

**CAUTION**

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and injury.

**Power and Data in Shell**

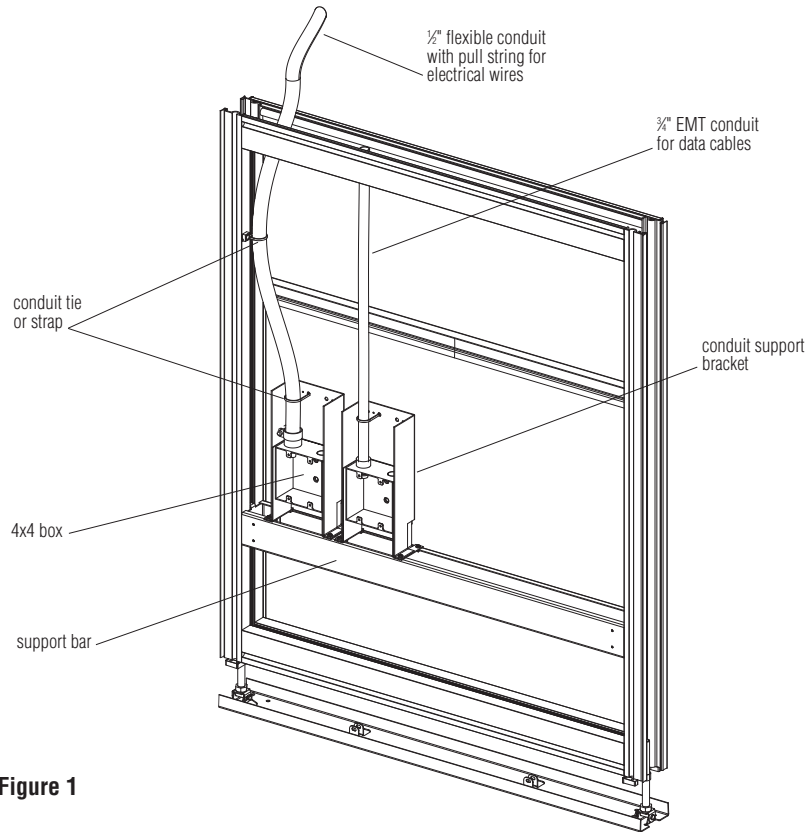
**Level 1 Conventional Boxes in Panel (conventional box and conduit)**

Choose 2x4 box or 4x4 box (shown). Separate boxes are provided for power and data (Figure 1).

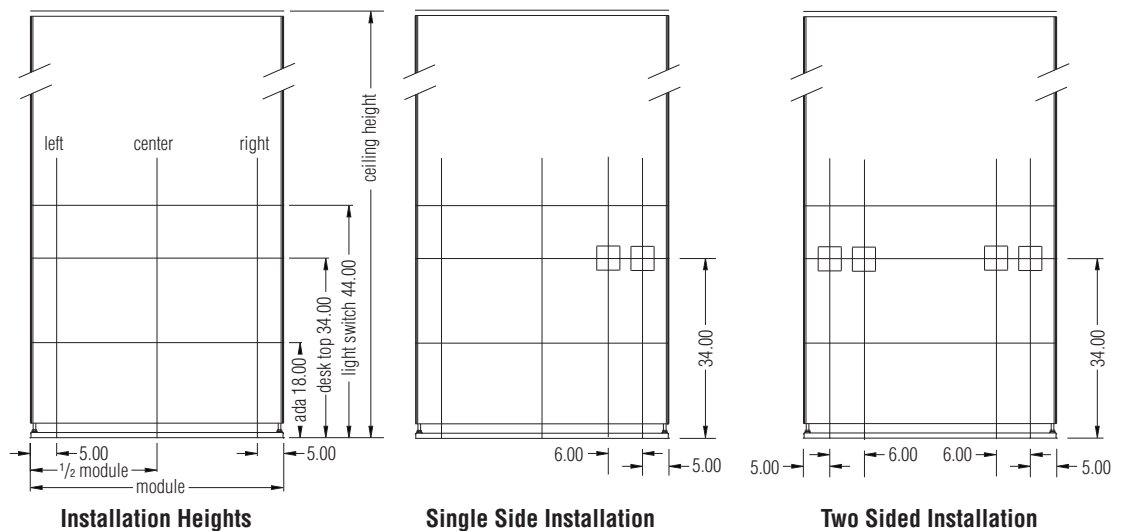
Boxes can be located on the right, left or in the center of the panel at one of three heights 18", 34" or 44" AFF. Boxes can be located on one side or both sides of the panel but boxes cannot be back-to-back (Figure 2).

3/4" EMT chase stubbed off at top of panel for data, 1/2" flexible conduit with 24" of conduit extending from top of panel for electrical hookup. Conduit is hollow with pull string for electrical wires only. Electrical box receives (1) 1/2" flexible conduit and data box receives (1) 3/4" EMT conduit.

