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Specialty Lighting and Power Systems

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OnePass ${ }^{\circledR}$

## Quick-Flex



Intended Use
The Quick-Flex ${ }^{\circledR}$ system costs less than other wiring methods for commercial lighting in offices, schools and other accessible ceiling applications. Quick-Flex ${ }^{\otimes}$ systems are simple and utilize components that snap together in a fraction of the time required for MC cable or other traditional wiring methods.

## Features

Pin-and-socket contacts. Rated for use on 20amp branch circuits.
All conductors are No. 12 AWG copper with $90^{\circ} \mathrm{C}$ thermoplastic insulation rated at 600 volts.

Component provides a fully rated No. 12 AWG grounding conductor.
Fixture leads are No. 18 AWG solid copper rated at $105^{\circ} \mathrm{C}$ with pushnut connectors for easy connection to ballast leads; wirenuts not required.

Lithonia access plate is included with the QFC and QSFC cables. The access plate can be snapped into place or discarded if not required. No fixture ground lead to connect. UL listed auto grounding feature eliminates the need for gound wire connection on each fixture.
Safety keying prevents accidental mating of components of different voltages and reverse polarity. Color-coded labels for quick voltage identification. Suitable for make or break under load.

Autolatching springs for easy male/female connections.

Quick-Flex ${ }^{\circledR}$ is manufactured from listed MC cable.

## Listings

UL Listed to US and Canadian safety standards.
Caution: This product is not intended for installation in outdoor, damp or humid locations. Please consult with factory for use in any classified areas.

## Factory-Installed Fluorescent Combo

## Quick-Flex

Intended Use
The Reloc ${ }^{\circledR}$ combo option provides the Quick-
Flex ${ }^{\circledR}$ fixture cable pre-wired to a Lithonia fixture at the factory.

Ordering Information Example: 2PM3N G B 332 18LD MVOLT 1/3 GEB QFC277 12/2G11A

The voltage for the QFC must be specified when ordered with a multi-volt ballast fixture. All Quick-Flex ${ }^{\circledR}$ products are voltage specific. The wiring instruction also must be included in the QFC description.
The QFC is prewired to the fixture and is easily snapped into place during the fixture installation.

LITHONIA LIEHTINE

Dust covers are not included with the fluorescent combo option.

If extra dust covers are needed, they must be ordered separately: QUICKFLEX DUST COVER J50.

When ordered as a separate item, the dust covers will come in packs of 50 only. Orders must be entered in multiples of 50 .
Combo Factory Wiring Instructions

| Wiring Instruction <br> Indicator | Wiring Description |
| :---: | :--- |
| A | All normal ballast(s) wired to hot 1. |
| B | All normal ballast(s) wired to hot $2(12 / 3 G$ <br> cable only). <br> AB |
| All normal ballast(s) wired to hot 1 and hot |  |
| $2(12 / 36$ cable only). |  |
| AE | All normal ballast(s) connect to hot $1 ;$ <br> inverter connects to hot $2(12 / 3 G$ cable only $)$. |
| NW | Cable packaged with fixture, not wired. |


www.lithonia.com, keyword: QF

## Intended Use

Provides the interface between hardwiring and the Quick-Flex ${ }^{\circledR}$ system at the homerun location.

Conventional wiring methods bring power from the panel to the homerun location or above.

QC
Quick-Flex ${ }^{\circledR}$ Converter

lightquick'XD
Express delivery products.
See page11 for details about LightQuick XD.
Description
QC120 12/3G M10
QC277 12/3G M10

NOTES:
Three Quick-Flex@ dustcoversare included forevery 10 pieces ordered.

## Intended Use

Male/female cable that provides power from fixture to fixture in the Quick-Flex ${ }^{\circledR}$ system.

## Features

Access plate is preattached (standard) to QFC to provide quick, easy fixture installation. The access plate is not fully engaged to the fixture spring.

Ordering Information
Example: QFC277 12/3G11

|  |  |  |  |
| :---: | :---: | :---: | :---: |
| Family | Voltage | Size and number of cond |  |
| QFC | 120 | 12/2G |  |
|  | 277 |  | one 12AW |
|  | 347 | 12/3 | Three 12 |
|  |  |  | one 12 A |
|  | Voltage Wire | and Posit |  |
| Pin Position \# | Pin Function | 120V | $\begin{gathered} 277 \mathrm{~V} \& \\ 347 \mathrm{~V} \end{gathered}$ |
| 1 | Hot 1 | Black | Brown |
| 2 | N | White | White |
| 3 | G | Green ${ }^{1}$ | Green ${ }^{1}$ |
| 4 | Hot 2 | Red | Orange |

## NOTES:

1 ULListedforauto ground. Use Goption only when required by local codes.
2 Goption is required in Canada.
Three Quick-Flex ${ }^{\oplus}$ dustcoversare included forevery 10 pieces ordered
Dustcovers are notincluded with factory combo option.Seepage 684forcombo wiring and ordering instructions.

