

## IEC Lock Connector – 102-9107

### Installation Guide

#### TECHNICAL, SAFETY AND INSTALLATION INFORMATION

Please read the following before information carefully before commencing installation.

Before commencing any electrical work, to prevent the possibility of receiving an electric shock, ensure the mains isolator on the consumer unit / fuse board is in the 'OFF' Position.

This product is rated to 10A (EU), 15A (USA/Canada) at 250V~ 50Hz and 60Hz.

#### STANDARDS

The rewirable IEC Lock is designed in accordance with the applicable sections of the current revision of the following documents. Where a conflict arises between these documents and statements made herein, the statements in the specification document will govern.

#### 250V

- CSA C22.2 No. 60320-1-11. Standard for Appliance Couplers for Household and Similar General Purposes – Part 1: General Requirements – Edition 1 – Issue Date 05/12/2011.
- UL 60320-1 Appliances Couplers for Similar General Purposes – Part 1: General Requirements – Edition 2 – Issue Date 05/12/2011
- IEC 60320-2-2:1998 (2nd Edition) used in conjunction with IEC 60320-1:2001 (2nd Edition)
- EN 60320-2-2:1998 (2nd Edition) used in conjunction with EN 60320-2:2001.

#### SYSTEM DESCRIPTION

Screw-In Terminals – This product is designed to be used in accordance with cords with rating no higher than that of the product itself.

The nominal torque value for the terminal screws = 0.4Nm. The strain relief clamping screws should be 0.3Nm (2.65in-lbs).

#### MAXIMUM DIAMETER OF THE CORDS

| Type or Cord       | Number of cores and nominal cross-section area mm <sup>2</sup> | Amperage |
|--------------------|--|----------|
| 18AWG SJT, SJE, SJ | 3 x 0.75   | 10A      |
| 16AWG SJT, SJE, SJ | 3 x 1  | 13A      |
| 14AWG SJT, SJE, SJ | 3 x 1.5  | 15A      |
| European           | 3 x 0.75<br>3 x 1<br>3 x 1.5                                   |          |

## ENVIRONMENTAL CONDITIONS

Ambient Temperature:

- Not normally exceeding 25°C, but occasionally reaching 35°C.
- This product is rated for cold conditions.

Relative Humidity:

- 5 - 95% non-condensing, non-corrosive.

## WIRING

To access the terminations, first unscrew (Fig. 1.), remove the cover plate (Fig. 2.), and then remove the cable clamp (Fig. 3.).

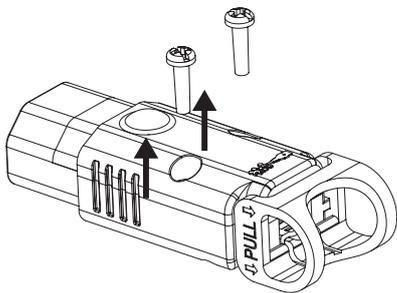


Fig. 1.

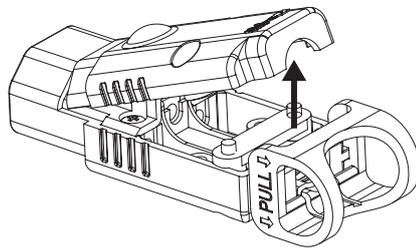


Fig. 2.

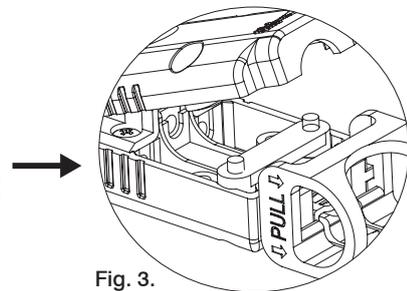


Fig. 3.

Feed the cable through the handle (Fig.4.) and wire the cable into the terminal (Fig. 5.) ensuring that correct polarity and nominal torques values are observed (0.4Nm).

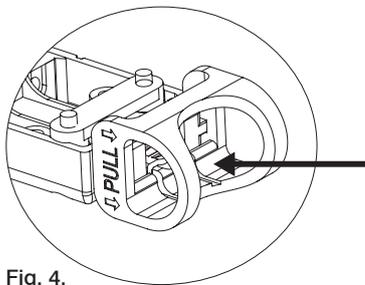


Fig. 4.

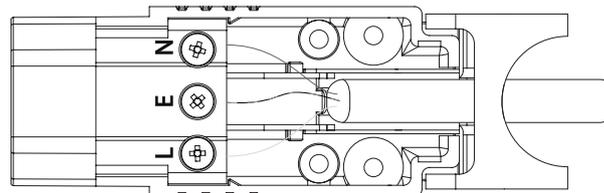


Fig. 5.

Strip cable sheathing to length (ensuring EARTH is longer than LIVE and NEUTRAL).

