

# LED Strip and Profiles

## GLI-SC3014

### INSTALLATION INSTRUCTIONS

#### WARNING

1. Read all instructions.
2. Install in accordance with national and local electrical code regulations.
3. This product is intended to be installed and serviced by a qualified, licensed electrician.
4. Turn off electrical power before installing or servicing fixture in any way.
5. To reduce the risk of fire and overheating, make sure all connections are tight.



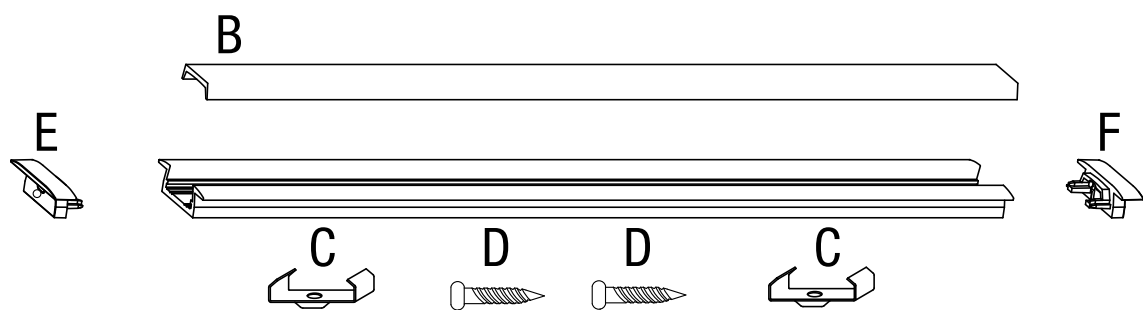
**May result in serious injury or death.**  
**Turn power OFF at circuit breaker prior to installation or servicing.**

# LED Strip and Profiles

## CAUTION

- Make precise cuts at the indicated locations on the strip.
- Refer to the CUTTING DETAILS page for detailed cutting length information for each strip.
- The maximum length of the strip is 5 meters for 64/128 LEDs per meter and 3 meters for 192 LEDs per meter.
- Refer to the DRIVER TO STRIP FEEDER WIRING page for suitable wiring gauge and lengths.
- If using an aluminum channel, plan the channel installation length based on strip cutting points and the maximum length.
- For outdoor applications, seal the cut ends with neutral cure silicone.
- Avoid powering the LED ribbon while it is coiled on a reel.
- Avoid direct staring into the illuminated LED lights.
- Always check the polarity for connections, ensuring positive (+) to positive and negative (-) to negative.
- Do not install indoor versions in areas exposed to the elements.

## COMPONENTS

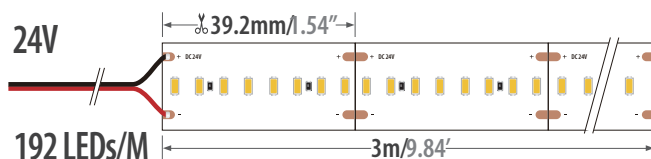
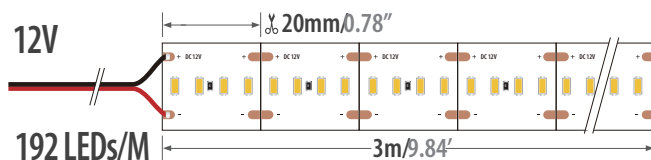
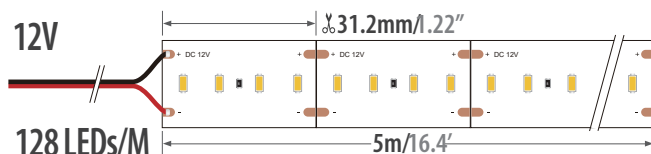
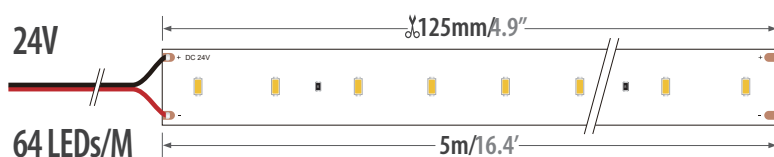
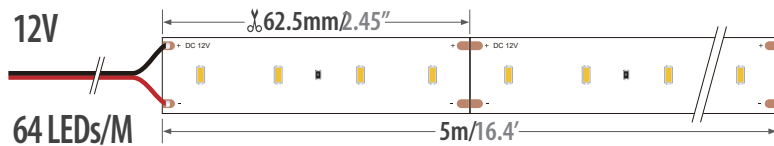


| ITEM    | A                                                                                   | B                                                                                   | C                                                                                   | D                                                                                   | E                                                                                   | F                                                                                   | E                                                                                    | F                                                                                     |
|---------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| PICTURE |  |  |  |  |  |  |  |  |
| NAME    | Aluminum channel                                                                    | PC Cover                                                                            | Bracket                                                                             | Screw                                                                               | Cable end cap                                                                       | End cap                                                                             | Strip end cap                                                                        | Strip bracket                                                                         |
| QTY     | 1x                                                                                  | 1x                                                                                  | 2X                                                                                  | 2X                                                                                  | 1X                                                                                  | 1X                                                                                  | 1x                                                                                   | 1/30cm                                                                                |

ATTENTION: INSTALL IN ACCORDANCE WITH LOCAL AND NATIONAL BUILDING AND ELECTRIC CODES.