Example: QC277 12/3G


Quick-Flex ${ }^{\circledR}$ Fixture Cable

lightquick'XD
Express delivery products.
See page11 for details about LightQuick XD. Description
QFC277 12/3G15 M5
QFC277 12/3G11 M10
QFC277 12/2G15 M5
QFC277 12/2G11 M10
QFC120 12/3G15 M5
QFC120 12/3G11 M10
QFC120 12/2G15 M5
QFC120 12/2G11 M10

Recessed Ceiling Lighting Systems

QE
Quick-Flex ${ }^{\circledR}$ Extender Cable


Ordering Information


| lightquİK* |
| :--- |
| Express delivery products. |
| See page11 for details about LightQuick xD. |
| Description |
| QE277 12/3G15 M5 |
| QE120 12/3G15 M5 |

## QPT

Quick-Flex ${ }^{\circledR}$ Power Tee


| Voltage Wire Color and Position |  |  |  |
| :---: | :---: | :---: | :---: |
| Pin <br> Position \# | Pin <br> Function | 120V |  <br> 347V |
| 1 | Hot 1 | Black | Brown |
| 2 | N | White | White |
| 3 | G | Green $^{1}$ | Green $^{1}$ |
| 4 | Hot 2 | Red | Orange |

## Intended Use

Carries power with the use of the Quick-Flex ${ }^{\otimes}$ extender (QE). Ideal for powering downlighting, under-floor systems, track light feeds, exit signs,
unit equipment and power receptacles. Can be used in place of two existing products, the QuickFlex ${ }^{\oplus}$ splitter (QS) and drop (QD).

Ordering Information


Dimensions are shown in inches (millimeters).
www.lithonia.com, keywords: QE and QPT

Example: QPT277 12/3G01


NOTES:
Topportnotused on standard product. Consultfactoryforintegrated splitteroption.
Three Quick-Flex ${ }^{\oplus}$ dustcoversare included for every 10 pieces ordered.

## Intended Use

Combination of converter (QC) and fixture cable (QFC). Wires directly into homerun junction box,
switch box or junction box above switch location; provides power to first fixture from that location.

Quick-Flex ${ }^{\circledR}$ Starter Fixture Cable


Quick-Flex ${ }^{\oplus}$ Switch Drop

## Intended Use

Located above the primary switch location to interface local switching to the Quick-Flex ${ }^{\circledR}$ system.

Example: QSFC277 12/3G15

|  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Family | Voltage | Size and number of conductors |  | Length | Optional ground lead ${ }^{1,2}$ |  |
| QSFC | 120 | 12/2G | Two 12AWG conductors plus one 12AWG ground | 09 |  | G 18 AWG round lead dropped to |
|  | 277 |  |  | 11 |  |  |
|  | 347 | 12/3G | Three 12AWG conductors plus one 12AWG ground | 13 |  | fixture |
|  |  |  |  | 15 |  |  |


| Voltage Wire Color and Position |  |  |  |
| :---: | :---: | :---: | :---: |
| Pin <br> Position \# | Pin <br> Function | 120V |  <br> 347V |
| 1 | Hot 1 | Black | Brown |
| 2 | N | White | White |
| 3 | G | Green $^{1}$ | Green $^{1}$ |
| 4 | Hot 2 | Red | Orange |

1 UL Listed for auto ground. Use G option only when required by local codes.
2 Goption is required in Canada.
Three Quick-Flex ${ }^{\circledR}$ dust covers are included for every 10 pieces ordered.

Dimensions are shown in inches (millimeters).

Provides local switched power for fixtures and the ability to carry on unswitched power to the next location through the use of a Quick-Flex ${ }^{\circledR}$ extender (QE).


Example: QSD277 2level01

|  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Family | Voltage | Size and number of conductors |  | Length |
| QSD | 120 | 1 level | Two 12 AWG conductors plus 12AWG ground | 01 |
|  | 277 | 2level | Four 12 AWG conductors plus 12AWG ground | 09 |
|  | 347 | 1level/N | Two 12 AWG conductors plus 12AWG ground and 12 AWG neutral |  |

QSD



Dimensions are shown in inches (millimeters).

QSD 1LEVEL Wiring Colors/Positions


Recessed Ceiling Lighting Systems

QS

Quick-Flex ${ }^{\circledR}$ Splitter



| lightquick'XD See page11 for details about Lighterick <br>  |
| :---: |
| Osscripion |
| 0 Q2571 $12 / 36$ M10 |
| OS5120 $12 / 6 \mathrm{~mm} 10$ |

## QD

## Quick-Flex ${ }^{\circledR}$ Drop Cable



| Voltage Wire Color and Position |  |  |  |
| :---: | :---: | :---: | :---: |
| Pin <br> Position \# | Pin <br> Function | 120V |  <br> 347 V |
| 1 | Hot 1 | Black | Brown |
| 2 | N | White | White |
| 3 | G | Green $^{1}$ | Green $^{1}$ |
| 4 | Hot 2 | Red | Orange |

## Intended Use

Provides power to electrical devices, which allows them to become part of the Quick-Flex ${ }^{\circledR}$ system.

Ordering Information Example: QS277 12/3G

|  |  |  |  |
| :---: | :---: | :---: | :---: |
| Family | Voltage | Size and number of conductors |  |
| QS | 120 | 12/3G | Three 12 AWG conductors plus one 12 AWG ground |
|  | 277 |  |  |
|  | 347 |  |  |

Separates the branch circuit into two directions. The QS is a male/female component that can be used anywhere throughout the QuickFlex ${ }^{\circledR}$ system.


