

Electrical Installation Instructions

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ELECTRICAL SYSTEM SPECIFICATIONS - 8-WIRE SYSTEM

Dekko Engineering - Pent Division UL 1286 - Office Furnishing 225 Series

8 Wires

- 4 lines (12 ga.)
- 2 neutrals (10 ga.)
- 2 grounds (12 ga.)

4 Circuits

- "3 + 1" 120 Volts AC system rated at 20A
3 utility circuits (#1, #2 & #3 receptacles)
1 designated circuit (#4 isolated ground circuit)

Distribution Harnesses

- 24" to 60" length by 6" increment

Jumper

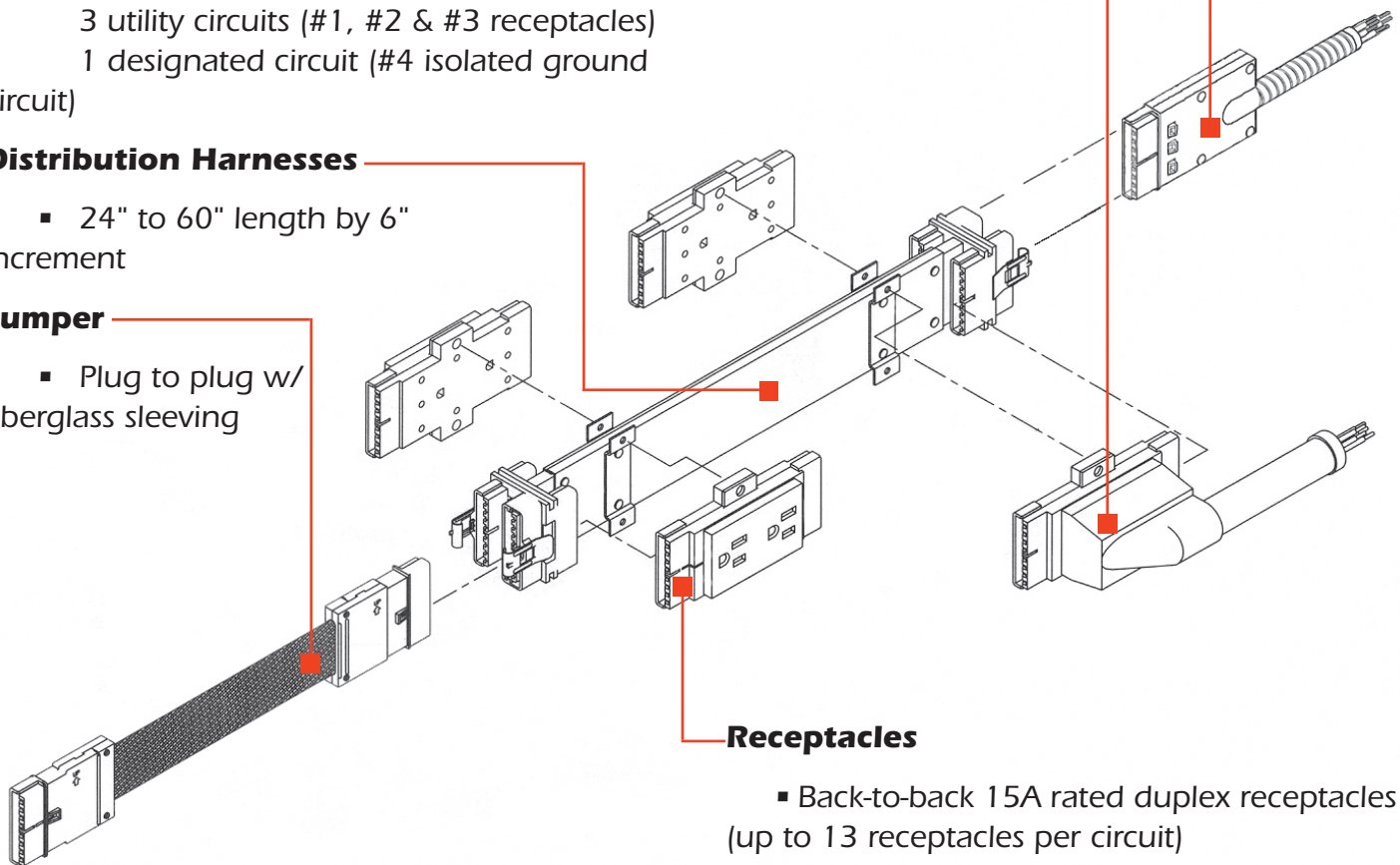
- Plug to plug w/ fiberglass sleeving

Power entries

- Ceiling Power Entry
or
Floor Power Entry
available

Receptacles

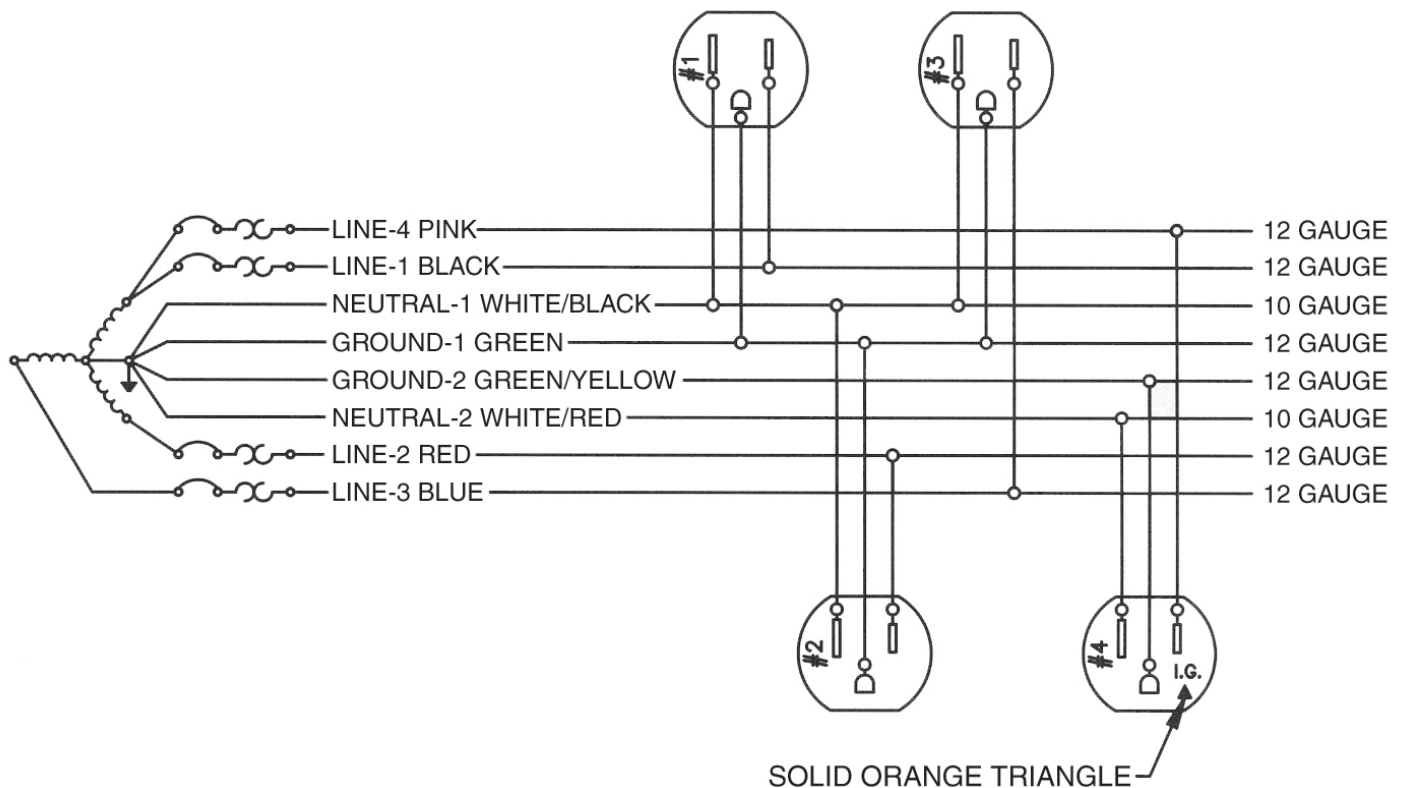
- Back-to-back 15A rated duplex receptacles
(up to 13 receptacles per circuit)



Note : The required electrical harnesses are installed in each powered panel (P8) at the factory.

On-site installation involves principally interconnecting panels with the flexible 2-way, 3-way or 4-way panel to panel jumpers and connecting the system to building power.

ELECTRICAL 8-WIRE SYSTEM SCHEMATIC CIRCUITS



120/208 volts WYE

Delta connections & other receptacle configurations available upon request

CAUTION : The connection of all electrical components, especially connection to building circuits, should be done under supervision of a qualified electrician in accordance with national and/or local codes.

Do not connect or disconnect components while the system is under load. Disconnect the power before servicing.

