

Genius® Movable Walls

February 2019

Electrical face plates, trim rings and modular boxes listed in this document have been discontinued as of 1/31/19

[illegible]



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 personal injury.

Note: Electrical face plates, trim rings and modular boxes shown in the figures on this page have been discontinued as of 1/31/19.

Single Box Modular Panel (modular box and empty conduit)

Choose from 1, 2, or 4-gang device boxes. 2-gang and 4-gang boxes are shown (Figure 1).

Boxes can be located on the right, left or in the center of the panel at one of two heights 18" or 44" AFF (Figure 2).

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

- 1-gang electric box receives one $\frac{1}{2}$ " flexible conduit.
- 1-gang data box receives one $\frac{3}{4}$ " EMT conduit.
- 2-gang box receives one $\frac{1}{2}$ " flexible conduit, one $\frac{3}{4}$ " EMT conduit, and one divider plate or two $\frac{1}{2}$ " flexible conduit or two $\frac{3}{4}$ " EMT. (Figure 1).
- 4-gang box receives one $\frac{1}{2}$ " flexible conduit and two $\frac{3}{4}$ " EMT conduit, and one divider plate (Figure 1).

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

Trim ring, receptacles and electrical/data cover plates specified separately (see pages 6 and 7).

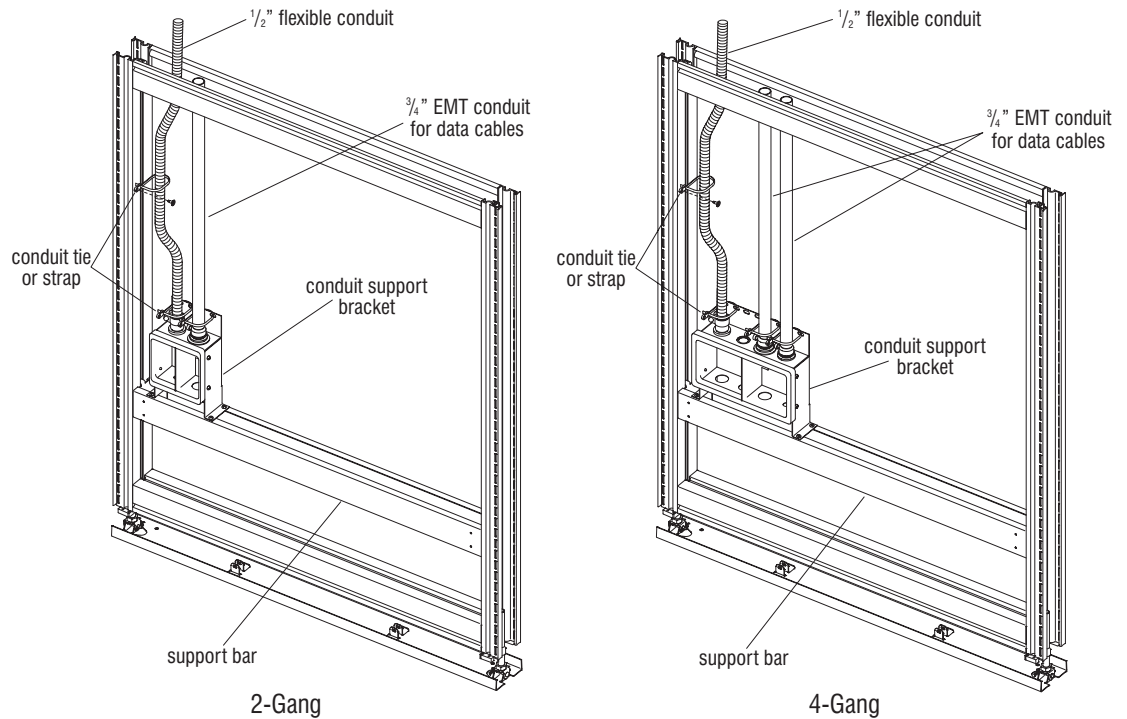


Figure 1

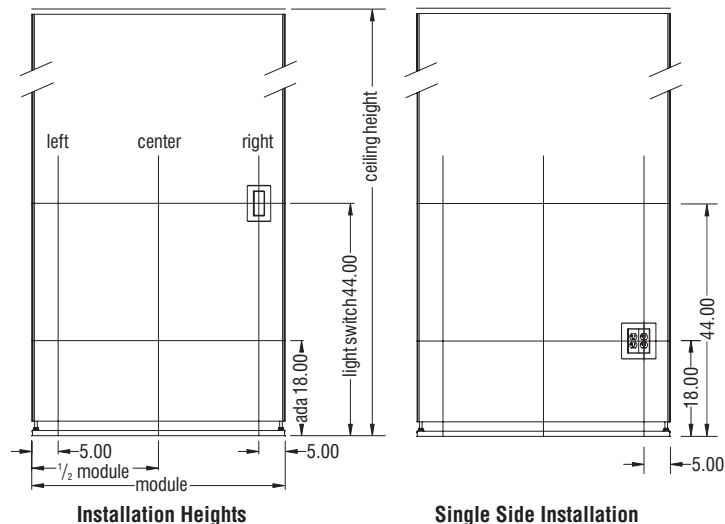