Dimensions are shown in inches (millimeters).
Three Quick-Flex® dustcoversare included forevery 10 pieces ordered.

Provides power integration of other electrical devices into the Quick-Flex ${ }^{\oplus}$ system, such as exit signs, unit equipment, downlights, track lights, and power receptacles. Must be used in conjunction with Quick-Flex ${ }^{\circledR}$ splitter (QS).

Ordering Information
Example: QD277 12/3G09

|  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Family | Voltage | Size and number of conductors |  | Length |
| QD | 120 | 12/2G | Two 12 AWG conductors plus | 01 |
|  | 277 |  | one 12 AWG ground | 09 |
|  | 347 | 12/3G | Three 12 AWG conductors plus one 12 AWG ground | 15 |



NOTES:
Three Quick-Flex® dustcoversareincluded forevery 10 pieces ordered.

LITHONIA LIGHTINE:


Based on the results from steps 1-3, establish a bill of materials.
Using the percent factors shown at right, calculate the number of components required. To make the calculations, use the number of fixtures in Step 1 as 100 percent.

Example: Percent factor for QE cables is 15 percent.

$$
17 \times .15=2.5 \text { (round up to } 3 \text { ) }
$$

3 QE extender cables are needed.

Use the percent factors below to calculate the required numbers of Quick-Flex ${ }^{\circledR}$ components.

| Component ${ }^{1}$ | Description | Percent <br> Factor | Quantity to order |
| :---: | :---: | :---: | :---: |
| QFC __ 12/2G09 | Fixture cables to wire the 17 fixtures. | 100\% | 17 |
| QE __ 12/2G09 | Extender cables for extra length where needed. | 15\% | 3 |
| QS ___ 12/3G | Splitter for wiring in more than one direction. ${ }^{2}$ | 3\% | 1 |
| QC__12/3G | Converters to connect Reloc ${ }^{\oplus}$ system to hardwiring ${ }^{3}$ | 12\% | 3 |

NOTES:
1 Mustspecify voltage. Example: OFC 12012/2609.
2 QS available only with 12/3G conductors.
3 QCavailableonly with $12 / 3$ G conductors.
If Quick-Flex ${ }^{\circledR}$ switchdrops (QSD) are required, each switch location must be countedtodeterminetheexactquantity ofQSDs needed. Foreach homerunlocation, one Quick-Flex ${ }^{\circledR}$ convertor (QC) is needed.

# OnePass ${ }^{\circledR}$ 

## Patented OnePass ${ }^{\circledR}$ Circuit Selector



## NOTE:

ThecatalognumberforOnePass ${ }^{\circledR}$ dustcoversis RDC3METALDUSTCOVERJ50.Ifextra dustcovers areneeded, they mustbeordered separatelyand in multiples of50. Dus covers come in packs of 50 only.

The OnePass ${ }^{\circledR}$ circuit selector features a unique thumbslide action that allows you to choose the desired hot conductor(s) to energize each fixture in the field. The OCS and non-selectable OCU permit disconnecting the fixture without disrupting the power downstream.

The OCS enables all fixtures to be wired the same way, with the ability to select the appropriate circuit when the fixture is installed. For future changes, simply unplug the OCS and select a different circuit.

## Intended Use

The OnePass ${ }^{\circledR}$ system offers quick installation of industrial fixtures plus the flexibility to relocate fixtures in the future. Patented components allow both fixtures and wiring to be installed at the same time or in one pass, significantly reducing labor.

## Features

Pin-and-socket contacts.
Rated for use on 20-amp branch circuits.
Safety keying prevents accidental mating of components of different voltages. Color-coded labels for quick voltage identification.

Each conductor and position is properly identified for easy circuit identification throughout
the system.
Circuit selector (OCS) is No. 16AWG rubberized cord with $105^{\circ} \mathrm{C}$ thermoplastic insulation, conductors rated at 600 V . Starter cable, 2 -port (OSC2) and OnePass cable, 2-port (OC2) are 10AWG or 12 AWG , MC cable with $90^{\circ} \mathrm{C}$ thermoplastic insulation and conductors rated at 600 V .

Fixture removal may be accomplished without interrupting the branch circuit wiring.

Component design allows removal without additional components. Suitable for make or break under load.

Replaces conventional cord and plug. Uniquely keyed for industrial/open-ceiling applications.

Housing components are constructed of textured, high-impact, polymeric compound (OCS). Patent No. 5,679,016 (OCS),

All unused parts are required to be covered. The RDC3 is the dust cover for the OnePass ${ }^{\circledR}$ system. If extra dust covers are needed, they can be ordered separately: RDC3 METAL DUST COVER J50.

## Listings

UL Listed to US and Canadian safety standards.
Caution: This product is not intended for installation in outdoor, damp or humid locations. Please consult with factory for use in any classified areas.

