RELOC® Wiring Solutions
Acuity Brands Lighting, Inc.
1335 Industrial Blvd., Conyers, GA 30012
Tel: 800-241-4750
Fax: 770-808-8650
www.relocwiring.com

GUIDELINE SPECIFICATIONS - *Quick-Flex*

Section 16150
MANUFACTURED WIRING SYSTEMS
for lighting in accessible finished ceilings

Intent

The intent of this portion is to furnish a manufactured, relocatable, integrated electrical branch wiring system for lighting in accessible finished ceilings as manufactured by Lithonia RELOC Wiring Solutions, a division of Lithonia Lighting.

Scope

Furnish and install all components required for a totally integrated and operating relocatable branch circuit wiring system. The System shall begin at the Quick-Flex Converter and extend to the lighting fixtures, as specified here and as indicated on the contract drawings.

Submittals

Submit catalog cuts of all components to be used. Submit samples if so requested by specifier.

Drawings

When so requested, furnish a complete set of RELOC drawings indicating how the flexible systems will be installed. If drawings are furnished, a diskette of the CAD RELOC drawings must be made available upon owner request for up to 10 years after project completion at no charge.

The Basic System

The System shall be pre-manufactured and supplied in accordance with N.E.C. Article 604 and UL Standard #183. All wires in the system shall be #12 AWG copper with 600V, 90°C insulation. All wires shall comply with N.E.C. or C.S.A. color-coding voltage requirements. The System grounding conductor shall be either bare or insulated #12 AWG copper.

The System shall be totally integrated; conduit and wire shall not be required as a part of the system. Where local authorities restrict the use of flexible metal conduit or MC cable in partitions and the like, proper interfacing components shall be part of this System.

The System shall contain pin and socket contacts which are solidly crimped onto the #12 AWG branch circuit conductor. This will ensure a good electrical connection and long component life. The cable heads shall be of a metal construction with a corrosion-resistant finish.

The System shall be keyed to guarantee that no interconnection can occur between different voltages and that no connection can occur between devices not intended to be connected. The System shall be designed to prevent backfeeding. This design shall be permanent and difficult to defeat.

The System shall have the capability of 4 wires (including a #12 AWG bare or insulated copper ground wire).

RELOC® Wiring Solutions
Acuity Brands Lighting, Inc.
1335 Industrial Blvd., Conyers, GA 30012
Tel: 800-241-4750
Fax: 770-808-8650
www.relocwiring.com

All components must meet UL #183 requirements for connecting and disconnecting under load and be UL or cUL listed. No fixture receptacle shall be required as part of this System.

The System shall consist of, but not be limited to, the following three (3) basic components:

I. QUICK-FLEX CONVERTER (QC)

A. The Quick-Flex Converter "converts" conventional wiring into flexible wiring.

B. The Quick-Flex Converter shall be designed to install through any 1/2" trade-size knockout.

C. The Quick-Flex Converter shall have No. 12 AWG copper conductors with 600V, 90°C insulation. Each wire shall be N.E.C. or C.S.A. voltage color-coded and stripped 5/8".

D. The quantity and types of Quick-Flex Converters shall be as required by the contract drawings.

II. QUICK-FLEX FIXTURE CABLE (QFC)

A. The Quick-Flex Fixture Cable shall have a male cable head on one end, and a snap-in port module on the other.

B. The Quick-Flex Fixture Cable shall contain a #12 AWG copper wire with 600V, 90°C insulation from one end of the cable to the other, while the wire leads from the snap-in port module to the fixture shall be #18 AWG copper with 600V, 105°C insulation. Each shall terminate in a UL recognized poke-home terminal for field connection to the ballast leads.

C. The Quick-Flex Fixture Cable snap-in port module shall be designed to snap into a standard 1/2" K.O., either in the access plate or end plate of the fixture.

D. The Quick-Flex Fixture Cable shall fit into a maximum installed clearance from the fixture of approximately 1-1/8".

E. The snap-in port module of the Quick-Flex Fixture Cable shall be designed to be UL listed as an auto-grounding component, allowing the fixture to be grounded without requiring a ground lead to be attached to the fixture. The grounding of the fixture is established and maintained when the component is snapped into the fixture knockout.

F. The Quick-Flex Fixture Cable allows the branch circuit to be fed to, but not through the fixture.

RELOC® Wiring Solutions
Acuity Brands Lighting, Inc.
1335 Industrial Blvd., Conyers, GA 30012
Tel: 800-241-4750
Fax: 770-808-8650
www.relocwiring.com

G. The quantity and types of Quick-Flex Fixture Cables shall be as required by the electrical circuitry and fixtures on the contract drawings.

III. QUICK-FLEX EXTENDER (QE)

A. The Quick-Flex Extender allows the Quick-Flex Fixture Cable to be extended.

B. The Quick-Flex Extender has a male cable head on one end and a female cable head on the other.

C. Each Quick-Flex Extender shall be "keyed" so that the components may only be used for extending in the prescribed manner within the System.

D. The Quick-Flex Extender shall contain #12 AWG copper wire with 600V, 90°C insulation from one end to the other.

E. The quantity and types Quick-Flex Extenders shall be as required by the contract drawings.

IV. QUICK-FLEX SWITCH DROP (QSD - for use with *Quick-Flex* System)

A. The Quick-Flex Switch Drop allows a switch to become an integral part of the flexible wiring system.

B. The Quick-Flex Switch Drop cable shall have one end terminating in a three-port module and the other end with exposed wires approximately 6" long for connection to a switch box.

C. The Quick-Flex Switch Drop shall consist of solid #12 AWG N.E.C. voltage color-coded copper conductors with 600V, 90°C insulation encased in a module and flexible metal conduit. The component shall be totally and permanently enclosed.

D. The "IN" port and "OUT" ports of the module end shall be designed so that the key arrangement will only interconnect with components of the same key design.

E. Each Quick-Flex Switch Drop shall be properly identified as to electrical configuration and shall provide an output of switched and unswitched power at each switch location and shall be labeled as such.

F. The Quick-Flex Switch Drop shall be configured to mount directly above the switch for simplicity.

RELOC® Wiring Solutions
Acuity Brands Lighting, Inc.
1335 Industrial Blvd., Conyers, GA 30012
Tel: 800-241-4750
Fax: 770-808-8650
www.relocwiring.com

G. The quantity and types of Quick-Flex Switch Drops shall be as required by the switch functions, partition type and electrical circuitry on the contract drawings.

Guarantee The Wiring System shall be guaranteed to operate and perform as described.

Special Note When requested, the flexible wiring manufacturer shall provide the services of a trained factory representative to assist and instruct the electrical contractor in the proper installation of the components and system.