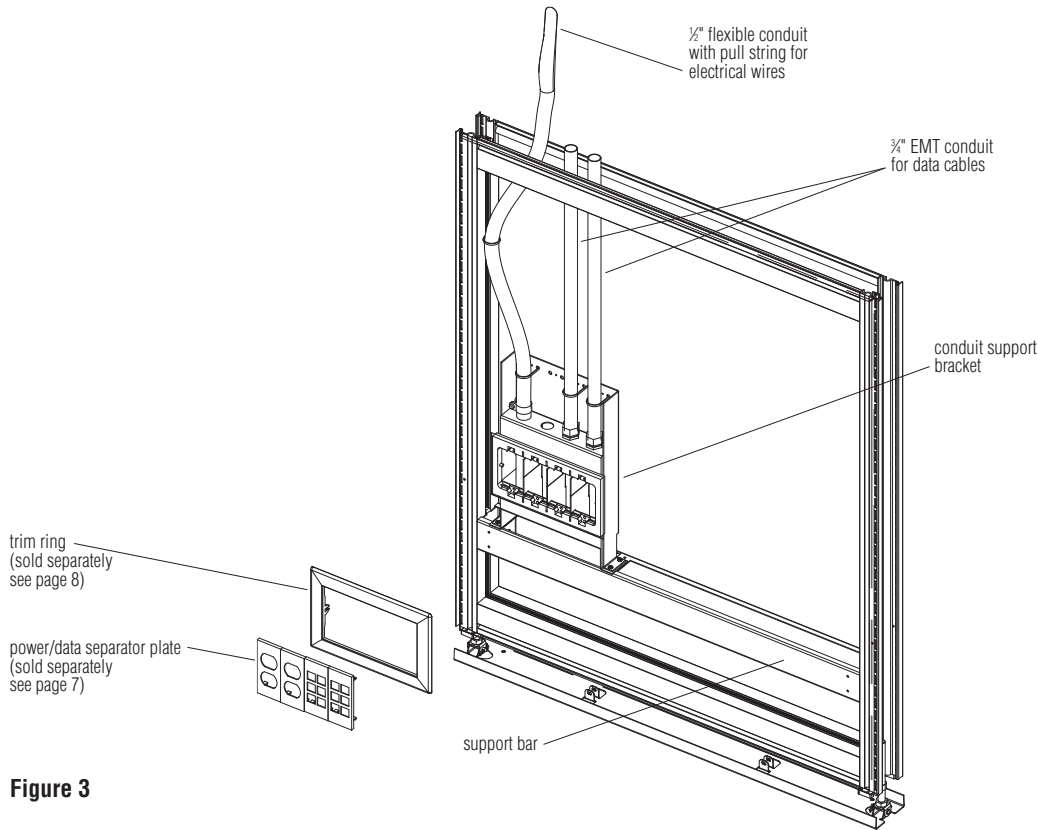
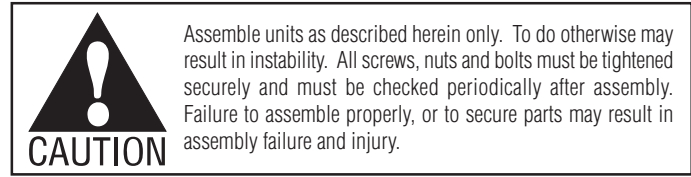
Receptacles and electrical cover plates provided by others.



**Figure 1**



**Figure 2**



**Level 1 Modular Boxes in Panel (modular box and empty conduit)**

Choose from 1, 2, 4, or 6-gang device boxes. 4-gang box is shown (Figure 3).

Boxes can be located on the right, left or in the center of the panel at one of three heights 18", 34" or 44" AFF. Boxes can be located on one side or both sides of the panel but boxes cannot be back-to-back (Figure 4).

3/4" EMT chase stubbed off at top of panel for data, 1/2" flexible conduit with 24" of conduit extending from top of panel for electrical hookup. Boxes are utilized as follows:

- 1-gang electric box receives (1) 1/2" flexible conduit
- 1-gang data box receives (1) 3/4" EMT conduit
- 2-gang box receives (1) 1/2" flexible conduit and (1) 3/4" EMT conduit
- 4-gang box receives (1) 1/2" flexible conduit and (2) 3/4" EMT conduit
- 6-gang box receives (2) 1/2" flexible conduit and (2) 3/4" EMT conduit

Modular level 1 boxes include no wire. They include a power/data separator plate.

Trim ring, receptacles and electrical/data cover plates sold separately (see pages 7 and 8).

Figure 3

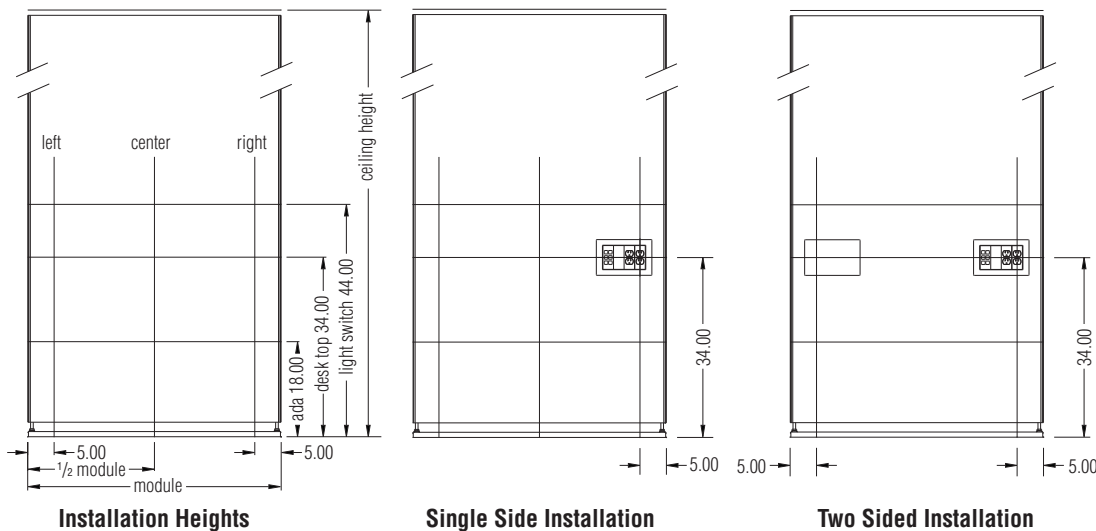



Figure 4



**CAUTION**

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and injury.

**Level 3 Modular Boxes in Panel (modular box, 8-wire multi-circuit cable and pre-wired receptacles)**

Choose from 2, 4, or 6-gang device boxes. 4-gang box is shown (Figure 5).

Boxes can be located on the right, left or in the center of the panel at one of three heights 18", 34" or 44" AFF. Boxes can be located on one side or both sides of the panel but boxes cannot be back-to-back (Figure 6).