## OCS

OnePass ${ }^{\circledR}$ Circuit Selector


| Voltage Wire Color and Position |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  <br> 277V Pin <br> Position \# | Pin <br> Function | Wire <br> Color | 208V, 240V <br> \& 480V Pin <br> Position \# | Pin <br> Function | Wire <br> Color |  |
| 1 | G | Green | 1 | G | Green |  |
| 2 | Hot 1 <br> (Selectable) | $\boldsymbol{\nabla}$ | 2 | Hot 1 <br> (Selectable) | Black |  |
| 3 | Hot 2 <br> (Selectable) | Black | 3 | Hot 2 <br> (Selectable) | White |  |
| 4 | Hot 3 <br> (Selectable) | $\mathbf{\Delta}$ | 4 | Hot 3 <br> (Selectable) | $\boldsymbol{\nabla}$ |  |
| 5 | N | White | 5 | N | NA $^{6}$ |  |

LITHONIA LIGHTING

## Intended Use

A plug-in connection for open ceiling fixtures. Prewired by fixture manufacturer or field installed by contractor.

Example: OCS 27705 WH


Dimensions shown in inches (millimeters).

## Intended Use

Provides the interface between hardwiring and the Reloc ${ }^{\circledR}$ wiring system. A converter and ex-
tender in one component. The OSC2 is wired into the homerun junction box and brings power to the OCS, OCU or OD.

OSC2
OnePass ${ }^{\circledR}$ Starter Cable, 2-Port


| Voltage Wire Color and Position |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Pin <br> Position | Pin <br> Function | 120/347V | 208/240V | 277V | 480V |
| 1 | G | Green | Green | Green | Green |
| 2 | Hot1 | Black | Black | Brown | Brown |
| 3 | Hot2 | Red | Red | Orange | Orange |
| 4 | Hot3 | Blue | Blue | Yellow | Yellow |
| 5 | N | White | Violet | Gray | Violet |

NOTE: Two neutral (2N) products have gray (120V) white (277V) in 4th position. 208V/240V/480V is hot, provided with Hot in 5th position (12/44).

## Intended Use

Provides the interface between hardwiring and the Reloc ${ }^{\circledR}$ wiring system at homerun location.

Example: OC 277 12/4G


## OC

OnePass ${ }^{\circledR}$ Circuit Distributor


| Voltage Wire Color and Position |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Pin <br> Position | Pin <br> Function | $120 / 347 \mathrm{~V}$ | $208 / 240 \mathrm{~V}$ | 277 V | 480 V |
| 1 | G | Green | Green | Green | Green |
| 2 | Hot1 | Black | Black | Brown | Brown |
| 3 | Hot2 | Red | Red | Orange | Orange |
| 4 | Hot3 | Blue | Blue | Yellow | Yellow |
| 5 | N | White | Violet | Gray | Violet |

NOTE: Two neutral (2N) products have gray (120V) white (277V) in 4th position.
208V/240V/480V is hot, provided with Hot in 5th position (12/4G).

## OC2

OnePass ${ }^{\circledR}$ Cable, 2-Port


NOTES:
1 Consultfactoryforvoltages.
Three RDC3 dust covers included withevery 10 ordered pieces.

## OSS

OnePass ${ }^{\circledR}$ Splitter Splice

NOTES:
1 Consultfactoryforvoltages.
2 BSS notavailable in 10AWG.


Example: OC2 277 12/4G 09


A splitter and cable extender in one easy-to-use component. Used to bring power to OCS, OCU or an OD in industrial applications, or to split a circuit into two directions.

## Ordering Information

$\qquad$


|  |  |  |
| :---: | :---: | :---: |
| Cable length (ft.) | Options |  |
| 09 | 2N | Two circuit, two |
| 15 |  | neutral; available |
| 21 |  | only in 12/4G |
| 25 |  | conductors only. |
| 31 |  |  |

12/4G Four No. 12 AWG conductors plus one No. 12 ground
10/2G Two No. 10 AWG conductors plus one No. 10 AWG ground
10/3G Three No. 10 AWG conductors plus one No. 10 ground 10/4G Four No. 10 AWG conductors plus one No. 10 ground


## Intended Use

Splits a branch circuit into two directions. Male/ female component that can be used anywhere in the OnePass ${ }^{\circledR}$ system.

Ordering Information
Example: OSS 277 12/4G

www. lithonia.com, keywords: $\underline{0 C 2}$ and $\underline{O S S}$

## Intended Use

A polarized, non-circuit, selectable plug-in connection for industrial fixtures. Prewired by fixture manufacturer or field installed by contractor.

Ordering Information


## Intended Use

Allows miscellaneous devices (exits, emergency units, etc.) to become part of the OnePass ${ }^{\circledR}$ sys-

Example: OCU 480 TAP12 05 WH


mensionsshownin inches (millimeters).


NOTES:
1 Consultfactoryforvoltages.
2 WhiteSFT cord isstandard.
tem to be field installed by contractor. Also a plug-in connection for industrial fixtures that can be prewired by fixture manufacturer or field installed by contractor.

Example: OD 277 12/2G 15


| Voltage Wire Color and Position |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Pin <br> Position | Pin <br> Function | $120 / 347 \mathrm{~V}$ | $208 / 240 \mathrm{~V}$ | 277 V | 480 V |
| 1 | G | Green | Green | Green | Green |
| 2 | Hot1 | Black | Black | Brown | Brown |
| 3 | Hot2 | Red | Red | Orange | Orange |
| 4 | Hot3 | Blue | Blue | Yellow | Yellow |
| 5 | N | White | Violet | Gray | Violet |

NOTE: Two neutral (2N) products have gray (120V) white (277V) in 4th position. 208V/240V/480V is hot, provided with Hot in 5th position (12/4G).

