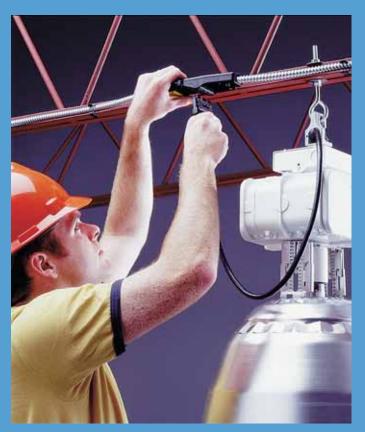
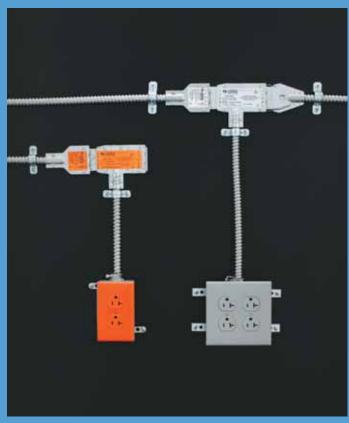
LITHONIA LIGHTING®



Reloc® Wiring Systems

The leader in modular wiring for more than 20 years, Reloc® wiring systems offer unique wiring systems for commercial, industrial and specialty applications that are fast, easy and effective.

In today's fast-track market, every job demands wiring solutions that reduce installation time and adapt to changes that occur both during and after construction. Reloc® systems give you the edge you need to stay on schedule and on budget.





LITHONIA RELOC WIRING SYSTEMS

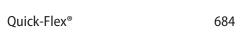
683

CONTENTS









Recessed Ceiling Lighting Systems





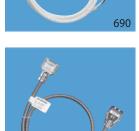


Open Ceiling Lighting Systems









OnePass® 690











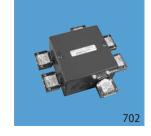






Specialty Lighting and Power Systems

Power Wiring 695 **Specialty Lighting** 695 Power Pole 703







Quick-Flex®



Intended Use

The Quick-Flex® system costs less than other wiring methods for commercial lighting in offices, schools and other accessible ceiling applications. Quick-Flex® 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 20-amp branch circuits.

All conductors are No. 12 AWG copper with 90°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°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® 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



Intended Use

The Reloc® combo option provides the Quick-Flex® fixture cable pre-wired to a Lithonia fixture at the factory.

Ordering Information

Example: 2PM3N G B 3 32 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® 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.

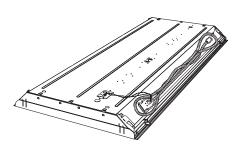
Dust covers are not included with the fluorescent combo option.

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 Indicator	Wiring Description
Α	All normal ballast(s) wired to hot 1.
В	All normal ballast(s) wired to hot 2 (12/3G
	cable only).
AB	All normal ballast(s) wired to hot 1 and hot 2 (12/3G cable only).
AE	All normal ballast(s) connect to hot 1; EL inverter connects to hot 2 (12/3G cable only).
NW	Cable packaged with fixture, not wired.



www.lithonia.com, keyword: QF

Provides the interface between hardwiring and the Quick-Flex® system at the homerun location. Conventional wiring methods bring power from the panel to the homerun location or above.

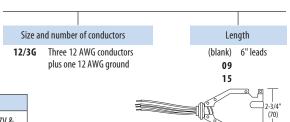
Quick-Flex® Converter

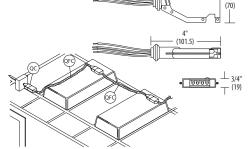
Ordering Information

Family	Voltage
QC	120
	277
	347

	Voltage Wire Color and Position				
Pin Position#	Pin Function	120V	277V & 347V		
1	Hot 1	Black	Brown		
2	N	White	White		
3	G	Green ¹	Green ¹		
4	Hot 2	Red	Orange		

Example: QC277 12/3G





Dimensions are shown in inches (millimeters).





NOTES:

Family

QFC

Three Quick-Flex® dust covers are included for every 10 pieces ordered.

Intended Use

Size and number of conductors

12/3G

one 12AWG ground

one 12 AWG ground

Two 12 AWG conductors plus

Three 12 AWG conductors plus

Male/female cable that provides power from fixture to fixture in the Quick-Flex® 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.

Length

07 7" leads

09 9" leads

11 11" leads

Example: QFC277 12/3G11

Optional ground lead 1,2

18 AWG

round lead

dropped to

Ordering Information

Voltage

120

277

347

	Voltage Wire Co	lor and Position	
Pin Position #	Pin Function	120V	277V & 347V
1	Hot 1	Black	Brown
2	N	White	White
3	G	Green ¹	Green ¹

4 Hot 2 Red Orange

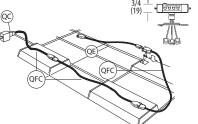
NOTES:

- 1 UL Listed for auto ground. Use Goption only when required by local codes.
- 2 Goption is required in Canada.

Three Quick-Flex® dust covers are included for every 10 pieces ordered.

