

Flexor Installation Guide

Disconnect power before inspection, installation or removal. Follow all NEC and local codes.

Preparation

New Application

Clean the surface area where you intend to mount the Flexor Product with a non-oil based solvent such as mineral spirits or alcohol. Allow time to dry.

Retrofit Application

Remove all neon, tube stands and transformers. Follow all federal and local regulations when disposing of neon tubing and transformers.

Fill in all holes 0.5" or smaller with caulk or silicone. For holes greater than 0.5", use a metal patch with rivets/screws and caulk.

Clean the back of the letter with a non-oil based solvent and allow time to dry.

Note:

Necessary Tools

Wire strippers, wire cutters, screw driver, pliers, electrical box/junction box, disconnect/toggle switch, light switch box, Class 2 wire, wire connector, rivets/screws, liquid solvent, metal patch, proper caulk, etc.

Installation

Cutting the Flexor Product

The flexor product can be cut every two inches. The cutting interval is indicated by a dotted line with a scissors graphic. As long as the cut section has one or two connectors on it, the section will light. The section with one connector only will have to be used as an end unit though.

Connecting the Flexor Product

Snap the male plug on the 4" connection wire into any available socket receptacle on the Flexor Product to transfer power from one flexor to another.

Run all the Flexor units within a letter in series.

Installing the Mounting Bracket

Remove the adhesive backing from the mounting bracket and apply to the back or return of the channel letter. Add rivets or screws where necessary for mechanical support.

Mounting the Flexor Product

Depending on different desired lighting effects, snap 1 or 2 flexors in the slide slots of the mounting bracket vertically, or snap 1 flexor horizontally between the teeth of the mounting bracket on the very top.

Note:

1. LED Spacing: $\frac{3}{4}$ "-5" stroke width requires 1 row of the Flexor Product, 6"-12" requires 2 rows. This is a guidance only, actual results may vary. Add 5% -10% material to cover estimating margin of error.
1. Layout the Flexor Product in the channel letter before permanently affixing it.
2. Do not expose the Flexor Product to direct rain. For outdoor applications, use acrylic back.
3. Acceptable Face Material: Acrylic is more translucent thus better than vinyl.

Connecting the Letters

Option 1 – Connecting in Series and Parallel Combinations

Use the 36" connection wire to make connection from the letter to the connection strip.

Apply double sided tape to the back of the connection strip to secure the connection strip to the wall.

Use the 36" connection wire to connect the connection strips together.

Option 2 – Connecting in Series

Use the 36" connection wire to daisy chain all the letters together.

Powering the Flexor Product

Using the Hard-wire Style Power Supply

Snap one end of the 36" connection wire into a socket receptacle of a connection strip on the wall or a Flexor Product in the sign, cut the other end off. Strip the insulation off the cut end, connect with the power supply output leads using the wire connector. Hardwire attach the power supply input leads to the AC power source. Check polarity and make sure current is flowing correctly.

Using the Plug-in Style Power Supply

Snap one end of the 36" connection wire into a socket receptacle of a connection strip on the wall or a Flexor Product in the sign, snap the other end into a socket receptacle of the connection strip with power leads.

Apply double sided tape to the back of the connection strip with power leads to secure the connection strip with power leads to the wall.

Snap the white male plug on the connection strip with power leads into the white female plug on the power supply output leads. Plug the three-prong plug on the power supply into the wall outlet.

Note:

If a longer lead wire is needed from the Flexor Product to the power supply, an extension can be used, but should be kept as short as possible. Try to minimize the distance between the Flexor Product and the power supply.

Mounting & Wiring the Power Supply

Mount & Wire the hard-wire style power supply

The hard-wire style power supply covers the following model numbers:

HP60W

HP240W

All hard-wire style power supplies are rated for installation in dry, damp and wet locations for indoor and outdoor applications.

Mount the power supply inside the channel letter, inside a raceway, or to an interior wall with appropriate fasteners through the holes provided on the power supply. Make sure the power supply is installed in a well-ventilated area, not exposed to rain, water or snow.

The power supply must be accessible after installation.

Have a licensed electrician make the primary electrical connection in accordance with all national and local codes. Also, any field installation is subject to the acceptance of local inspection authority.

Note:

1. All primary wiring must be enclosed in conduit.
2. All primary connections must be made inside the power supply's built-in junction boxes.
3. A disconnect/toggle switch of appropriate rating must be placed on the primary side of the power supply. The disconnect/toggle switch must be marked with an ON and OFF position and enclosed in a light switch box.

Connect the secondary wires from the power supply with the Class 2 wire attached to the letters using the wire connector.

Note:

1. All secondary wiring must be enclosed in appropriate conduit unless Class 2 wire is used for all secondary runs through the wall and to the power supply behind the wall.

2. All secondary connections must be made in an appropriate junction box unless they are safely insulated.

Mount & Wire the Plug-in Style Power Supply

The plug-in style power supply covers the following model numbers:

Qili50W

Qili60W

All plug-in style power supplies are rated for installation indoors.

Put the power supply inside an electrical box. Mount the power supply and box as one unit inside the channel letter, inside a raceway, or to an interior wall with appropriate fasteners through the holes provided on the box. Make sure the power supply is installed in a well-ventilated area, not exposed to rain, water or snow.

The power supply must be accessible after installation. Also, any field installation is subject to the acceptance of local inspection authority.

Plug the three-prong plug into the wall outlet.

Note:

Do not perform any alterations to the primary side of the power supply. The three-prong plug cannot be cut off. There is no need to place any disconnect device and also cannot place any disconnect device on the primary side.

Connect the secondary wires from the power supply with the Class 2 wire attached to the letters using the wire connector.

Note:

1. All secondary wiring must be enclosed in appropriate conduit unless Class 2 wire is used for all secondary runs through the wall and to the power supply behind the wall.
2. All secondary connections must be made in an appropriate junction box unless they are safely insulated.