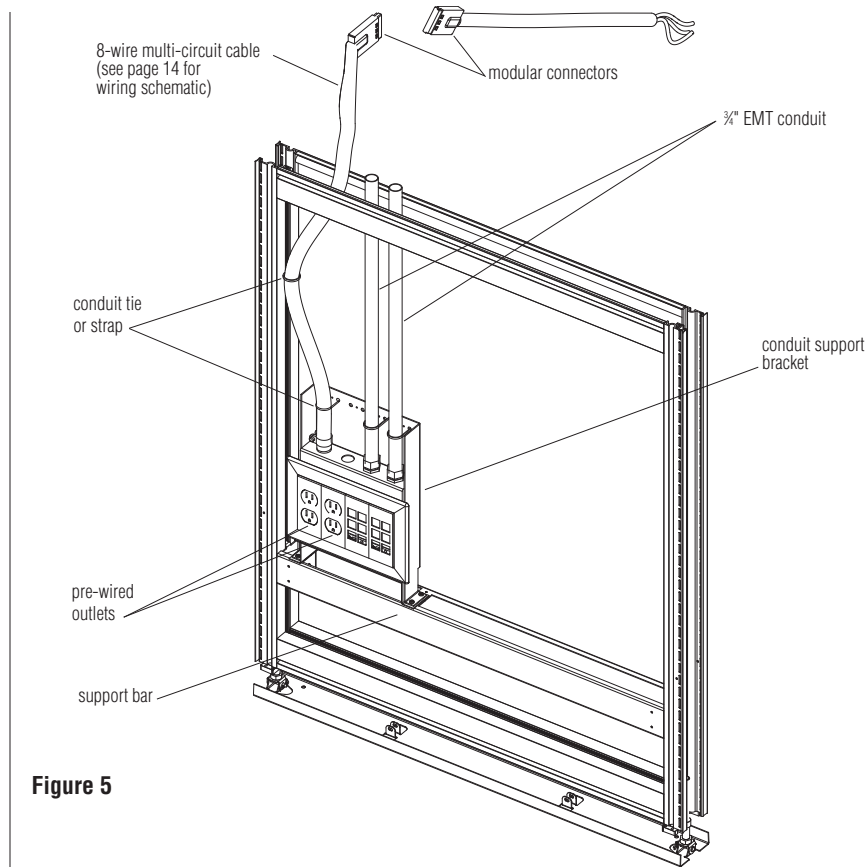
3/4" EMT chase stubbed off at top of panel for data, 8-wire multi-circuit cable with "plug and play" connector end.

- 4-gang box receives (1) 8-wire multi-circuit cable and (2) 3/4" EMT conduit. 4-gang boxes include two receptacles and two blank plates. The receptacles are wired to separate neutrals and grounds. See page 8 for receptacle choices.
- 6-gang box receives (1) 8-wire multi-circuit cable and (3) 3/4" EMT conduit. 6-gang boxes include three receptacles and three blank covers. Two receptacles share a neutral and ground and the other has an isolated neutral and ground. See page 8 for receptacle choices.

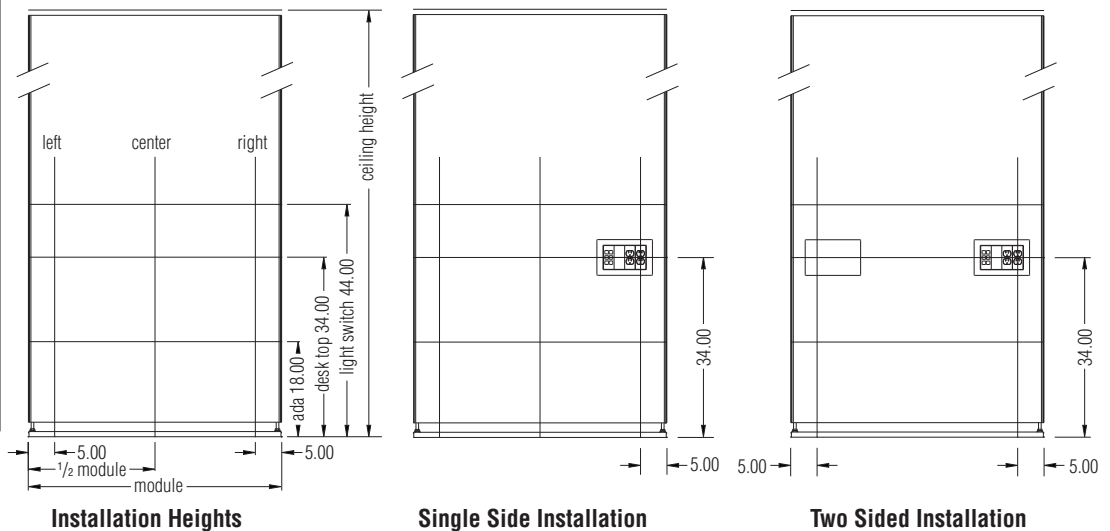
Level 3 modular boxes include power/data separator plate, trim ring, receptacles, electrical plates and blank plates for data. Choose black, gray, ivory, or white. Receptacles are wired in factory.

Data plates sold separately (see page 7).

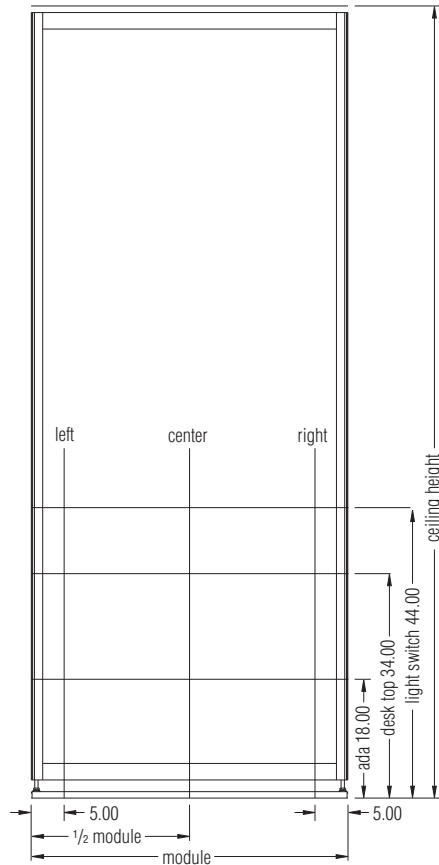
Zone box or starter plug sold separately (see page 8).