OnePass® 1-2-3 Bill of Materials Guide

## Step 2

## Determine length of cables.

Measure fixture centers. Cable length should be the length that covers 85 percent of fixtures. Layout example shows all fixtures are on 15-foot centers.

15-foot cables are needed.

## Step 3

Determine number of conductors.
Determined by maximum number of short vertical marks in the layout. Layout example shows three short vertical marks. (See Guide to Number of Conductors below for details).

Use 12/4G conductors.

## Layout Example



Guide to Number of Conductors

Symbol Description
One short vertical mark indicates 12/2G conductors are required.
Two short vertical marks indicate 12/3G conductors are required.

Symbol Description
Three short vertical marks indicate
ITII 12/4G conductors are required.
NOTE:Longvertical mark denotes neutral.

Based on the results from steps $1-3$, establish a bill of materials.

Using the percent factors shown at right, calculate the number of components required. To make the calculations, use the number of fixtures in Step 1 as 100 percent.

Example: Percent factor for OC converters is 13 percent.
$18 \times .13=2.34$ (round up to 3 )
3 OC converters are needed.

Use the percent factors below to calculate the required numbers of OnePass ${ }^{\circledR}$ components.

| Component ${ }^{1}$ | Description | Percent <br> factor | Quantity <br> to order |
| :--- | :--- | :---: | :---: |
| OC2 ___ 12/4G15 | Cables to wire the 18 fixtures. | $100 \%$ | 18 |
| OCS___ ${ }^{2}$ | Circuit selectors to connect the 18 fixtures. | $100 \%$ | 18 |
| OC__12/4G | Converters to connect Reloc system to hardwiring. | $13 \%$ | 3 |

## NOTES:

1 Mustspecifyvoltage.Example:OC227712/4615.
2 Mustspecifylength ofoCSinfeet. Example:OCS 12005 WH.

Reloc ${ }^{\circledR}$ specialty lighting and power products provide maximum flexibility and unique capabilities for full system integration where more complex wiring schemes are required．This includes raised floor and modular convenience power applications such as retail displays，gondolas，kiosks and checkout registers．

By utilizing Reloc ${ }^{\circledR}$ prewired power poles（PP1， PP2 or PP3），distribution boxes（DB）and duplex－ es（DUP），you can configure a system that meets your requirements，installation costs and maxi－ mizes future flexibility．


## Specialty Lighting



## Intended Use

Five-wire system accommodates applications requiring three circuits with a common neutral; or two circuit; two neutral or two circuits, one neutral and an isolated ground.

Features
Rated for use on 20-amp branch circuits. Pin-and-socket contacts.

All conductors are No. 12AWG copper with $90^{\circ} \mathrm{C}$ thermoplastic insulation rated at 600 volts.

Safety keying prevents accidental mating of components of different voltages and reverse polarity.

Color-coded labels for quick voltage identification.
Additional labeling properly denotes type and position of each conductor.

Autolatching springs prevent accidental disengagement.
Caution: This product is not intended for installation in outdoor, damp or humid locations. Please consult with factory for use in any classified areas.

Specialty Lighting System View



## Intended Use

Five-wire system accommodates applications requiring three circuits with a common neutral; or two circuit two neutral; or two circuit, one neutral and an isolated ground.

## Features

Rated for use on 20-amp branch circuits. Pin-andsocket contacts.

All conductors are No. 12 AWG copper with $90^{\circ} \mathrm{C}$ thermoplastic insulation rated at 600 volts.

Safety keying prevents accidental mating of components for different voltages and reverse polarity.
Color-coded labels for quick voltage identification.
All conductors are clearly identified on the product to simplfy the installation.

All components provide a fully rated No. 12 AWG grounding conductor.

Isolated ground conductor option available. Installs through standard 1" trade-size knockout. 6 " of exposed leads, prestripped for easy wiring.
Duplexes supported for new construction and modular cabinets. Single and double duplexes are available.

Standard and clean power (isolated ground) are available with certain components.

Power poles are available in a wide variety of optional finishes.

All unused ports are required to be covered. The RDC3 is the dust cover for the specialty lighting and power system.

If extra dust covers are needed, they are to be ordered separately: RDC3 METAL DUST COVER J50.

## Listings

UL Listed. CSA Certified. Distribution boxes (DB) are UL Listed only.

## Power Wiring



Counter Power System View
NOTE: All unused ports require a dust cover.


Specialty Lighting \& Power Components

# CD 

820 Circuit Distributor



| Voltage Wire Color and Position |  |  |  |
| :---: | :---: | :---: | :---: |
| Pin <br> Position | Pin <br> Function | $120 / 347 \mathrm{~V}$ | 277 V |
| 1 | Hot2 | Red | Brown |
| 2 | Hot1 | Black | Yellow |
| 3 | G | Green | Green |
| 4 | N | White | White |
| 5 | Hot3 | Blue | Orange |

NOTE:Two neutral (2N) products provided with gray (120V) white (277V) in 5th position. Isolated ground wire option (IGW) provided with Yellow/Green (120V only) wire in the 5th position.

## Intended Use

Provides interface between hardwiring and the Reloc ${ }^{\oplus}$ wiring system. Conventional wiring methods bring power from panel to homerun location, where CD is installed.