Dust covers are not included with factory combo option. See page 684 for combowiring and ordering instructions.

fixture **13** 13" leads 15 15" leads



Dimensions are shown in inches (millimeters).

www.lithonia.com, keywords: QC and QFC

Quick-Flex® Fixture Cable







LITHONIA RELOC WIRING SYSTEMS

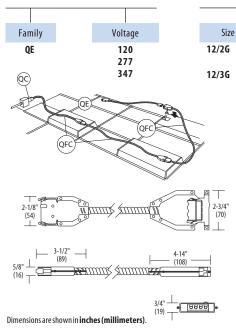
Quick-Flex® Extender Cable



Intended Use

Male/female cable that provides additional length anywhere in the Quick-Flex® system.

Ordering Information



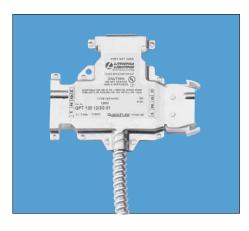
Example: QE277 12/3G15

Si	ze and number of conductors	Leng
12/20	Two 12 AWG conductors plus one 12AWG ground	05 09
12/30		11
	one 12 AWG ground	15
		21
_		
- */		
,	NOTES:	

 $Three\,Quick-Flex @\,dust\,covers\,are\,included\,for\,every\,10\,pieces\,ordered.$



Quick-Flex® Power Tee



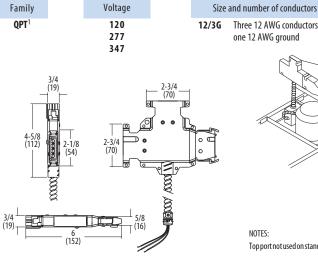
Voltage Wire Color and Position			
Pin Position #	Pin Function	120V	277V & 347V
1	Hot 1	Black	Brown
2	N	White	White
3	G	Green ¹	Green ¹
4	Hot 2	Red	Orange

Intended Use

Carries power with the use of the Ouick-Flex® 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 Quick-Flex® splitter (QS) and drop (QD).

Ordering Information

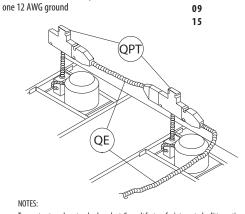


Dimensions are shown in inches (millimeters).

Example: **QPT277** 12/3G01

Length

01



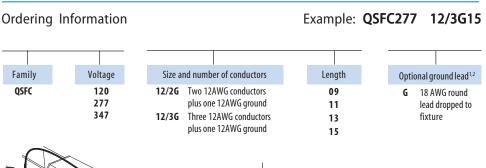
Three 12 AWG conductors plus

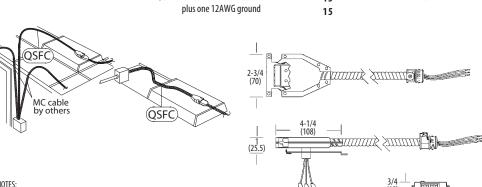
Top port not used on standard product. Consult factory for integrated splitter option.

 $Three\,Quick-Flex @\,dust\,covers\,are\,included\,for\,every\,10\,pieces\,ordered.$

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® Starter Fixture Cable





Voltage Wire Color and Position			
Pin Position #	Pin Function	120V	277V & 347V
1	Hot 1	Black	Brown
2	N	White	White
3	G	Green ¹	Green ¹
4	Hot 2	Red	Orange

NOTES:

- 1 UL Listed for auto ground. Use G option only when required by local codes
- 2 Goption is required in Canada.

 $Three\ Quick-Flex @\ dust\ covers\ are\ included\ for\ every\ 10\ pieces\ ordered.$

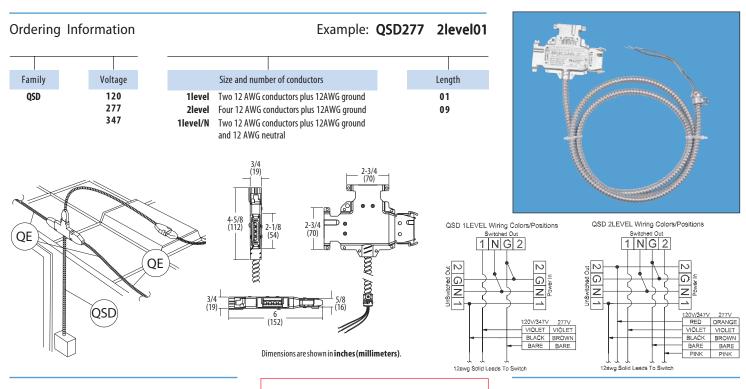
Intended Use

Located above the primary switch location to interface local switching to the Quick-Flex® system.

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® extender (QE).

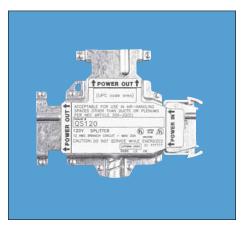
Dimensions are shown in inches (millimeters).

