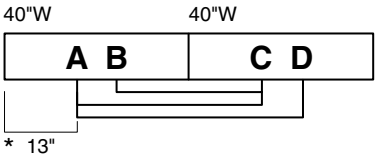
Tip: 48"W and 96"W single-sided units allow standard-capacity power only.

▶See *Distribution and Access*, page 426.

Power Routing Harness Chart for Ology Bench and Migration SE Bench

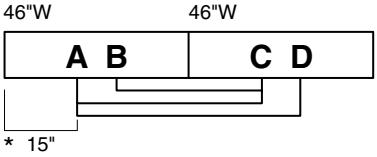
Bench to Bench

40"W – Benches



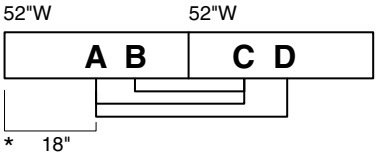
Parametric Desk Width	Harness Length	
40.00"	A to C	33"
	B to C	24"
	A to D	45"
40.06"–43.00"	A to C	36"
	B to C	27"
	A to D	48"

46"W – Benches



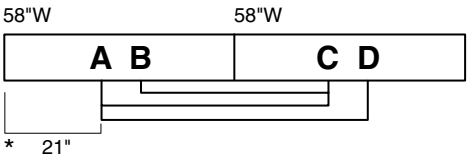
Parametric Desk Width	Harness Length	
43.06"–46.00"	A to C	39"
	B to C	30"
	A to D	51"
46.06"–49.00"	A to C	42"
	B to C	33"
	A to D	54"

52"W – Benches



Parametric Desk Width	Harness Length	
49.06"–52.00"	A to C	45"
	B to C	36"
	A to D	57"
52.06"–55.00"	A to C	48"
	B to C	39"
	A to D	60"

58"W – Benches



Parametric Desk Width	Harness Length	
55.06"–58.00"	A to C	51"
	B to C	42"
	A to D	63"
58.06"–61.00"	A to C	54"
	B to C	45"
	A to D	66"

Key: A = Standard-capacity power

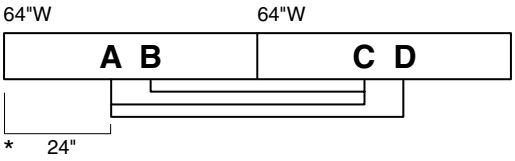
AB = High-capacity power

When using high-capacity power (AB), harness connection to the next unit can occur only from the B position.

** = Dimension from edge of desk to first power position (A). Add 10" for dimension of second power position (B), when determining length of infeed. B to B harness length is same as A to A.*

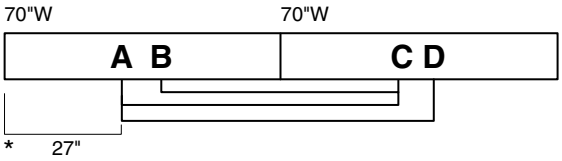
Tip: Migration SE bench is only applicable in widths 46"W-70"W.

64"W – Benches



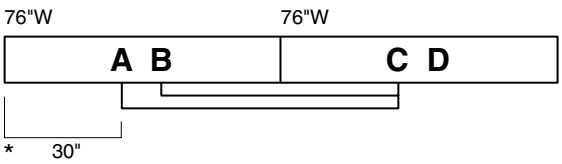
Parametric Desk Width	Harness Length	
61.06"–64.00"	A to C	57"
	B to C	48"
	A to D	69"
64.06"–67.00"	A to C	60"
	B to C	51"
	A to D	72"

70"W – Benches



Parametric Desk Width	Harness Length	
67.06"–70.00"	A to C	63"
	B to C	54"
	A to D	75"
70.06"–73.00"	A to C	66"
	B to C	57"
	A to D	N.A.

76"W – Benches



Parametric Desk Width	Harness Length	
73.06"–76.00"	A to C	69"
	B to C	60"
	A to D	N.A.
76.06"–81.00"	A to C	72"
	B to C	63"
	A to D	N.A.

Key: A = Standard-capacity power

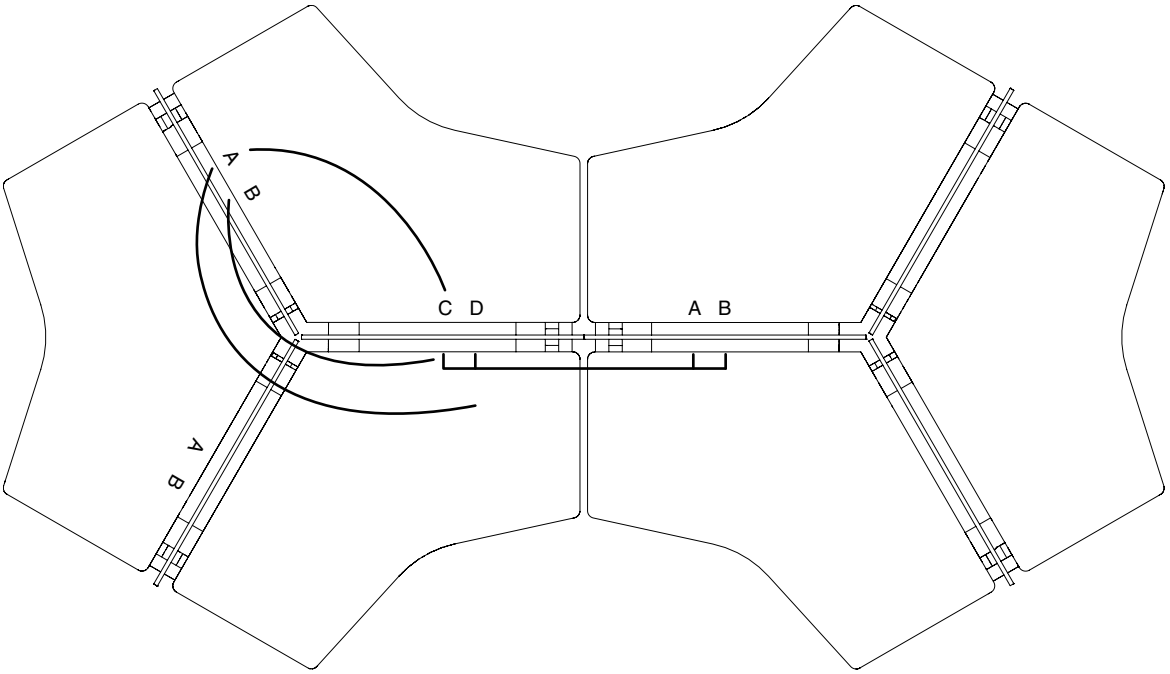
AB = High-capacity power

When using high-capacity power (AB), harness connection to the next unit can occur only from the B position.

** = Dimension from edge of desk to first power position (A). Add 10" for dimension of second power position (B), when determining length of infeed. B to B harness length is same as A to A.*

Power Routing Harness Chart for 120° Ology Bench

From Unit to Unit



	Parametric Desk Size	Type of Connection		Harness Length
		Within One Bench	Bench to Bench	
34"W –	34.00"	A to C	C to A	27"
		B to C	D to A	N.A.
		A to D	C to B	N.A.
34"W –	34.06"—37.00"	A to C	C to A	30"
		B to C	D to A	N.A.
		A to D	C to B	N.A.
40"W –	37.06"—40.00"	A to C	C to A	33"
		B to C	D to A	24"
		A to D	C to B	42"
40"W –	40.06"—43.00"	A to C	C to A	36"
		B to C	D to A	27"
		A to D	C to B	45"
46"W –	43.06"—46.00"	A to C	C to A	39"
		B to C	D to A	30"
		A to D	C to B	48"
46"W –	46.06"—49.00"	A to C	C to A	42"
		B to C	D to A	33"
		A to D	C to B	51"

Key: A = Standard-capacity power

AB = High-capacity power

When using high-capacity power (AB), harness connection to the next unit can occur only from the B position.

** = Dimension from edge of desk to first power position (A). Add 10" for dimension of second power position (B), when determining length of infeed. B to B harness length is same as A to A.*

	Parametric Desk Size	Type of Connection		Harness Length
		Within One Bench	Bench to Bench	
52"W –	49.06"—52.00"	A to C	C to A	45"
		B to C	D to A	36"
		A to D	C to B	54"
52"W –	52.06"—55.00"	A to C	C to A	48"
		B to C	D to A	39"
		A to D	C to B	57"
58"W –	55.06"—58.00"	A to C	C to A	51"
		B to C	D to A	42"
		A to D	C to B	60"
58"W –	58.06"—61.00"	A to C	C to A	54"
		B to C	D to A	45"
		A to D	C to B	63"
64"W –	61.06"—64.00"	A to C	C to A	57"
		B to C	D to A	48"
		A to D	C to B	66"
64"W –	64.06"—67.00"	A to C	C to A	60"
		B to C	D to A	51"
		A to D	C to B	69"

Key: A = Standard-capacity power

AB = High-capacity power

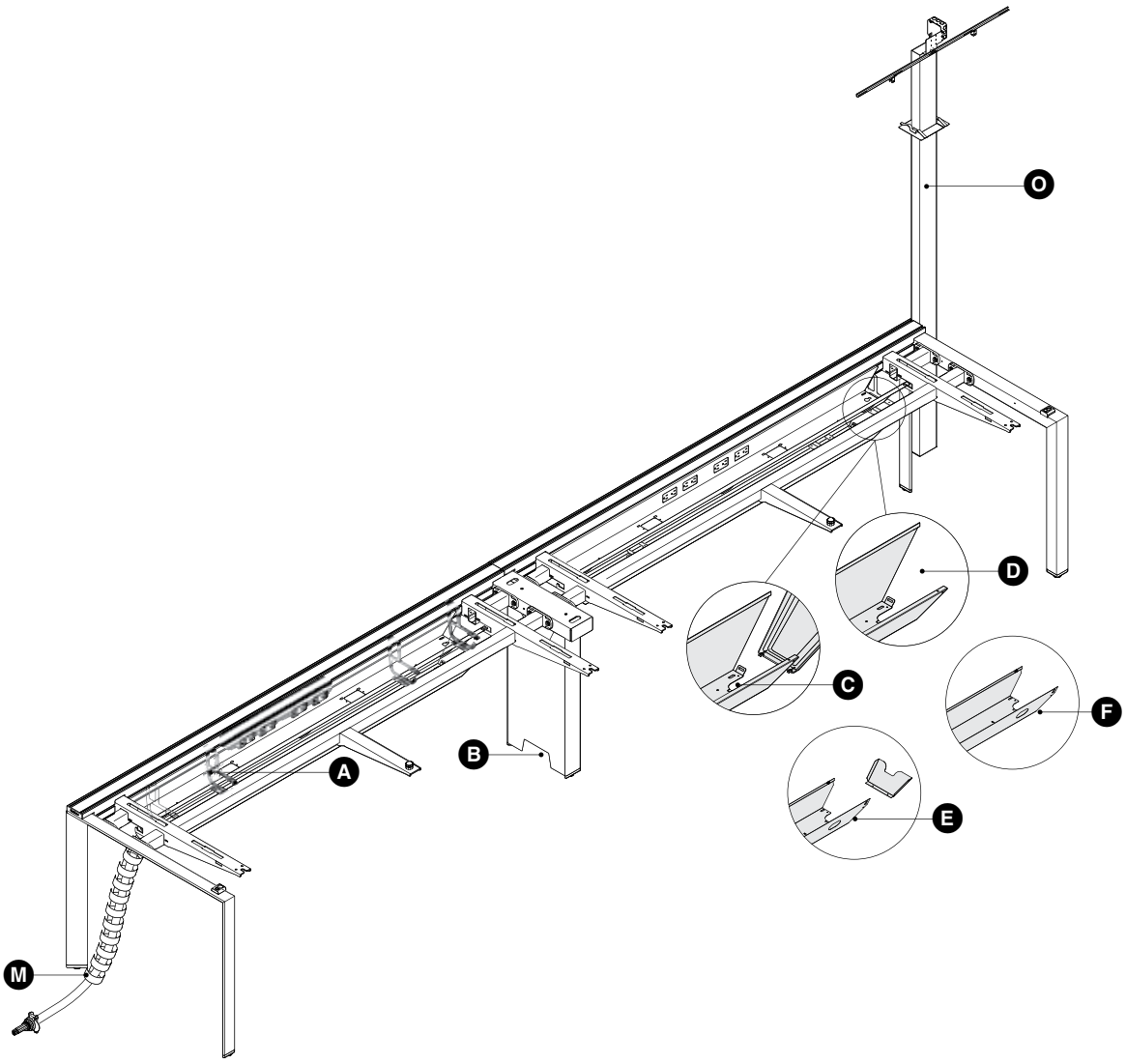
When using high-capacity power (AB), harness connection to the next unit can occur only from the B position.

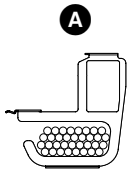
** = Dimension from edge of desk to first power position (A). Add 10" for dimension of second power position (B), when determining l ength of infeed. B to B harness length is same as A to A.*

Cable Capacities

FrameOne Bench

Single-Sided



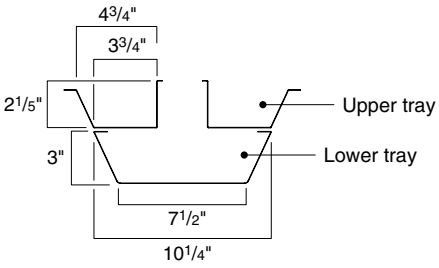


Single-Sided
Cable Hanger

	Outside Diameter of Cable = .223 (5E)		Outside Diameter of Cable = .310 (6A)	
	Maximum Capacity	**Maximum Capacity with Power**	**Maximum Capacity**	**Maximum Capacity with Power**
A Cable hanger, single-sided unit	96	96	48	48
B Infeed at intermediate leg, single-sided unit	72	64	36	32
C Infeed opening at ends of lower tray, single-sided unit	72	64	36	32
D Infeed with end cap removed from lower tray, single-sided unit	96	N.A.	48	N.A.
E Infeed opening at ends of simple tray, single-sided unit	50	50	26	26
F Infeed with end cap removed from simple tray, single-sided unit	77	77	39	39
M Vertebral riser	48	40	24	20
O Single-sided unit utility pole	72	64	28	24

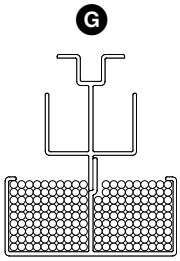
Tip: Cable hangers have a separate routing area for power. Capacity is not affected.
Tip: The TIA recommends a maximum fill rate of 40%.
Tip: When routing cables through any combination mentioned above, the capacity is equal to the smallest number.
Tip: On 48"W and 96"W desks, data opening is positioned to the right.

Dual-Sided

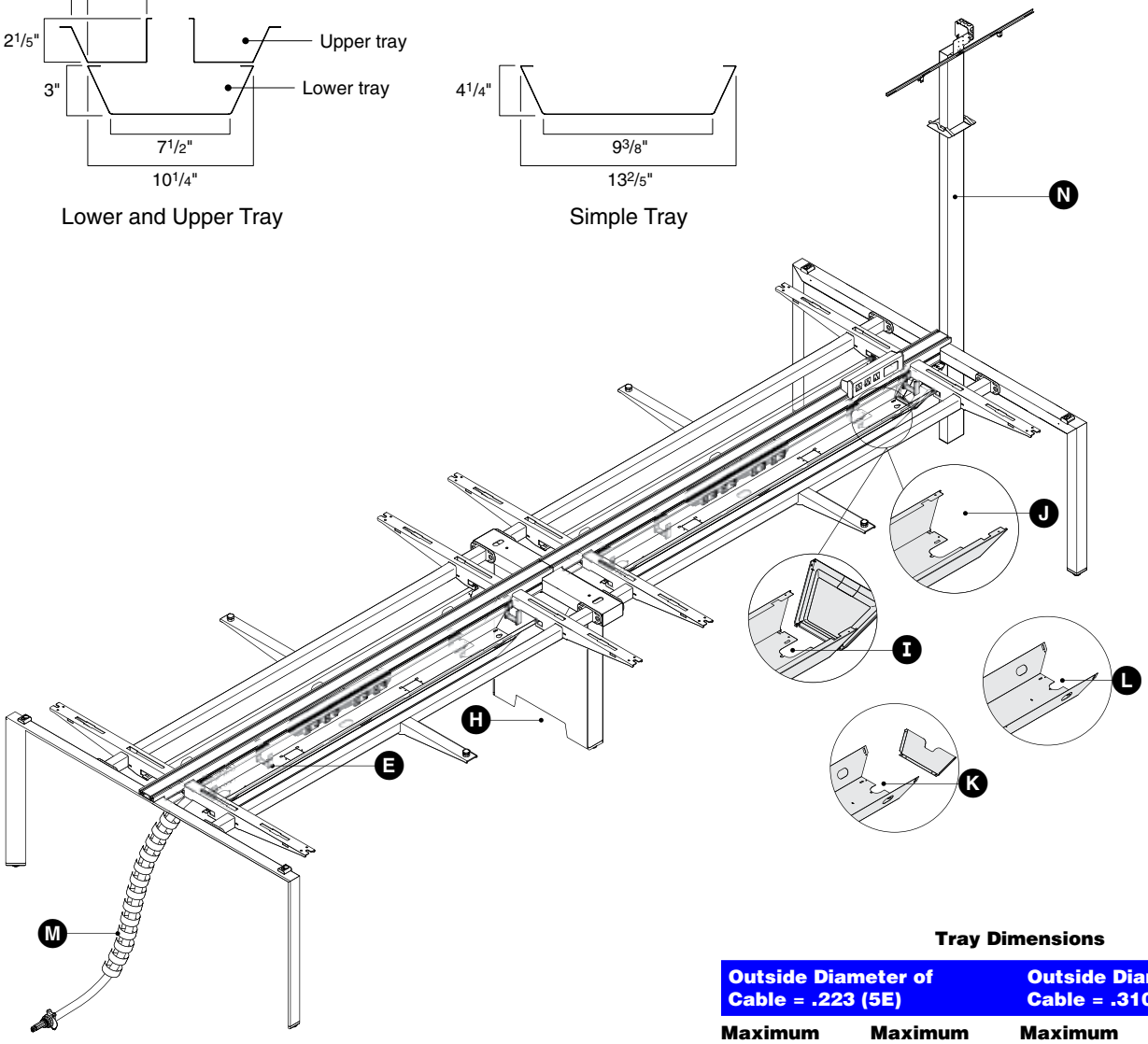


Lower and Upper Tray

Simple Tray



Dual-Sided Cable Hanger



Tray Dimensions

	Outside Diameter of Cable = .223 (5E)		Outside Diameter of Cable = .310 (6A)	
	Maximum Capacity	**Maximum Capacity with Power**	**Maximum Capacity**	**Maximum Capacity with Power**
G Cable hanger, dual-sided unit	96	N.A.	48	N.A.
H Infeed at intermediate leg, dual-sided unit	96	88	48	44
I Infeed opening at ends of lower tray, dual-sided unit	96	88	48	44
J Infeed with end cap removed from lower tray, dual-sided unit	96	N.A.	48	N.A.
K Infeed opening at ends of simple tray, dual-sided unit	51	51	27	27
L Infeed with end cap removed from simple tray, dual-sided unit	77	77	39	39
M Vertebral riser	48	40	24	20
N Dual-sided unit utility pole	96	88	48	44

Tip: Cable hangers have a separate routing area for power. Capacity is not affected.
Tip: The TIA recommends a maximum fill rate of 40%.
Tip: When routing cables through any combination mentioned above, the capacity is equal to the smallest number.
Tip: On 48"W and 96"W desks, data opening is positioned to the right.