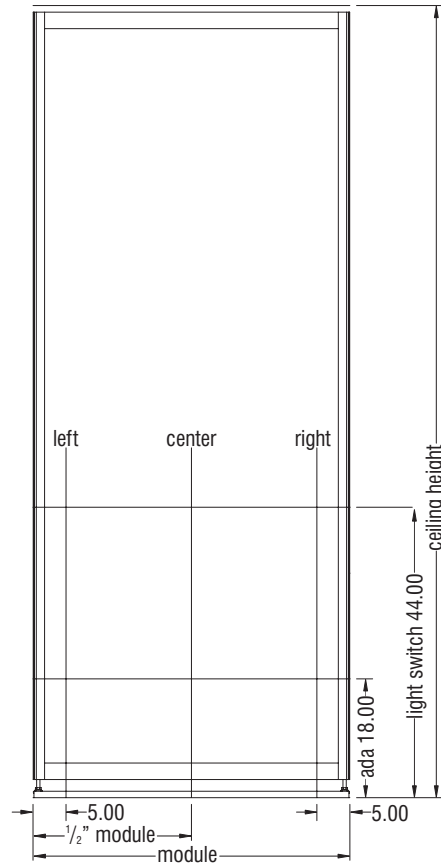


Figure 2

Note: Electrical face plates, trim rings and modular boxes shown in the figures on this page have been discontinued as of 1/31/19.



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Standard One Side Electrical Locations for Full Solid Panel

Minimum width panels will have center mount boxes (see chart below).

	left	center	right	minimum module
mod. 1-gang				10.00
mod. 2-gang				12.00
mod. 4-gang				16.00

example 1 → 5.00
RH receptacle height 4-gang

Centerlines show location of box in relation to panel location (see example 1).



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Two Box Electrical Locations for Full Solid Panel

Choose from 1, 2, or 4-gang device boxes.

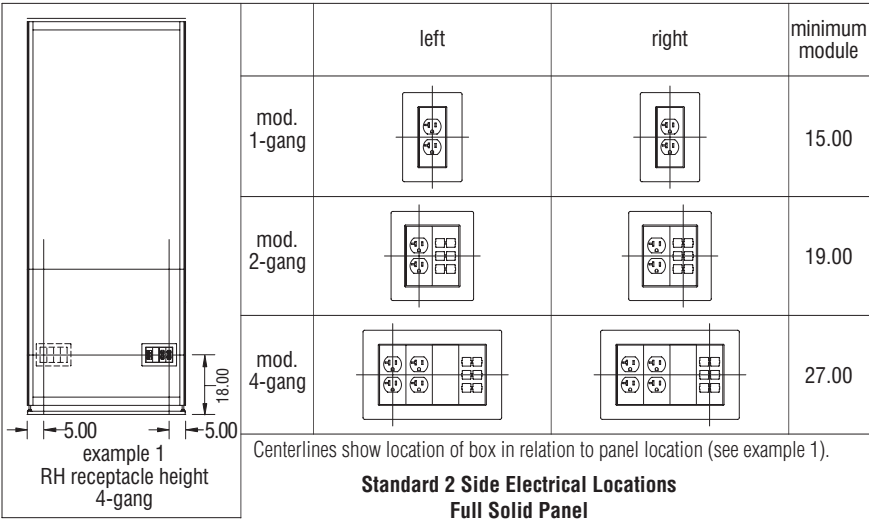
Boxes located on left hand or right hand on both sides. Cannot have right hand on one side and left hand on opposite side. Boxes would interfere.

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:

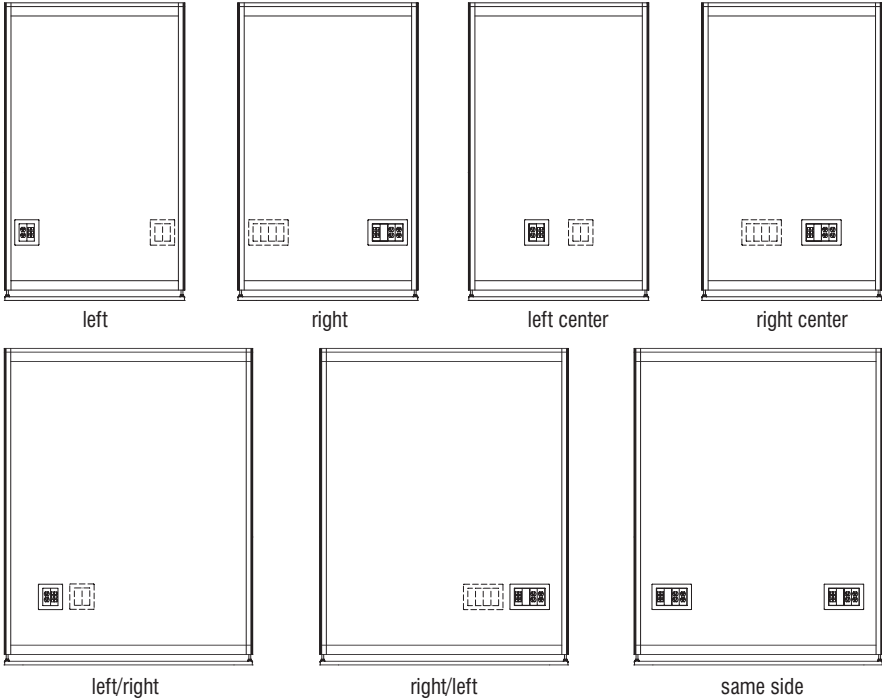
- 1-gang electric box receives one 1/2" flexible conduit.
- 1-gang data box receives one 3/4" EMT conduit.
- 2-gang box receives one 1/2" flexible conduit, one 3/4" EMT conduit, and one divider plate or two 1/2" flexible conduit or two 3/4" EMT. (Figure 1).
- 4-gang box receives one 1/2" flexible conduit and two 3/4" EMT conduit, and one divider plate (Figure 1).