Quick-Flex® Switch Drop



QS

Quick-Flex® Splitter

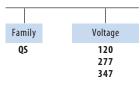




Intended Use

Separates the branch circuit into two directions. The QS is a male/female component that can be used anywhere throughout the Quick-Flex® system.

Ordering Information



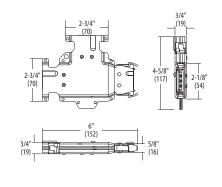
Size and number of conductors

12/36 Three 12 AWG conductors plus one 12 AWG ground

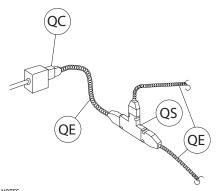
12/2G

12/3G

12 AWG ground



 $Dimensions\ are\ shown\ in\ inches\ \mbox{\bf (millimeters)}.$



Example: **QS277 12/3G**

NOTES:

Three Quick-Flex® dust covers are included for every 10 pieces ordered.

QD

Quick-Flex® Drop Cable



Voltage Wire Color and Position			
Pin Position #	Pin Function	120V	277V & 347V
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® system.

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

Ordering Information

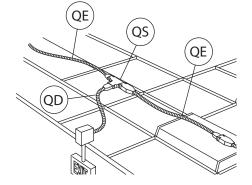
Ordering Informa	ition
Family	Volta
QD	12 27 34

2-1/8"
5/8" — (89) — (16) — (10) — (1
5/8"

Dimensions are shown in inches (millimeters).

Size and number of conductors Two 12 AWG conductors plus one 12 AWG ground Three 12 AWG conductors plus one 15

Example: QD277 12/3G09



NOTES:
Three Quick-Flex® dust covers are included for every 10 pieces ordered.



www.lithonia.com, keywords: QS and QD

Step 1

Count the number of fixtures.

Layout example (see below) shows 11 type A fixtures, two type A1 fixtures and two type B fixtures.

17 fixtures to wire.

Step 2

Determine length of cables.

Measure fixture centers. Cable length should be the length that covers 85 percent of fixtures, plus one foot. Layout example shows all fixtures are on 8-foot centers.

9-foot cables are needed.

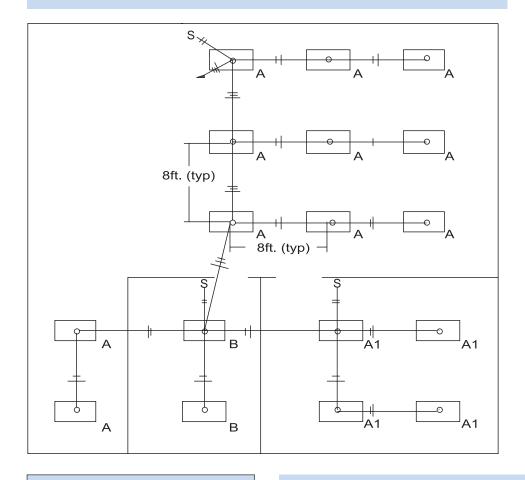
Step 3

Determine number of conductors.

(Determined by number of switches in a room). Layout example shows all rooms have single-level switching (See Guide to Conductors below for details).

Use 12/2G conductors.

Layout Example



Guide to Conductors

Symbol	Description
S	Single-pole switch; requires 12/2G conductors.
SS	Two single-pole switches; requires 12/3G conductors.
S	Single-pole switch with emergency/night-light; requires 12/3G conductors.

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.

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

3 QE extender cables are needed.

Use the percent factors below to calculate the required numbers of Quick-Flex® components.

Component ¹	Description	Percent 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
QC12/3G	Converters to connect Reloc® system to hardwiring³	12%	3

NOTES:

- 1 Must specify voltage. Example: QFC 120 12/2G09.
- 2 QS available only with 12/3G conductors.
- 3 QC available only with 12/3G conductors.

If Quick-Flex® switchdrops (QSD) are required, each switch location must be counted to determine the exact quantity of QSDs needed. For each homerun location, one Quick-Flex® convertor (QC) is needed.



OnePass®

Patented OnePass® Circuit Selector



NOTE:

The catalog number for One Pass® dust covers is RDC3 METAL DUST COVER J50. If extra dust covers are needed, they must be ordered separately and in multiples of 50. Dust covers come in packs of 50 only.

The OnePass® 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® 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°C thermoplastic insulation, conductors rated at 600V. Starter cable, 2-port (OSC2) and OnePass cable, 2-port (OC2) are 10AWG or 12AWG, MC cable with 90°C thermoplastic insulation and conductors rated at 600V.