Tray Comparison
FrameOne

Tray Availability
FrameOne offers three types of trays to support a range of power distribution and wiring and cabling needs.

Tray Type	Dual-Sided Bases and Extensions with Rail	Dual-Sided Bases and Extensions without Rail	Single-Sided Bases and Extensions	Bases and Extensions with Continuous Top	Value Package Benches
Simple Tray	Available	Available	Available	Available	Available
Upper Tray	Available	Not Available	Not Available	Not Available	Not Available
Upper and Lower Tray	Available	Not Available	Available	Not Available	Not Available

Tray Feature Comparison

Tray Type	Standard Capacity Power	High Capacity Power	Extension Trays	End Caps	Data Termination
Simple Tray	Available	Not Available	Separate Style Number	Separate Style Number	Separate Style Number
Upper Tray	Available	Available	Not Available	Available	Available
Upper and Lower Tray	Available	Available	Available	Available	Available

Simple Tray Feature Comparison
To provide the best possible appearance and value, the simple tray is configured differently depending on application.

Application	Power Covers	Extension Tray	End Caps
Dual-Sided Bases and Extensions with Rails	Separate Style Number	Separate Style Number	Separate Style Number
Dual-Sided Bases and Extensions without Rails	Separate Style Number	Separate Style Number	Separate Style Number
Single-Sided Bases and Extensions	Separate Style Number	Standard	Separate Style Number
Bases and Extensions with Continuous Top	Standard	Standard	Standard
Value Package Benches	Separate Style Number	Separate Style Number	Separate Style Number

Distribution and Access

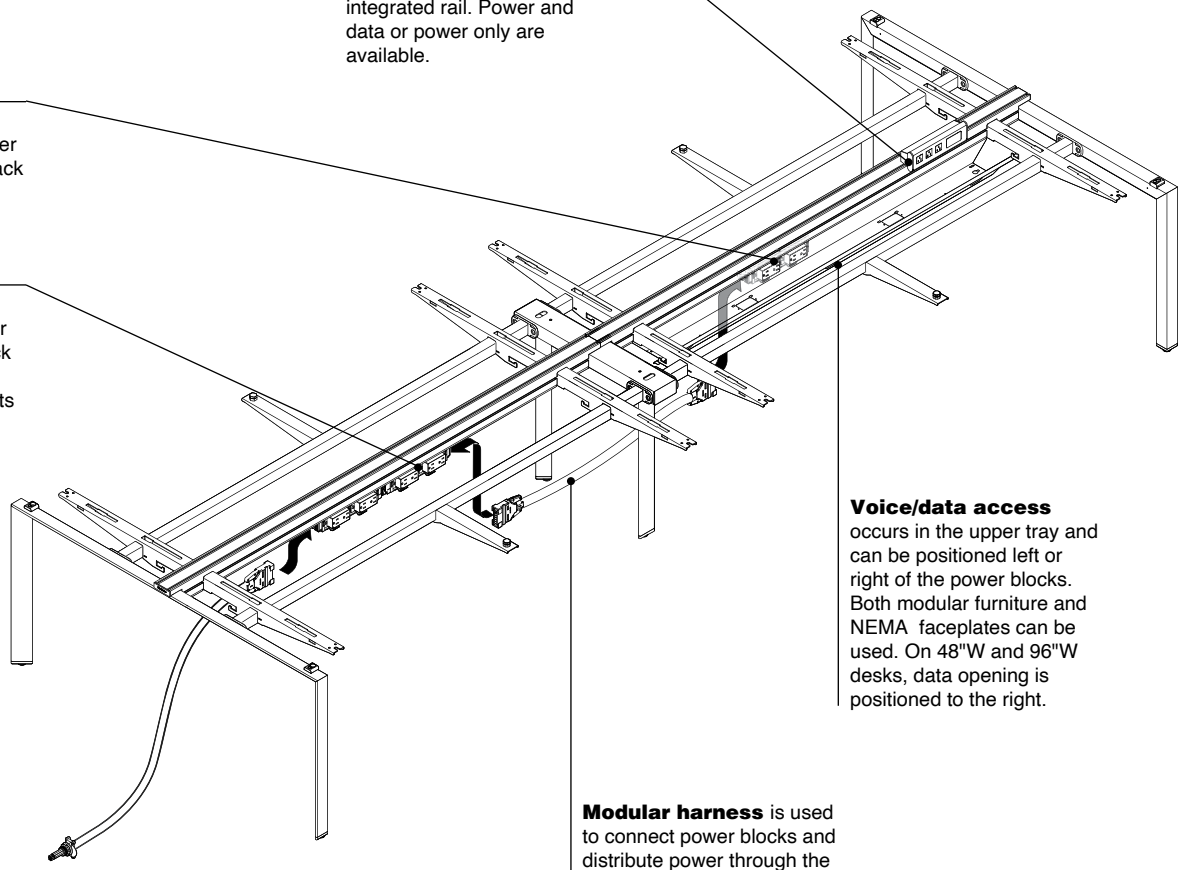
FrameOne

Power blocks can be placed on the underside of the integrated rail. Modular harnesses are used to distribute power through the bench.

Power strips can be placed above the worksurface by connecting to the integrated rail. Power and data or power only are available.

Standard-capacity power includes one power block, provides back-to-back power, and accepts two receptacles per side.

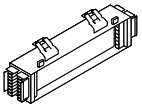
High-capacity power block includes two power blocks and a block-to-block connector, provides back-to-back power, and accepts four receptacles per side.



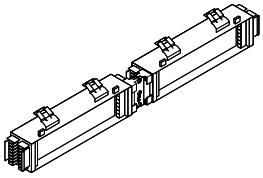
Voice/data access occurs in the upper tray and can be positioned left or right of the power blocks. Both modular furniture and NEMA faceplates can be used. On 48"W and 96"W desks, data opening is positioned to the right.

Modular harness is used to connect power blocks and distribute power through the bench.

Wiring and Cabling

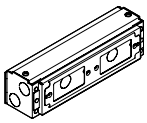


Standard-capacity power includes one power block, provides back-to-back power, and accepts two receptacles per side.



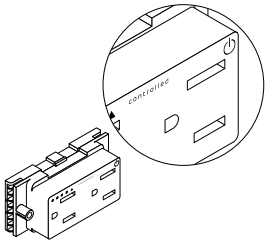
High-capacity power includes two power blocks and a block-to-block connector. It provides back-to-back power, and accepts four receptacles per side.

High-capacity power cannot be used in simple trays.

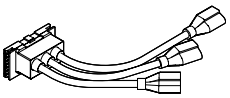


Chicago hardwire box is available. It accommodates two receptacles per side.

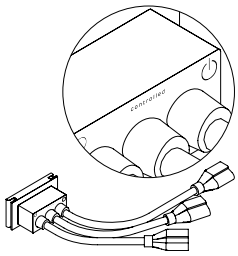
Duplex receptacles are available in 15- and 20-amps, isolated or system ground, with multiple line options. Receptacles have two outlets and are ordered separately.



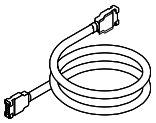
Controlled receptacle must be indicated when tying into the building management system. Duplex receptacles have an option for a factory permanent, pad stamp power icon symbol with the word controlled, per compliance with the Energy Code.



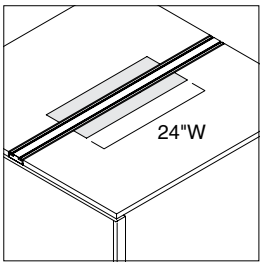
Modular flexible receptacles are available in 15-amp, isolated or system ground, with multiple line options. Flexible receptacles offer easy access to three outlets. Receptacles are ordered separately.



Controlled receptacle must be indicated when tying into the building management system. Modular flexible receptacles have an option for a factory permanent, pad stamp power icon symbol with the word controlled, per compliance with the Energy Code.



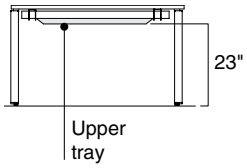
Modular harnesses are used to connect power blocks.
▶See *Power Routing Harness Chart*, page 416, to determine lengths needed.



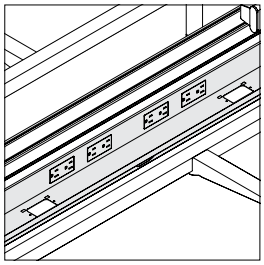
Power and data access door is optioned on base and extension units. It is centered on the surface and provides user access to power and data as well as cord management. When optioned on 96"W units, two doors are provided in each surface.

If door or cutout is not optioned, power and data is maintenance accessible by sliding the surface open. Devices are then plugged in and the surface is closed and locked. High-capacity power cannot be used in simple trays. Application is intended for those devices that will remain plugged in.

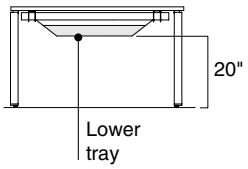
Cable hangers attach to the underside of the integrated rail to manage the routing of voice/data cables. They are included with all dual- and single-sided base and extension units.



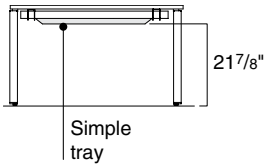
Trays are available on dual-sided base and extension units. There are three tray options. The standard includes an upper tray which provides under the surface cord management, data termination, and conceals the power blocks and conduit.



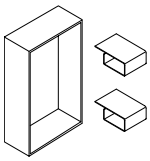
Data can be terminated and accessed in the upper tray—either left or right of the power. Exception: On 48"W and 96"W desks, data opening is positioned to the right. Both modular furniture and NEMA faceplates can be used.



The lower tray is optional and is always used in conjunction with an upper tray. It is intended for use when voice/data cables are being routed. It conceals data cables, creating a clean visual.



Simple tray is optional in place of upper or upper and lower trays. Simple tray accommodates standard capacity power only.



Data kit provides cable management and data termination. A data termination box and two pieces of wire manager are included.

Data box and wire managers attach to inside of tray with VHB adhesive. The data box is compatible with NEMA/Decora style data plates.

Data kit is recommended for use with simple trays only.

Omit trays is an option if trays are not needed. However, if power and data access door or cutout is selected, a tray is required.

Block-to-block connector is included with high-capacity power. It can also be ordered separately, along with another power block, to convert standard-capacity power to high-capacity.

Modular power in a dual-sided base or extension unit, without trays, must be secured with a strain relief bracket. Order style number FMVBK for each unit.

Power infeed in a dual-sided base or extension unit without rail, must be secured with a strain relief bracket. To order one use the style number FMVBK for each unit.

48"W and 96"W single-sided bases and extensions accommodate standard-capacity power only.

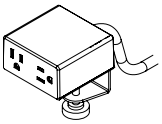
Filler packages are available to fill unused power or data options. Order separately in packages of 20.

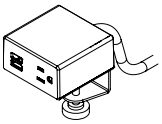
Three wiring schematics are available—3+1, 2+2, and three circuits with separate neutrals (3SN). All the components in an electrical distribution system must use the same wiring schematic. For safety, the components are keyed, labeled, and color-coded to make it impossible to connect mismatched parts.

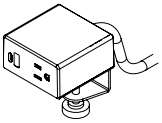
All electrical components are cULus listed to the appropriate industry standards in accordance with the National and Canadian Electrical code.

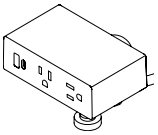
Local electrical codes vary, so consult with your local authority having jurisdiction as they have final say if the products as installed are compliant with local code. Consult a qualified electrical contractor or engineer for the proper installation of all electrical components.

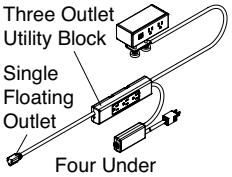
Powerstrip Intro

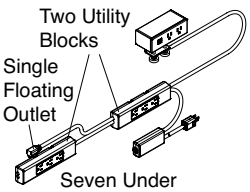












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Product Details

Powerstrip intro offers desktop C-clamped powerstrips with combinations of power outlets, USB-A and USB A+C 20W, and optional under worksurface utility power 4 or 7 power outlets.

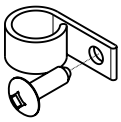
Desktop power configuration options and specifications include:
- Two power
- One power and dual USB-A
- One power and USB A+C 20W
- Two power and one USB-A+C 20W
- Power outlet is 15A, 120V, 60Hz
- Tamper resistant power outlets

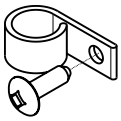
Meets spill test criteria.

Two power with 20 watt intelligent USB A+C:
- If only USB-C in use: delivers what the device needs up to 20 watts
- If only USB-A in use, up to 10 watts
- If both USB A+C in use, USB-A delivers up to 10 watts and 10 watts to USB-C. If USB-A device needs less than 10W, the remainder up to 20 watts goes to the USB-C device
- USB-A watt/amp output (2 port) is 10W/2A per port with dedicated charging ports

C-clamp is designed to accommodate worksurfaces up to 1½" thick.

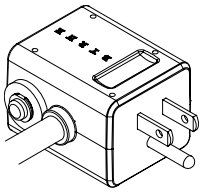
Powerstrip intro USB ports are recommended for charging: cell phones, tablets, headphones, wearable fitness trackers, or other small electronic devices. Not recommended for devices needing higher output, more than 20-watts, like compact laptops. *See* Powerstrip Plus for higher output USB options.





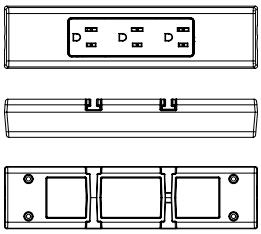
Cable management clips, 2-pack, comes standard with each powerstrip. Mounts under the worksurface to manage cords.
Tip: Cord clip screw length for minimum worksurface thickness of ¾".

Powerstrip intro without optional under worksurface utility power includes a 9-foot standard smooth cord with a diameter of ⅜".



Powerstrip intro includes a standard straight 3-prong plug. An overcurrent protection (OCP) 90-degree plug is also an option. Check with your local authorities having jurisdiction to see if overcurrent protection is required.

Optional Under Worksurface Utility Power



The bottom of each utility powerstrip block has slots. The slots allow the block to slide onto raised bars in the universal cable management trays, sold separately. These help keep the powerstrip in place when the tray is opened or closed.

Optional under worksurface utility power blocks do not ship with independent mounting hardware. They are designed to mount into the universal cable management kit without additional hardware. Kit sold separately.

Universal cable management tray - small tray, **DSTRAYSM**, holds four outlets and large tray, **DSTRAYLG**, holds seven outlets under worksurface utility power.

Overcurrent protection, OCP, via a circuit breaker prevents one powerstrip intro assembly from drawing more than 15 amps of power.

Overcurrent protection is included as standard with powerstrip intro configurations with more than three outlets and is an option on configurations with less than four outlets. Check with your local authorities having jurisdiction to see if overcurrent protection is required for assemblies with less than four outlets.

Overcurrent protection (OCP) includes a circuit breaker rated for 15 amps.

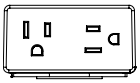
Powerstrip intro with optional under worksurface utility power comes standard with OCP inline box and optional 6-foot or 8-foot standard smooth power cord with a diameter of ⅜". Choice of standard straight or 90 degree NEMA 5-15 3-prong plug.

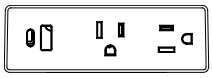
Surface Materials

Housing
- 6009 Arctic White
- 6527 Merle

Tip: Arctic white housing will have white cord and merle housing will have black cord.

Actual Dimensions



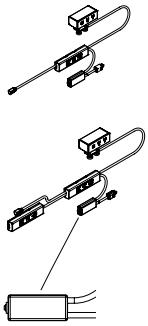


	2 Port	3 Port
D	3 1/16"	3 7/16"
W	3 1/16"	4 11/16"
H	1 5/8"	1 5/8"

Underwriters Laboratory (UL) Listed. These products have been designed to meet U.S. and Canadian national electrical and energy codes and most local building codes. Local electrical codes vary, so consult with your local authority having jurisdiction as they have final say if the products as installed are compliant with local code.