**Figure 5**



**Figure 6**

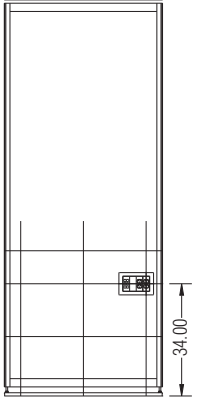





**CAUTION** Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and injury.

**Standard 1 Side Electrical Locations for Full Solid Panel**

Minimum modules will have center mount boxes. Multiple box heights in the same panel require an additional support bar for each box height.

	left	center	right	minimum module
				10.00
				11.75
				10.00
				12.00
				16.00
				20.00

Centerlines show location of box in relation to panel location. See example 1.



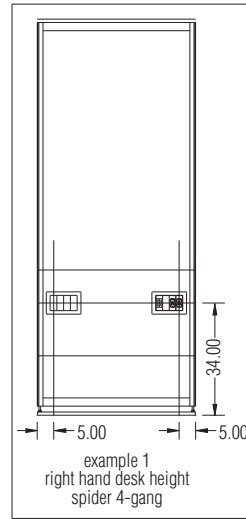
**CAUTION**

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and injury.

**Standard 2 Side Electrical Locations for Full Solid Panel**


Boxes located on left hand or right hand on both sides. Cannot have right hand on one side and left hand on opposite side. Boxes would interfere. Multiple box heights in the same panel require an additional support bar for each box height.

	left	right	minimum module
conv. single box			15.00
conv. double box			18.50
mod. 1-gang			15.00
mod. 2-gang			19.00
mod. 4-gang			27.00
mod. 6-gang			35.00








Centerlines show location of box in relation to panel location. See example 1.

**Standard 2 Side Electrical Locations  
Full Solid Panel**






















**CAUTION**

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and injury.

Power Devices	Description
	15/20-amp Duplex, Commercial • Includes device only.
	15/20-amp Duplex isolated ground, Commercial • Includes device only.
	15-amp Duplex, Commercial • Includes device only.
	15-amp Duplex isolated ground, Commercial • Includes device only.
	Light Switch

**Electrical Accessories**

**Electrical Components – Power Devices – Commercial Grade**


Face Plates	Description
	A. Siemon Cat# S1305
	B. Siemon Cat# S1315
	C. AMP Cat# AMP303
	D. AMP Cat# AM313
	E. Nordex DVO-1 Cat# N0311
	F. Hubbell Cat# HBL317
	G. Nordex 6 Part Cat# N0309
	H. Mod Tap Cat# MT316
	I. Lucent Tech. Cat# LT309
	J. Ortronic Cat# OR306
	K. Krone/Leviton/Hubbell/Bryant/ICC Cat# KR314
	L. Nevada Western Cat# NV304
	M. Panduit Cat# PA308
	N. Blank Cat# BL300
	O. Styleline/Decora Cat# DE301
	P. Ortronics Cat# OR322
	Q. Standard Duplex Cat# ST302
	R. Panduit Dedicated Cat# PA321
	S. Toggle Switch Cat# T0310

**Face Plates**

**Specification Notes:**

- Available in black, gray, ivory or white.

**Genius® Movable Walls**  
Instructions

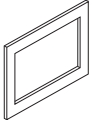


**CAUTION**

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and injury.

**Trim Ring**

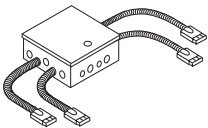

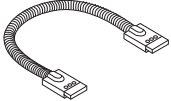
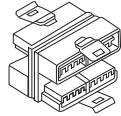
- Available in black, gray, ivory or white.

Trim Ring	Description
	1-gang Trim Ring
	2-gang Trim Ring
	4-gang Trim Ring
	6-gang Trim Ring


**Level 3 Electrical Distribution System Components - Ceiling**

**Specification Notes:**

Extender Cables available in other lengths. Contact your local KI sales representative for details.

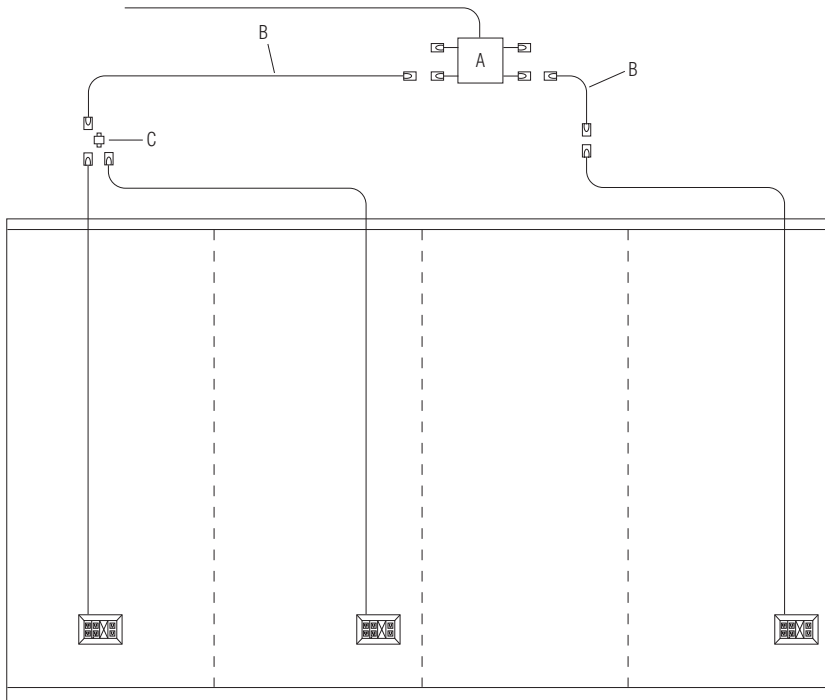
Power/Data Furniture Junction Boxes	Description	Use
	Zone Distribution Box	Used to distribute power to multiple panels within a “zone” of the office layout. Mounts above ceiling tiles or below raised floor. Panel infeeds must use modular connector plugs.
	Zone Distribution Tie-in Cable	Used to bring power to a single panel. Mounts to a standard junction box above the ceiling or below raised floor. Panel infeeds must use modular connector plugs.
	Extender Cable - 15' Long	Used as an “extension cord” to reach between the panel infeed and the power source plug.
	Circuit Distributor	Used as a splitter to run two extender cables from the same power source plug.





Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and injury.

**CAUTION**



**Figure 7**

### Modular Power Distribution

The Genius modular wiring system is used to distribute power evenly throughout a space into predetermined zones (Figure 7). The plug-and-play components of the modular wiring system are:

- A** Zone Distribution Boxes
- B** Extender Cables
- C** Circuit Distributors

The Genius modular system distributes power from the Zone Distribution Boxes using a grid layout. Using a grid distribution system allows for flexibility in reconfiguration or addition of Genius electrical panels.

The Zone Distribution Box (A) is “hard-wired” by the electrician and becomes the transition between the building’s system and modular wiring system. The circuits are then distributed throughout the zone via Extender Cables (B) and circuit distributors (C).

The number of circuits per zone box may be increased to accommodate additional loads.

All components are modular and are Certified by CSA and/or Listed or Classified by UL to the requirements of Canadian and US codes. All components must be installed in accordance with local electrical codes.

Multiple devices can be fed using a circuit distributor (C). This 4-port “splitter” allows power to be delivered to different devices from the same zone box whip.

- Modular wiring system is configured in 3-3-2.
  - 3-phase conductors
  - 3 neutral conductors
  - 1 equipment ground
  - 1 isolated ground

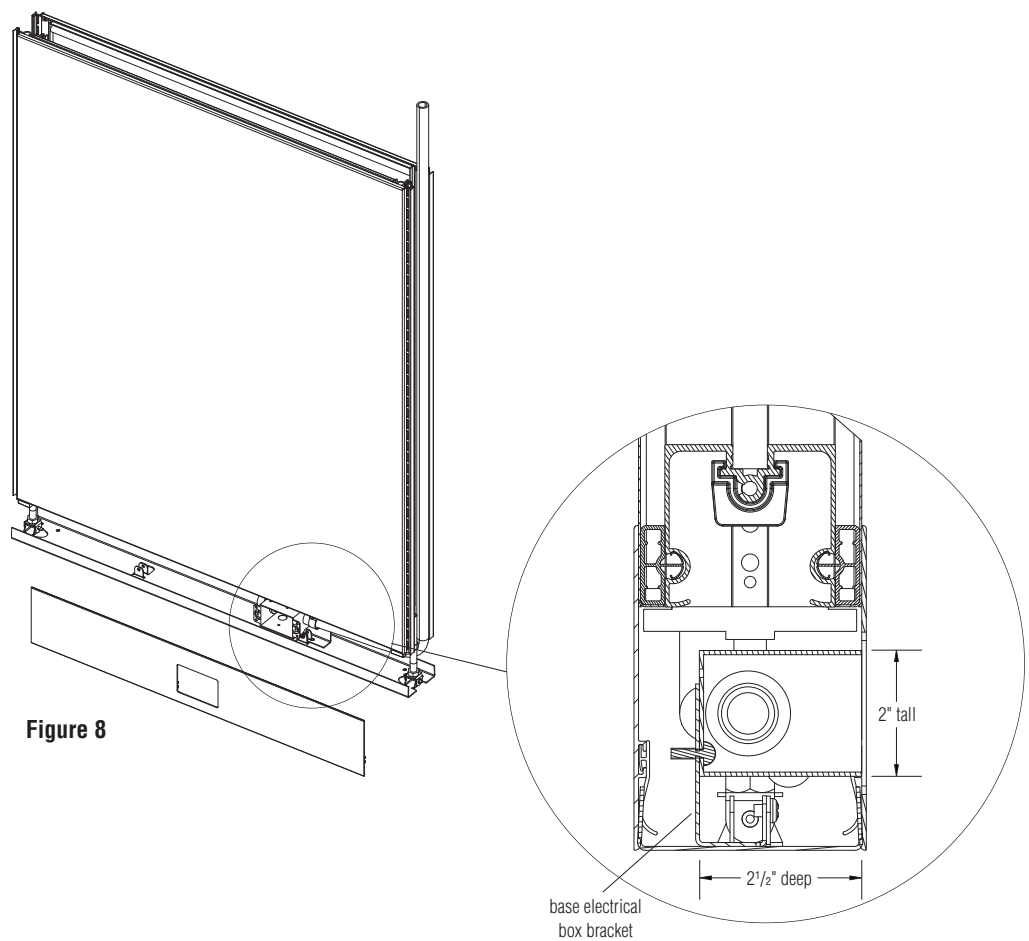
**CAUTION** Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and injury.

**Conventional Boxes in Base**  
The 5" Genius base wireway is large enough to accept 2"x3"x2½" deep conventional electrical boxes.

The boxes are shipped loose from the panel and are attached to the base channel with a supplied bracket (Detail A and B).