ELECTRICAL INSTALLATION INSTRUCTIONS - 8-WIRE SYSTEM

Electrical Distribution Harness

The Electrical Distribution Harness is screw mounted to the panel raceway at the factory. It serves to provide point of attachment and electrical connection for duplex receptacles and power entry components.

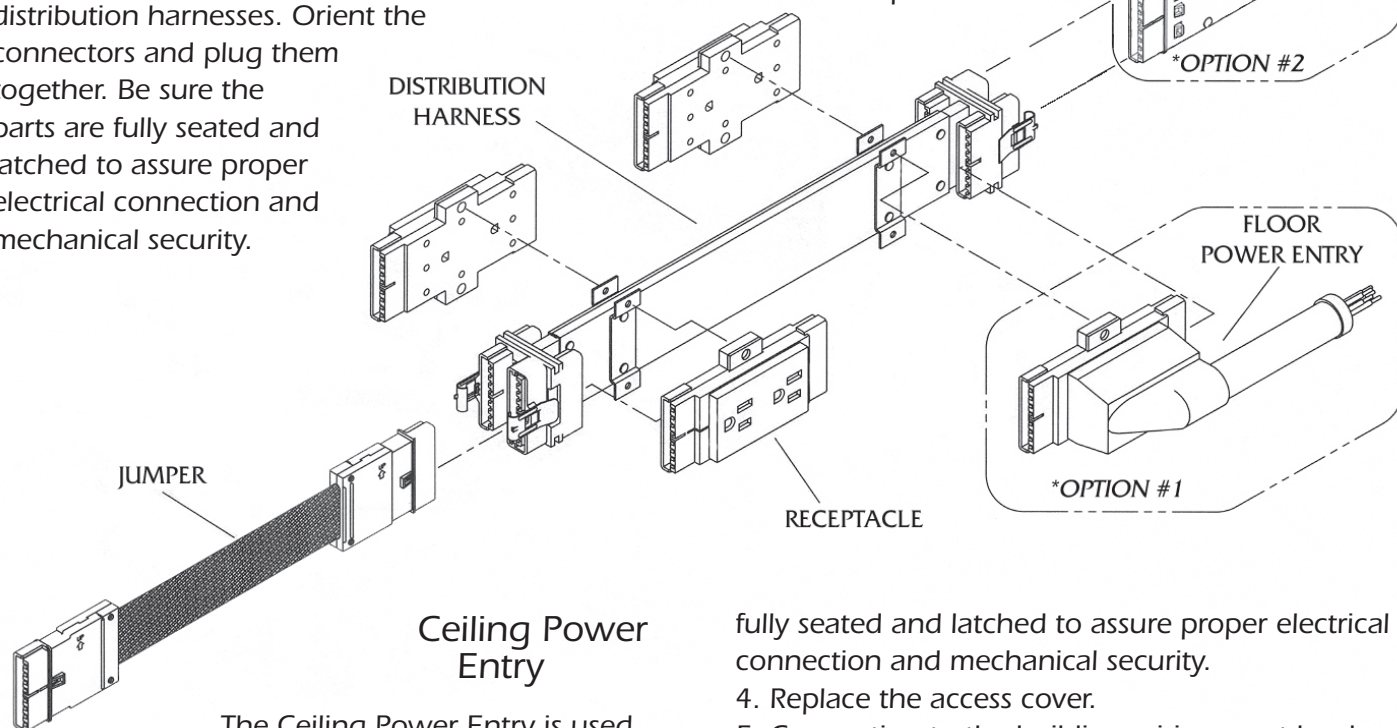
Jumper

The Jumper is utilized to electrically connect distribution harnesses together.

1. Complete all mechanical connections between units prior to electrical connection.
2. Position the jumper between appropriate electrical distribution harnesses. Orient the connectors and plug them together. Be sure the parts are fully seated and latched to assure proper electrical connection and mechanical security.

point is the same.

1. Locate the appropriate connection point on the panel raceway. The access cover must be removed to allow installation.
2. Feed the open end of the panel raceway to the ceiling through the power pole provided with the furniture system.
3. Position the power entry connector at the end of the appropriate distribution harness and plug them together. Be sure the parts are



Ceiling Power Entry

The Ceiling Power Entry is used to connect the electrical distribution system to the building power network at an above ceiling level junction box or similar device. The ceiling power entry is installed by plugging directly into an electrical distribution harness. The procedure is similar to jumper installation and the connection

fully seated and latched to assure proper electrical connection and mechanical security.