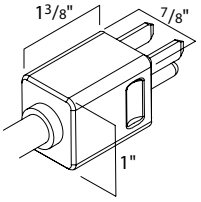
Certifications include:
- cULus

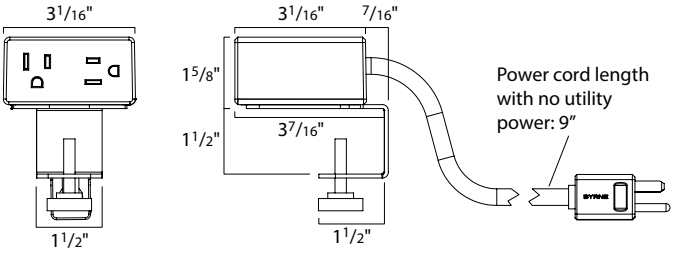
	Without under worksurface utility power	With under worksurface utility power
Power cord lenth	9 ft or 163" curly cord	6 ft and 8 ft options or 163" curly cord
Nema 5-15 3 Prong Plug Options	Standard Straight 1 3/8" x 1" x 7/8"	Standard Straight
	90 degree with Overcurrent Protection (OCP) in plug 2 1/16" x 1 5/8" x 1 7/16"	Standard 90 degree
Overcurrent Protection (OCP) 	90 degree OCP plug	Included with utility power as an inline box



Power and Data

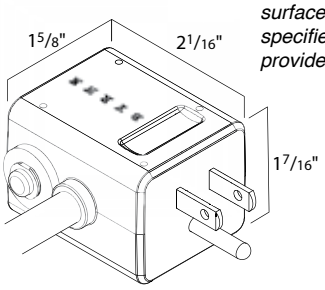
Standard 3-Prong Plug

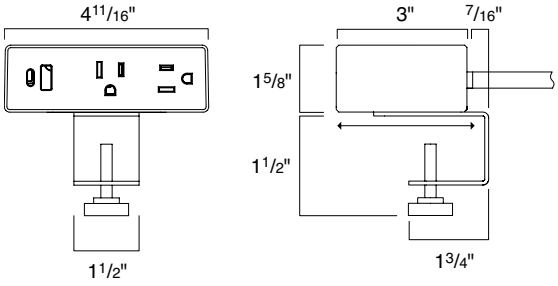




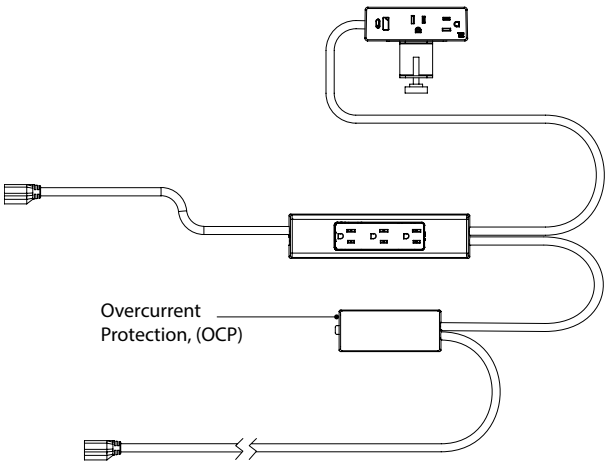
Overcurrent Protection (OCP) 90° Plug

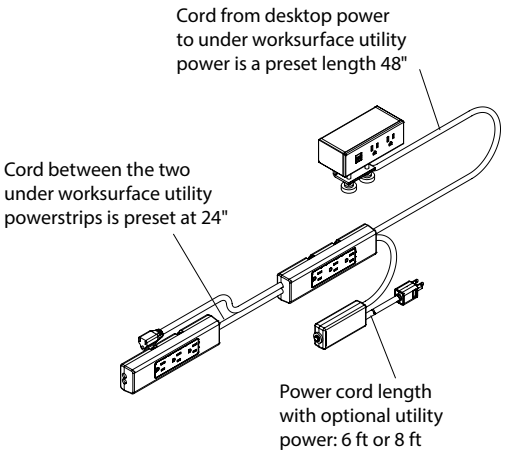
Tip: When no under work-surface utility power is specified this plug will be provided.





Optional Under Worksurface Utility Power

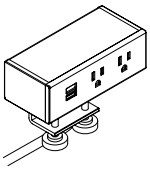


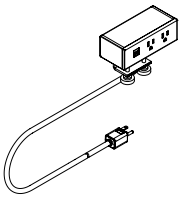


Powerstrip Intro vs. Powerstrip Plus

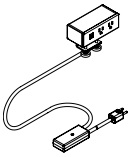
Product Name	Power Strip Intro	Powerstrip Plus
Number of Worksurfaces Power Configurations	4 Power outlets, USB-A and USB A+C 20W	12 Power outlets, USB-A, USB A+C 20W, USB-C 100W and Data
Dual 10W USB-A	Yes	Yes
10W USB-A or 20W USB A+C	Yes	Yes
100W USB-C (Compact laptops)	No	Yes
Mounting Options	C-Clamp	C-Clamp, Rail or Front Edge
Under Worksurface Utilitiy Power Options	4 Outlets or 7 Outlets	4 Outlets 7 Outlets or 9 Outlets
Overcurrent Protection (OCP)	Optional with no utility power Standard with more than three power outlets Standard with utility power	Optional with no utility power Standard with more than three power outlets Standard with utility power
Cord Options	Standard and Curly	Standard, Braided or Curly
Plug Options	**Desktop powerstrip** Standard NEMA or 90 Degree NEMA with overcurrent protection **Desktop powerstrip with optional under worksurface utility powerstrip** Standard NEMA 90 Degree NEMA *OCP is inline box with utility power.	Standard NEMA 90 Degree NEMA Thread Low Profile

Powerstrip Plus

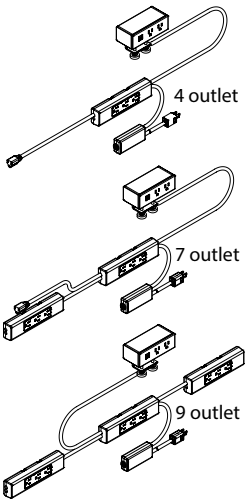




Without overcurrent protection



With overcurrent protection



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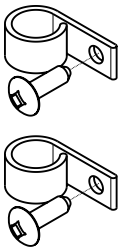
Product Details

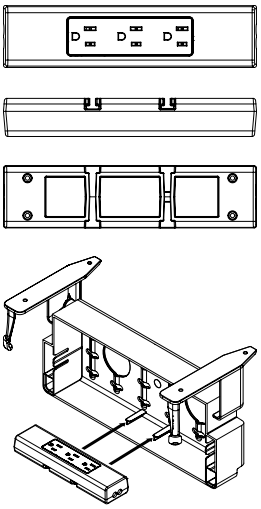
Desktop power offers multiple power, USB, and data options; and can be specified with a C-clamp, rail mount, or front edge mount. Meets spill test criteria.

C-clamp is designed to accommodate worksurfaces between ½" and 1⅜" thick. Also available with rail mount or front edge mount.

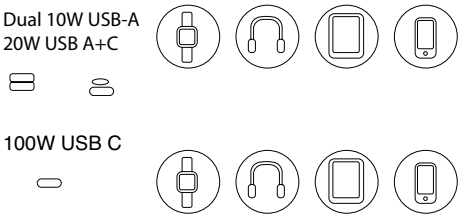
Under worksurface optional utility power blocks do not ship with independent mounting hardware. They are designed to mount into the Universal cable management kit without additional hardware. Kit sold separately.



Cable management kit comes standard with each powerstrip. Mounts under the worksurface to manage cords.
Tip: Cord clip screw length for minimum worksurface thickness of ¾".



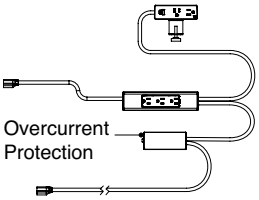
The bottom of each utility powerstrip block has slots. The slots allow the block to slide onto raised bars in the universal cable management kit. These help keep the powerstrip in place when the tray is opened or closed. Universal cable management kit sold separately.



Powerstrip Plus's USB A+C 20W recommended for charging: cell phones, tablets, headphones, wearable fitness trackers, or other small electronic devices.

USB-C 100W recommended for all of the above and compact laptops.

Overcurrent protection via a circuit breaker prevents one powerstrip plus assembly from drawing more than 15 amps of power.



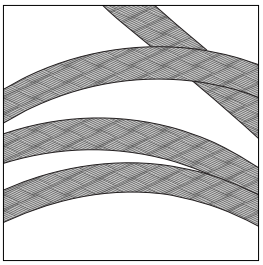
Overcurrent protection is included as standard with powerstrip plus configurations with more than three outlets and is an option on configurations with less than four outlets. Check with your local authorities having jurisdiction to see if overcurrent protection is required for assemblies with less than four outlets.

Power plug options:
- Standard NEMA 5-15 3 prong
- 90 degree NEMA 5-15 3 prong
- Thread low profile plug

Surface Materials

Desktop power
- 6000 Black
- 6009 Arctic White
- 6053 Seagull
- 6302 Baltic
- 6338 Chili
- 6527 Merle
- 6BD1 Aubergine
- 6BD2 Peacock
- 6BD5 Honey
- 6BD6 Lagoon
- 6BD7 Saffron
- 6BE2 Light Peacock

Power cord options and lengths:
- Smooth straight 6', 8', or 10': Black or White
- Braided 6', 8', or 10': Black or Seagull
- Curly cord 8' or 163": Black or White



Braided cord
- 9009 Black
- 9011 Seagull

Actual Dimensions

Diameter of Powerstrip Plus power cords:

Standard	⅓"
Braided	⅖"
Curly (coiled area 1½" diameter)	⅓"

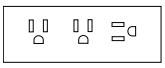
Underwriters Laboratory (UL) Listed. These products have been designed to meet U.S. and Canadian national electrical and energy codes and most local building codes. Local electrical codes vary, so consult with your local authority having jurisdiction as they have final say if the products as installed are compliant with local code.

Power configurations options guide

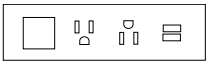
Hedberg Option Code	Number per Powerstrip: Power Outlet	USB-A	USB A+C/ Low Wattage	USB-C/ High Wattage	Data
3P	3				
2P1A	2	2			
2P1AC10	2		1 – 20W		
2P1A1D	2	2			1
2P1C100	2			1 – 100W	
3P1A	3	2			
1P1A1C100	1	2		1 – 100W	
2P1A1C100	2	2		1 – 100W	
2P3A1C20	2	2	1 – 20W		
3P2AC10	3		2 – 20W		
3P1AC101D	3		1 – 20W		1
2P1A1C100D	2	2		1 – 100W	1

Optional data port adapter information chart. (Coupler/jack not included)
Note: Please verify fit of jack in adapter before ordering large quantities as manufacturer designs may change without notice.

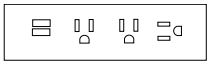
Adapter	Manufacturer
BBB	L-Com Keystone Modular
BBB	NETCONNECT, and 110 Connect Series Modular Jack
BBB	Siemon ZMAX Style
BBB	Allen Tel Versa Tap Series
BBB	Leviton Quick Port Series
BBB	Belden REVConnect
BBB	HDMI Adapter Cable
CCC	Hubbell Nextspeed Keystone Series
CCC	ADC Truenet series
DDD	Blank (no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



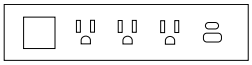
3 power



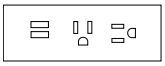
1 data, 2 power
2 10W USB-A



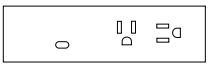
2 10W USB-A, 3 power



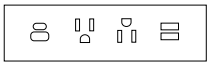
1 data, 3 power
1 USB A+C 20W



2 10W USB-A,
2 power

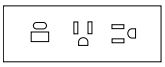


1 100W USB-C
2 power

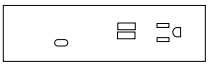


1 USB A+C 20W, 2 power
2 10W USB-A

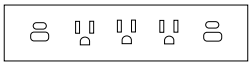
1 100W USB-C
2 10W USB-A, 2 power



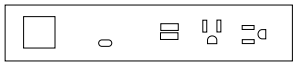
1 USB A+C 20W,
2 power



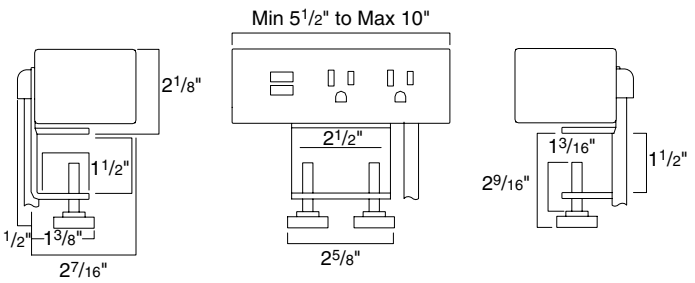
1 power, 2 10W USB-A
1 100W USB-C



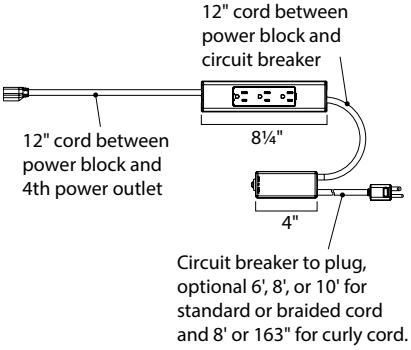
2 USB A+C 20W
3 power

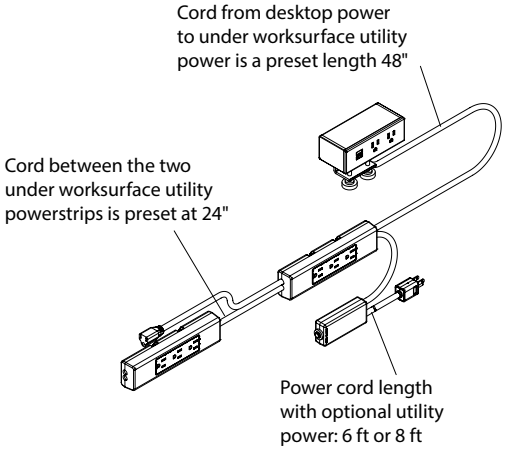


1 data, 1 100W USB-C
2 10W USB-A, 2 power

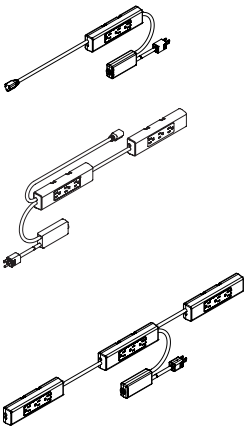


Optional Under Worksurface Utility Power Dimensions





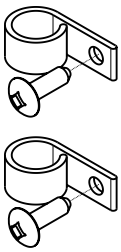
Under Worksurface Utility Power



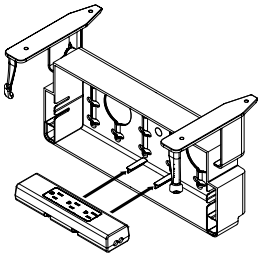
▶ Specifying, page 476

Product Details

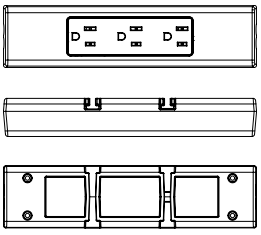
Under worksurface utility power provides multiple power outlets for plugging in a height adjustable desk, computer, and desktop necessities with a one cord out solution.

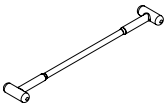


Cable management kit comes standard and mounts under the worksurface to manage cords.
Tip: Cord clip screw length for minimum worksurface thickness of ¾".

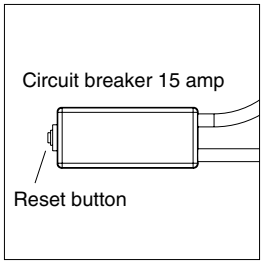


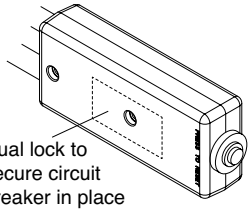
Under worksurface utility power does not ship with independent mounting hardware. The blocks are designed to mount into the universal cable management kit without additional hardware. Kit sold separately.





The bottom of each utility powerstip block has slots. The slots allow the block to slide onto raised bars in the universal cable management kit trays. This design helps keep the powerstrip in place when the tray is opened or closed. Universal cable management kit's smart straps, if selected, are used to hold the power cord in place.
▶ See page 477 for universal cable management kit understanding content.





Overcurrent protection is required by UL on these products.

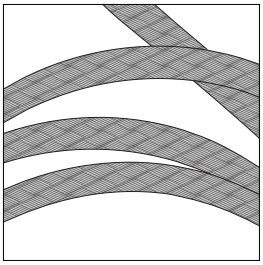
UL Listed: Utility power block outlets are hardwired together in a complete, UL listed assembly.

Tip: Underwriters laboratory (UL) listed. These products have been designed to meet U.S. and Canadian national electrical and energy codes and most local building codes. Local electrical codes vary, so consult with your local authority having jurisdiction as they have final say if the products as installed are compliant with local code.

Power plug options:
- Standard NEMA 5-15 3 prong
- 90 degree NEMA 5-15 3 prong
- Thread low profile plug

Surface Materials

Power cord options and lengths:
- Smooth straight 6', 8', or 10': Black or White
- Braided 6', 8', or 10': Black or Seagull
- Curly cord 8' or 163": Black or White



Braided cord
- 9009 Black
- 9011 Seagull

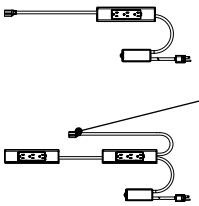
Actual Dimensions

Power blocks

Depth	2"
Width	8¼"
Thickness	1"

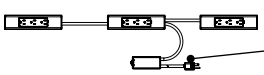
Four outlets total – One utility block, with three outlets each and one floating female outlet

Seven outlets total – Two utility block, with three outlets each and one floating female outlet



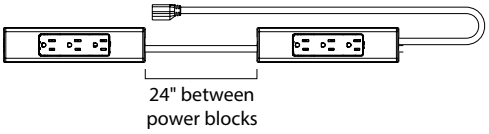
Floating female outlet for oversized plugs or power supplies.

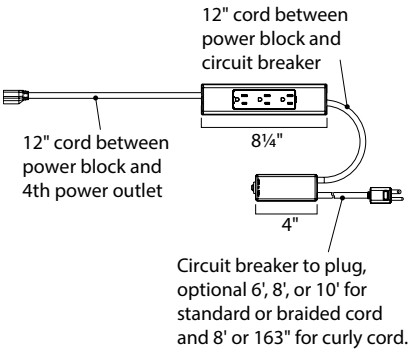
Nine outlets total – Three utility block, with three outlets each.



Optional standard NEMA 3-prong plug, 90° or thread low profile plug.

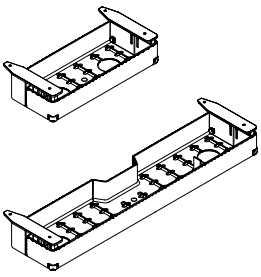
Dimensions





Optional under worksurface utility power available with:
-NEMA 90°
-Standard NEMA 5-15 3-prong
-Thread low profile plug

Universal Cable Management Kit



▶ Specifying, page 477

Product Details

Universal cable management kit provides easy management and access to cords, cables, and power blocks under a workstation.

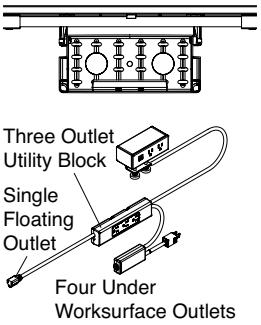
Optional smart straps allow for easy management of cables and cords in the cable management tray. Straps are 5 3/4" long.

Cable management tray is designed to fit behind the stretcher bar and understructure of most Steelcase height-adjustable tables.

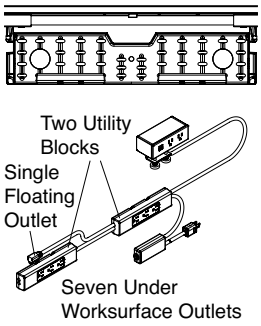
Cable management tray provides tool-free and hardware-free mounting of under worksurface utility power.

Cable management tray allows for a 4/5" gap around all four sides between the tray and the worksurface when mounted to allow for cable egress.