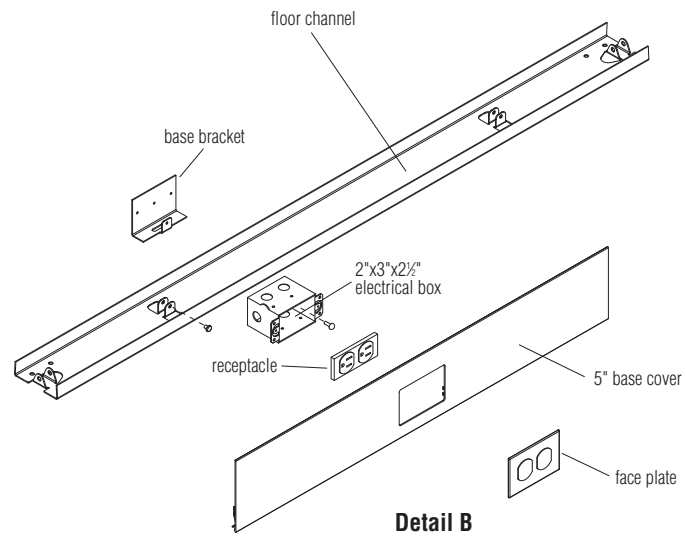
The base cover is 120" long with one cutout for the electrical box in the center (Figure 8).

Conduit is ordered separately.




**Figure 8**

**Detail A**



**Detail B**

**CAUTION**

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and injury.

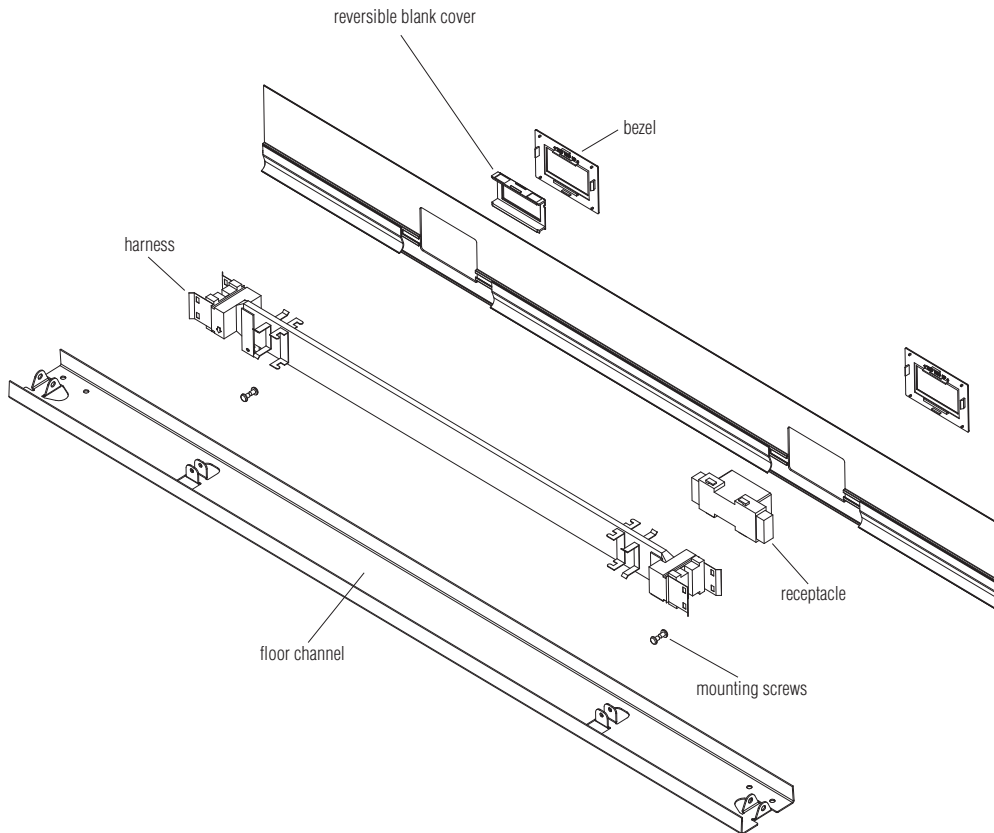


Figure 9

**Modular Power and Data in Base**


Genius power and data in the base is available in the 5" base in modules from 30" to 60" in 6" increments.

It is a 10-wire system wired to a 6-2-2 configuration.

The harness ships loose and can fit onto any panel of equal module size.

Receptacles (circuits 1 through 6) snap into the harness. The 5" base cover has two factory-made cutouts that are trimmed with a bezel to access power and data (Figure 9).

**Genius® Movable Walls**  
Instructions



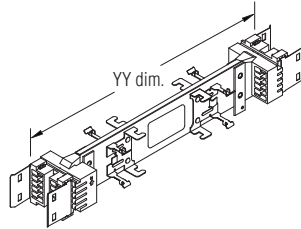
Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and injury.

**CAUTION**

**KI Parts List for Genius 5" Base Electrical System (UL183)**

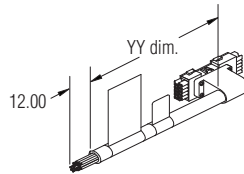
Wireway distribution (harness) with spring latch  
6-2-2 config. Only, 810 system

Size	YY Dim. (overall)
30"	12.618
36"	18.618
42"	24.618
48"	30.618
54"	36.618
60"	42.618



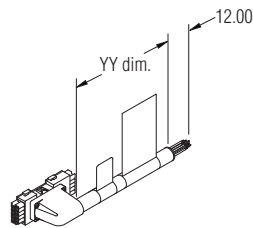
Floor power entry, left hand  
6-2-2 config. Only, 810 system

YY Dim.	Pigtail Dim.
72.0	12.00



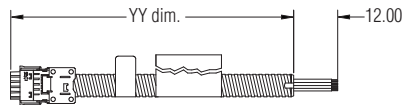
Floor power entry, right hand  
6-2-2 config. Only, 810 system

YY Dim.	Pigtail Dim.
72.0	12.00



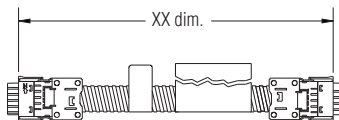
Plug to open, "Topfeed"  
6-2-2 config. Only, 810 system

Size	XX Dim.	Pigtail Dim.
144	144.00	12.00
216	216.00	12.00

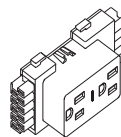



Plug to plug, "jumper"  
6-2-2 config. Only, 810 system

Size	XX Dim. (Length)	
J	17.50	(panel-to-panel)
TJ	18.50	(around corner post)
AP	21.00	(across 3-way post)