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® 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® Circuit Selector



Voltage Wire Color and Position							
120V & 277V Pin Position #	Pin Function	Wire Color	208V, 240V & 480V Pin Position #	Pin Function	Wire Color		
1	G	Green	1	G	Green		
2	Hot 1 (Selectable)	•	2	Hot 1 (Selectable)	Black		
3	Hot 2 (Selectable)	Black	3	Hot 2 (Selectable)	White		
4	Hot 3 (Selectable)	A	4	Hot 3 (Selectable)	▼		
5	N	White	5	N	NA ⁶		

▲ and ▼ denote switch movement

🖊 LITHONIA LIGHTING'

Intended Use

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

Ordering Information

Family	Voltage
ocs	120 ¹ 277 ¹ 347 208 ^{23,4} 240 ^{23,4} 480 ^{23,4}
NOTES:	2-1/4 (57) 3-3/64 (77)

- 1 120 and 277V 2 circuit 2 neutral applications require the OCU to pick up the second Hot and Neutral.
- 2 For 2-circuit 480, 240 and 208V applications, the OCU is required to pick up the 2nd circuit.
- 3 480, 240 and 208V OCS has 2 selector switches. This allows the selectability to operate the fixture on any combination of phase circuit A, B or C.
- 4 Consult factory for voltages.
- 5 White 5ft. cord is standard
- 6 No wire in 5th position.

Example: OCS 277 05 WH

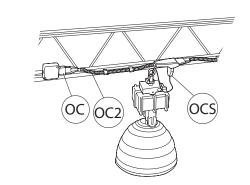
wн

BK

Cord color

White cord

Black cord



Dimensions shown in **inches (millimeters)**.

Cable length (ft.)

05

10

15 20

www.lithonia.com, keyword: OCS

Provides the interface between hardwiring and the Reloc® 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® Starter Cable, 2-Port

Ordering Information

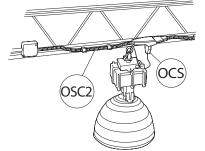
Family	Voltage		Number of conductors
OSC2	120 277	12/2G	Two No. 12 AWG conductors plus one No. 12 AWG ground
	347 208 ¹	12/3G	Three No. 12 AWG conductors plus one No. 12 ground
	240 ¹ 480 ¹	12/4G	Four No. 12 AWG conductors plus one No. 12 ground
		10/2G	Two No. 10 AWG conductors plus one No. 10 AWG ground
		10/3G	Three No. 10 AWG conductors plus one No. 10 ground
		10/4G	Four No. 10 AWG conductors plus one No. 10 ground
			=

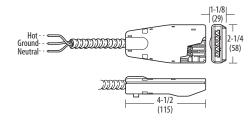
	Cable length (ft.)	Options
rs d ors	09 15 21 25 31	2N Two circuit, two neutral; available only in 12/4G conductors only.
's d	NOTES:	

Example: OSC2 277 12/4G 09

1 Consult factory for voltages.

 $Three\,RDC3\,dust\,covers\,included\,with\,every\,10\,ordered\,pieces.$





Dimensions are shown in inches (millimeters).



Voltage Wire Color and Position							
Pin Position	Pin Function	120/347V	208/240V	277V	480V		
1	G	Green Green		Green	Green		
2	Hot1	Black	Black Black Brown		Brown		
3	Hot2	2 Red Red		Orange	Orange		
4	Hot3	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).

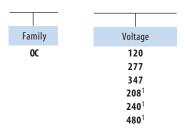
Intended Use

Provides the interface between hardwiring and the Reloc® wiring system at homerun location.

OC

OnePass® Circuit Distributor

Ordering Information



Number of conductors

12/46 Four No. 12 AWG conductors plus one No. 12 ground

Options

2 N Two circuit, two neutral; available only in 12/4G conductors only.

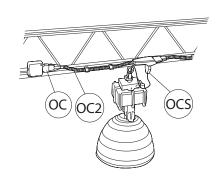
Example: OC 277 12/4G

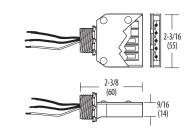
NOTES:

1 Consult factory for voltages.

Three RDC3 dust covers included with every 10 ordered pieces.

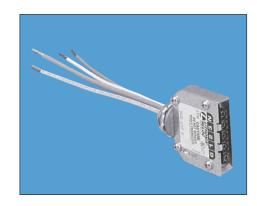
Not available in 10 AWG.





Dimensions are shown in inches (millimeters).

www.lithonia.com, keywords: OSC2 and OC



Voltage Wire Color and Position							
Pin Position	Pin 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 (12/4G).



OC2

OnePass® Cable, 2-Port



cuit into two directions. Ordering Information

Intended Use A splitter and cable extender in one easy-to-use component. Used to bring power to OCS, OCU or

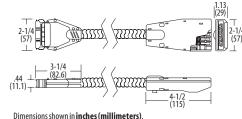
an OD in industrial applications, or to split a cir-

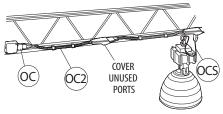
amily	Voltage		Number of conductors	Cable length (ft.)
0C2	120 277 347 208 ¹ 240 ¹ 480 ¹	12/2G 12/3G 12/4G 10/2G 10/3G 10/4G	Two No. 12 AWG conductors plus one No. 12 AWG ground Three No. 12 AWG conductors plus one No. 12 ground Four No. 12 AWG conductors plus one No. 10 AWG conductors plus one No. 10 AWG ground Two No. 10 AWG ground Three No. 10 AWG conductors plus one No. 10 ground Four No. 10 AWG conductors plus one No. 10 ground Four No. 10 AWG conductors plus one No. 10 ground	09 15 21 25 31

NOTES:

1 Consult factory for voltages.

 $Three\,RDC3\,dust covers included\,with\,every\,10\,ordered\,pieces.$





Example: OC2 277 12/4G 09

Options

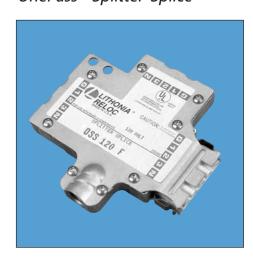
Two circuit, two

conductors only.

neutral; available only in 12/4G

OSS

OnePass® Splitter Splice



Splits a branch circuit into two directions. Male/ female component that can be used anywhere in the OnePass® system.