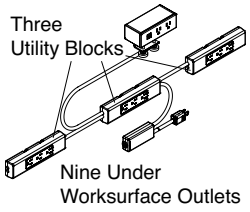
The small 15 1/2" cable management tray is designed to hold one, 4 outlet, utility powerstrip. The tray does not have the capacity to hold more than one utility powerstrip.



The large 30" cable management tray holds two utility powerstrips in the raised bars section. There is capacity to add three utility powerstrips, two in the raised bar area and one more in the tray, strapped down.



Consider ordering one small and one large tray when specifying nine under worksurface outlets, for additional storage.

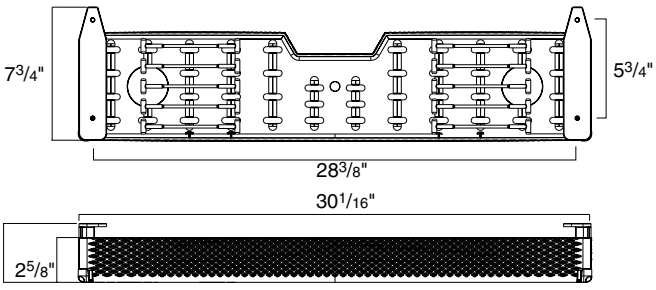


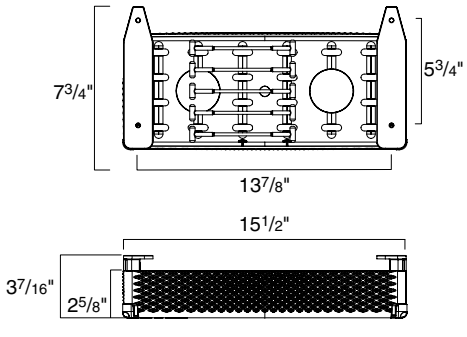
Surface Materials

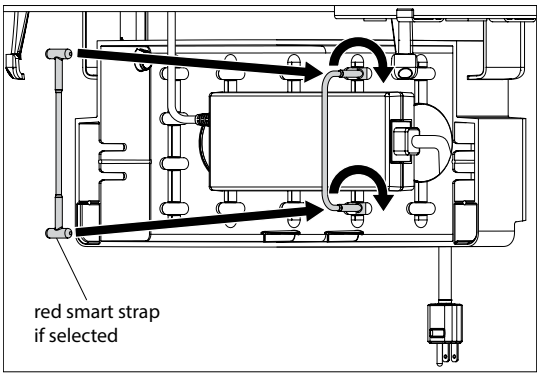
Cable tray
- 6527 Merle

Actual Dimensions

Depth	6 5/16" (7 4/5" with bracket)
Width	15 1/2", 30"
Height	2 5/8" (3 1/2" when installed)



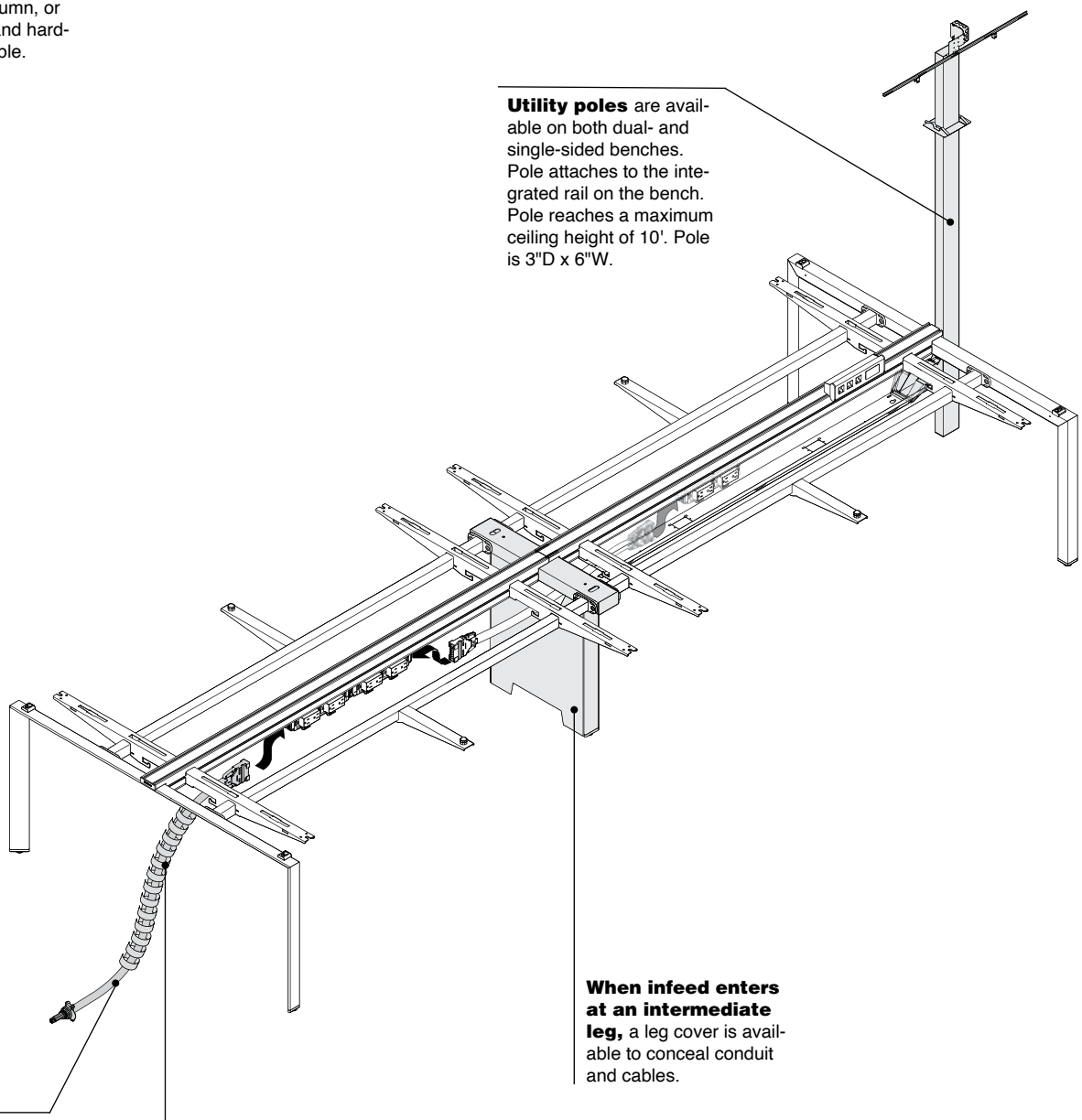




Building Interface

FrameOne

Building power and data can interface with the bench from the floor, wall, column, or ceiling. Both modular and hard-wire infeeds are available.

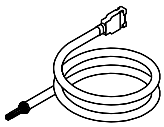


Utility poles are available on both dual- and single-sided benches. Pole attaches to the integrated rail on the bench. Pole reaches a maximum ceiling height of 10'. Pole is 3"D x 6"W.

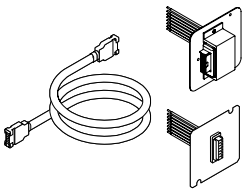
When infeed enters at an intermediate leg, a leg cover is available to conceal conduit and cables.

Infeeds can enter the bench at either end or at an intermediate leg. If lower trays are not being used, the infeed can enter anywhere along the bench.

A vertebral riser is available to conceal the power and data.



Hardwire-to-modular power infeed is available in 6, 12, and 24 foot lengths. If a shorter harness is needed, it can be cut by the electrician. The hardwired end is connected by an electrician to a junction box wherever it is located in the building. The harness is routed into the bench and connected to a power block. Non-PVC is standard. PVC version can be optioned.

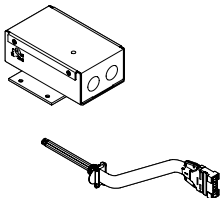


Modular-to-modular power infeed is available in 6, 12, and 24 foot lengths. A straight/flush modular junction box faceplate cover is standard and is wired to a $4^{11}/_{16}$" square junction box located in the building. The harness is then routed into the bench and connected to a power block. A 90° junction box faceplate can be optioned and is recommended for use at a wall or column. The straight/flush is generally used in the floor. Non-PVC is standard. PVC version can be optioned.

Straight/ Flush

90°

Modular junction box faceplate can be ordered separately and used with any modular harness length when 12 and 24 foot lengths are not appropriate. Straight/ flush and 90° faceplates are available. A 90° junction box faceplate is recommended for use at a wall or column. Non-PVC is standard. PVC version can be optioned.

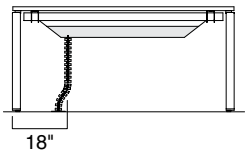


New York power infeeds are available. The junction box is mounted to the underside of the desk. A 50" harness is included to reach the first power block in the bench. If a shorter harness is needed, it can be cut by the electrician. Non-PVC is standard. PVC version can be optioned. Hardwire-to-modular infeeds can also be used.

Hardwired/Chicago power infeeds are supplied by the electrician.

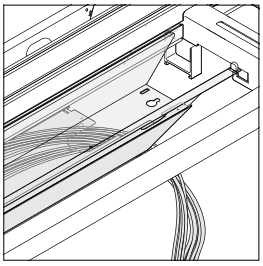
San Francisco can use hardwire or modular infeeds. When infeed is coming from floor or wall, liquid tight metallic conduit may be required. In this case, order infeed specific to San Francisco.

Base power infeeds are not available.



Vertebral riser can attach to the lower tray or simple tray. Its position is approximately 18" from either end of the desk unit. Length is 30".

Extension vertebral riser can be used to conceal conduit and cables along the floor. Length is 15". Risers can be linked to each other for longer length requirements.



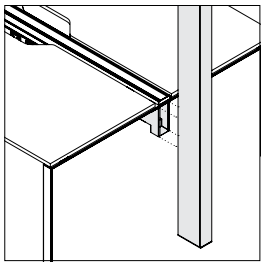
Power and data can enter the bench through the end of the lower tray or simple tray. The opening is approximately 14" from the end of the desk.
▶See *Cable Capacities,* page 422.

Three wiring schematics are available—3+1, 2+2, and three circuits with separate neutrals (3SN). All the components in an electrical distribution system must use the same wiring schematic. For safety, the components are keyed, labeled, and color-coded to make it impossible to connect mismatched parts.

Non-PVC modular electrical components are the standard offering with the option to order PVC on some components. For those trying to gain the LEED Innovation and Design credit, non-PVC should be selected.

All electrical components are cULus listed to the appropriate industry standards in accordance with the National and Canadian Electrical code.

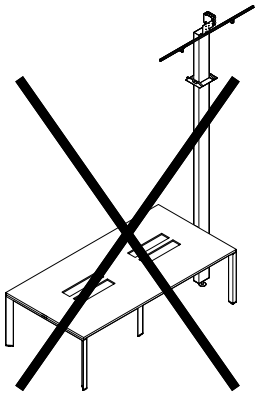
Local electrical codes vary, so consult with your local authority having jurisdiction as they have final say if the products as installed are compliant with local code. Consult a qualified electrical contractor or engineer for the proper installation of all electrical components.



Utility pole connects to simple tray or lower tray.

Utility poles, for dual-sided benches, include a connector piece to conceal cables between the utility pole and tray.

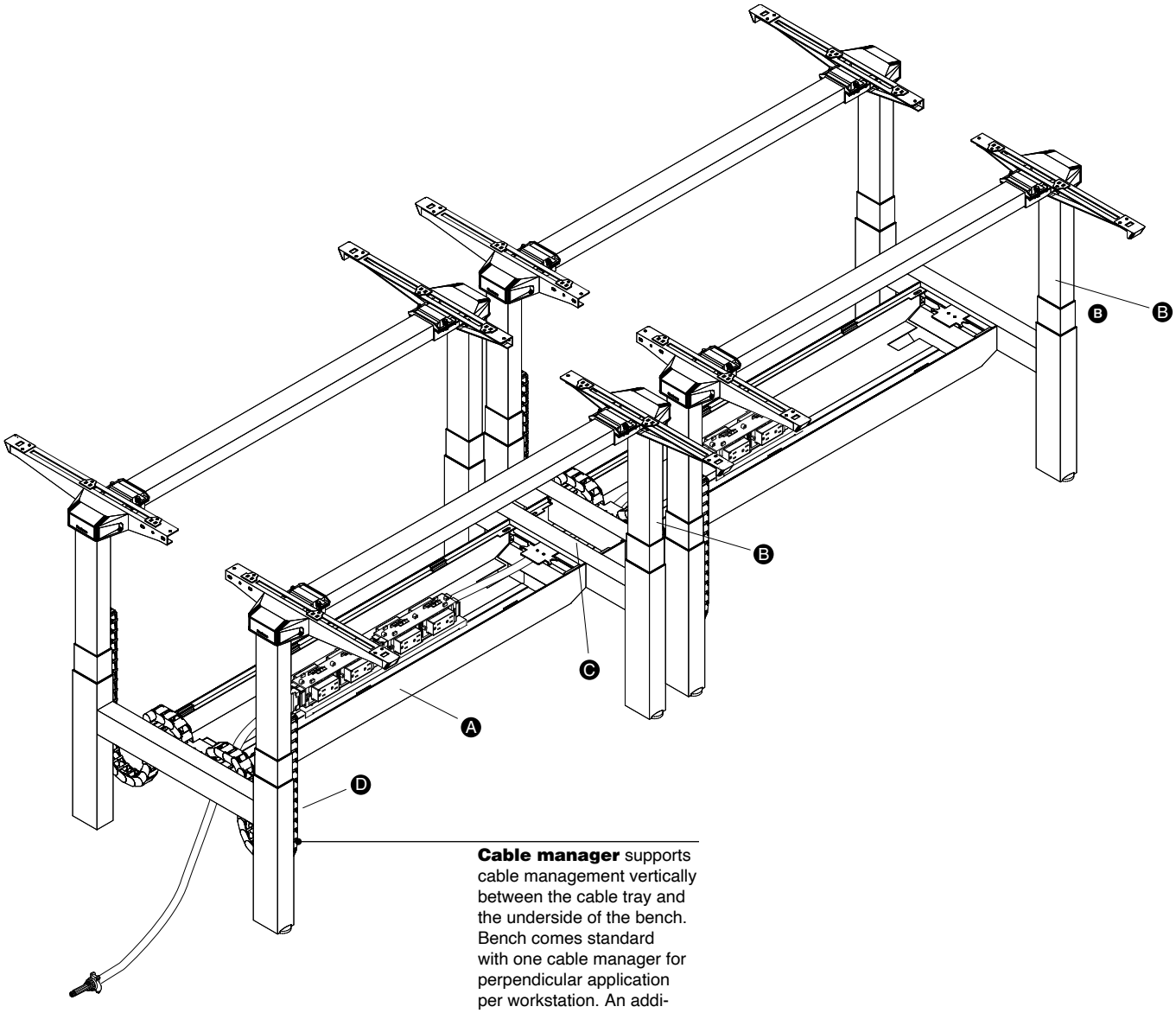
Utility poles, for single-sided benches, do not include the connector piece.



Utility pole cannot be used with continuous top bases or extensions.

Cable Capacities

Ology Bench



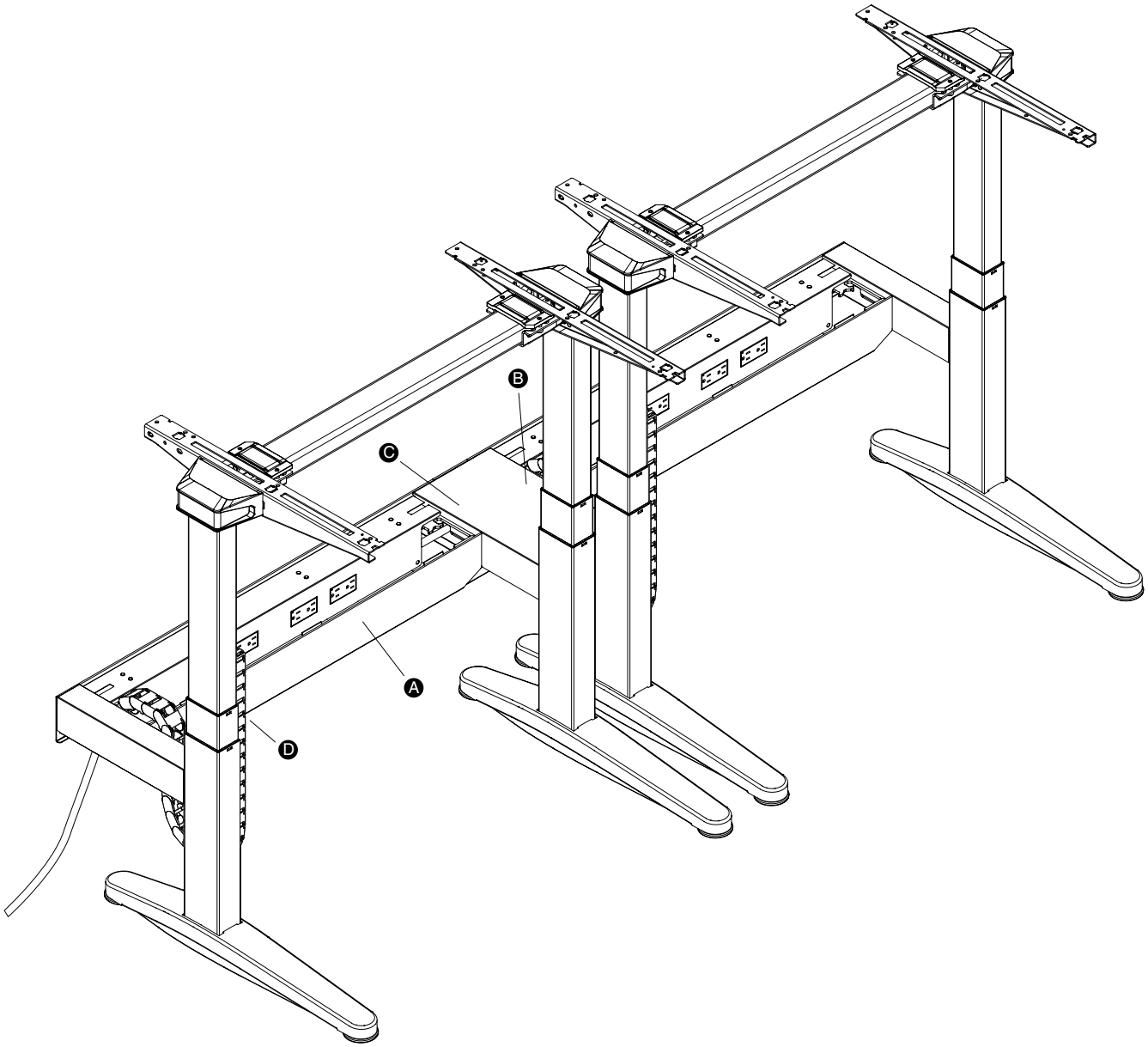
Cable manager supports cable management vertically between the cable tray and the underside of the bench. Bench comes standard with one cable manager for perpendicular application per workstation. An additional cable manager can be specified.