Ordering Information
Example: CD 120 F CSA

|  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Family | Voltage | Number of conductors | Options |  |
| CD | 120 | D Three | IGW | Isolated ground wire; available with |
|  | 277 | E Four |  | 120 V and conductor only |
|  | 347 | F Five | 2N | Two circuit, two neutral; available with $120 \mathrm{~V}, 277 \mathrm{~V}$ and 347 V ; F conductors |
| NOTES: |  |  |  | only |
| 1 Mustadd CSA |  |  | CSA | CSA Certified |

Threedust covers are included for every 10 pieces ordered.


Dimensions are shown in inches (millimeters).

## SSC

820 Standard Selector Cable


## NOTES:

1 MustaddCSA suffixforcertification.
2 Threedust covers are included for every 10 pieces ordered.

Intended Use
Male/female cable, provides power from fixture to fixture. Attaches to access plate or through $1 / 2$-inch trade-size knockout.

## Ordering Information

## Example: SSC 120 F U 11 CSA ${ }^{1}$

|  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Family | Voltage | Number of conductors | Factory keying | Cable length (ft.) | Options |
| SSC | 120 | D Three | U | 09 | 2N Two circuit, two neutral; |
|  | 277 | E Four |  | 11 | available with F conductor only |
|  | 347 | F Five |  | 13 | G Ground lead with lug terminal |
|  |  |  |  | 15 | (Requiredin Canada) |
|  |  |  |  |  | CSA CSA Certified |



Dimensions are shown in inches (millimeters).

## Intended Use

Male/female cable that provides additional length anywhere throughout the Reloc ${ }^{\circledR}$ system.


Dimensions are shown in inches (millimeters).
1 Mustadd CSA suffix forcertification.
$\qquad$

Intended Use
Introduces local switching to Reloc ${ }^{\circledR}$ systems. Located above primary switch location; provides local switched power and unswitched power to be used as needed.

## Ordering Information

Example: ST 277 D1 P U 08 CSA ${ }^{1}$



Dimensions areshown in inches (millimeters).

820 Switching Tee

Specialty Lighting \& Power Components

## SS

## 820 Splitter Splice



NOTES:
1 MustaddCSA suffixfor certification.

## csu

## 820 Circuit Selector Unit



| Voltage Wire Color and Position |  |  |  |
| :---: | :---: | :---: | :---: |
| Pin <br> Position | Pin <br> Function | $120 / 347 \mathrm{~V}$ | 277 V |
| 1 | Hot2 | Red | Brown |
| 2 | Hot1 | Black | Yellow |
| 3 | G | Green | Green |
| 4 | N | White | White |
| 5 | Hot3 | Blue | Orange |

NOTE:Two neutral (2N) products provided with gray (120V) white (277V) in 5th position. Isolated ground wire option (IGW) provided with Yellow/Green (120V only) wire in the 5th position.

NOTES:
1 MustaddCSA suffixfor certification.
LITHONIA LIGHTINE

Intended Use
Used to split branch circuit into two directions in commercial or power applications.

Ordering Information
Example: SS 277 F U CSA ${ }^{1}$


Dimensions are shownininches (millimeters).


## Intended Use

Provides wiring of any device through 1/2" trade-size knockout. CSU uses No. 12 AWG leads, allowing full circuit access.

Ordering Information
Example: CSU 120 F U CSA ${ }^{1}$




2N Two circuit, two neutral; available with 120,277 and 247V; F conductor only.
CSA CSA Certified


PSG9

## Intended Use

A through-wired component that makes it possible to select which branch circuit
conductor feeds a specific device. Also provides power to devices used on convenience power, access floor systems and commercial lighting.

820 Power Tee


| Voltage Wire Color and Position |  |  |  |
| :---: | :---: | :---: | :---: |
| Pin <br> Position | Pin <br> Function | $120 / 347 \mathrm{~V}$ | 277 V |
| 1 | Hot2 | Red | Brown |
| 2 | Hot1 | Black | Yellow |
| 3 | G | Green | Green |
| 4 | N | White | White |
| 5 | Hot3 | Blue | Orange |

NOTE:Two neutral (2N) products provided with gray (120V) white (277V) in 5th position. Isolated ground wire option (IGW) provided with Yellow/Green (120V only) wire in the 5th position.

NOTES:
1 Mustadd CSA suffixforcertification.

## Intended Use

Provides integration of other electrical devices into the 820 system, such as power outlets and power strips (see above).

Ordering Information


Example: PT 120 F1 A 03 CSA

convey wiring.


DC
820 Drop Cable


| Voltage Wire Color and Position |  |  |  |
| :---: | :---: | :---: | :---: |
| Pin <br> Position | Pin <br> Function | $120 / 347 \mathrm{~V}$ | 277 V |
| 1 | Hot2 | Red | Brown |
| 2 | Hot1 | Black | Yellow |
| 3 | G | Green | Green |
| 4 | N | White | White |
| 5 | Hot3 | Blue | Orange |

NOTE:Two neutral ( 2 N ) products provided with gray (120V) white (277V) in 5th position. Isolated ground wire option (IGW) provided with Yellow/Green (120V only) wire in the 5th position.

