KI Architectural Wall provides the option of using a pre-wired electrical system. The system provides pre-wired electrical devices, pre-wired/data face plates, conductors, conduits and plug-and-play connections giving the end user maximum flexibility meeting current and future power distribution needs. The system also includes a variety of jumpers, H-block splitters, and pig-tails to maximize the circuitry. The system does not include any data adapters or wiring for voice or data, but does provide the face plates for the voice and data jacks to hook into. This guide is intended to assist with the specification of KI Architectural Wall’s, pre-wired electrical system.

**CHOOSE WIRING SYSTEM**

The first step in specifying pre-wired electrical devices in the KI Architectural Wall system is to choose the wiring system. There are two options, 4-2-2 or 3-3-2. Each system allows the end user to accomplish different things electrically.

**4-2-2 System**

The 4-2-2 system consists of four hot wires, two neutral wires, and two ground wires hence the name 4-2-2. The 4-2-2 system gives the user the ability to have two standard circuits with a shared neutral and two isolated ground circuits with dedicated neutrals per infeed.

**3-3-2 System**

The 3-3-2 system consists of three hot wires, three neutral wires, and two ground wires hence the name 3-3-2. The 3-3-2 system gives the user the ability to have two standard circuits and one isolated ground circuit per infeed. The 3-3-2 also gives the user dedicated non-shared neutrals for every circuit.

Once the wiring system is selected, a decision will need to be made by the customer regarding which circuit each receptacle will need to be wired for.

**WIRING SYSTEM INFORMATION**

**4-2-2 = 4 Hot, 2 Neutral, 2 Ground**

<table>
<thead>
<tr>
<th>Circuit</th>
<th>Wire Designation</th>
<th>Wire Designation (or Utility Ground)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>L1-N1-G1</td>
<td>Common Ground</td>
</tr>
<tr>
<td>2</td>
<td>L2-N1-G2</td>
<td>Isolated Ground</td>
</tr>
</tbody>
</table>

**3-3-2 = 3 Hot, 3 Neutral, 2 Ground**

<table>
<thead>
<tr>
<th>Circuit</th>
<th>Wire Designation</th>
<th>Wire Designation (or Utility Ground)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>L1-N1-G1</td>
<td>Common Ground</td>
</tr>
<tr>
<td>2</td>
<td>L2-N2-G1</td>
<td>Common Ground</td>
</tr>
<tr>
<td>3</td>
<td>L3-N3-G2</td>
<td>Isolated Ground</td>
</tr>
</tbody>
</table>

**Wiring Order 8-Wire**

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

**DETERMINE BOX SIZE**
The KI Architectural Wall pre-wired system provides the user the option of three different modular boxes; 1-gang, 2-gang, and 4-gang. Each box can be configured to have a variety of different electrical, data, and blank options. Boxes are specified by gang, and then in positions from left to right. For a single gang box there is only one position, two for a 2-gang box, and four for a 4-gang box. Both 2-gang and 4-gang boxes are available with dividers separating the low voltage (data and voice) from the pre-wired receptacle(s).

![Diagram of 1-gang, 2-gang, and 4-gang boxes](image)

**RECEPTACLE OPTIONS**

<table>
<thead>
<tr>
<th>Traditional Duplex Receptacle</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>15/20A, 125V, Common Ground Outlet</strong></td>
<td></td>
</tr>
<tr>
<td>• Circuits 1 &amp; 2</td>
<td></td>
</tr>
<tr>
<td>• White, black, ivory, or gray</td>
<td></td>
</tr>
<tr>
<td><strong>15/20A, 125V, Isolated Ground Outlet</strong></td>
<td></td>
</tr>
<tr>
<td>• Circuits 3 &amp; 4I</td>
<td></td>
</tr>
<tr>
<td>• White, ivory, gray, or orange</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Decorator Duplex Receptacle</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>15/20A, 125V, Common Ground Outlet</strong></td>
<td></td>
</tr>
<tr>
<td>• Circuits 1 &amp; 2</td>
<td></td>
</tr>
<tr>
<td>• White, black, ivory, or gray</td>
<td></td>
</tr>
<tr>
<td><strong>15/20A, 125V, Isolated Ground Outlet</strong></td>
<td></td>
</tr>
<tr>
<td>• Circuits 3 &amp; 4I</td>
<td></td>
</tr>
<tr>
<td>• White, ivory, gray, or orange</td>
<td></td>
</tr>
</tbody>
</table>

**CHOOSE BOX CONFIGURATION**
Each box position can be specified as either a pre-wired receptacle, data face plate, or blank face plate.

**Pre-Wired Receptacle Face Plates**
- White, black, ivory, or gray

![Face plates](image)

**Note:** Switches are not available as a pre-wired option.
TECHNICAL SPECIFICATIONS

Pre-Wired Isolated Ground Face Plates
- White, ivory, gray, or orange

Note: Switches are not available as a pre-wired option.