▶Specifying, page 354.

Tray Dimensions

	Outside Diameter of Cable = .223 (5E)		Outside Diameter of Cable = .310 (6A)	
	Maximum Capacity	**Maximum Capacity with Power**	**Maximum Capacity**	**Maximum Capacity with Power**
A Data tray	96	88	48	44
B Infeed at end-of-run or intermediate leg, dual-sided unit	96	88	48	44
C Connection kit	96	88	48	44
D Cable manager	15	10	7	3

Tip: When routing cables through any combination mentioned above, the capacity is equal to the smallest number.



Tray Dimensions

	Outside Diameter of Cable = .223 (5E)		Outside Diameter of Cable = .310 (6A)	
	Maximum Capacity	**Maximum Capacity with Power**	**Maximum Capacity**	**Maximum Capacity with Power**
A Data tray	96	88	48	44
B Infeed at end-of-run or intermediate leg, dual-sided unit	96	88	48	44
C Connection kit	96	88	48	44
D Cable manager	15	10	7	3

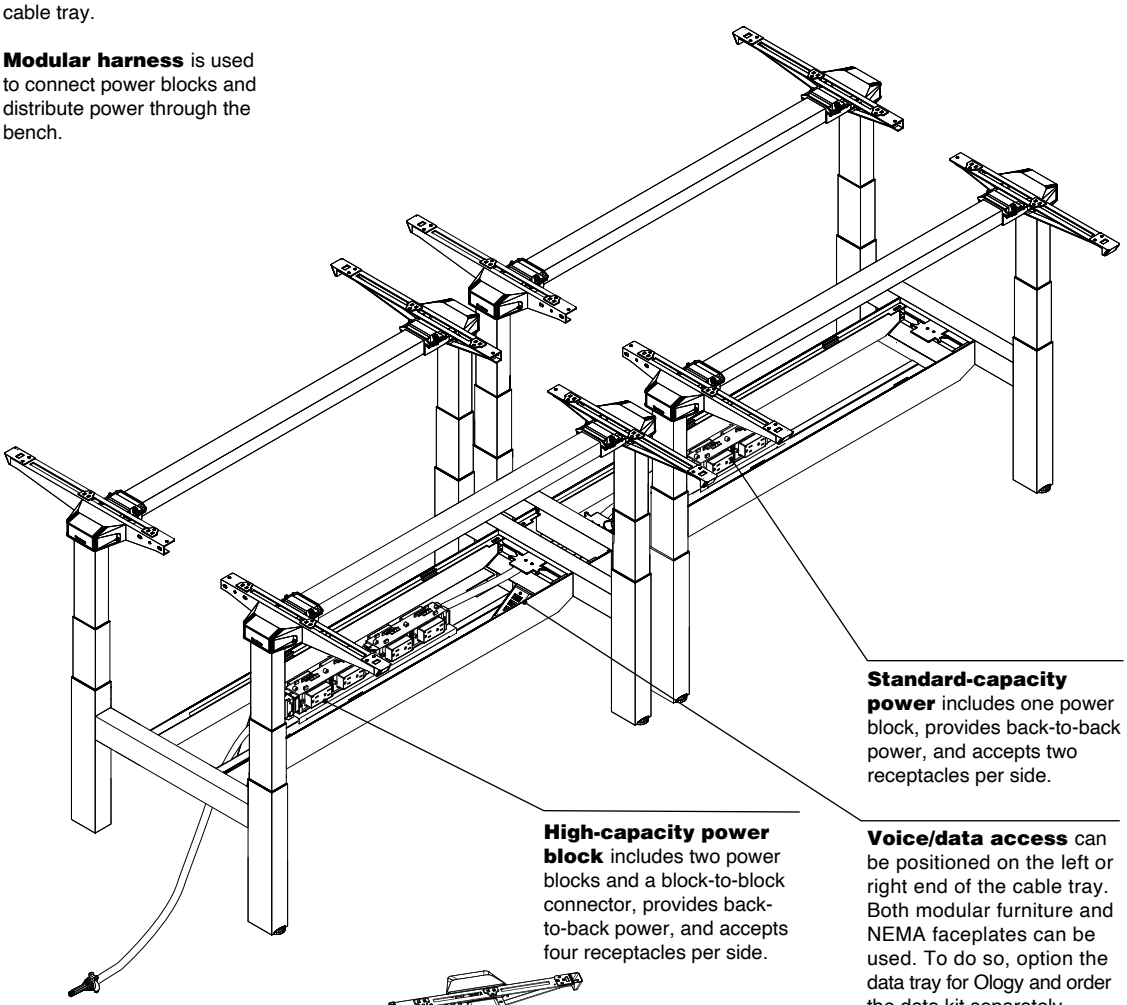
Tip: When routing cables through any combination mentioned above, the capacity is equal to the smallest number.

Distribution and Access

Ology Bench

Power blocks can be placed on the inside of the cable tray.

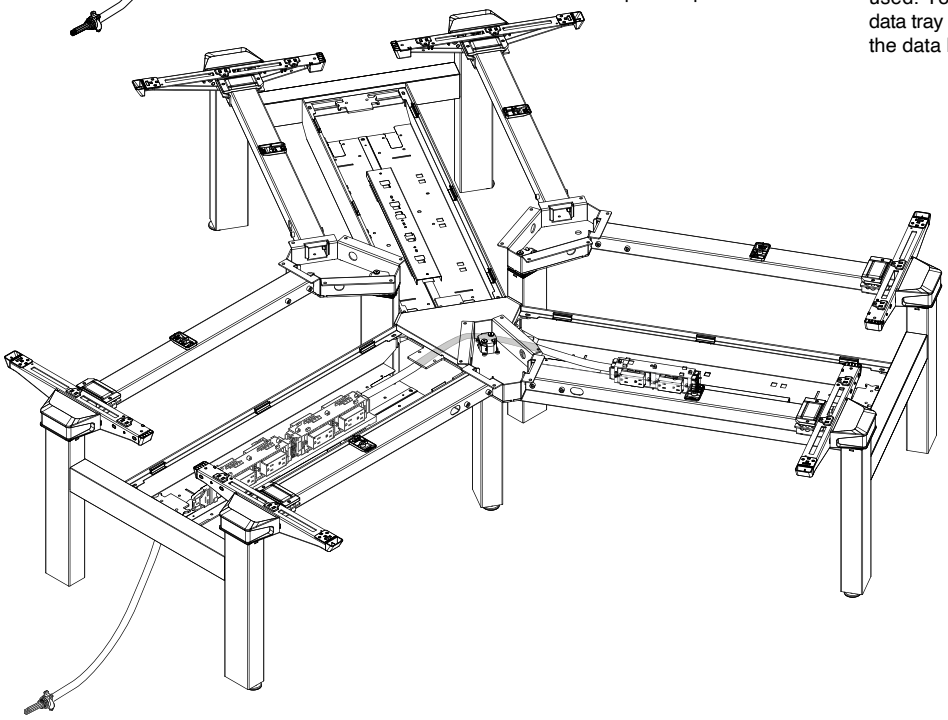
Modular harness is used to connect power blocks and distribute power through the bench.



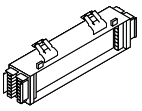
Standard-capacity power includes one power block, provides back-to-back power, and accepts two receptacles per side.

High-capacity power block includes two power blocks and a block-to-block connector, provides back-to-back power, and accepts four receptacles per side.

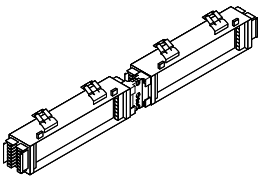
Voice/data access can be positioned on the left or right end of the cable tray. Both modular furniture and NEMA faceplates can be used. To do so, option the data tray for Ology and order the data kit separately.



Wiring and Cabling

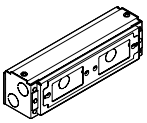


Standard-capacity power includes one power block, provides back-to-back power, and accepts two receptacles per side.



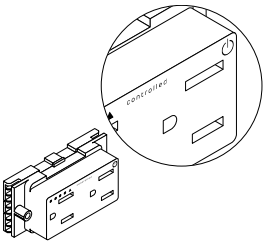
High-capacity power includes two power blocks and a block-to-block connector. It provides back-to-back power, and accepts four receptacles per side.

High-capacity power block is not available on 34"W 120° benches.



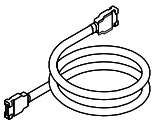
Chicago hardwire box is available. It accommodates two receptacles per side.

Duplex receptacles are available in 15- and 20-amps, isolated or system ground, with multiple line options. Receptacles have two outlets and are ordered separately.

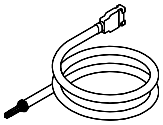


Controlled receptacle must be indicated when tying into the building management system. Duplex receptacles have an option for a factory permanent, pad stamp power icon symbol with the word controlled, per compliance with the Energy Code.

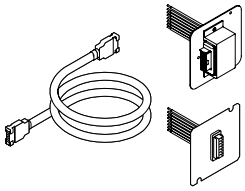
USB receptacles are available in three wiring schematics with multiple line options. USB receptacles offer easy access to two charging ports. Each port provides 1 amperage of output. USB receptacles conveniently charge a wide range of electronic devices. Some devices may not be compatible.



Modular harnesses are used to connect power blocks.
▶See *Power Routing Harness Chart*, page 416, to determine lengths needed.



Hardwire-to-modular power infeed is available in 12 and 24 foot lengths. If a shorter harness is needed, it can be cut by the electrician. The hardwired end is connected by an electrician to a junction box wherever it is located in the building. The harness is routed into the bench and connected to a power block. Non-PVC is standard. PVC version can be optioned.



Modular-to-modular power infeed is available in 12 and 24 foot lengths. A straight/flush modular junction box faceplate cover is standard and is wired to a 4 11/16" square junction box located in the building. The harness is then routed into the bench and connected to a power block. A 90° junction box faceplate can be optioned and is recommended for use at a wall or column. The straight/flush is generally used in the floor. Non-PVC is standard. PVC version can be optioned.

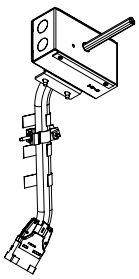
Straight/ Flush

90°

Modular junction box faceplate can be ordered separately and used with any modular harness length when 12 and 24 foot lengths are not appropriate. Straight/flush and 90° faceplates are available. A 90° junction box faceplate is recommended for use at a wall or column. Non-PVC is standard. PVC version can be optioned.

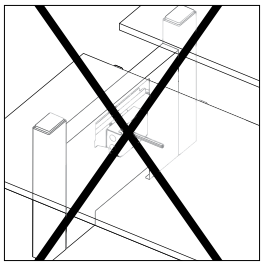
Hardwired/Chicago power infeeds are supplied by the electrician.

San Francisco can use hardwire or modular infeeds. When infeed is coming from floor or wall, liquid tight metallic conduit may be required. In this case, order infeed specific to San Francisco.



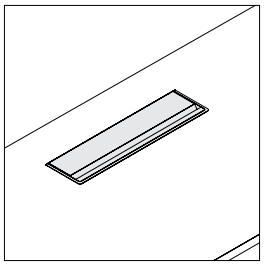
New York power infeeds are available. The junction box is mounted to the cross tube at the end of the cable tray.

A 50" harness is included to reach the first power block in the bench. If shorter harness in needed, it can be cut by the electrician. Non-PVC is standard. PVC version can be optioned. Hardwire-to-modular infeeds can also be used.

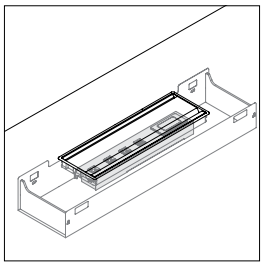


End-of-run infills, intermediate infills, boundary screens, or FrameOne end panels cannot be used when New York infeed is present. Shared intermediate infills can be used when New York infeed is located in the middle of a run.

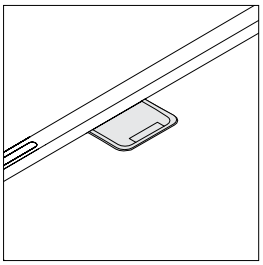
Base power infeeds are not available.



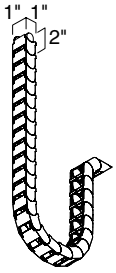
Power and data access door and tray with USB is available as an option. The door is 16 1/2"W and centered on the surface, providing user access to power, data, and USB, as well as cord management. Corner desks can support the access door on either side of the desk or on both sides and will have a cord drop on the opposite side when an integrated rail is specified.



Power strip, located in tray, includes three outlets and easy access to two USB charging ports. Each port provides two amperage of output. USB receptacles conveniently charge a wide range of electronic devices, though not all devices are USB compatible. Cord length is 10'. Data can be terminated and accessed in the tray, and it is positioned to the right. Both modular furniture and NEMA faceplates can be used. Chicago and California have special requirements. Benches shipping to Chicago and California with the power access door option have a power strip with overcurrent protection.

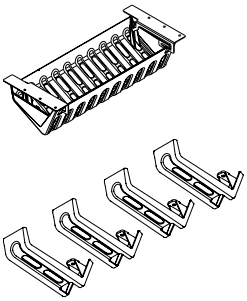


Grommets come in pairs and are available as an option. They can help manage cable/cords going from the top of bench to the underside. 120° corners offer pairs of grommets on the left side, right side, or both sides. Grommet inside dimensions are 3 1/4"W X 3 3/4"D.
Tip: When a grommet is specified, power and data access door cannot be applied.



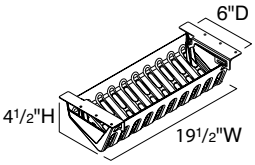
Cable manager inside dimensions are 1"D x 1"W to accommodate a variety of cord sizes. Overall depth is 2".

Cable manager supports cable management vertically between the cable tray and the underside of the bench. Bench comes standard with one cable manager for perpendicular application per workstation. An additional cable manager can be specified.
▶Specifying, page 354

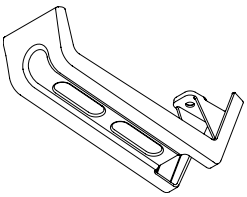


Cable basket and cable brackets, ordered separately, support horizontal cable management below the worksurface.

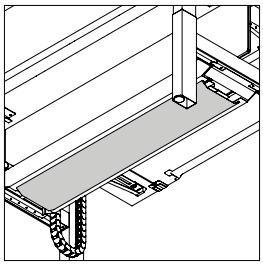
Cable baskets are available on benches 40"W or larger.



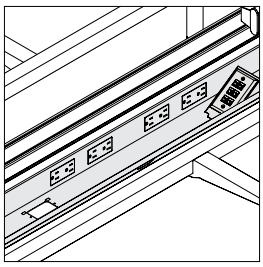
Cable baskets inside dimensions are 6"D x 17¾"W x 4¼"H and the overall width is 19½"W with a height of 4½"H.



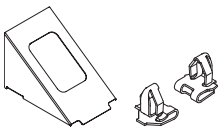
Inside dimensions of cable brackets are 6"D x 2"H.



Data tray, available as an option, attaches to the underside of the cable tray to manage the routing of voice and data cables.



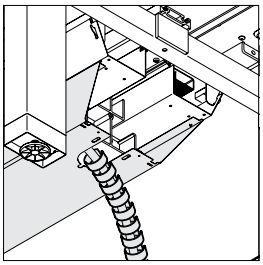
Data can be terminated and accessed in the data kit which mounts to the cable tray. The data kit can be positioned on either the left or right side of the cable tray.



Data kit, ordered separately, provides voice/data termination. A data termination box and two pieces of wire manager are included. Both modular furniture and NEMA faceplates can be used, which are provided by the data installer. For a dual-sided bench, two data kits should be ordered, one for each.

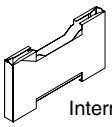
Block-to-block connector is included with high-capacity power. It can also be ordered separately, along with another power block, to convert standard-capacity power to high-capacity.

Filler packages are available to fill unused power or data options. Order separately in packages of 20.

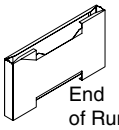


Power and data can enter the bench through the end of the tray. The opening is approximately 8¼" from the end of the desk.

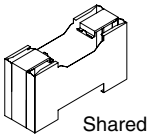
▶See *Base Power and Cable Capacities,* page 444.



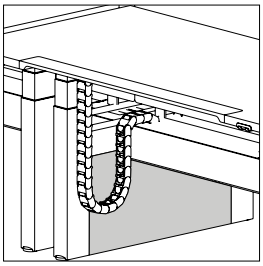
Intermediate



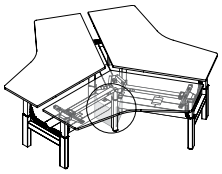
End of Run



Shared Intermediate



Infills, available for dual-sided benches are painted steel and can be positioned at the end of a run, in line using an intermediate infill, or shared intermediate infill.



Center infill for triple-sided 120° corner bench can be used to close the space between all three corner legs to conceal large amounts of power and data entering the bench.