Intended Use

Ordering Information

Family	Voltage
OSS ¹	120 277 347 208 ² 240
	480 ²
OSS	

Number of conductors	
12/2G	
12/3G	
12/4G	

Example: **OSS 277 12/4G**

NOTES:

- Consult factory for voltages.
- 2 BSS not available in 10AWG.

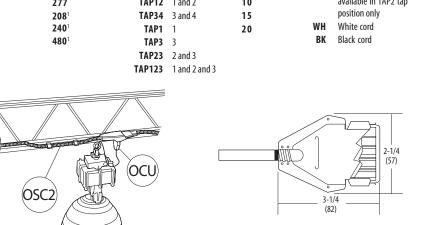


A polarized, non-circuit, selectable plug-in connection for industrial fixtures. Prewired by fixture manufacturer or field installed by contractor.

OnePass® Cord Unselectable

Ordering Information

Family	Voltage	Tap fro	m position	Cord length (ft.)		Options
ОСИ	120 277 208 ¹ 240 ¹ 480 ¹	TAP12 TAP34 TAP1 TAP3	2 1 and 2 3 and 4 1 3 2 and 3 1 and 2 and 3	05 10 15 20	2 N WH BK	Two circuit, two neutral; available in TAP2 tap position only White cord Black cord
	// \\					



NOTES:

- 1 Consult factory for voltages.
- 2 White SFT cord is standard.

Intended Use

Allows miscellaneous devices (exits, emergency units, etc.) to become part of the OnePass® sys-

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**

Dimensions shown in inches (millimeters).

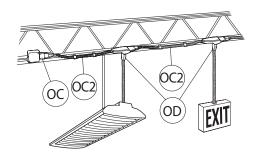
Example: OCU 480 TAP12 05 WH

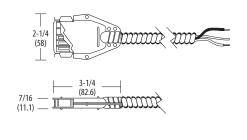
OnePass® Drop Cable

Ordering Information

Family	Voltage		Number of conductors	Cable length (ft.)		Options
OD	120 277 208 ¹ 240 ¹ 480 ¹	12/2G 12/3G 12/4G	Two No. 12 AWG conductors plus one No. 12 AWG ground Three No. 12 AWG conductors plus one No. 12 ground Four No. 12 AWG conductors plus one No. 12 ground	05 10 15 20	2 N	Two circuit, two neutral; available in 12/4G conductors only.

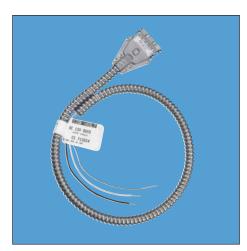
1 Consult factory for voltages.





Dimensions are shown in inches (millimeters).

www.lithonia.com, keywords: OCU and OD



Voltage Wire Color and Position							
Pin Position	Pin 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 (12/4G).



Step 1

Count the number of fixtures.

Layout example (see below) shows 18 type H fixtures.

17 fixtures to wire.

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.

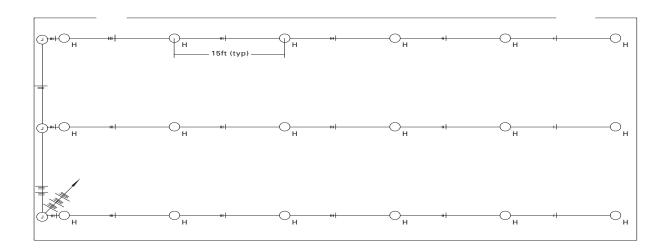
Step 3

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 | Desi | One | 12/2 | Two | 12/3

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 12/4G conductors are required.

NOTE: Long vertical 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® components.

			to order
OC2 12/4G15	ables to wire the 18 fixtures.	100%	18
OCS 2 Cir	rcuit selectors to connect the 18 fixtures.	100%	18
OC 12/4G	onverters to connect Reloc system to hardwiring.	13%	3

NOTES:

- 1 Must specify voltage. Example: OC2 277 12/4G 15.
- $2 \quad \text{Must specify length of OCS in feet. Example: OCS 120} \, \textbf{05} \, \text{WH}.$



Reloc® 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.







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. Pinand-socket contacts.

All conductors are No. 12AWG copper with 90°C thermoplastic insulation rated at 600 volts.

