

# ASSEMBLY MANUAL

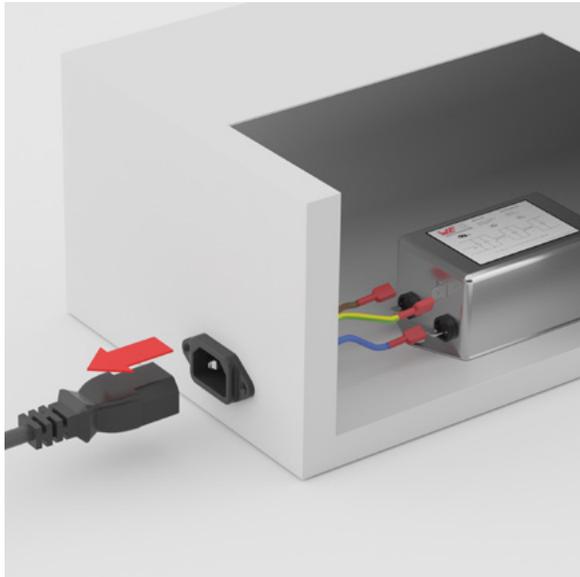
## WE-CLFS

Read these instructions before using this tool.



**WÜRTH ELEKTRONIK** MORE THAN YOU EXPECT

## 1. Safety Rules



While mounting and removing, the electronic component shall be operated in voltage-free condition pursuant to the five safety rules described in the standard EN 50110-1.

1. Disconnect
2. Secure against re-energization
3. Determine voltage absence
4. Grounding and short-circuiting
5. Cover or fence off adjacent, energized parts

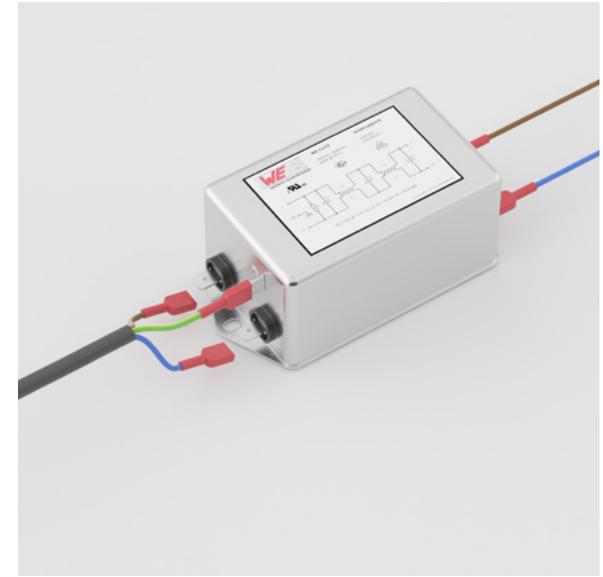
## 2. Ground Connection



To establish a low impedance path for parasitic currents, the filter housing shall have a wide connection area to the ground plane. The ground plane shall be free of paint or other isolating materials.

A solid connection to the grounding plane is established with M4 screws. The tightening torque varies with the selected screw and should not exceed the limit of 5 Nm.

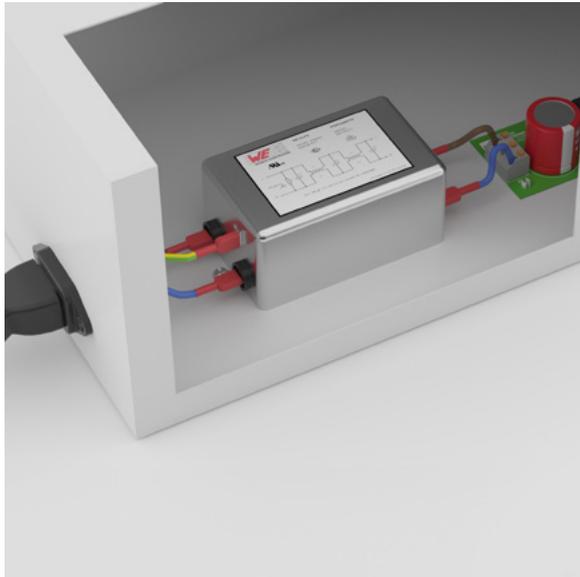
## 3. Protective Earth (PE) Connection



The protective earth connection shall be the first to be connected while installing the filter and shall be the last to be disconnected. It's crucial to prepare the protective earth connection with careful consideration of the leakage current.

*\*The colors of the cables are chosen according to the European standard. Please refer to the standard that applies to you.*

## 4. Placement

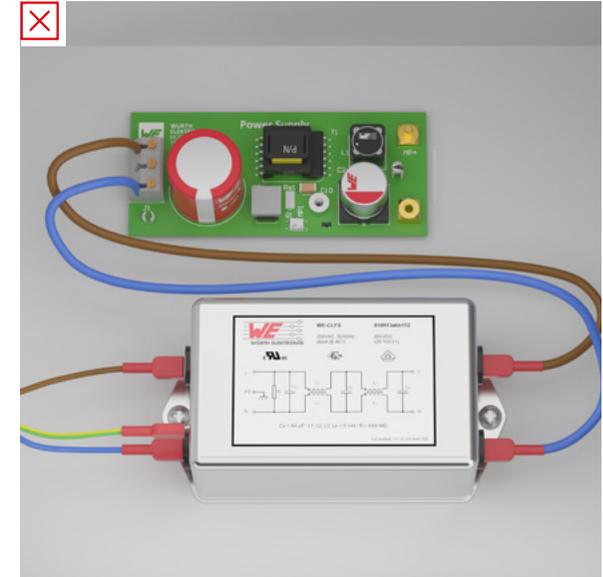


### Filter Position

The filter position is suggested to be close as possible to the application. If there are long distances between the filter and application, it is recommended to shield the cables, otherwise, the functionality might be affected.

### Short Connections

Keep the connection to the PE as short as possible. Use short cables to minimize the parasitic effects of the setup.



### Minimize Crosstalk

To minimize crosstalk do not place incoming and outgoing cables next to each other.