Surface Materials

Power and Data Access Door and Tray

Door

- 4799 Platinum Metallic
- 7241 Arctic White
- 7360 Merle
- Anodized aluminum

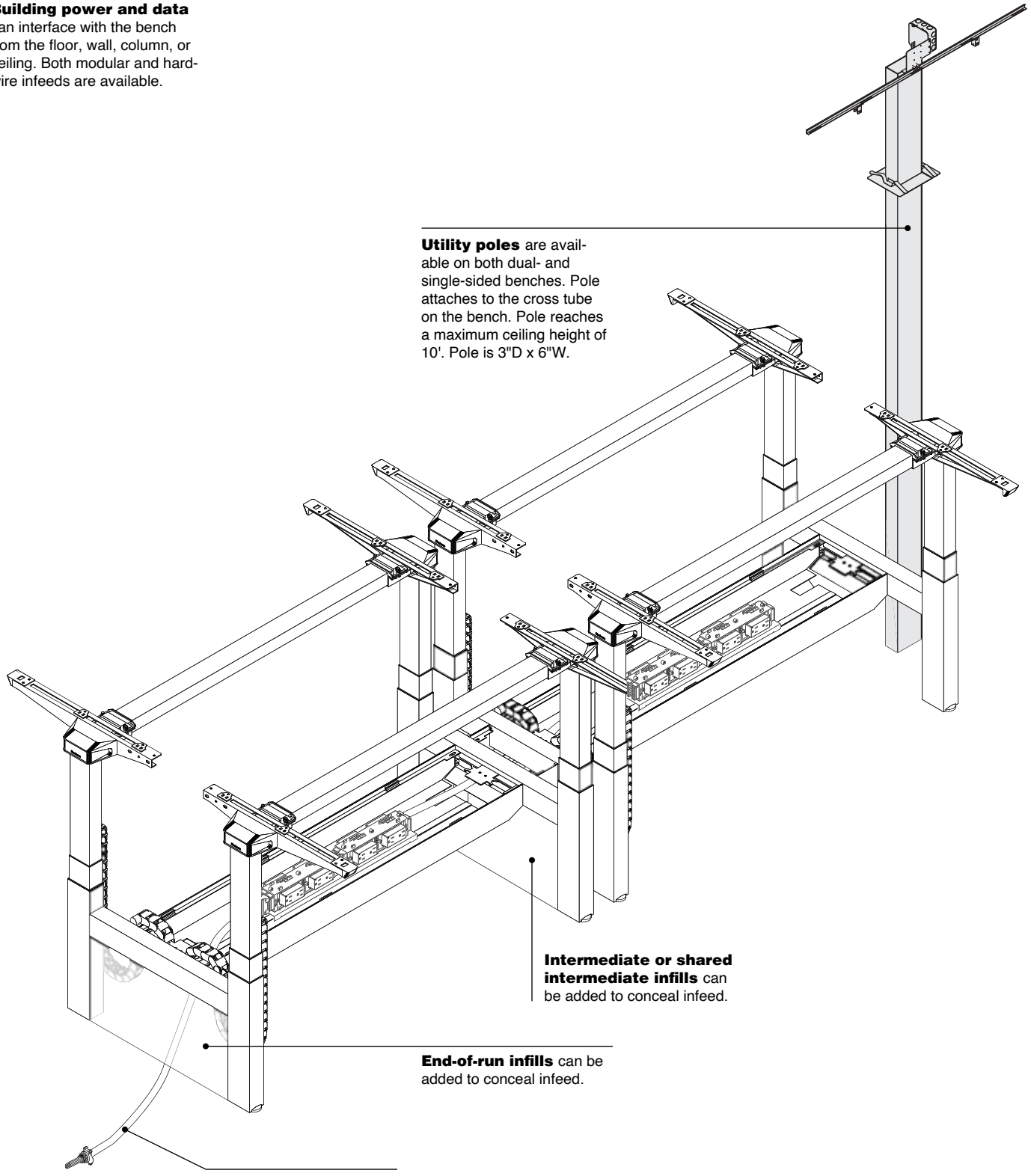
Door bezel

- 6527 Merle

Building Interface

Ology Bench

Building power and data can interface with the bench from the floor, wall, column, or ceiling. Both modular and hard-wire infeeds are available.

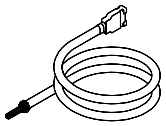


Utility poles are available on both dual- and single-sided benches. Pole attaches to the cross tube on the bench. Pole reaches a maximum ceiling height of 10'. Pole is 3"D x 6"W.

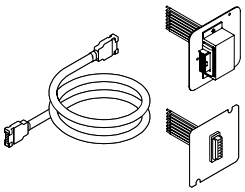
Intermediate or shared intermediate infills can be added to conceal infeed.

End-of-run infills can be added to conceal infeed.

Infeeds can enter the bench at either end or at the connection kit between two benches.



Hardwire-to-modular power infeed is available in 6, 12, and 24 foot lengths. If a shorter harness is needed, it can be cut by the electrician. The hardwired end is connected by an electrician to a junction box wherever it is located in the building. The harness is routed into the bench and connected to a power block. Non-PVC is standard. PVC version can be optioned.



Modular-to-modular power infeed is available in 6, 12, and 24 foot lengths. A straight/flush modular junction box faceplate cover is standard and is wired to a 4 11/16" square junction box located in the building. The harness is then routed into the bench and connected to a power block. A 90° junction box faceplate can be optioned and is recommended for use at a wall or column. The straight/flush is generally used in the floor. Non-PVC is standard. PVC version can be optioned.

Straight/ Flush

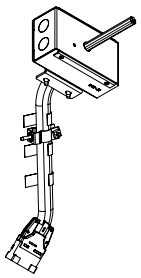
90°

Modular junction box faceplate can be ordered separately and used with any modular harness length when 12 and 24 foot lengths are not appropriate. Straight/ flush and 90° faceplates are available. A 90° junction box faceplate is recommended for use at a wall or column. Non-PVC is standard. PVC version can be optioned.

Hardwired/Chicago power infeeds are supplied by the electrician.

San Francisco can use hardwire or modular infeeds. When infeed is coming from floor or wall, liquid tight metallic conduit may be required. In this case, order infeed specific to San Francisco.

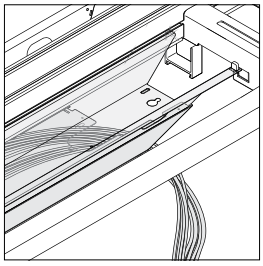
Base power infeeds are not available.



New York power infeeds are available. The junction box is mounted to the cross tube at the end of the cable tray.

A 50" harness is included to reach the first power block in the bench. If shorter harness in needed, it can be cut by the electrician. Non-PVC is standard. PVC version can be optioned. Hardwire-to-modular infeeds can also be used.

End-of-run or intermediate infills cannot be applied at the same location as the New York infeed. New York infeed can be used with shared intermediate infills.



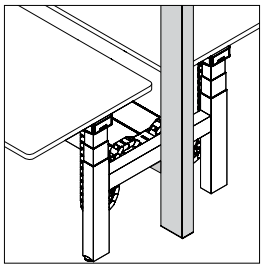
Power and data can enter the bench through the end of the cable tray. The opening is approximately 8¼" from the end of the bench.
▶See *Cable Capacities,* page 444.

Three wiring schematics are available—3+1, 2+2, and three circuits with separate neutrals (3SN). All the components in an electrical distribution system must use the same wiring schematic. For safety, the components are keyed, labeled, and color- coded to make it impossible to connect mismatched parts.

Non-PVC modular electrical components are the standard offering with the option to order PVC on some components. For those trying to gain the LEED Innovation and Design credit, non-PVC should be selected.

All electrical components are cULus listed to the appropriate industry standards in accordance with the National and Canadian Electrical code.

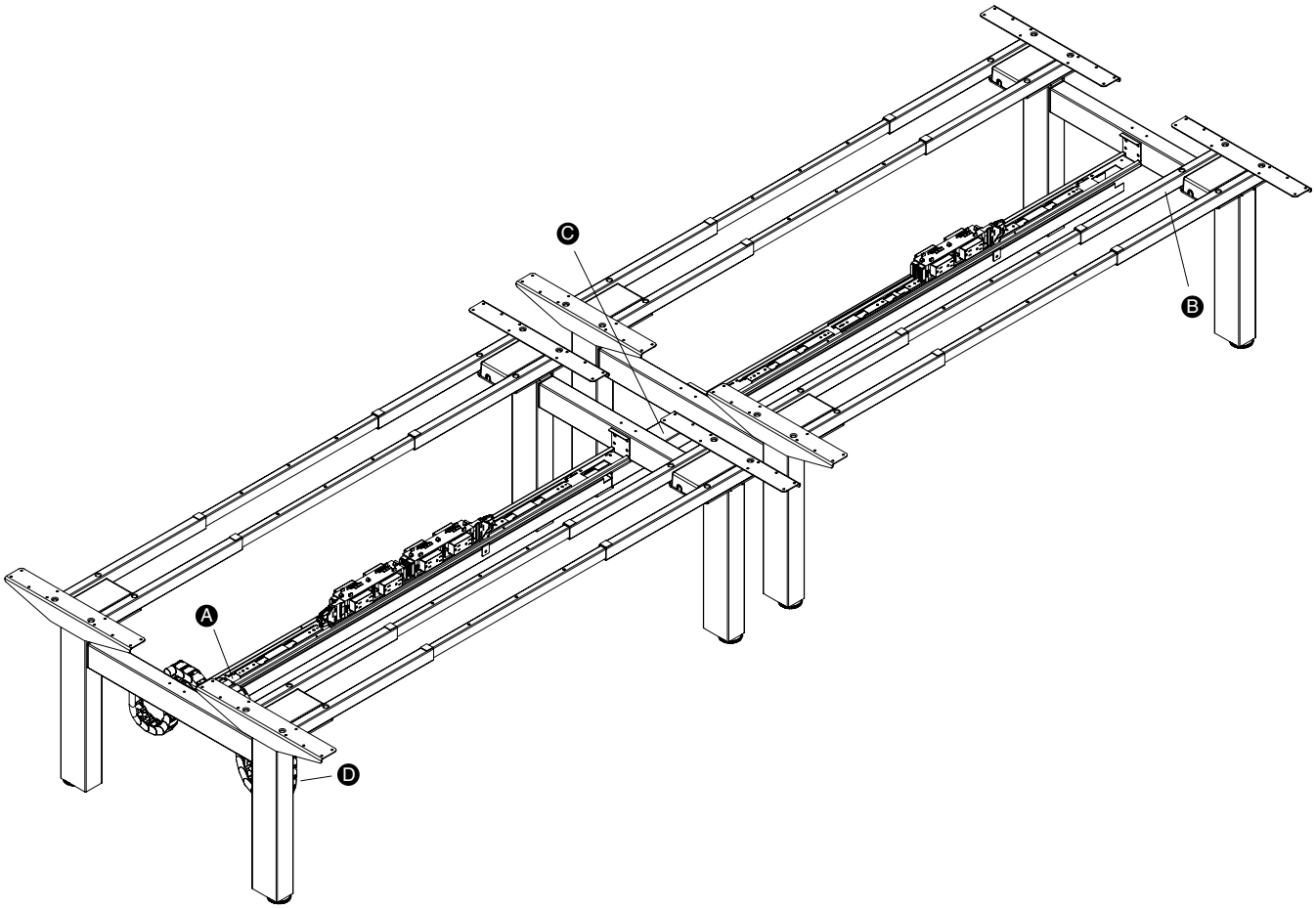
Local electrical codes vary, so consult with your local authority having jurisdiction as they have final say if the products as installed are compliant with local code. Consult a qualified electrical contractor or engineer for the proper installation of all electrical components.



Utility pole connects to the cross tube on a dual-sided or single-sided bench.

Cable Capacities

Migration SE Bench



Infeeds can enter the bench at either end or at the connection kit between two benches.

	Tray Dimensions			
	Outside Diameter of Cable = .223 (5E)		Outside Diameter of Cable = .310 (6A)	
	Maximum Capacity	Maximum Capacity with Power	Maximum Capacity	Maximum Capacity with Power
A Data manager	64	64	32	32
B Infeed at end-of-run or intermediate leg, dual-sided unit	64	64	32	32
C Connection kit	64	64	32	32
D Cable riser	15	10	7	3

Tip: The TIA recommends a maximum fill rate of 40%.
Tip: When routing cables through any combination mentioned above, the capacity is equal to the smallest number.

Interface, Distribution, and Access

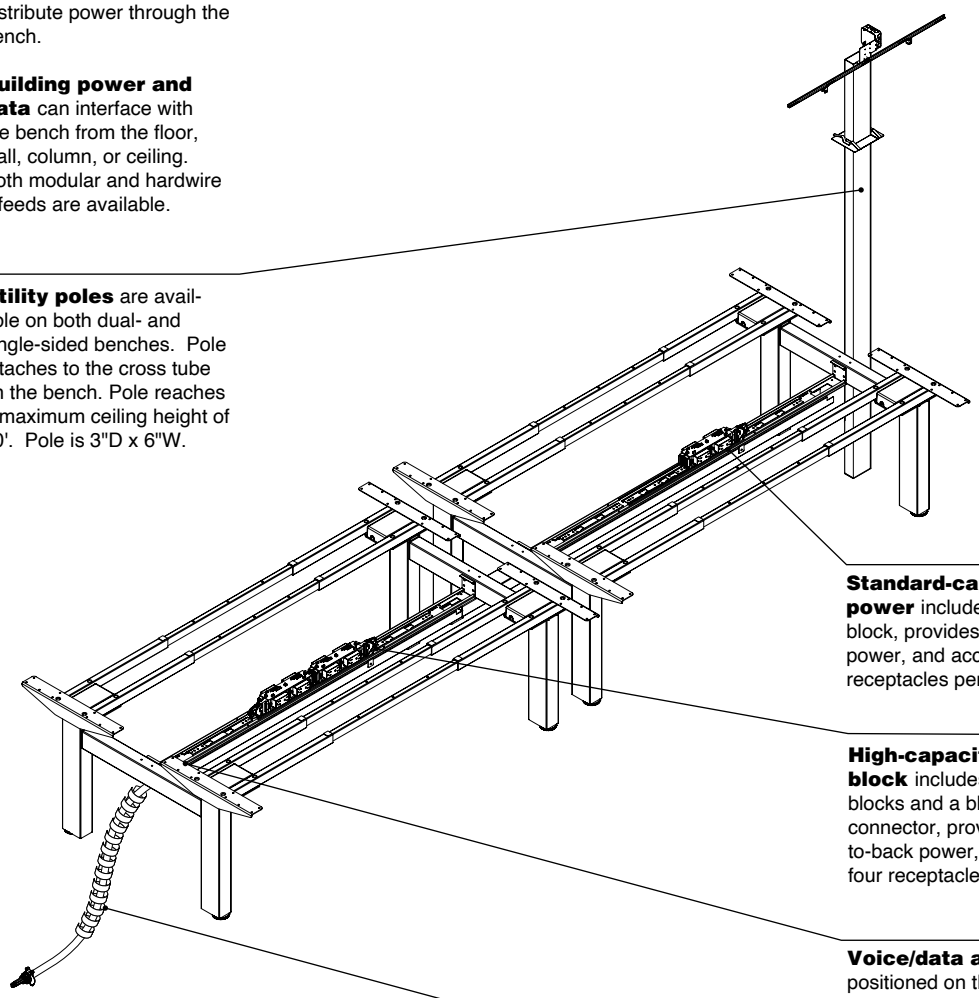
Migration SE Bench

Power blocks are located on the inside of the power beam.

Modular harness is used to connect power blocks and distribute power through the bench.

Building power and data can interface with the bench from the floor, wall, column, or ceiling. Both modular and hardwire infeeds are available.

Utility poles are available on both dual- and single-sided benches. Pole attaches to the cross tube on the bench. Pole reaches a maximum ceiling height of 10'. Pole is 3"D x 6"W.



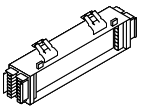
Standard-capacity power includes one power block, provides back-to-back power, and accepts two receptacles per side.

High-capacity power block includes two power blocks and a block-to-block connector, provides back-to-back power, and accepts four receptacles per side.

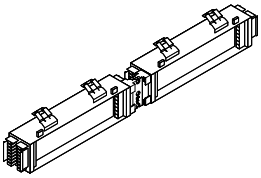
Voice/data access is positioned on the left end of the power beam. Both modular furniture and NEMA faceplates can be used.

Infeeds can enter the bench at either end or at the connection kit between two benches.

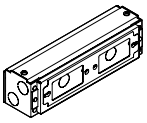
Wiring and Cabling



Standard-capacity power includes one power block, provides back-to-back power, and accepts two receptacles per side.

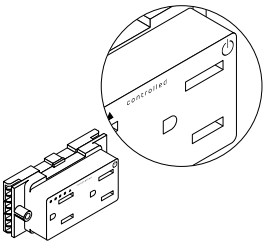


High-capacity power includes two power blocks and a block-to-block connector. It provides back-to-back power, and accepts four receptacles per side.



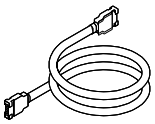
Chicago hardwire box is available. It accommodates two receptacles per side.

Duplex receptacles are available in 15- and 20-amps, isolated or system ground, with multiple line options. Receptacles have two outlets and are ordered separately.

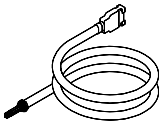


Controlled receptacle must be indicated when tying into the building management system. Duplex receptacles have an option for a factory permanent, pad stamp power icon symbol with the word controlled, per compliance with the Energy Code.

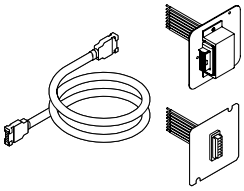
USB receptacles are available in three wiring schematics with multiple line options. USB receptacles offer easy access to two charging ports. Each port provides 1 amperage of output. USB receptacles conveniently charge a wide range of electronic devices. Some devices may not be compatible.



Modular harnesses are used to connect power blocks.
▶See *Power Routing Harness Chart*, page 416, to determine lengths needed.



Hardwire-to-modular power infeed is available in 12 and 24 foot lengths. If a shorter harness is needed, it can be cut by the electrician. The hardwired end is connected by an electrician to a junction box wherever it is located in the building. The harness is routed into the bench and connected to a power block. Non-PVC is standard. PVC version can be optioned.



Modular-to-modular power infeed is available in 12 and 24 foot lengths. A straight/flush modular junction box faceplate cover is standard and is wired to a $4^{11}/_{16}$" square junction box located in the building. The harness is then routed into the bench and connected to a power block. A 90° junction box faceplate can be optioned and is recommended for use at a wall or column. The straight/flush is generally used in the floor. Non-PVC is standard. PVC version can be optioned.

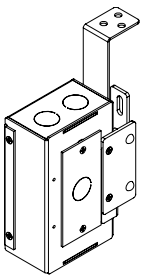
Straight/
Flush

90°

Modular junction box faceplate can be ordered separately and used with any modular harness length when 12 and 24 foot lengths are not appropriate. Straight/flush and 90° faceplates are available. A 90° junction box faceplate is recommended for use at a wall or column. Non-PVC is standard. PVC version can be optioned.

Hardwired/Chicago power infeeds are supplied by the electrician.

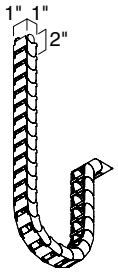
San Francisco can use hardwire or modular infeeds. When infeed is coming from floor or wall, liquid tight metallic conduit may be required. In this case, order infeed specific to San Francisco.



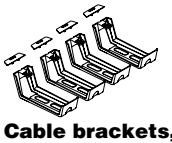
New York power infeeds are available. The junction box is mounted to the cross tube at the end of the power beam.

A 50" harness is included to reach the first power block in the bench. If shorter harness in needed, it can be cut by the electrician. Non-PVC is standard. PVC version can be optioned. Hardwire-to-modular infeeds can also be used.

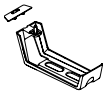
Cable riser, available as an option, supports cable management vertically between the power beam and the underside of the bench.
▶Specifying, page 394



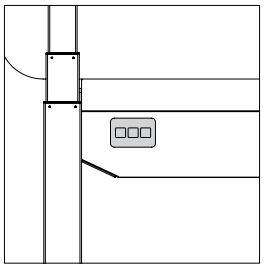
Cable riser inside dimensions are 1"D x 1"W to accommodate a variety of cord sizes. Overall depth is 2".