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

Trim ring, receptacles and electrical/data cover plates specified separately (see pages 6 and 7).



standard panel box location (dotted line box indicates facing opposite side).



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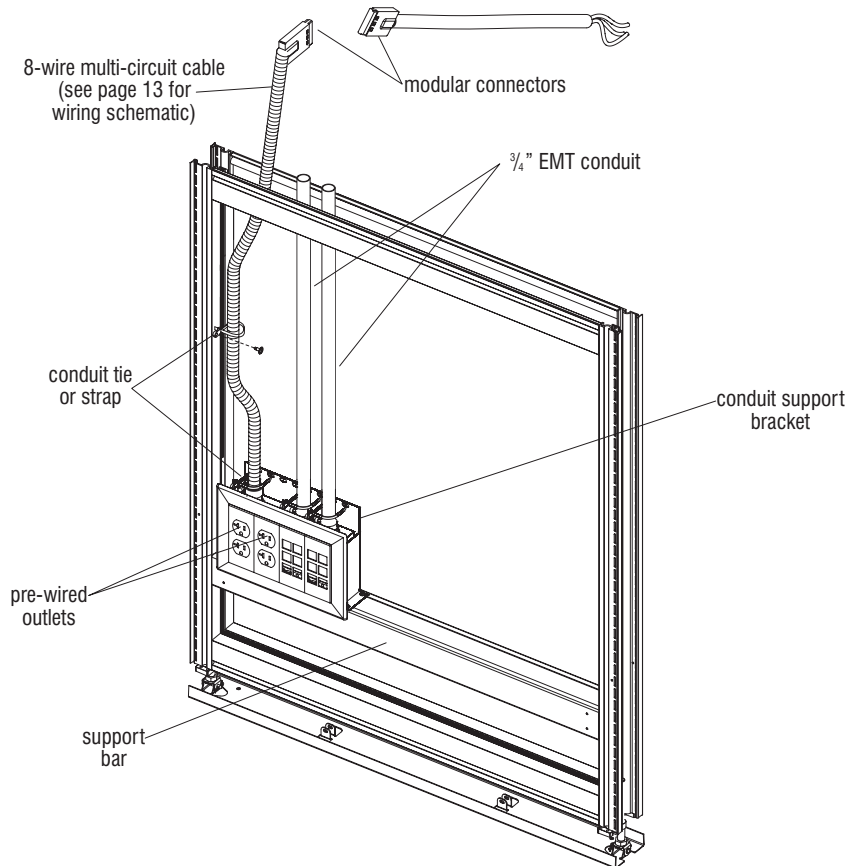


Figure 3



Figure 4

Pre-wired Modular Boxes in Panel with 3-3-2 and 4-2-2 configurations (modular box, 8-wire multi-circuit cable and prewired receptacles)

Choose from 1, 2, or 4-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 two heights 18" 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).

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

- 1-gang electric box receives one 8-wire multi-circuit cable for one receptacle (see page 6).
- 2-gang box receives one 8-wire multi-circuit for two receptacles, or one 8-wire multi-circuit cable for one receptacle, one $\frac{3}{4}$ " EMT conduit and one divider plate for data. (The receptacles are wired per order, see page 6 for receptacle choices).
- 4-gang box receives one 8-wire multi-circuit cable for two receptacles and one $\frac{3}{4}$ " EMT conduit for data, divider plate. (The receptacles are wired per order, see page 6 for receptacle choices.) Choose black, gray, ivory, or white. Receptacles are wired in factory.

Data plates specified separately (see page 6).

Modular Connectors specified separately (see page 7).

Note: If two box pre-wired electrical panels are required, refer to page 4 for location options.



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Electrical Accessories

Electrical Components – Power Devices – Commercial Grade

Power Devices	Description
	15/20A, 125V Traditional Duplex Receptacle, Commercial <ul style="list-style-type: none"> White, Black, Ivory, or Gray Includes device only.
	15/20A, 125V, Traditional Duplex Receptacle, Isolated ground, Commercial <ul style="list-style-type: none"> White, Ivory, Gray, or Orange Includes device only.
	15/20A, 125V, Decorator Duplex Receptacle, Commercial <ul style="list-style-type: none"> White, Black, Ivory, or Gray Includes device only.
	15/20A, 125V, Decorator Duplex Receptacle, Isolated ground, Commercial <ul style="list-style-type: none"> White, Ivory, Gray, or Orange Includes device only.