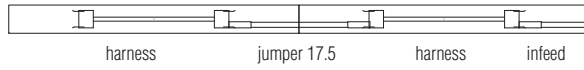
Duplex Receptacle  
6-2-2 config. 810 system  
UL 183  
Available for circuits 1 through 6  
Available in KI standard colors (BL/GR/SA/WG/LT/OR\*)  
\*Orange is for dedicated circuits



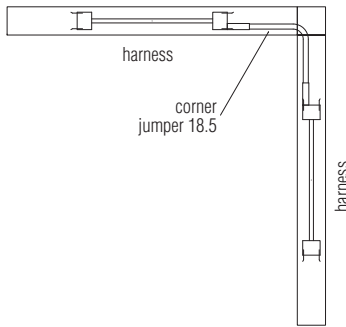


**CAUTION** Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and injury.

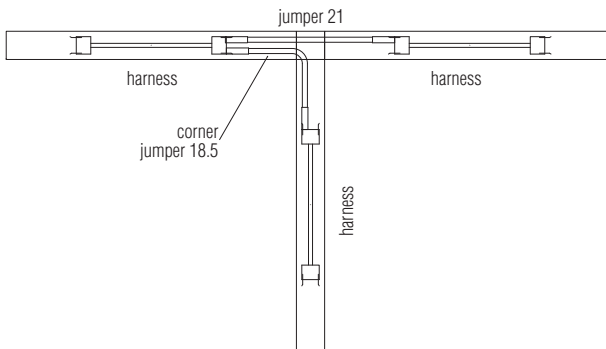
Base In-line Connection With Power Infeed



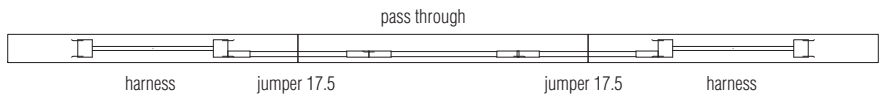
Base Corner Connection



Base 3-Way Condition, In-line and Corner




Base Connection With Pass Through Condition



Base Connection Through 2-Way Post

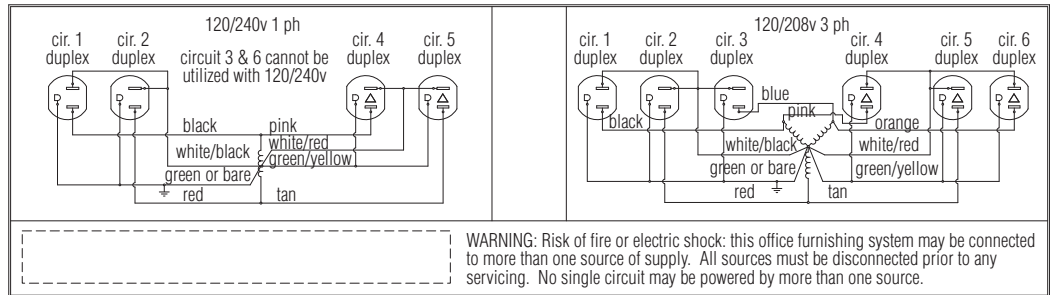




Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and injury.

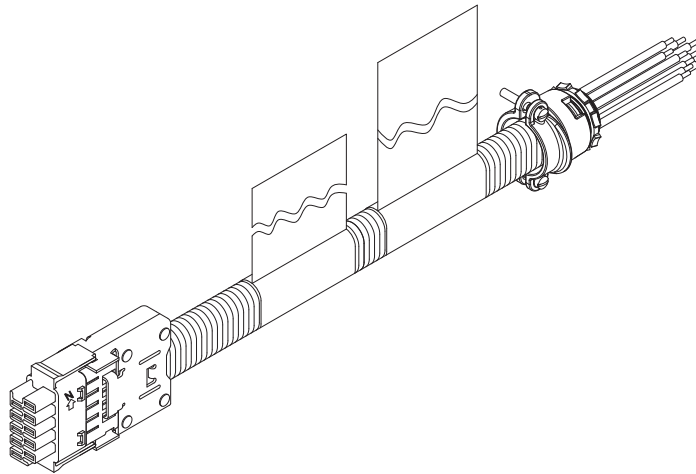
**CAUTION**

**Wiring Schematic to the Receptacles (Figure 10).**



**Figure 10**

**Wiring for an Infeed or Wireway (Figures 11 and 12).**




**Figure 11**

<u>Circuit</u>	<u>Hot Wire Color</u>	<u>Neutral Wire Color</u>	<u>Ground Wire Color</u>
1	Black	White/Black (N1)	Bare
2	Red	White/Black (N1)	Bare
3	Blue	White/Black (N1)	Bare
4*	Pink	White/Red (N2)	Green/Yellow
5*	Tan	White/Red (N2)	Green/Yellow
6*	Orange	White/Red (N2)	Green/Yellow

\*These receptacles will have an orange triangle on them indicating isolated ground.

**Figure 12**

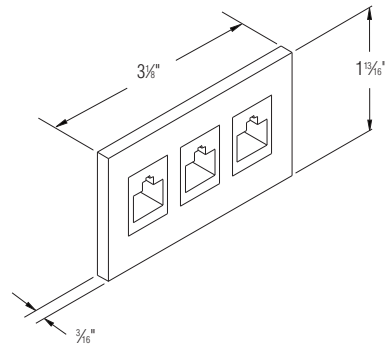


Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and injury.