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

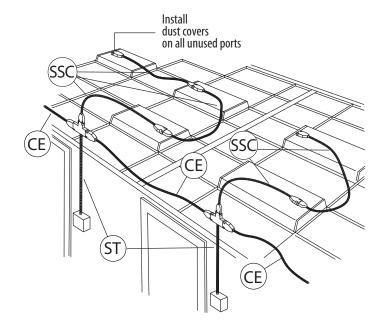
Color-coded labels for quick voltage identification.

Additional labeling properly denotes type and position of each conductor.

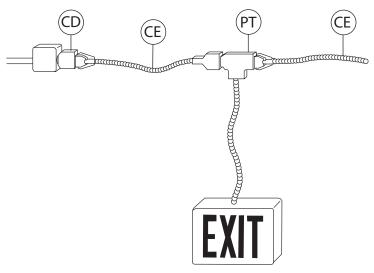
Autolatching springs prevent accidental disengagement.

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



Reloc® 820 Power Tee



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-and-socket contacts.

All conductors are No. 12 AWG copper with 90°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

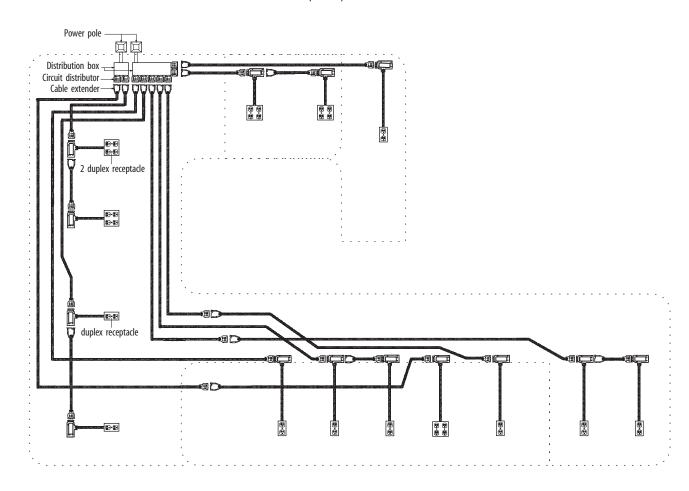
UL Listed. CSA Certified. Distribution boxes (DB) are UL Listed only.

Power Wiring



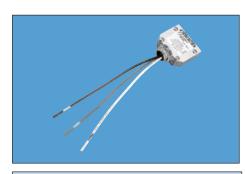
Counter Power System View

NOTE: All unused ports require a dust cover.



Specialty Lighting & Power Components

820 Circuit Distributor



Voltage Wire Color and Position				
Pin Position	Pin Function	120/347V	277V	
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

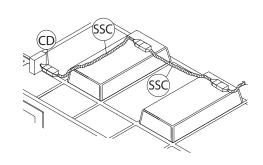
Provides interface between hardwiring and the Reloc® wiring system. Conventional wiring methods bring power from panel to homerun location, where CD is installed.

Ordering Information

Family	Voltage	Number of conductors
Ф	120 277 347	D Three E Four F Five
NOTES:		

 $1 \quad Must add \, CSA \, suffix for certification.$

Three dust covers are included for every 10 pieces ordered.



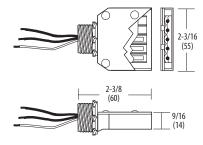
only

CSA Certified

Example: CD 120 F CSA¹

Options Isolated ground wire; available with 120V and conductor only

Two circuit, two neutral; available with 120V, 277V and 347V; F conductors



Dimensions are shown in inches (millimeters).

SSC

820 Standard Selector Cable

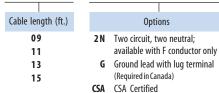
Intended Use

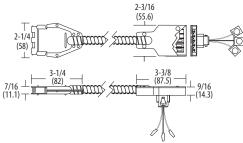
Male/female cable, provides power from fixture to fixture. Attaches to access plate or through 1/2-inch trade-size knockout.

Ordering Information

Family	Voltage	Number of conductors	Factory keying
SSC	120 277 347	D ThreeE FourF Five	U

Example: SSC 120 F U 11 CSA¹





Dimensions are shown in inches (millimeters)

- 1 Must add CSA suffix for certification.
- 2 Three dust covers are included for every 10 pieces ordered.

/ LITHONIA LIGHTING®

www.lithonia.com, keywords: CD and SSC

Male/female cable that provides additional length anywhere throughout the Reloc® system.

820 Cable Extender

Ordering Information

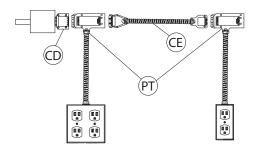
Family	Voltage	Number of conductors
Œ	120 277	D Three E Four
	2.47	F Five

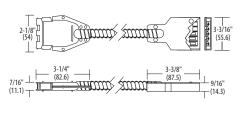
Factory keying

Example: CE 277 F U 11 2N CSA¹

g	Cable length (ft.)	Options
	09 11 15 21 25	Isolated ground wire; available only with 120V and F conductor Two circuit, two neutral; available with 120, 277 and 347V; F conductor only CSA Certified







Dimensions are shown in inches (millimeters).

1 Must add CSA suffix for certification.

Three dust covers are included for every 10 pieces ordered.