Note: Electrical face plates shown below have been discontinued as of 1/31/19.

Face Plates

Specification Notes:

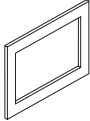
- Available in black, gray, ivory or white. **Note:** Discontinued as of 1/31/19.

Face Plates	Description
	A. Siemon Cat# S1305
	B. Siemon Cat# S1315
	C. AMP Cat# AMP303
	D. AMP Cat# AM313
	E. Hubbell Cat# HBL317
	F. Nordex 6 Part Cat# NO309
	G. Lucent Tech. Cat# LT309
	H. Ortronic Cat# OR306
	I. Krone/Leviton/Hubbell/Bryant/ICC Cat# KR314
	J. Nevada Western Cat# NV304
	K. Panduit Cat# PA308
	L. Blank Cat# BL300
	M. Styleline/Decora Cat# DE301
	N. Ortronics Cat# OR322
	O. Standard Duplex Cat# ST302
	P. Panduit Dedicated Cat# PA321
	Q. Toggle Switch Cat# T0310
	R. Twistlock 20A Cat# TL318
	S. Twistlock 15A Cat# TL319
	T. Interlink Cat# IN323
	U. Hubbell Infestation Cat# IMF330



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Note: Electrical trim rings shown below have been discontinued as of 1/31/19.

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


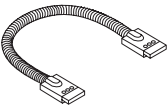
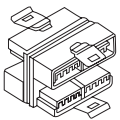
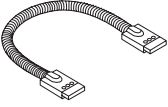
Trim Ring

- Available in black, gray, ivory or white. **Note:** Discontinued as of 1/31/19.

Pre-wired Electrical Distribution System Components - Ceiling

Specification Notes:

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

Power/Data Connectors	Description	Use
	Zone Distribution Tie-in Cable -18"	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.
	Male/Female Extender Cable -5' -10' -15' -20'	Used as an "extension cord" to reach between the ganger box infeed and the power source plug (Page 8, Figure 5).
	Circuit Distributor	Used as a splitter to run two extender cables from the same power source plug.
	Female/Female Extender Cable -5' -10' -15' -20'	Used as an "extension cord" to reach between the splitter and the power source plug (Page 8, Figure 5).



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Note: Electrical face plates, trim rings and modular boxes shown in the figures on this page have been discontinued as of 1/31/19.

Modular Power Distribution

The Genius modular wiring system is used to distribute power evenly throughout a space into predetermined zones (Figure 5). The plug-and-play components of the modular wiring system are:

- A** Junction Boxes (by others)
- B** Extender Cables (M/F)
- C** Extender Cables (F/F)
- D** Circuit Distributors

The Genius modular system distributes power from the junction boxes using a grid layout. Using a grid distribution system allows for flexibility in reconfigurations or addition of Genius electrical panels.

The junction 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 area via male/female Extender Cables (B) or female/female Extender Cables (C) and circuit distributors (D) (Figure 5).

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

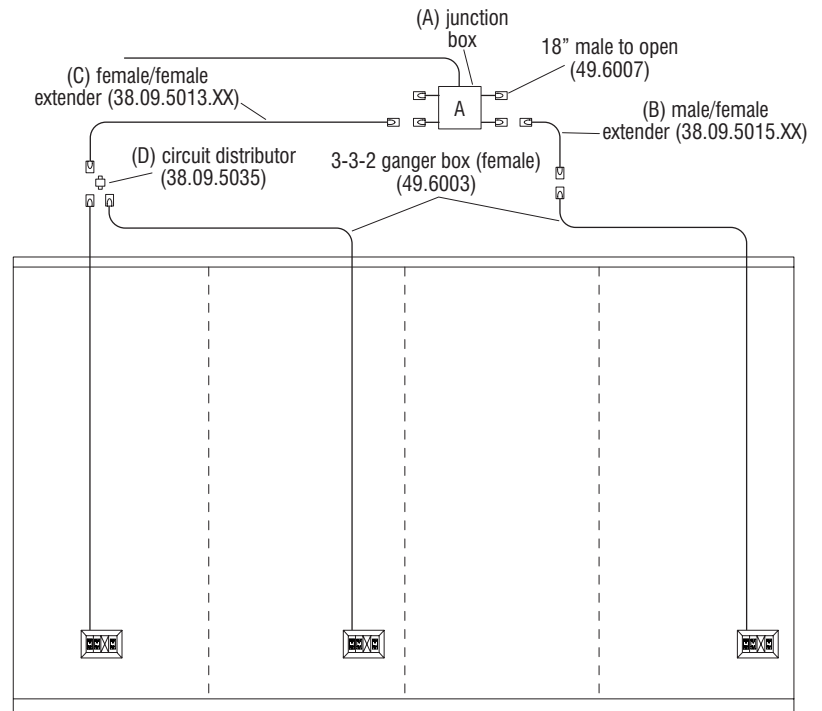
All components are modular and are Certified by CSA and/or Listed or Classified by UL to the requirements of Canadian and US codes. All components must be installed in accordance with local electrical codes.

Multiple ganger boxes can be fed using a circuit distributor (D). This 4-port "splitter" allows power to be delivered to different ganger boxes from the same female/female extender (Figure 5).