- Both LIVE (Phase) and NEUTRAL = 18mm
- EARTH (Ground) = 23mm

Replace the cord grip (Fig. 6.) ensuring the torque value is achieved (0.3Nm), and then replace the cover plate and screws.

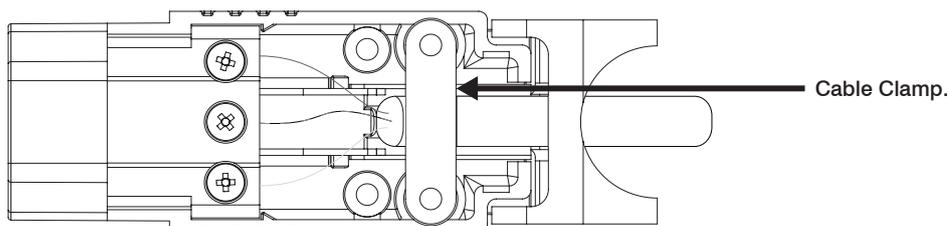


Fig. 6.

## INSERTION AND REMOVAL

It is essential for maintaining the service life of the product, specifically the locking blade and its locking properties that the following is adhered to.

Before inserting the connector into a C13 socket, the locking blade mechanism must be disengaged by fully retracting the 'RED' handle on the front of the socket (fig. 7 & 8.).

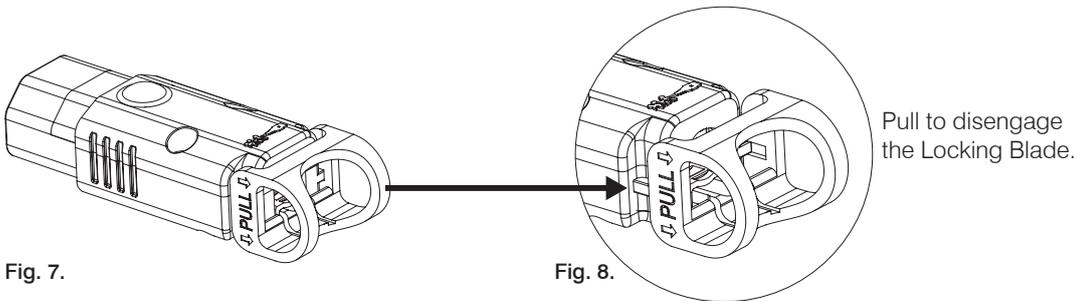


Fig. 7.

Fig. 8.

1. Insert Connector (Fig. 9.) into C14 Socket (Fig. 10).

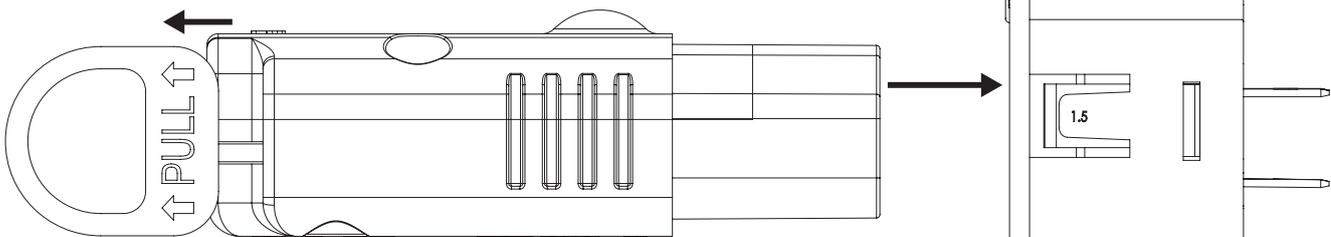


Fig. 9.

Fig. 10.

2. Release the handle to 'lock' the connector in place (Fig. 11.).

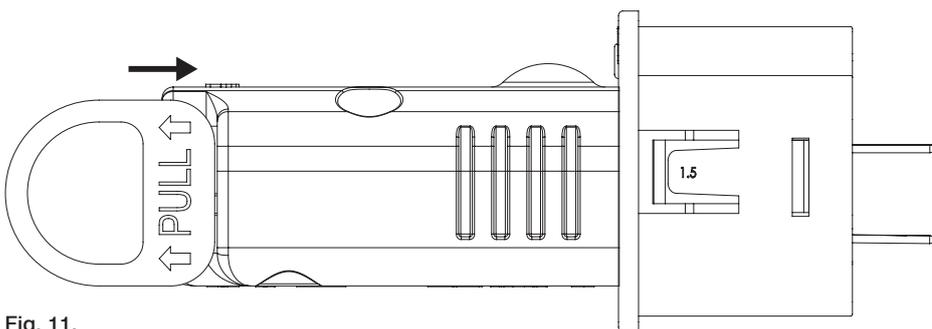


Fig. 11.