**CAUTION**

Typical manufacturer modular face plates that are compatible with Genius are:

Lucent (AT&T)	M-Series
AMP	Mode Interconnect Modules
Panduit	Mini-Com Faceplate
Ortronics	Series II IMO's Modular Furniture Bezel
Leviton	Quickport Modular Furniture Faceplates
Siemon	CT-MFP-(color)

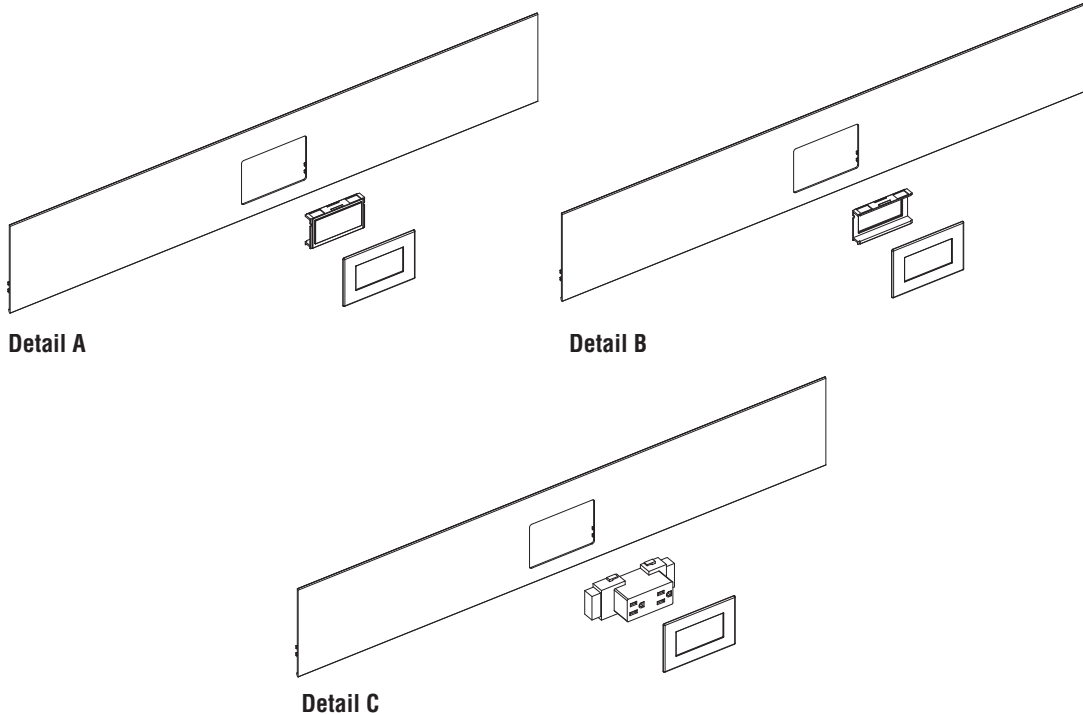


**“Typical” Data Plate Dimensions**


**Figure 13**

**Base Data Access (Figure 13)**

Genius standard power and data bezel in the base raceway supports access to data cables in two ways. The bezel has a rectangular opening for power or data access. The opening is covered with a removable filler plate (Detail A). This filler plate can be snapped out, reversed in position, and snapped back into place to allow cables to pass through the base raceway (Detail B) without terminating at a data connector in a modular face plate. The filler plate can also be removed and replaced with a modular furniture data plate (Detail C). These plates are supplied by most major data connector manufacturers and are designed to snap into the opening in the power/data bezel. KI does not provide the modular faceplates or data jacks.



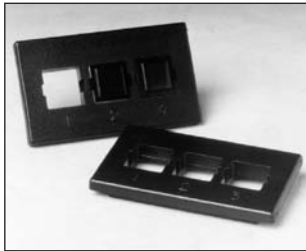
**Genius® Movable Walls**  
Instructions



**CAUTION**

Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and injury.

**Communications Faceplate:**  
Customer to order from Graybar.  
Fits into Genius bezel.



Lucent M13C (M Series) Triplex Faceplate

Dimensions:  
3.1" (77 mm) Width  
1.8" (46 mm) Height  
.2" ( 5 mm) Depth

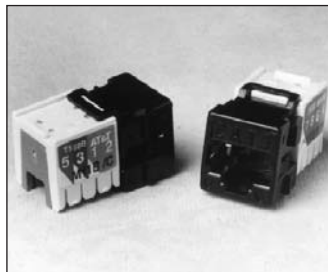
½" x ½" Dust Cover (to cover unused openings)

**Communications Connectors:**  
Customer to order connectors from Graybar. Additional connectors, other than those shown below, are available.



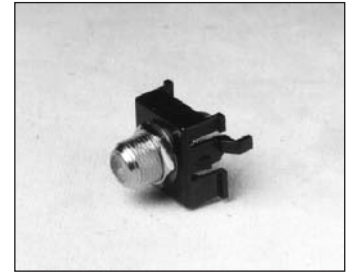
Lucent (M Series)  
Modular BNC Coupler Module

Applications:  
Local Area Networks  
Data Processing Networks



Lucent (M Series)  
8-position/8-conductor outlets (RJ45 Cat 5)  
6-position/6-conductor outlets (RJ11 Cat 3)

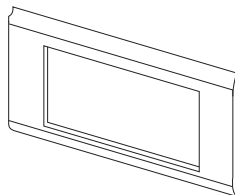
Applications:  
Telecommunications  
Local Area Networks  
Data Processing Networks



Lucent (M Series)  
Modular Coaxial Video Coupler Module

Applications:  
Video

**Power & Data Bezel**



Hole Dimensions in Bezel  
2.70" Width  
1.40" Height

Alternative Suppliers

1. Panduit Mod-Com
2. AMP Flex-Mode
3. Ortronics Series II IMO's

The above manufacturer's plates fit into the standard Genius bezel opening and broaden the offering of communications connectors.



KI  
1330 Bellevue Street  
P.O. Box 8100  
Green Bay, Wisconsin 54308-8100  
1-800-424-2432  
[www.ki.com](http://www.ki.com)

Genius, KI and Furnishing Knowledge  
are registered trademarks  
of Krueger International, Inc.

© 2011 KI  
All Rights Reserved.  
Litho in USA.  
Code KI-61600R3/SH/VL/0911