4. Replace the access cover.
5. Connection to the building wiring must be done by a qualified electrician according to national and provincial codes. Refer to the wiring schematic attached to the conduit or shown on page 3 of this booklet.

Floor Power Entry

The Floor Power Entry is used to connect the electrical distribution system to the building power network at a floor level junction box or similar device.

1. Locate the appropriate connection point on the panel raceway. The access cover must be removed to allow installation.
2. Pass the conduit through the opening in the access cover so the connector housing is inside the access cover next to the connection point.
3. Position the Floor Power Entry in the mounting bracket and slide it in toward the electrical distribution harness. Be sure the parts are fully seated and latched to assure proper electrical connection and mechanical security.
4. Install attachment screws.
5. Replace the access cover.
6. Connection to the building wiring must be done by a qualified electrician according to national and provincial codes. Refer to the wiring schematic attached to the conduit or shown on page 3 of this booklet.

Duplex Receptacle

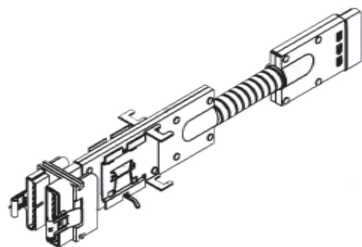
The duplex receptacle plugs into and is mechanically attached to the electrical distribution assembly. The receptacle is internally arranged to connect to the circuitry designated by the symbol on its face.

1. The access cover must be removed to allow installation.
2. Select the correct receptacle for the circuit desired at that location.
3. Position the receptacle into the mounting bracket on the electrical the electrical distribution harness and slide it in toward the harness. Be sure the parts are fully seated to assure proper electrical connection and mechanical security.
4. Install the attachment screws.
5. Re-install the access cover.

WARNING

Risk of fire or electric shock. Do not electrically connect a distribution harness to more than one supply source. Disconnect power before servicing. Failure to do so may cause electrical shock and/or personal injury.

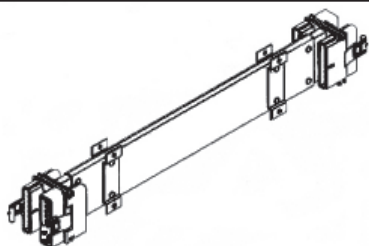
ELECTRICAL COMPONENTS - 8-WIRE SYSTEM



Interconnection Harness **E-EIH-24 (24" Wide)**

Manufacturer Ref. #225145

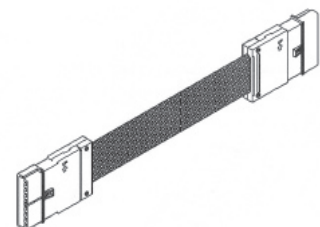
2.00" Panel width - Screw mounted at the factory in each powered panel (P8) - Can be ordered separately for retrofit



Distribution Harness **E-EDH-XX (30" to 60" length by 6" increment)**

Manufacturer Ref. #225029

2.00" Panel width - Screw mounted at the factory in each powered panel (P8) - Can be ordered separately for retrofit

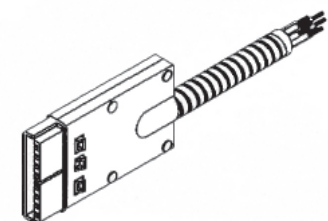


Jumper

E-EJ-21 (for straight panel to panel connection) **E-EJ-24 (for straight through post & corner panel connection)**

Manufacturer Ref. #225465

Plug to plug w/ fiberglass sleeving

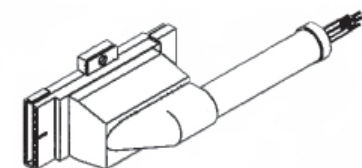


Ceiling Power Entry

E-EPP-120 (supplied with 10' pole) **E-EPP-XX (for 30", 37", 44", 52", 67" & 82" panels)**

Manufacturer Ref. #225048

Plug to open w/X-Flex

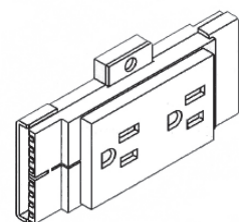


Floor Power Entry

E-ECFL/R (for right or left hand distribution)

Manufacturer Ref. #225292

Screw mount - Right hand shown



Duplex Receptacle Outlet

E-ERO-1 to 4 (for #1, #2, #3 utility circuits & #4 dedicated circuit)

Manufacturer Ref. #225063

0.850 Thickness 15A rated - Screw mount

TYPICAL ELECTRICAL PANEL CONNECTIONS