Intended Use

Introduces local switching to Reloc® systems. Located above primary switch location; provides local switched power and unswitched power to be used as needed.

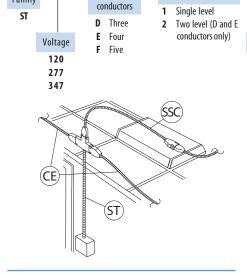
Number of

Switching function

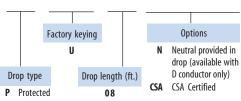
820 Switching Tee

Ordering Information

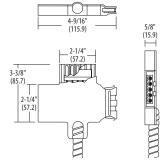
Family



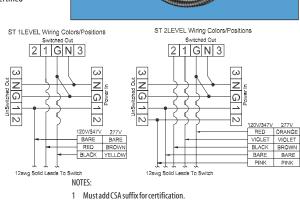
Example: ST 277 D1 P U 08 CSA1











🔼 LITHONIA LIGHTING

Specialty Lighting & Power Components

SS

820 Splitter Splice



Intended Use

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

Ordering Information

Family
SS

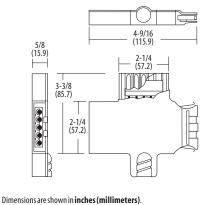
oltage	Number	of conductors
120	F	Five
277		

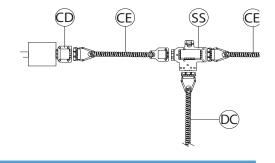


Example: SS 277 F U CSA¹

Option

- IGW Isolated ground wire; available only with 120V and F conductor.
- **2 N** Two circuit, two neutral; available with 120, 277 and 247V; F conductor only.
- CSA CSA Certified



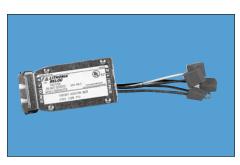


NOTES:

1 Must add CSA suffix for certification.

CSU

820 Circuit Selector Unit



Voltage Wire Color and Position				
Pin Position	Pin Function	120/347V	277V	
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 suffix for certification.

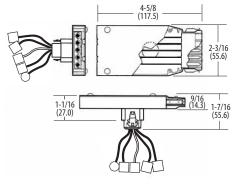
LITHONIA LIGHTING

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

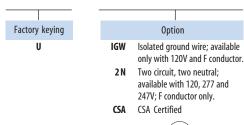
	3	
\neg		
Family	Voltage	Number of conductors
CSU	120 277 347	F Five

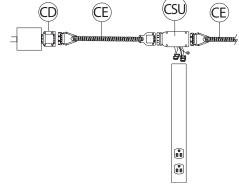


Dimensions are shown in **inches (millimeters)**.

www.lithonia.com, keywords: SS and CSU

Example: CSU 120 F U CSA¹





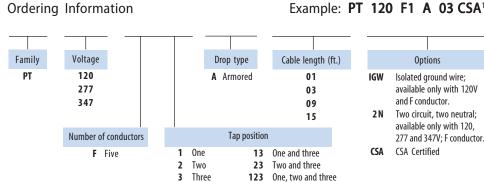
A through-wired component that makes it possible to select which branch circuit

conductor feeds a specific device. Also provides power to devices used on convenience power, access floor systems and commercial lighting.



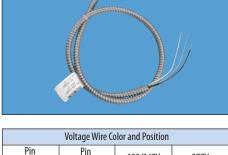
820 Power Tee

Ordering Information



12 One and two

Options IGW Isolated ground wire; available only with 120V and F conductor. Two circuit, two neutral; available only with 120, 277 and 347V; F conductor. CSA Certified

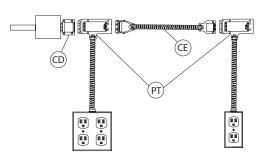


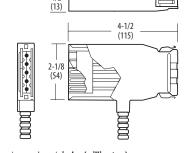
Voltage Wire Color and Position				
Pin Position	Pin Function	120/347V	277V	
1	Hot2	Red	Brown	
2	Hot1	Black	Yellow	
3	G	Green	Green	
4	N	White	White	
5	Hot3	Blue	Orange	

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 Must add CSA suffix for certification.





Dimensions are shown in inches (millimeters).

Intended Use

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

Conventional pipe and wiring not required to convey wiring.

Example: DC 120 D U 09 CSA¹

Options Isolated ground wire; available only with 120V and

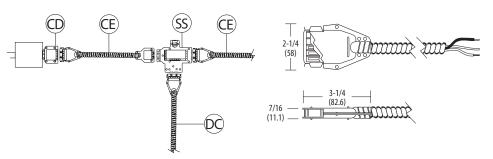
F conductor. Two circuit, two neutral; available only with 120, 277 and 347V; F conductor. CSA Certified



820 Drop Cable

Ordering Information

Family	Voltage	Number of conductors	Factory keying	Cable length (ft.)	
DC	120 277 347	D Three E Four F Five	U	09 11 13	IGW
		. ,,,,		15	2 N



Dimensions are shown in inches (millimeters).

www.lithonia.com, keywords: PT and DC



Voltage Wire Color and Position			
Pin Position	Pin Function	120/347V	277V
1	Hot2	Red	Brown
2	Hot1	Black	Yellow
3	G	Green	Green
4	N	White	White
5	Hot3	Blue	Orange

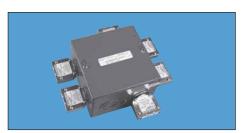
NOTE: Two neutral (2N) products provided with gray (120V) white (277V) in 5th position. Isolated ground wire option (IGW) provided with Yellow/Green (120V only) wire in the 5th position.