## NOTES:

1 Mustadd CSA suffixforcertification.

DB


Ordering Information




The distribution box (DB) can be used as the interface between the Reloc ${ }^{\circledR}$ wiring system and hardwiring. The DB can be used to distribute power to power tracks, wall units, gondola lamps and other lighting displays. From the DB, circuits can be fed in different directions.
$\qquad$
Example: DB 120 F 4CD/1DC 01


| Box Dimensions |  |  |  |
| :---: | :---: | :---: | :---: |
| \# of Outgoing <br> Power Ports | Width of <br> Box | Length of <br> Box | Height of <br> Box |
| $1-6$ | $6^{\prime \prime}$ | $6^{\prime \prime}$ | $3^{\prime \prime}$ |
| $7-8$ | $6^{\prime \prime}$ | $8^{\prime \prime}$ | $4^{\prime \prime}$ |
| $9-14^{*}$ | $14^{\prime \prime}$ | $16^{\prime \prime}$ | $4.5^{\prime \prime}$ |

## Duplex Receptacle

## DUP



## Intended Use

The DUP is a prewired power receptacle outlet box that integrates with a Reloc ${ }^{\circledR}$ system. The DUP can be used to manage phase loading on power receptacle applications. Pre-order the appropriate number of receptacles for each circuit prewired from the factory.

Ordering Information


|  |  |
| :--- | :--- |
| Interface component |  |
| PT | Power tee |
| DC | Drop cable |


|  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Number of conductors | Hot receptacle position | Type of drop | Cable length (ft.) | Options |
|  |  | A Armoured | 01 | IGW Isolated ground wire; |
| D Two | 1 One |  | 05 | with E and F |
| E Three | 2 Two |  |  | conductors only |
| F Four | 3 Three |  |  | (Addonly ifrequired.) |



Dimensions are shown ininches (millimeters).

LITHONIA LIGHTING'

## Intended Use

A convenient and economical means to provide power, data and/or telecommunications cables to a workstation. The Lithonia PP2 is designed to be used in areas where traditional wiring methods would prove to be difficult, costly and unsightly.

## Features

"I" beam construction for strength and rigidity. IBEW labeled.

All installation hardware supplied.
Rated for use on 20 amp branch circuits.
Receptacle options of NEMA configuration duplex receptacles standard.
Two channel - isolates power and communications wiring.

Circuit conductors are solid No. 12 AWG copper with 600 volt $90^{\circ} \mathrm{C}$ thermo-plastic insulation.
Available with a wide variety of electrical, data and telecommunications options.
Wire leads extend to top of pole where connections are made above the ceiling.

Available in a wide variety of optional finishes. Anchors to carpet or tile floor coverings.
$1 / 2$ " inch knockouts in end caps for easy installation.
Communications compartment supplied with protective bushing and easily removable cover.

## Listings

UL Listed.


## NOTES:

1 Power pole lengths are shown in inches.
2 Receptacle and plate colors will match pole color except for brushaluminum, which will come with a gray receptacle and plate
3 30A208v is singlereceptacle.
4 Inches from bottom ofthe pole to the center oftheduplex or receptacle.

## National Electric Codes Articles as They Apply to Modular Wiring

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## ARTICLE 604 Manufactured Wiring Systems

 604.1 Scope.The provisions of this article apply to field-installed wiring using off-site manufactured subassemblies for branch circuits, remote-control circuits, signaling circuits, and communications circuits in accessible areas.

### 604.2 Definition.

Manufactured Wiring System. A system containing component parts that are assembled in the process of manufacture and cannot be inspected at the building site without damage or destruction to the assembly.

### 604.3 Other Articles.

Except as modified by the requirements of this article, all other applicable articles of this Code shall apply.

### 604.4 Uses Permitted.

Manufactured wiring systems shall be permitted in accessible and dry locations and in ducts, plenums, and other air-handling spaces where listed for this application and installed in accordance with 300.22 .

Exception No. 1: In concealed spaces, one end of tapped cable shall be permitted to extend into hollow walls for direct termination at switch and outlet points.

Exception No. 2: Manufactured wiring system assemblies installed outdoors shall be listed for use in outdoor locations.

### 604.5 Uses Not Permitted.

Manufactured wiring system types shall not be permitted where limited by the applicable article in Chapter 3 for the wiring method used in its construction.

### 604.6 Construction.

(A) Cable or Conduit Types.
(1) Cables. Cable shall be listed Type AC cable or listed Type MC cable containing nominal 600-volt,8 to 12 AWG insulated copper conductors with a bare or insulated copper equipment grounding conductor equivalent in size to the ungrounded conductor.

Other cables as listed in $725.61,800.113,820.113$, and 830.179 shall be permitted in manufactured wiring systems for wiring of equipment within the scope of their respective articles.
(2) Conduits. Conduit shall be listed flexible metal conduit or listed liquidtight flexible conduit containing nominal 600 -volt, 8 to 12 AWG insulated copper conductors with a bare or insulated copper equipment grounding conductor equivalent in size to the ungrounded conductor.

Exception No. 1 to (1) and (2):A luminaire (fixture) tap, no longer than $1.8 \mathrm{~m}(6 \mathrm{ft})$ and intended for connection to a single luminaire (fixture), shall be permitted to contain conductors smaller than 12 AWG but not smaller than 18 AWG.