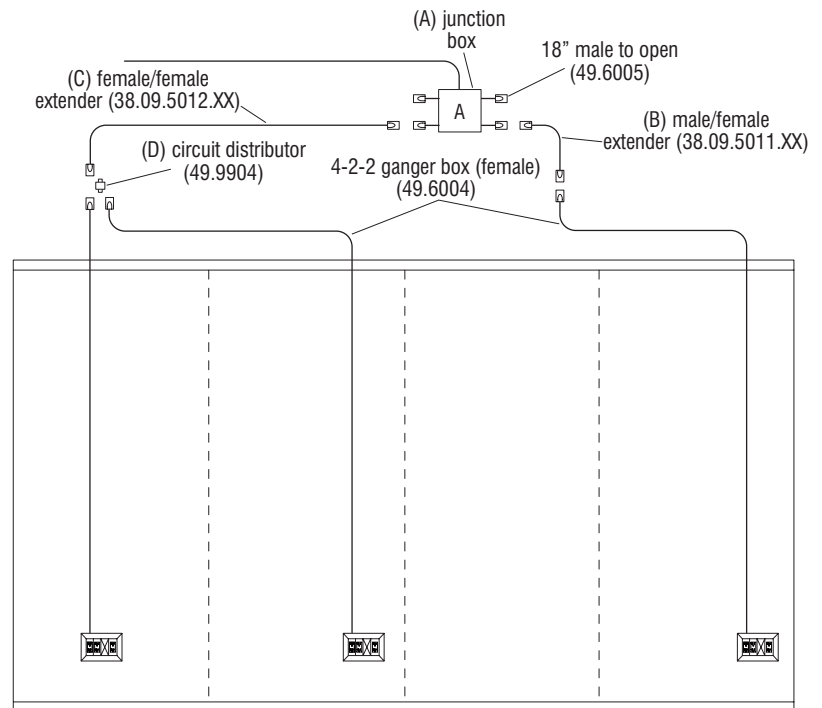
- Modular wiring system is configured in:

- 3-3-2
 - 3-hot conductors
 - 3 neutral conductors
 - 1 equipment ground
 - 1 isolated ground

- 4-2-2
 - 4-hot conductors
 - 2 neutral conductors
 - 1 equipment ground
 - 1 isolated ground



3-3-2 Wiring



4-2-2 Wiring

Figure 5



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 personal injury.

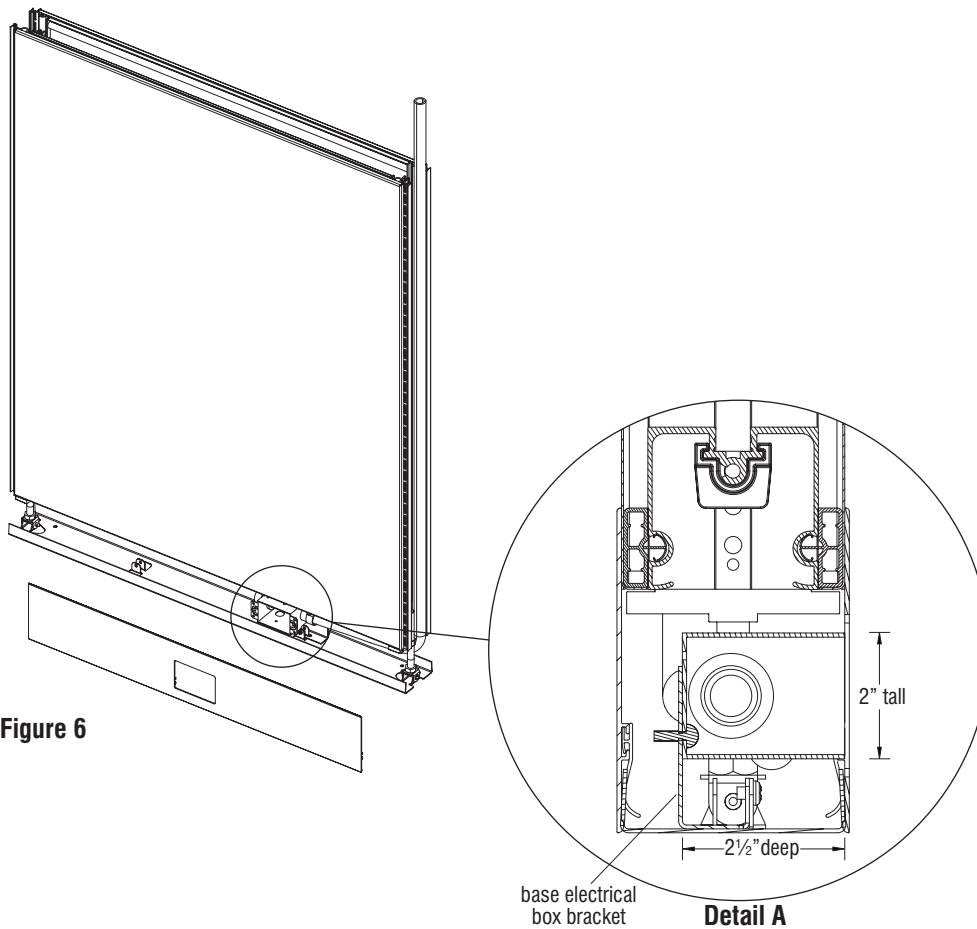
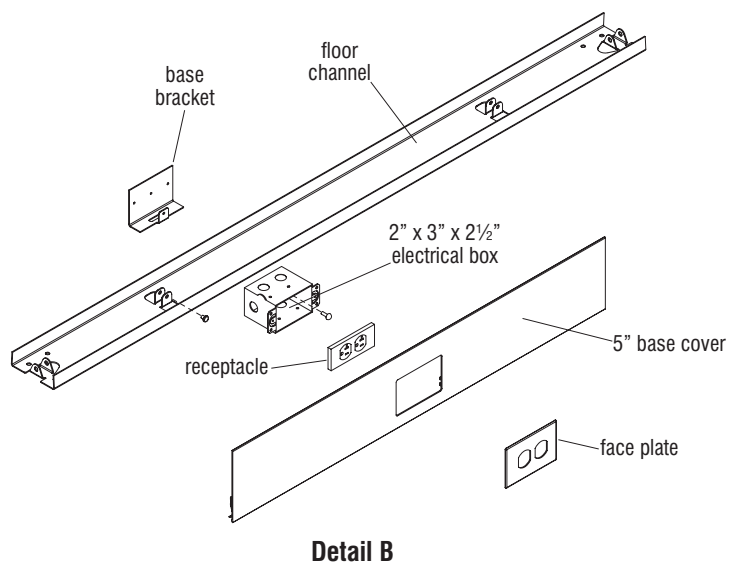