# LED Strip and Profiles

## CUTTING DETAILS



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## DRIVER TO STRIP FEEDER WIRING

| FEEDER CABLE SPEC |                         | MAX STRIP LENGTH BY STRIP W/M, FEEDER CABLE UP TO 5M. |         |         |          |          |        |
|-------------------|-------------------------|-------------------------------------------------------|---------|---------|----------|----------|--------|
| CABLE AWG         | $\Omega/\text{km}$      | 4.8 W/m                                               | 7.2 W/m | 9.6 W/m | 14.4 W/m | 19.2 W/m | 24 W/m |
| 20AWG             | 33.9 $\Omega/\text{km}$ | 14.7m                                                 | 9.8m    | 7.4m    | 4.9m     | 3.7m     | 2.9m   |
| 18 AWG            | 21.4 $\Omega/\text{km}$ | 23.4m                                                 | 15.6m   | 11.7m   | 7.8m     | 5.8m     | 4.7m   |
| 16 AWG            | 13.5 $\Omega/\text{km}$ | 37.m                                                  | 24.7m   | 18.5m   | 12.3m    | 9.3m     | 7.4m   |
| 15 AWG            | 10.6 $\Omega/\text{km}$ | 47.2m                                                 | 31.4m   | 23.6m   | 15.7m    | 11.8m    | 9.4m   |
| 14 AWG            | 8.5 $\Omega/\text{km}$  | 59.2m                                                 | 39.4m   | 29.6m   | 19.7m    | 14.8m    | 11.8m  |
| 13 AWG            | 6.7 $\Omega/\text{km}$  | 74.7m                                                 | 49.8m   | 37.4m   | 24.9m    | 18.7m    | 14.9m  |
| 12 AWG            | 5.3 $\Omega/\text{km}$  | 94.2m                                                 | 62.8m   | 47.1m   | 31.4m    | 23.5m    | 18.8m  |
| 11 AWG            | 4.2 $\Omega/\text{km}$  | 117.9m                                                | 78.6m   | 59.m    | 39.3m    | 29.5m    | 23.6m  |
| 10 AWG            | 3.4 $\Omega/\text{km}$  | 148.8m                                                | 99.2m   | 74.4m   | 49.6m    | 37.2m    | 29.8m  |

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## CHANNEL INSTALLATION

1. Install two support brackets (C) for every 1 meter of aluminum channel (A) (Fig. 1).
2. Position the brackets (C) approximately 25cm and 45cm along the channel.
- ! Use bracket anchors suitable for the mounting surface and the anticipated forces
3. Place the required number of support brackets for the aluminum channels.
4. Snap the aluminum channel(s) securely into the supporting brackets (Fig. 2).
5. Measure the desired length of the LED strip and, if necessary, cut it precisely at the indicated location (Fig. 4).
6. If the strip is cut, apply neutral cure silicone to the cap (E) and firmly push it onto the strip (Fig. 3).
7. Remove the adhesive backing from the LED strip and attach it firmly to the channel (Fig. 5).
8. Securely attach the PC-cover (B) to the channel by firmly pushing it into place (Fig. 6).
9. Thread the power feed cable through the end cap with a hole (E) and push the end cap onto the channel (Fig. 7).
10. At the end of the run, attach the end cap (F) to the channel (Fig. 7).
11. Connect the power feed tail to the strip connector.
12. Finally, connect the power feed tail to the LED driver.

Fig. 1

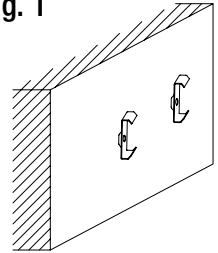


Fig. 2

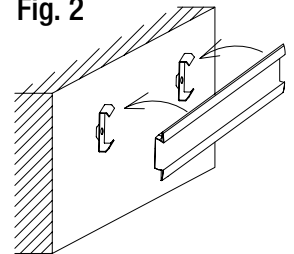


Fig. 3

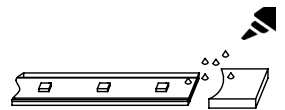


Fig. 4



Fig. 6

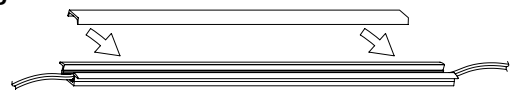


Fig. 5

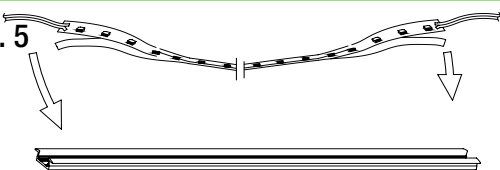


Fig. 7



# LED Strip and Profiles

## DIRECT INSTALLATION

1. Measure the required length of the LED strip and, if needed, cut it precisely at the indicated location (Fig. 1).
  2. If the strip was cut, apply neutral cure silicone to the cap (E) and firmly push it onto the strip (Fig. 2).
  3. Remove the adhesive backing from the LED strip and attach it to the mounting surface (Fig. 3).
- ! Ensure mounting surface is clean and free from debris
4. Install a supporting bracket (F) at the start and end of the strip and every 30cm along the length (Fig. 4).
- ! Use bracket anchors suitable for the mounting surface and the anticipated forces
5. Plug the power feed tail into the strip connector.
  6. Connect the power feed tail to the LED driver.

Fig. 1



Fig. 2

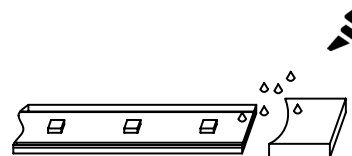


Fig. 3

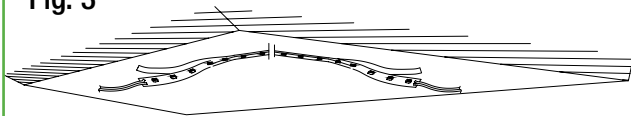


Fig. 4