Exception No. 2 to (1) and (2): Listed manufactured wiring assemblies containing conductors smaller than 12 AWG shall be permitted for remote-control, signaling, or
communication circuits.
(3) Flexible Cord. Flexible cord suitable for hard usage, with minimum 12 AWG conductors, shall be permitted as part of a listed factory-made assembly not exceeding 1.8 $\mathrm{m}(6 \mathrm{ft})$ in length when making a transition between components of a manufactured wiring system and utilization equipment, other than luminaires (fixtures), not permanently secured to the building structure. The cord shall be visible for its entire length and shall not be subject to strain or physical damage.
(B) Marking. Each section shall be marked to identify the type of cable, flexible cord, or conduit.
(C) Receptacles and Connectors. Receptacles and connectors shall be of the locking type, uniquely polarized and identified for the purpose, and shall be part of a listed assembly for the appropriate system.
(D) Other Component Parts. Other component parts shall be listed for the appropriate system.
(E) Securing and Supporting. Manufactured wiring systems shall be secured and supported in accordance with the applicable cable or conduit article for the cable or conduittype employed.
(F) Luminaires (Fixtures). Installation of listed electricdischarge luminaires (fixtures) complying with 410.30 (C) shall be permitted.

### 604.7 Unused Outlets.

All unused outlets shall be capped to effectively close the connector openings.

### 300.11 Securing and Supporting.

(A) Secured in Place. Raceways, cable assemblies, boxes, cabinets, and fittings shall be securely fastened in place. Support wires that do not provide secure support shall not be permitted as the sol support. Support wires and associated fittings that provide secure support and that are installed in addition to the ceiling grid support wires shall be permitted as the sole support. Where independent support wires are used, they shall be secured at both ends. Cables and raceways shall not be supported by ceiling grids.
(1) Fire-Rated Assemblies. Wiring located within the cavity of fire-rated floor-ceiling or roof-ceiling assembly shall not be secured to,or supported by, the ceiling assembly, including the ceiling supportwires. An independent means of secure support shall be provided and shall be permitted to be attached to the assembly. Where independent support wires are used, they shall be distinguishable by color, tagging, or other effective means from those that are part of the fire-rated design. Exception: The ceiling support system shall be permitted to supportwiring and equipment that have been tested as part of the fire-rated assembly.
FPN: One method of determining fire rating is testing in accordance with NFPA 251-1999,Standard Methods of Tests of Fire Endurance of Building Construction and Materials.
(2) Non-Fire-Rated Assemblies. Wiring located within the cavity of a non-fire-rated floor-ceiling or roof-ceiling assembly shall not be secured to, or supported by, the ceiling assembly, including the ceiling support wires. An independent means of secure support shall be provided.
Exception: The ceiling support system shall be permitted
to support branch-circuit wiring and associated equipment where installed in accordance with the ceiling system manufacturer's instructions.
(B) Raceways Used as Means of Support. Raceways shall be used only as a means of support for other raceways, cables, or nonelectric equipment under any of the following conditions:
(1) Where the raceway or means of support is identified for the purpose
(2) Where the raceway contains power supply conductors for electrically controlled equipment and is used to support Class 2 circuit conductors or cables that are solely for the purpose of connection to the equipment control circuits
(3) Where the raceway is used to support boxes or conduit bodies in accordance with 314.23 or to support luminaires (fixtures) in accordance with 410.16(F)
(C) Cables Not Used as Means of Support. Cable wiring methods shall not be used as a means of support for other cables, raceways, or nonelectrical equipment.

### 300.22 Wiring in Ducts, Plenums and Other AirHandling Spaces.

The provisions of this section apply to the installation and uses of electric wiring and equipment in ducts, plenums, and other air-handling spaces.

## (A) Ducts for Dust, Loose Stock, or Vapor Removal.

No wiring systems of any type shall be installed in ducts used to transport dust, loosestock, or flammable vapors. No wiring system of any type shall be installed in
any duct, or shaft containing only such ducts, used for vapor removal or for ventilation of commercial-type cooking equipment.
(B) Ducts or Plenums Used for Environmental Air. Only wiring methods consisting of Type MI cable,Type MC cable employing a smooth or corrugated impervious metal sheath without an overall nonmetallic covering, electrical metallic tubing, flexible metallic tubing, intermediate metal conduit, or rigid metal conduitwithout an overall nonmetallic covering shall be installed in ducts or plenums specifically fabricated to transport environmental air. Flexible metal conduit shall be permitted, in lengths not to exceed 1.2 m (4ft), to connect physically adjustable equipment and devices permitted to be in these ducts and plenum chambers. The connectors used with flexible metal conduitshall effectively close any openings in the connection. Equipment and devices shall be permitted within such ducts or plenum chambers only ifnecessary for theirdirect action upon, or sensing of, the contained air.Where equipment or devices are installed and illumination is necessary to facilitate maintenance and repair,enclosed gasketed-type luminaires (fixtures) shall be permitted.
(C) Other Space Used for Environmental Air.This section applies to space used for environmental airhandling purposes other than ducts and plenums as specified in 300.22 (A) and (B). It does not include habitable rooms or areas of buildings, the prime purpose of which is notair handling.

Exception: This section shall not apply to the joist or stud spaces of dwelling units where the wiring passes through such spaces perpendicular to the long dimension of such spaces.

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