Figure 6



Detail B

Conventional Boxes in Base

The 5" Genius base wireway is large enough to accept 2" x 3" x 2 1/2" 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 6).

Conduit is ordered separately.



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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 7).

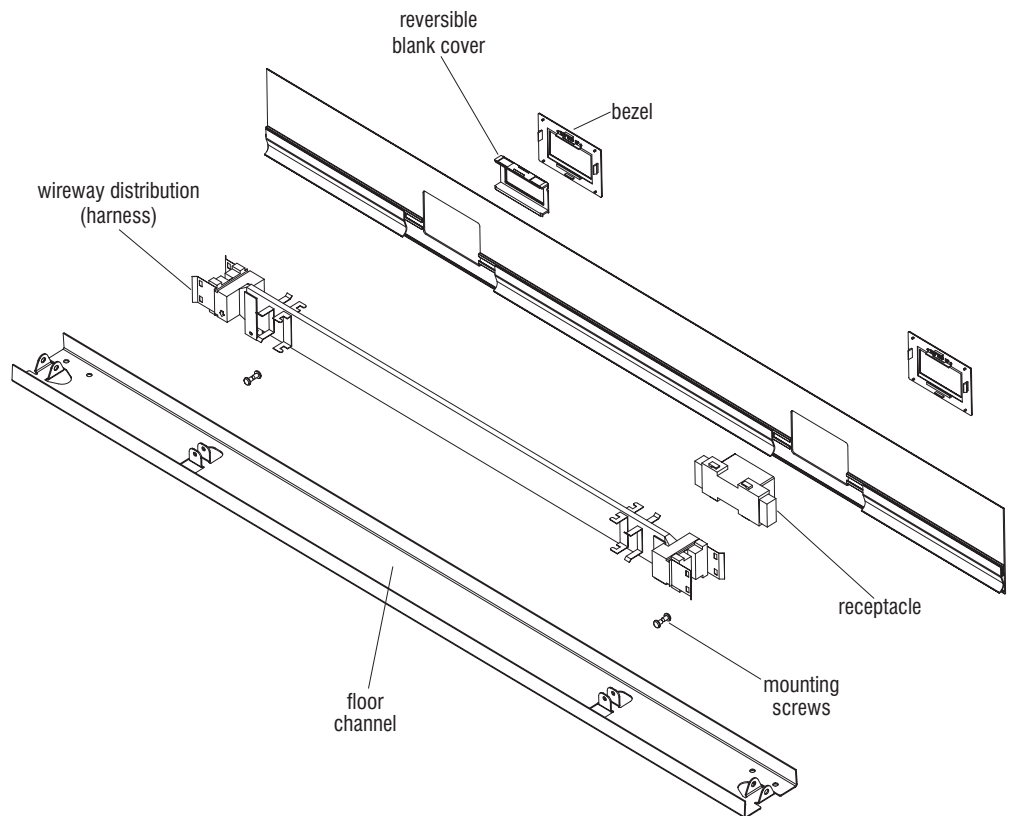
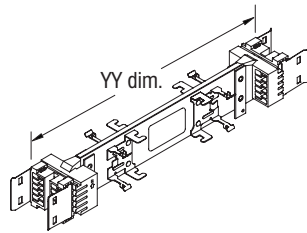


Figure 7



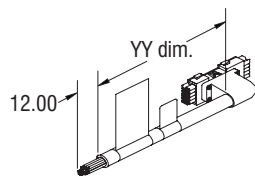
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KI Parts List for Genius 5" Base Electrical System (UL183)



