How electric equipment is classified?

There are two (2) electric equipment classes normally used in the country. The classification is based on their safety features and fabrication.

What Is Electrical Equipment Class 1?

Electrical Equipment Class 1 covers all electric equipment which the body is made from metal. All this kind of equipment must be connected to power source using flexible 3 core wire (picture 1) that is life wire (chocolate) and neutral wire (blue) which are needed to enable electrical appliances functioning. Earth wire (green / yellow) is also required to make sure leakage current is not flowing to the consumer’s body, but directly to earth when damage is occurred like life wire touched on the metallic body. This could save the consumer from electric shock.

Correct method to connect 3 Pin Power Plug and 3 Core Wire

1. Connection should be done as shown in Picture 1 where all the colour code need to be obeyed.
2. Make sure all the screws are tighten and no excessive conductor wire that cause the touching of each other as in Pictures 2.
3. Make sure 'Cord grip' wire binder is used to ensure the flexible wire is not detach in power plug.

ATTENTION!!

1. If flexible wire has different colour code, please contact accredited wireman and never do your own connection.
WRONG POLARITY IN POWER PLUG WILL CAUSE ELECTRIC SHOCK

2. Do not use broken power plug and socket because it is danger especially to children (Picture 3).

3. Use power plug which is approved by ST which has been tested by SIRIM and possess SIRIM label (picture 4).

4. Make sure conductor wire is cut into short when making connection and not harming other connection.

5. Make sure high temperature electrical appliances like rice cooker, iron and toaster have cloth insulated heat-resistant wire (Picture 1).

6. Avoid from using variety of electrical appliances at one same point especially high-powered electrical appliances such as iron, rice cooker and toaster (Picture 5).

7. Never use wire to replace fuse in power plug (Picture 6).

8. Please do not connect electrical appliances to light source.

Picture 3 : BROKEN PLUG AND SOCKET
How Electrical Appliances is Classified
There are two (2) electric equipment classes normally used in the country. The classification is based on their safety features and fabrication.
What Is Electrical Equipment Class II

Electrical equipment Class II in general is electrical appliances with the body is made from non conductive materials of such as plastics (Picture A). There are appliances where the body are made from electricity metal conductor such as video but they are still classified as equipment Class II (Picture B). This is because it have double insulation system where first insulation enable it to function perfectly while second insulation ensure the consumer from touching the electricity conductor wire if damage is happened.

Method to connect 2 Pin Plug Power

1. Most of electric equipment class II already have 2 pin power plug fixed at the factory before they’re being sold to the public. Therefore consumer don't have to make anymore connection.

2. If electrical appliances class II is not fitted with power plug, you may connect it with 3 pin power plug, **MAKE SURE THE EARTH PIN IS NOT CONNECTED TOGETHER**

3. Always use approved adaptor (Picture C) when using 2 pin equipment.

4. Power plug which possess thin 2 pin (Picture C.1) and different dimension from the socket at your house cannot be used although it is use together with same dimension plug connector (Picture C.1) in the system.

5. Make sure 2 pin power plug has insulated pin (Picture D)

![Picture A: Hair dryer (Class II)  Picture B: Video Player (Class II)](image)

What Is Electric Equipment Class II Symbol

Electric Equipment Class II have symbol as shown in the picture F.
Picture C: **Adaptor (I) (II)**

Picture D: **Insulated Pin Power Plug**

Picture E: **Adaptor**
CAUTION

Please ensure the connection, wiring and reparation is done by people who are experienced and accredited to guarantee the safety.

ELECTRICAL SAFETY IN YOUR HAND!