

**POWER-CONNECT
WIRING HARNESS**

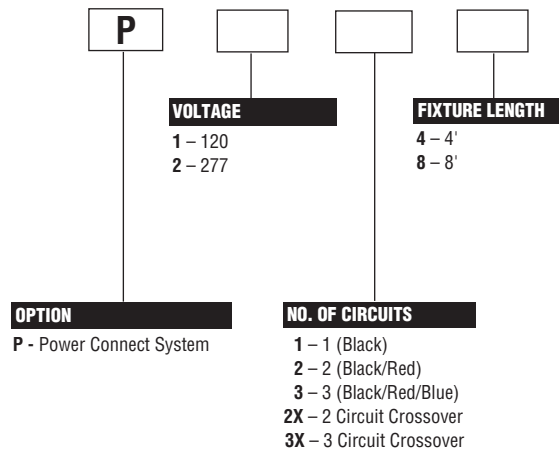
APPLICATION

- Power-Connect wiring harness is a power feed thru with provisions for a power tap that is factory installed in each channel of strips or industrial lighting luminaires that are to be mounted in continuous rows.
- Modular connections on the power-connect wiring harness make installation quick and easy for potential savings of 40% on the installation labor.

ELECTRICAL

- 1, 2, or 3 circuit wiring harness available.
- UL listed for factory installed branch circuit wiring.
- Male terminal in connector on one end and female terminal in connector on other end. Simply plug one luminaire into the next.
- 20 Amp Rated.
- Conductors are #12 AWG stranded, 90°C THHN, 600V rated, plus a bare #12 AWG solid copper ground conductor that is bonded to the luminaire.
- System is polarized, keyed, and color coded for easy identification of voltage and to prevent mismatching of components. 120V is blue, 277V is beige.
- Neutral conductor is always connected to the luminaire ballast, as is the black conductor on single circuit systems.
- On multi-circuit systems the black ballast lead is provided with a **TAP CONNECTOR** to permit field attachment to the desired circuit.

ORDERING INFORMATION: SUFFIX TO CATALOG NUMBER



CAUTIONS: Two different circuits of the same electrical Phase shall not be connected to the same Power-Connect harness sharing a common neutral conductor.
Always feed power into the male connector end to avoid possible electrical shock hazard of an unused hot male connector at the end of the luminaire run.

APPLICATIONS – (Example uses 277V - 4' LUMINAIRES)

ONE CIRCUIT

A	P214	P214	P214	P214	P214	P214	P214	P214	P214
	A Phase	A Phase	A Phase	A Phase	A Phase	A Phase	A Phase	A Phase	A Phase

- One circuit Power-Connect; the black and neutral power tap leads are pre-wired to the fixture ballast (no field tap connection is required).

TWO CIRCUIT: A or B phase determined in the field

A, B	P224	P224	P224	P224	P224	P214	P214	P214	P214
	B Phase	B Phase	B Phase	B Phase	B Phase	A Phase	A Phase	A Phase	A Phase

- Two circuit Power-Connect; the neutral power tap lead is pre-wired to the luminaire ballast. The hot lead of ballast will terminate into a self stripping splice connector (supplied in channel of luminaire) for field connection to the “B” Phase circuit or “A” Phase circuit if needed.

TWO CIRCUITS ALTERNATED: Using Power-Connect Crossover

A, B	P22X4	P22X4	P22X4	P22X4	P22X4	P22X4	P22X4	P22X4	P22X4
	A Phase	B Phase	A Phase	B Phase	A Phase	B Phase	A Phase	B Phase	A Phase

- Two circuit crossover Power-Connect; the neutral and black power tap leads are pre-wired to luminaire ballast (no field tap connection to be determined). The “A” or “B” tap is selected automatically by simply plugging the modular connector of the wiring harness from one luminaire to the next.

THREE CIRCUITS: The A, B or C Phase circuit determined in field.

A, B, C	P234	P234	P234	P234	P234	P234	P234	P234	P234
	A Phase	A Phase	A Phase	B Phase	B Phase	B Phase	C Phase	C Phase	C Phase

- Three circuit power-connect; the neutral power tap lead is prewired to the luminaire ballast. The hot lead of ballast will terminate into a self-stripping splice connector for field connection to one of the three circuits.

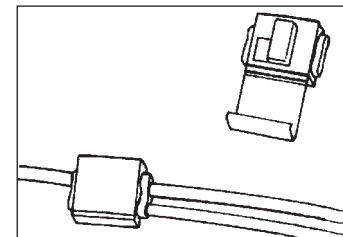
THREE CIRCUITS ALTERNATED: Using Power-Connect Crossover

A, B, C	P23X4	P23X4	P23X4	P23X4	P23X4	P23X4	P23X4	P23X4	P23X4
	A Phase	B Phase	C Phase	A Phase	B Phase	C Phase	A Phase	B Phase	C Phase

- Three circuit crossover Power-Connect; the neutral and black power tap leads are pre-wired to luminaire ballast (no field tap connection to be determined). The “A”, “B” or “C” tap is selected automatically by simply plugging the modular connector of the wiring harness from one luminaire to the next.

INSTRUCTIONS

1. Start with first luminaire in row. Cut off male terminal connector and hard wire power connector wires to line feed.
2. Install second luminaire and simply plug together female terminal (from first luminaire) and male terminal (from second luminaire).
3. Each circuit can be loaded to a maximum of 16 amps.
4. On multi-circuit systems, black ballast lead (tap connector provided) must be field connected to the desired circuit.
5. After connection, leads and conductors must be contained within the luminaire wiring channel.



TAP CONNECTOR