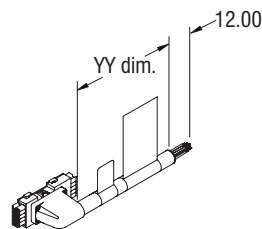
Wireway distribution (harness) with spring latch
6-2-2 config. Only, 810 system

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



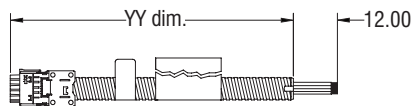
Floor power entry, left hand
6-2-2 config. Only, 810 system

YY Dim.	Pigtail Dim.
72.00	12.00



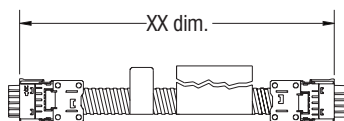
Floor power entry, right hand
6-2-2 config. Only, 810 system

YY Dim.	Pigtail Dim.
72.00	12.00



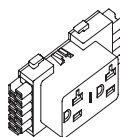
Plug to open, "Topfeed"
6-2-2 config. Only, 810 system

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.
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



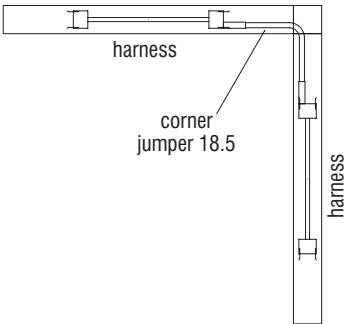
CAUTION

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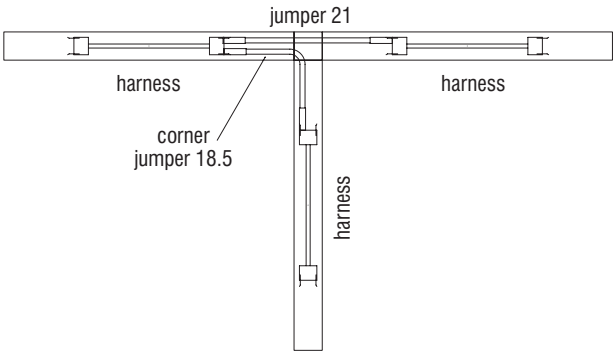
Base In-line Connection with Power Infeed



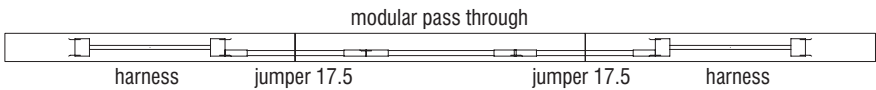
Base Corner Connection



Base 3-Way Condition, In-line and Corner




Base Connection with Modular Pass Through Condition



Base Connection Through 2-Way Post





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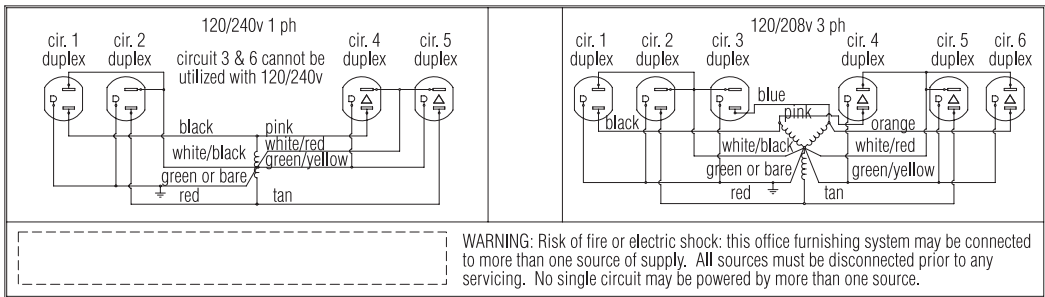


Figure 8

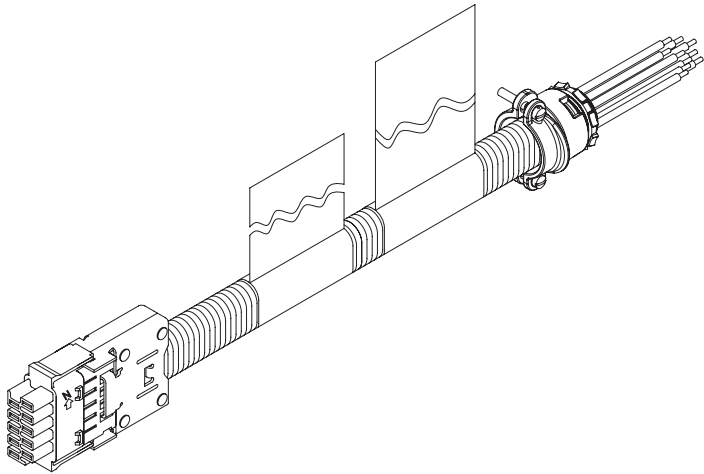


Figure 9

Circuit	Hot Wire Color	Neutral Wire Color	Ground Wire Color
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 10

Wiring Schematic to the Receptacles (Figure 8).

Wiring for an Infeed or Wireway (Figures 9 and 10).