Data Face Plates
- White, black, ivory, or gray

Other Face Plates
- White, black, ivory, or gray
STRING CODES

The following codes are used to create pre-wired electrical configurations for the architectural wall. In numerical order, the user will start with the category “Wiring System” and select the code that pertains to the pre-wired electrical configuration desired. Continue the process until step 12 is complete. String examples are available on page 5. String templates are provided on page 6 to keep track of the users selected codes.

Note: If the pre-wired configuration requires a 1-Gang box, stop at step 6. If the configuration requires a 2-Gang box, stop at step 8.

Note: On step 5, 7, 9 and 11, if the “Box Configuration” category contains a data jack faceplate and not a receptacle, do not enter a code for the “Receptacle Color”.

1. Wiring System
   • 442 (4-2-2 Wiring System)
   • 332 (3-3-2 Wiring System)

2. Box Trim Color
   • B (Black)
   • G (Gray)
   • IV (Ivory)
   • W (White)

3. Box Size
   • 1G (1-Gang)
   • 2G (2-Gang)
   • 4G (4-Gang)

4. Receptacle Type
   • ST302 (Traditional Duplex Receptacle)
   • DE301 (Decorator Duplex Receptacle)

5. Box Configuration 1
   • C1 (Circuit 1)
   • C2 (Circuit 2)
   • C3I (Circuit 3I)
   • C4I (Circuit 4I)
   • BL300 (Blank)
   • S1305 (Siemon)
   • S1315 (Siemon)
   • AMP303 (Amp)
   • AMP313 (Amp)
   • HBL317 (Hubbell)
   • NO309 (Nordex 6 Port)
   • LT309 (Lucent Tech)
   • OR306 (Ortronics)
   • KR314 (Krone/Leviton/Hubbel/Bryant/ICC)
   • NV304 (Nevada Western)
   • PA308 (Panduit)
   • OR322 (Ortonics)
   • PA321 (Panduit Dedicated)
   • T0310 (Toggle Switch)
   • TL318 (Twistlock 20A)
   • TL319 (Twistlock 15A)
   • IN323 (Interlink)
   • IMF330 (Hubbell Infinestation)

6. Receptacle Color 1
   • B (White)
   • G (Black)
   • IV (Ivory)
   • W (Gray)
   • OR (Orange)

7. Box Configuration 2
   • C1 (Circuit 1)
   • C2 (Circuit 2)
   • C3I (Circuit 3I)
   • C4I (Circuit 4I)
   • BL300 (Blank)
   • S1305 (Siemon)
   • S1315 (Siemon)
   • AMP303 (Amp)
   • AMP313 (Amp)
   • HBL317 (Hubbell)
   • NO309 (Nordex 6 Port)
   • LT309 (Lucent Tech)
   • OR306 (Ortronics)
   • KR314 (Krone/Leviton/Hubbel/Bryant/ICC)
   • NV304 (Nevada Western)
   • PA308 (Panduit)
   • OR322 (Ortonics)
   • PA321 (Panduit Dedicated)
   • T0310 (Toggle Switch)
   • TL318 (Twistlock 20A)
   • TL319 (Twistlock 15A)
   • IN323 (Interlink)
   • IMF330 (Hubbell Infinestation)

8. Receptacle Color 2
   • B (White)
   • G (Black)
   • IV (Ivory)
   • W (Gray)
   • OR (Orange)

9. Box Configuration 3
   • C1 (Circuit 1)
   • C2 (Circuit 2)
   • C3I (Circuit 3I)
   • C4I (Circuit 4I)
   • BL300 (Blank)
   • S1305 (Siemon)
   • S1315 (Siemon)
   • AMP303 (Amp)
   • AMP313 (Amp)
   • HBL317 (Hubbell)
   • NO309 (Nordex 6 Port)
   • LT309 (Lucent Tech)
   • OR306 (Ortronics)
   • KR314 (Krone/Leviton/Hubbel/Bryant/ICC)
   • NV304 (Nevada Western)
   • PA308 (Panduit)
   • OR322 (Ortonics)
   • PA321 (Panduit Dedicated)
   • T0310 (Toggle Switch)
   • TL318 (Twistlock 20A)
   • TL319 (Twistlock 15A)
   • IN323 (Interlink)
   • IMF330 (Hubbell Infinestation)
10. Receptacle Color 3
- B (White)
- G (Black)
- IV (Ivory)
- W (Gray)
- OR (Orange)

11. Box Configuration 4
- C1 (Circuit 1)
- C2 (Circuit 2)
- C3 (Circuit 3)
- C4 (Circuit 4)
- BL300 (Blank)
- S1305 (Siemon)
- S1315 (Siemon)
- AMP303 (Amp)
- AMP313 (Amp)
- HBL317 (Hubbell)
- NO309 (Nordex 6 Port)
- LT309 (Lucent Tech)

12. Receptacle Color 4
- B (White)
- G (Black)
- IV (Ivory)
- W (Gray)
- OR (Orange)

String Example 1

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<td>332</td>
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String Example 2

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<td>W</td>
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<tbody>
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<td>C3I</td>
<td>W</td>
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<td>(-)</td>
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### STRING TEMPLATE

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#### String 2

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