Cable brackets, ordered separately, support horizontal cable management below the worksurface.



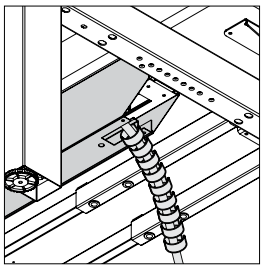
Inside dimensions of cable brackets are 6"D x 2"H.



Data can be terminated in the power beam, located on the left side. Both modular furniture size and NEMA size are available as an option. Specify fillers when data opening is not in use.

Block-to-block connector is included with high-capacity power. It can also be ordered separately, along with another power block, to convert standard-capacity power to high-capacity.

Filler packages are available to fill unused power or data options. Order separately in packages of 20.



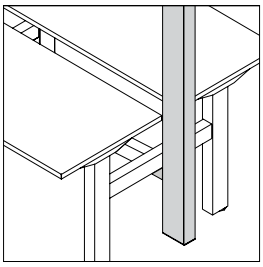
Power and data can enter the bench through the end of the tray. The opening is approximately $8^1/_4$" from the end of the desk.
▶See *Base Power and Cable Capacities,* page 452.

Three wiring schematics are available—3+1, 2+2, and three circuits with separate neutrals (3SN). All the components in an electrical distribution system must use the same wiring schematic. For safety, the components are keyed, labeled, and color-coded to make it impossible to connect mismatched parts.

Non-PVC modular electrical components are the standard offering with the option to order PVC on some components. For those trying to gain the LEED Innovation and Design credit, non-PVC should be selected.

All electrical components are cULus listed to the appropriate industry standards in accordance with the National and Canadian Electrical code.

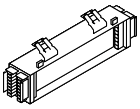
Local electrical codes vary, so consult with your local authority having jurisdiction as they have final say if the products as installed are compliant with local code. Consult a qualified electrical contractor or engineer for the proper installation of all electrical components.



Utility pole connects to the cross tube on a dual-sided or single-sided bench.

Power and Data

Modular Power Block—Standard-Capacity



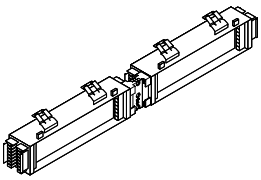
Standard Includes	Required to Specify
▶ Need help? Product details, page 427 • Non-PVC power block	1 Style number 2 Power schematic (see below)

	Options	U.S. Price	Required to Specify
Power Schematics	• 3+1	No cost	Specify *with 3+1.*
	• 2+2	No cost	Specify *with 2+2.*
	• 3SN	No cost	Specify *with 3SN.*

Specification Information

Style Number	U.S. Price
FMVPBS	$252

Modular Power Block—High-Capacity



Standard Includes	Required to Specify
▶ Need help? Product details, page 427 • Two non-PVC power blocks • Block-to-block connector	1 Style number 2 Power schematic (see below)

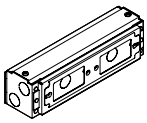
	Options	U.S. Price	Required to Specify
Power Schematics	• 3+1	No cost	Specify *with 3+1.*
	• 2+2	No cost	Specify *with 2+2.*
	• 3SN	No cost	Specify *with 3SN.*

Specification Information

Style Number	U.S. Price
FMVPBH	$538

For Canadian Pricing
Multiply U.S. Price by the Canadian price factor.
▶ See page 1 for details.

Chicago Hardwire Box



Standard Includes	Required to Specify
▶ Need help? Product details, page 427	• Hardwire box: black	Style number

Specification Information

• Style Number	• U.S. Price
FMVCP	$372

For Canadian Pricing
Multiply U.S. Price by the Canadian price factor.
▶ See page 1 for details.

Power and Data Receptacles and Filler Package

Duplex Receptacle

Tip: Duplex receptacles are not for use with dash lights. Specify with flexible receptacles.
▶Page *459*

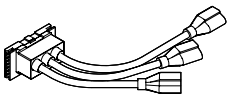
Standard Includes	Required to Specify
▶Need help? Product details, page 427 • 15-amp, system ground duplex receptacle: plastic	1 Style number 2 Power schematic 3 Specify plastic color number for receptable: 6000 Black 6009 Arctic White 6527 Merle 6899 Platinum Metallic 4 Options, if selected (see below)

	Options	U.S. Price	Required to Specify
Power Schematics and Line Options	**3+1**		
	• Line 1	No cost	Specify *with 3+1, line 1.*
	• Line 2	No cost	Specify *with 3+1, line 2.*
	• Line 3	No cost	Specify *with 3+1, line 3.*
	• Line 4	No cost	Specify *with 3+1, line 4.*
	2+2		
	• Line 1	No cost	Specify *with 2+2, line 1.*
	• Line 2	No cost	Specify *with 2+2, line 2.*
	• Line 3	No cost	Specify *with 2+2, line 3.*
	• Line 4	No cost	Specify *with 2+2, line 4.*
	3SN		
	• Line 1	No cost	Specify *with 3SN, line 1.*
	• Line 2	No cost	Specify *with 3SN, line 2.*
	• Line 3	No cost	Specify *with 3SN, line 3.*
Amperage	• 20-amp	+$34	Specify *with 20-amp.*
Ground Type	• Isolated	+$19	Specify *with isolated ground.*
Controlled Stamp	• No stamp	No cost	Specify *with no stamp.*
	• Controlled stamp	+$ 5	Specify *with controlled stamp.*

Specification Information	
• **Style Number**	• **U.S. Base Price**
FMVRD	$48

For Canadian Pricing
Multiply U.S. Price by the Canadian price factor.
▶See page 1 for details.

Flexible Receptacle



Tip: Specify flexible receptacles for use with dash lights.

Tip: Flexible receptacle is for use with FrameOne only. Receptacles cannot be used with Ology benching.

Standard Includes	Required to Specify
▶Need help? Product details, page 427	1 Style number 2 Power schematic 3 Options, if selected (see below)
• Non-PVC, 15-amp, system ground duplex receptacle: black	

	Options	U.S. Price	Required to Specify
Power Schematics and Line Options	**3+1**		
	• Line 1	No cost	Specify *with 3+1, line 1.*
	• Line 2	No cost	Specify *with 3+1, line 2.*
	• Line 3	No cost	Specify *with 3+1, line 3.*
	• Line 4	No cost	Specify *with 3+1, line 4.*
	2+2		
	• Line 1	No cost	Specify *with 2+2, line 1.*
	• Line 2	No cost	Specify *with 2+2, line 2.*
	• Line 3	No cost	Specify *with 2+2, line 3.*
	• Line 4	No cost	Specify *with 2+2, line 4.*
	3SN		
	• Line 1	No cost	Specify *with 3SN, line 1.*
	• Line 2	No cost	Specify *with 3SN, line 2.*
	• Line 3	No cost	Specify *with 3SN, line 3.*
Ground Type	• Isolated	+$19	Specify *with isolated ground.*
Controlled Stamp	• No stamp	No cost	Specify *with no stamp.*
	• Controlled stamp	+$ 5	Specify *with controlled stamp.*

Specification Information

• **Style Number**	• **U.S. Base Price**
FMVRF	$134

For Canadian Pricing
Multiply U.S. Price by the Canadian price factor.
▶See page 1 for details.

USB Receptacle

Standard Includes	Required to Specify
▶Need help? Product details, page 427 • USB receptacle: plastic	1 Style number 2 Power schematic and line type 3 Specify plastic color number for receptable: 6000 Black 6009 Arctic White 6527 Merle 6899 Platinum Metallic 4 Options, if selected (see below)

Options		U.S. Price	Required to Specify
Power Schematics and Line Options	**3+1**		
	• Line 1	No cost	Specify *with 3+1, line 1.*
	• Line 2	No cost	Specify *with 3+1, line 2.*
	• Line 3	No cost	Specify *with 3+1, line 3.*
	• Line 4	No cost	Specify *with 3+1, line 4.*
	2+2		
	• Line 1	No cost	Specify *with 2+2, line 1.*
	• Line 2	No cost	Specify *with 2+2, line 2.*
	• Line 3	No cost	Specify *with 2+2, line 3.*
	• Line 4	No cost	Specify *with 2+2, line 4.*
	3SN		
	• Line 1	No cost	Specify *with 3SN, line 1.*
	• Line 2	No cost	Specify *with 3SN, line 2.*
	• Line 3	No cost	Specify *with 3SN, line 3.*

Specification Information

• Style Number	• U.S. Price
FMVRUSB	$113

Filler Package – Power/Data

Standard Includes	Required to Specify
▶Need help? Product details, page 428 • Package of 20 fillers: plastic	1 Style number 2 Specify plastic color number for receptable: 6000 Black 6009 Arctic White 6527 Merle 6899 Platinum Metallic

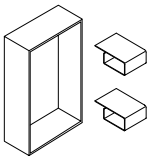
Specification Information

• Style Number	• U.S. Price
FMVF	$51

For Canadian Pricing
Multiply U.S. Price by the Canadian price factor.
▶See page 1 for details.

Data Kits

Data Kit for Use with FrameOne



Tip: Recommended for use with simple trays.

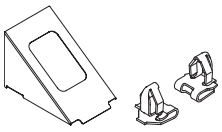
Standard Includes	Required to Specify
• Data termination box: black plastic • Two wire managers: black plastic	Style number

▶ Need help? Product details, page 427

Specification Information

Style Number	U.S. Price
FMVDK	$77

Data Kit for Use with Ology Bench



Standard Includes	Required to Specify
• Data termination box: paint • Two wire managers: black plastic	1 Style number 2 Paint color number for the data termination box: 4799 Platinum Metallic 7207 Black 7241 Arctic White 7360 Merle

▶ Need help? Product details, page 448

Tip: Data can be terminated and accessed in the data kit which mounts to the cable tray. Both modular furniture and NEMA faceplates can be used.

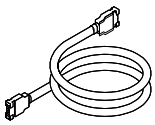
Tip: For a dual-sided bench, two data kits should be ordered, one for each user.

Specification Information

Style Number	U.S. Price
OLBVDK	$36

For Canadian Pricing
Multiply U.S. Price by the Canadian price factor.
▶ See page 1 for details.

Modular Harnesses



Tip: For help determining which length is required charts should be referenced.
▶See pages 416–418.

Standard Includes	Required to Specify
▶Need help? Product details, page 427	• Non-PVC modular harness	1 Style number 2 Power schematic 3 Options, if selected (see below)

Options		U.S. Price	Required to Specify
Power Schematics	• 3+1	No cost	Specify *with 3+1.*
	• 2+2	No cost	Specify *with 2+2.*
	• 3SN	No cost	Specify *with 3SN.*
PVC	• PVC modular harness	–$12	Specify *with PVC modular harness.*

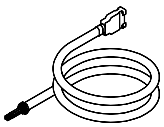
Specification Information

• Length	• Style Number	• U.S. Base Price
24"	**FMVH24**	$174
27"	**FMVH27**	$174
30"	**FMVH30**	$174
33"	**FMVH33**	$174
36"	**FMVH36**	$174
39"	**FMVH39**	$174
42"	**FMVH42**	$174
45"	**FMVH45**	$193
48"	**FMVH48**	$193
51"	**FMVH51**	$193
54"	**FMVH54**	$193
57"	**FMVH57**	$193
60"	**FMVH60**	$221
63"	**FMVH63**	$221
66"	**FMVH66**	$221
69"	**FMVH69**	$221
72"	**FMVH72**	$242
75"	**FMVH75**	$242

For Canadian Pricing
Multiply U.S. Price by the Canadian price factor.
▶See page 1 for details.

Power Infeeds

Hardwire-to-Modular Power Infeed



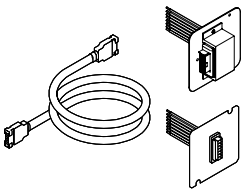
Standard Includes	Required to Specify
▶Need help? Product details, page 443	1 Style number 2 Power schematic 3 Options, if selected (see below)
• Non-PVC infeed harness	

	Options	U.S. Price	Required to Specify
Power Schematics	• 3+1	No cost	Specify *with 3+1.*
	• 2+2	No cost	Specify *with 2+2.*
	• 3SN	No cost	Specify *with 3SN.*
PVC	• PVC modular harness	–$12	Specify *with PVC.*

Specification Information

Length	Style Number	U.S. Base Price
6'	**FMVI6H**	$277
12'	**FMVI12H**	$356
24'	**FMVI24H**	$514

Modular-to-Modular Power Infeed



Standard Includes	Required to Specify
▶Need help? Product details, page 443	1 Style number 2 Power schematic 3 Options, if selected (see below)
• Non-PVC infeed harness • Straight/flush junction box faceplate	

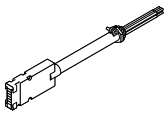
	Options	U.S. Price	Required to Specify
Power Schematics	• 3+1	No cost	Specify *with 3+1.*
	• 2+2	No cost	Specify *with 2+2.*
	• 3SN	No cost	Specify *with 3SN.*
Faceplate	• 90° junction box faceplate	+$61	Specify *with 90° faceplate.*
PVC	• PVC modular harness	–$12	Specify *with PVC.*

Specification Information

Length	Style Number	U.S. Base Price
6'	**FMVI6M**	$377
12'	**FMVI12M**	$469
24'	**FMVI24M**	$628

For Canadian Pricing
Multiply U.S. Price by the Canadian price factor.
▶See page 1 for details.

San Francisco Power Infeed



Standard Includes	Required to Specify
• 12' PVC infeed harness with liquid tight metallic conduit	1 Style number 2 Power schematic (see below)

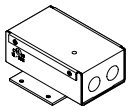
▶ Need help? Product details, page 455

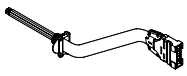
	Options	U.S. Price	Required to Specify
Power Schematics	• 3+1	No cost	Specify *with 3+1.*
	• 2+2	No cost	Specify *with 2+2.*
	• 3SN	No cost	Specify *with 3SN.*

Specification Information

Style Number	U.S. Price
FMVISS	$446

New York Power Infeed for Use with FrameOne Bench





Standard Includes	Required to Specify
• 50" non-PVC infeed harness • Junction box • Strain relief brackets	1 Style number 2 Power schematic 3 Options, if selected (see below)

▶ Need help? Product details, page 443

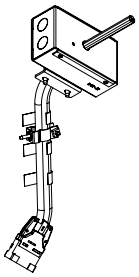
	Options	U.S. Price	Required to Specify
Power Schematics	• 3+1	No cost	Specify *with 3+1.*
	• 2+2	No cost	Specify *with 2+2.*
	• 3SN	No cost	Specify *with 3SN.*
PVC	• PVC modular harness	–$12	Specify *with PVC.*

Specification Information

Style Number	U.S. Base Price
FMVINN	$303

For Canadian Pricing
Multiply U.S. Price by the Canadian price factor.
▶ See page 1 for details.

New York Power Infeed for Use with Ology Bench



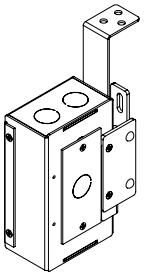
Standard Includes	Required to Specify
▶Need help? Product details, page 447	1 Style number
• 50" non-PVC infeed harness	2 Power schematic
• Junction box	3 Options, if selected (see below)
• Strain relief brackets	

	Options	U.S. Price	Required to Specify
Power Schematics	• 3+1	No cost	Specify *with 3+1.*
	• 2+2	No cost	Specify *with 2+2.*
	• 3SN	No cost	Specify *with 3SN.*
PVC	• PVC modular harness	–$12	Specify *with PVC.*

Specification Information

• Style Number	• U.S. Base Price
OLBVINN	$282

New York Power Infeed for Use with Migration SE Bench



Standard Includes	Required to Specify
▶Need help? Product details, page 455	1 Style number
• 50" non-PVC infeed harness	2 Power schematic
• Junction box	3 Options, if selected (see below)
• Strain relief brackets	

	Options	U.S. Price	Required to Specify
Power Schematics	• 3+1	No cost	Specify *with 3+1.*
	• 2+2	No cost	Specify *with 2+2.*
	• 3SN	No cost	Specify *with 3SN.*
PVC	• PVC modular harness	–$12	Specify *with PVC.*

Specification Information

• Style Number	• U.S. Base Price
MGBVINN	$288

For Canadian Pricing
Multiply U.S. Price by the Canadian price factor.
▶See page 1 for details.

Junction Box Faceplate—Modular

Straight/
Flush

90°

Standard Includes	Required to Specify
▶ Need help? Product details, page 455	1 Style number 2 Power schematic 3 Options, if selected (see below)
• Non-PVC straight/flush junction box faceplate	

	Options	U.S. Price	Required to Specify
Power Schematics	• 3+1	No cost	Specify *with 3+1.*
	• 2+2	No cost	Specify *with 2+2.*
	• 3SN	No cost	Specify *with 3SN.*
Faceplate	• 90° junction box faceplate	+$61	Specify *with 90° faceplate.*
PVC	• PVC modular harness	–$12	Specify *with PVC.*

Specification Information

• Style Number	• U.S. Base Price
FMVM	$105

For Canadian Pricing
Multiply U.S. Price by the Canadian price factor.
▶ See page 1 for details.

Utility Poles

Utility Poles for Use with FrameOne Bench

Tip: Infeed is ordered separately.

Tip: Utility pole reaches a maximum ceiling height of 10'. Pole is 3"D x 6"W.

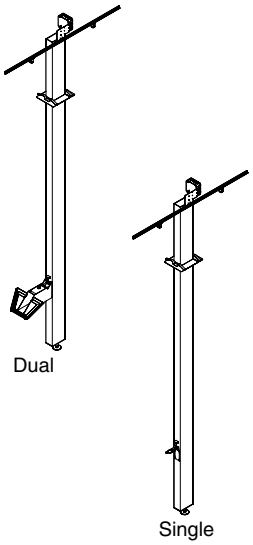
Tip: Not available on FrameOne benches without rail.

Standard Includes	Required to Specify
▶Need help? Product details, page 442	• Pole: anodized aluminum • Ceiling kit • Mounting brackets	1 Style number 2 Options, if selected (see below)

Options	U.S. Price	Required to Specify
Tray Connection for Dual-Sided Bench	• Upper and lower tray • Simple tray	No cost No cost	Specify *with upper and lower tray.* Specify *with simple tray.*

Specification Information

- **Style Number**
- **U.S. Price**



Dual

Single

For Use with Dual-Sided Bench

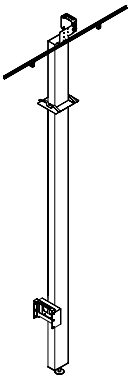
FMVUD	$1089

For Use with Single-Sided Bench

FMVUS	$1089

For Canadian Pricing
Multiply U.S. Price by the Canadian price factor.
▶See page 1 for details.