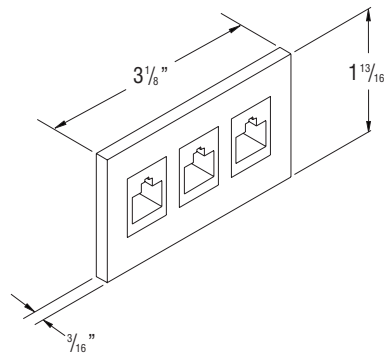
Assemble units as described herein only. To do otherwise may result in instability. All screws, nuts and bolts must be tightened securely and must be checked periodically after assembly. Failure to assemble properly, or to secure parts may result in assembly failure and personal injury.

Base Data Access (Figure 11)

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.

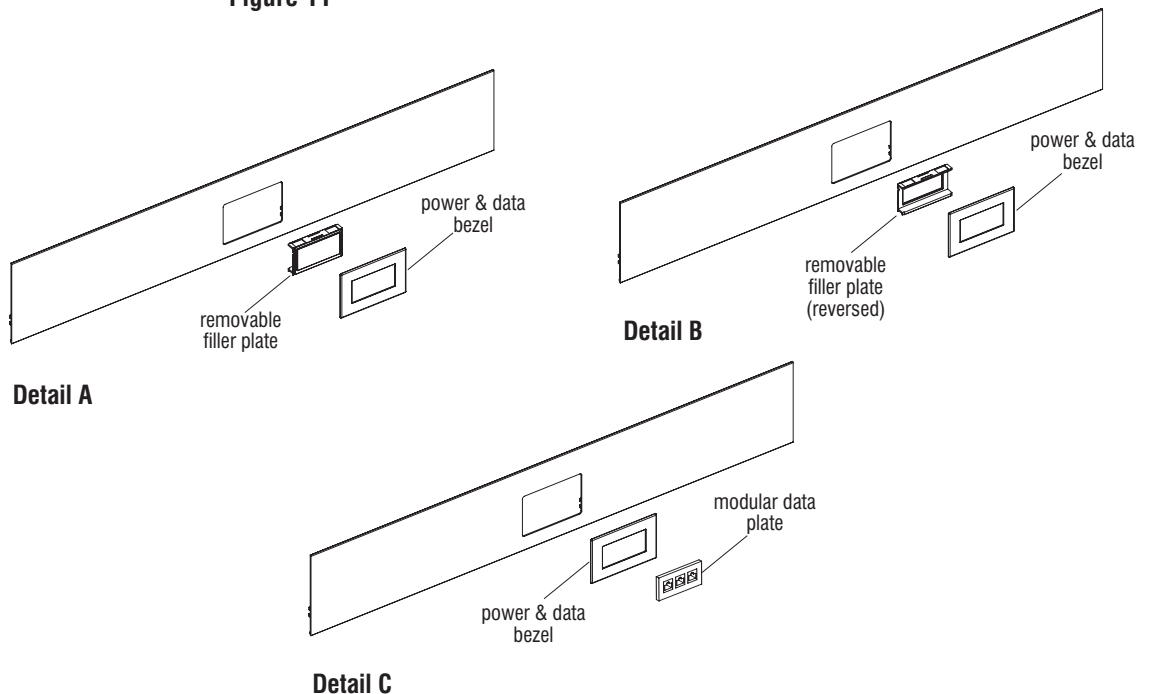
Typical manufacturer modular face plates that are compatible with Genius are:

Lucent	M-Series
AMP	Mode Interconnect Modules
Panduit	Mini-Com Faceplate
Ortronics	Series II IMO's Modular Furniture Bezel
Leviton	Quickport Modular Furniture Faceplate
Siemon	CT-MFP-(color)



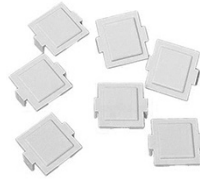
“Typical” Data Plate Dimension

Figure 11





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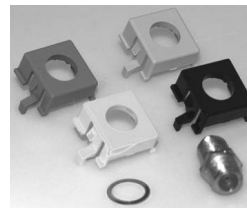
CommScope Systimax® M13C 3-Port Faceplate (M Series)

Dimensions: 3¹/₈" (79mm) Width
1¹³/₁₆" (46mm) Height
3³/₁₆" (5mm) Depth

CommScope Systimax® M20 Dust Cover (M Series)
1/2" x 1/2" Dust Cover (to cover unused openings)

Communications Faceplate:

Customer to order from Graybar.
Fits into Genius bezel.



CommScope Systimax®
M81 BNC-B Coupler (M Series)

Applications:
Local are Networks
Data Processing Networks

CommScope Systimax®
M1AH Information Outlet (M Series)
8-position/8-conductor outlets (RJ45 Cat 5)
6-position/6-conductor outlets (RJ11 Cat 3)

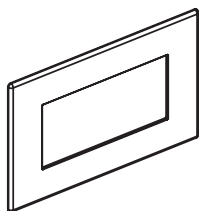
Applications:
Telecommunications
Local Area Networks
Data Processing Networks

CommScope Systimax®
M81C Coaxial Coupler (M Series)

Applications:
Video

Communications Connectors:

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



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.

Power & Data Bezel

KI
1330 Bellevue Street
P.O. Box 8100
Green Bay, Wisconsin 54308-8100
1-800-424-2432
www.ki.com

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