NOTES:

1 Must add CSA suffix for certification.



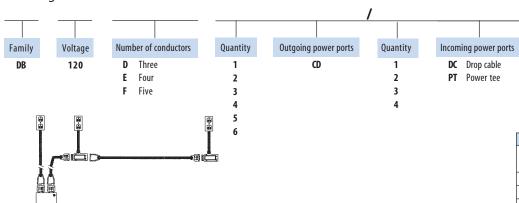
DB



Intended Use

The distribution box (DB) can be used as the interface between the Reloc® 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.

Ordering Information



Example: DB 120 F 4CD/1DC 01

S	DC/PT length	Options
	01 03 05	Isolated ground wire; with E and F conductors only Two circuit, two neutral; with F conductor only

Box Dimensions			
# of Outgoing	Width of	Length of	Height of
Power Ports	Box	Box	Box
1-6	6"	6"	3"
7-8	6"	8"	4"
9-14*	14"	16"	4.5"

^{*}Standoff legs included on this version.

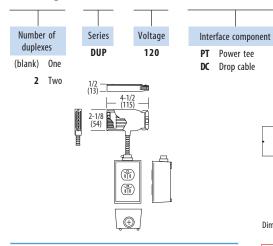
Duplex Receptacle

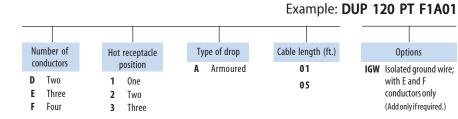


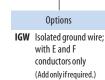
Intended Use

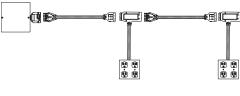
The DUP is a prewired power receptacle outlet box that integrates with a Reloc® system. The DUP can be used to manage phase loading on power receptacle applications. Pre-order the appropriate number of receptacles for each circuit prewired from the factory.

Ordering Information









Dimensions are shown in inches (millimeters).



www.lithonia.com, keywords: DB and DUP

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°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.





Example: PP2 L126 GY 2D20A120V H24 IGB

Ordering Information

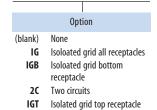
F	amily	Len	gth ¹
PP1	1 channel	L	78
PP2	2 channel	L1	02
PP3	3 channel	L1	26
		L1	50
		L1	86
		L2	22
		1.2	64

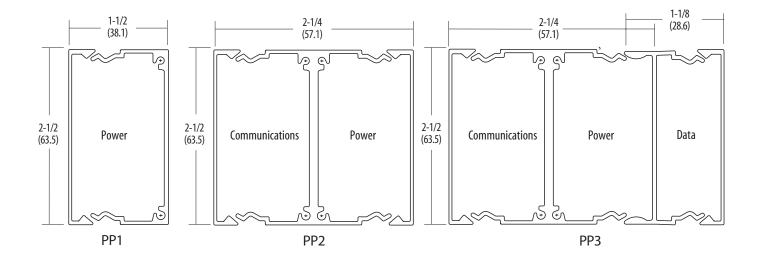
Po	ole color ²
WH	White
GY	Gray
BA	Brushed
	aluminum

Receptacles/amps/voltage ³		
ID20A120V IR30A208V 2D20A120V	One duplex 20 amp/120 volt One receptacle 30 amp/208 vol Two duplex 20 amp/120 volt	

volt 208 volt volt

Receptacle mounting height⁴ (blank) 3.25" from bottom H24 24" from bottom H48 48" from bottom





NOTES:

- $1\quad Power pole \, lengths \, are \, shown \, in \, in ches.$
- 2 Receptacle and plate colors will match pole color except for brush aluminum, which will come with a gray receptacle and plate.
- 3 30A208v is single receptacle.
- 4 Inches from bottom of the pole to the center of the duplex 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 m (6 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 m (6 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 conduit type employed.
- **(F) Luminaires (Fixtures).** Installation of listed electric-discharge 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 sole 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 a 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 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 support wiring 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 $% \left\{ \mathbf{r}_{i}^{\mathbf{r}_{i}}\right\} =\mathbf{r}_{i}^{\mathbf{r}_{i}}$
- (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 Air-Handling 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, loose stock, 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 conduit without 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 (4 ft), to connect physically adjustable equipment and devices permitted to be in these ducts and plenum chambers. The connectors used with flexible metal conduit shall effectively close any openings in the connection. Equipment and devices shall be permitted within such ducts or plenum chambers only if necessary for their direct 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 air-handling 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 not air 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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