Utility Poles for Use with Ology Bench



Tip: Infeed is ordered separately.

Tip: Utility pole reaches a maximum ceiling height of 10'. Pole is 3"D x 6"W.

Tip: Utility pole can be specified with a FrameOne end panel.
▶See page 366

Tip: Bench footprint increases by 7 5/16" when a utility pole is added.

	Standard Includes	Required to Specify
▶Need help? Product details, page 450	• Pole: anodized aluminum • Ceiling kit • Mounting brackets: paint	1 Style number 2 Paint color number for bracket: 4799 Platinum Metallic 7207 Black 7241 Arctic White 7360 Merle

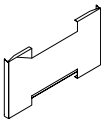
Specification Information

Style Number	U.S. Price

For Use with Ology Bench

OLBVU	$1046

Infill for Use with Ology Bench Utility Poles



	Standard Includes	Required to Specify
▶Need help? Product details, page 448	• Infill: paint price group 1 • Brackets	1 Style number 2 Paint color number for infill ▶See *Surface Materials,* page 490.

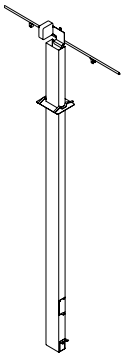
	Options	U.S. Price	Required to Specify
Surface Materials	• Paint price group 1	No cost	Specify paint color number.
	• Paint price group 2	+$41	Specify paint color number.

Specification Information

Style Number	U.S. Base Price
OLBUPFL	$280

For Canadian Pricing
Multiply U.S. Price by the Canadian price factor.
▶See page 1 for details.

Utility Pole for Use with Migration SE Bench



Tip: Infeed is ordered separately.

Tip: Utility pole reaches a maximum ceiling height of 10'. Pole is 3"D x 6"W.

Tip: Utility pole can be specified with a FrameOne end panel.
▶See page 404

Tip: Bench footprint increases by 7 5/16" when a utility pole is added.

Standard Includes	Required to Specify
▶Need help? Product details, page 454	1 Style number 2 Paint color number for bracket: 4799 Platinum Metallic 7207 Black 7241 Arctic White 7360 Merle
• Pole: anodized aluminum • Ceiling kit • Mounting brackets: paint	

Specification Information

• Style Number	• U.S. Price

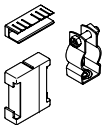
For Use with Migration SE Bench

MGBVU	$1067

For Canadian Pricing
Multiply U.S. Price by the Canadian price factor.
▶See page 1 for details.

Bracket Kit and Block-to-Block Connector

Bracket Kit and Dust Covers



Standard Includes	Required to Specify
• Brackets and dust covers	Style number

Specification Information

Style Number	U.S. Price
FMVBK	$55

Block-to-Block Connector

Standard Includes	Required to Specify
• Connector	1 Style number 2 Power schematic (see below)

▶ Need help? Product details, page 427

Options	U.S. Price	Required to Specify
Power Schematics		
• 3+1	No cost	Specify *with 3+1, line 1.*
• 2+2	No cost	Specify *with 2+2, line 1.*
• 3SN	No cost	Specify *with 3SN, line 1.*

Tip: Block-to-block connector is only needed when converting standard-capacity power to high-capacity.

Specification Information

Style Number	U.S. Price
FMVB	$28

For Canadian Pricing
Multiply U.S. Price by the Canadian price factor.
▶ See page 1 for details.

Vertebral Risers

Standard Includes		Required to Specify
▶ Need help? Product details, page 443	• Riser: black plastic	Style number

Specification Information		
• Height	• Style Number	• U.S. Price

Vertebral Riser for Use with FrameOne Bench

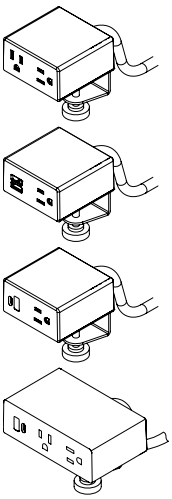
30"	**FMVC**	$240

Extension Vertebral Riser for Use with FrameOne

15"	**FMVCE**	$ 70

For Canadian Pricing
Multiply U.S. Price by the Canadian price factor.
▶ See page 1 for details.

Powerstrip Intro



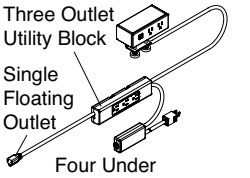
Tip: C-clamp is designed to accommodate worksurfaces up to 1 1/2" thick.

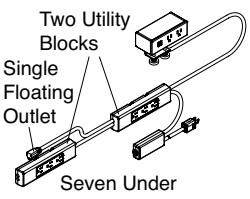
Tip: Each USB port can provide up to 10 watts (2 amps). Configuration with dual USB-A, each port is independent of the other.

Tip: Overcurrent protection includes a 15 amp circuit breaker.

Tip: USB A+C 20W for charging cell phones, tablets, headphones, wearable fitness trackers, or other small electronic devices.

Tip: Optional under worksurface utility power blocks do not ship with independent mounting hardware. Designed to be used with the universal cable management kits.





▶ Need help? Product details, page 430

Standard Includes	Required to Specify
• Powerstrip intro: plastic • Straight 3-prong plug • C-clamp mount	1 Style number 2 Desktop power configuration (see below under Required Selections) 3 Plastic color number for housing: 6009 Arctic White 6527 Merle 4 Options, (if selected) see below

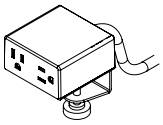
	Required Selections	U.S. Price	Required to Specify
Desktop Power Configuration	• Two power outlets	No cost	Specify *with two power outlets.*
	• One power outlet with 10-watt dual USB-A	No cost	Specify *with one power outlet with 10-watt dual USB-A.*
	• One power outlet with one USB-A and one USB-C intelligent 20W	+$ 40	Specify *with one power outlet with one USB-A and one USB-C intelligent 20W.*
	• Two power outlets with one USB-A and one USB-C intelligent 20W	+$123	Specify *with two power outlets with one USB-A and one USB-C intelligent 20W.*

	Options	U.S. Price	Required to Specify
Power Plug Type	• Standard NEMA 3-prong	No cost	Specify *with standard NEMA plug.*
	• 90° NEMA with overcurrent protection (OCP, used when desktop power only is specified, no utility power)	+$ 52	Specify *with 90° NEMA plug with overcurrent protection (OCP).*
	• 90° NEMA (No OCP, used when utility power option is specified)	+$ 36	Specify *with 90° NEMA (no OCP).*
Under Worksurface Utility Power Configuration	• Four outlets total—one utility block, with three outlets each, and one floating female outlet	+$130	Specify *with one utility and one female plug.*
	• Seven outlets total—two utility blocks, with three outlets each, and one floating female outlet	+$258	Specify *with two utility and one female plug.*
Power Cord Lengths Without Under Worksurface Utility Power	• 9' standard	No cost	Specify *with 9' standard cord.*
	• 163" curly cord	+$293	Specify *with 163" curly cord.*
Power Cord Lengths With Under Worksurface Utility Power	• 6' standard	No cost	Specify *with 6' standard cord.*
	• 8' standard	+$ 21	Specify *with 8' standard cord.*
	• 163" curly cord	+$293	Specify *with 163" curly cord.*

▶ **Specification Information, on next page**

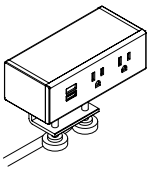
▶**Options, on previous page**

Specification Information



Dimensions D	W	H	Style Number	U.S. Base Price
3"	3"	3⅛"	**DSPINTRO**	$206

Powerstrip Plus



Standard Includes	Required to Specify
▶ Need help? Product details, page 434	1 Style number 2 Desktop power mount (see below under Required Selections) 3 Desktop power configuration (see below under Required Selections) 4 Plastic color number for powerstrip 5 Plastic color number for power cord 6 Options, (if selected) see below ▶ Surface Materials, see page 490.
• Powerstrip plus: plastic price group 1 and group 2 • 8' standard power cord: black or white • C-clamp mount • Cord managers	

Tip: C-clamp is designed to accommodate worksurfaces between ½" and 1⅜" thick.

Tip: Desktop power cord exit extends ½" off of the back of the worksurface when C-clamped.

Tip: 20-watt USB-C provides wattage to charge cell phones and tablets. 60-watt USB-C is needed to charge larger devices like compact laptops.

Tip: Cord length between desktop power and under-worksurface power is 48" and length between under-worksurface blocks is 24".

Tip: Power cord 8' curly cannot be specified with power plug type thread low profile.

Tip: Cord clip screw length for minimum worksurface thickness of ¾".

Required Selections		U.S. Price	Required to Specify
Desktop Power Mount	• C-clamp	No cost	Specify *with C-clamp power mount.*
	• Front edge under mount	+$ 21	Specify *with front-edge under mount.*
	• Rail mount	+$ 32	Specify *with rail power mount.*
Desktop Power Configuration	• Three power outlets	No cost	Specify *with three power outlets with 10-watt dual USB-A.*
	• Two power outlets with 10-watt dual USB-A	No cost	Specify *with two power outlets with 10-watt dual USB-A.*
	• Two power outlets with USB A+C 20-watt	+$ 64	Specify *with two power outlets with USB A+C 20-watt*
	• Two power outlets with 10-watt dual USB-A and open data port	+$ 97	Specify *with two power outlets with 10-watt dual USB-A and open data port.*
	• Three power outlets with 10-watt dual USB-A	+$ 97	Specify *with three power outlets with 10-watt dual USB-A.*
	• Three power with dual USB A+C 20-watt and open data port	+$130	Specify *with three power with dual USB A+C 20-watt and open data port.*
	• Three power with two dual USB A+C 20-watt	+$258	Specify *with three power with two dual USB A+C 20-watt.*
	• Two power with 10-watt dual USB-A and USB A+C 20W	+$323	Specify *with two power with 10-watt dual USB-A and USB A+C 20W*
	• Two power outlets with 60-watt USB-C	+$323	Specify *with two power outlets with 60-watt USB-C.*
	• One power outlet with 10-watt dual USB-A and 60-watt USB-C	+$451	Specify *with one power outlet with 10-watt dual USB-A and 60-watt USB-C.*
	• Two power outlets with 10-watt dual USB-A and 60-watt USB-C	+$517	Specify *with two power outlets with 10-watt dual USB-A and 60-watt USB-C.*
	• Two power outlets with dual 10-watt USB-A, 60-watt USB-C, and open data port	+$580	Specify *with two power outlets with dual 10-watt USB-A, 60-watt USB-C, and open data port.*

Options		U.S. Price	Required to Specify
Surface Materials	**Power** • Plastic price groups 1 and 2	No cost	Specify plastic color number.
Under Worksurface (Utility) Power Configuration	• No under worksurface power	No cost	Specify *with no utility.*
	• No under worksurface with overcurrent protection	+$ 52	Specify *with no utility and with overcurrent protection.*
	• Four outlets total—one utility block, with three outlets each, and one floating female outlet	+$130	Specify *with one utility and one female plug.*
	• Seven outlets total—two utility blocks, with three outlets each, and one floating female outlet	+$258	Specify *with two utility and one female plug.*
	• Nine outlets total—three utility blocks, with three outlets each	+$388	Specify *with three utility.*

▶ **Options, continued on next page**

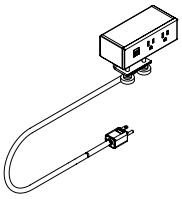
For Canadian Pricing
Multiply U.S. Price by the Canadian price factor.
▶ See page 1 for details.

▶**Options, continued from previous page**

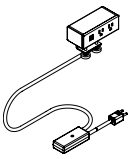
	Options	U.S. Price	Required to Specify
Power Cord	• 6' standard cord	No cost	Specify *with 6' standard cord.*
	• 8' standard cord	+$ 21	Specify *with 8' standard cord.*
	• 10' standard cord	+$ 21	Specify *with 10' standard cord.*
	• 6' braided cord	+$ 69	Specify *with 6' braided cord.*
	• 8' braided cord	+$206	Specify *with 8' braided cord.*
	• 10' braided cord	+$206	Specify *with 10' braided cord.*
	• 8' curly cord	+$258	Specify *with 8' curly cord.*
	• 163" curly cord	+$293	Specify *with 163" curly cord.*
Power Cord Color	**Standard and curly cord**		
	• Black	No cost	Specify *with black cord.*
	• White	No cost	Specify *with white cord.*
	Braided cord		
	• Black	No cost	Specify *with black braided cord.*
	• Seagull	No cost	Specify *with seagull braided cord.*
Power Plug Type	• Standard NEMA 3-prong	No cost	Specify *with standard NEMA plug.*
	• 90° NEMA	+$ 36	Specify *with 90° NEMA plug.*
	• Thread low profile	+$ 40	Specify *with Thread low profile plug.*

Tip: Underworksurface power blocks do not ship with independent mounting hardware. They are designed to mount into the Universal cable management kit without additional hardware. Kit sold separately.

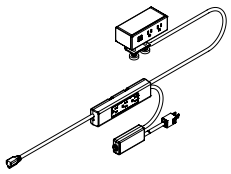
Tip: Overcurrent protection includes a 15 amp circuit breaker.



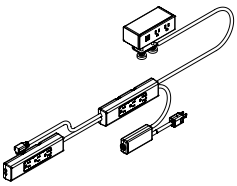
Without overcurrent protection



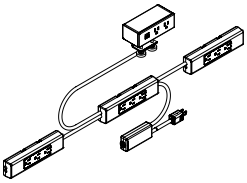
With overcurrent protection



with optional under worksurface utility power with 4 outlets



with optional under worksurface utility power with 7 outlets



with optional under worksurface utility power with 9 outlets

Specification Information

Style Number	U.S. Base Price
DSPOWER	$388

Tip: Configurations with outlets under the worksurface are standard with overcurrent protection.

Tip: Check with your local fire inspector and other authorities with jurisdiction, to understand if overcurrent protection is required for your municipality on units without under worksurface outlets.

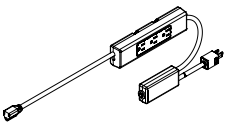
Tip: Height adjustable desks can be plugged into powerstrip plus for a 'one cord down' solution.

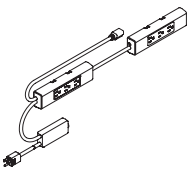
Tip: When using powerstrip plus with nine outlets under worksurface utility power, specify one large and one small universal cable management kit.

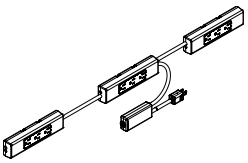
Tip: Do not use a vertical cable manager with a curly cord or braided cord.

Tip: Curly power cord cannot be used with power plug type thread.

Under Worksurface Utility Power







Tip: Underworksurface power blocks do not ship with independent mounting hardware. They are designed to mount into the universal cable management kit without additional hardware.

Tip: Overcurrent protection includes a 15 amp circuit breaker.

Tip: Do not use a vertical cable manager with a curly cord or baided cord.

Tip: Cord length between blocks is 24", if applicable.

Tip: Never plug a powerstrip into another powerstrip.

Tip: 4 outlet utility block fits in the small tray universal cable management kit, 7 outlet utility block fits in large tray universal cable management kit, and 9 outlets with three utility blocks, specify one large and one small universal cable management kit.

	Standard Includes	Required to Specify
▶ Need help? Product details, page 438	• Under worksurface utility power: 4 outlets • 8' standard cord: plastic • Circuit breaker • Cord managers • Power blocks in merle finish	1 Style number 2 Under worksurface utility power configuration (see below under Required Selections) 3 Options, (if selected) see below

	Required Selections	U.S. Price	Required to Specify
Under Worksurface Utility Power Configuration	• Four outlets total – one utility block, with three outlets each and one floating female outlet	No cost	Specify *with one utility and one female plug.*
	• Seven outlets total – two utility blocks, with three outlets each and one floating female outlet	+$123	Specify *with two utility and one female plug.*
	• Nine outlets total – three utility blocks, with three outlets each	+$246	Specify *with three utility.*

	Options	U.S. Price	Required to Specify
Power Cord	• 6' standard cord	No cost	Specify *with 6' standard cord.*
	• 8' standard cord	+$ 21	Specify *with 8' standard cord.*
	• 10' standard cord	+$ 21	Specify *with 10' standard cord.*
	• 6' braided cord	+$ 69	Specify *with 6' braided cord.*
	• 8' braided cord	+$206	Specify *with 8' braided cord.*
	• 10' braided cord	+$206	Specify *with 10' braided cord.*
	• 8' curly cord	+$258	Specify *with 8' curly cord.*
	• 163" curly cord	+$293	Specify *with 163" curly cord.*
Power Cord Color	**Standard and curly cord**		
	• Black	No cost	Specify *with black cord.*
	• White	No cost	Specify *with white cord.*
	Braided cord		
	• Black	No cost	Specify *with black braided cord.*
	• Seagull	No cost	Specify *with seagull braided cord.*
Power Plug Type	• Standard NEMA 3-prong	No cost	Specify *with standard NEMA plug.*
	• 90° NEMA	+$ 36	Specify *with 90° NEMA plug.*
	• Thread low profile	+$ 40	Specify *with Thread low profile plug.*
Related Products	• Universal cable management kits		▶ Page 477

Specification Information

Style Number	U.S. Base Price
DSUP	$167

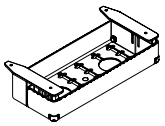
For Canadian Pricing
Multiply U.S. Price by the Canadian price factor.
▶ See page 1 for details.

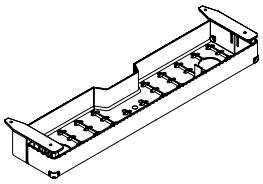
Universal Cable Management Kit(s)

	Standard Includes	Required to Specify
▶ Need help? Product details, page 440	• Cable management tray: 6527 Merle • Attachment hardware	1 Style number 2 Options, if selected (see below)

	Options	U.S. Price	Required to Specify
Strap	• Smart straps	No cost	Specify *with smart straps.*

Tip: The weight limit of the 15½" tray is five pounds, while the weight limit of the 30" tray is 10 pounds.





Tip: When installed, tray provides 4/5" of clearance on all sides to allow for cable egress between the underside of the worksurface and the top of the tray.

Tip: Tray attachment hardware accomodates worksurfaces more than 3/4" in thickness. Screws may pop through thinner worksurfaces.

Specification Information

Small Cable Management Kit

Dimensions D	W	H	Style Number	U.S. Price
6 5/16"	15½"	3½"	**DSTRAYSM**	$ 97

Large Cable Management Kit

Dimensions D	W	H	Style Number	U.S. Price
6 5/16"	30"	3½"	**DSTRAYLG**	$130

For Canadian Pricing
Multiply U.S. Price by the Canadian price factor.
▶ See page 1 for details.