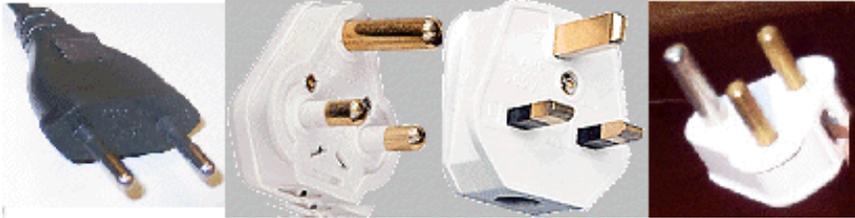


## Type of Mains Plugs suitable for use in Singapore

### Examples of Approved Mains Plugs



*From left : 2.5A round pin, 5A round pin, 13A rectangular pin, 15A round pin*

### Examples of Non-Approved Mains Plugs



*From left : Flat-blade plug, Schuko plug with side grounding contact, Schuko plug with side grounding contact, 10/16-Amp round pin, Flat-blade but with round grounding pin, Flat-blade but with round grounding pin*

### Points to note when using Mains Plugs

Apart from Brunei, Hong Kong, Malaysia or UK, mains plugs used in many other countries are different from those in Singapore. Hence we should be mindful that not all types of mains plugs are suitable for use in Singapore.

Are you aware that there are 4 types of Mains Plugs that you could use in Singapore?



**The 5AMP round-pin Mains Plug** for table/standing lamp – This is generally used in hotels and seldom found in domestic premises.



**The 2.5AMP 2 round-pin Mains Plug** – This is generally used for electronics appliances such as TV, DVD and audio sets. These appliances do not rely on earth as a form of protection and therefore only 2 pins are needed. One for the ‘Live’ and the other for the ‘Neutral’.



**The 13AMP 3 pin fused Mains Plug** – This is used for electrical appliances such as refrigerators, washing machines and microwave ovens. As these appliances have metal body, the body must be grounded so that in the event of electricity leakage to the metal body, there is no risk of electrocution to human.



**The 15AMP 3 round-pin Mains Plug** – This is used generally for air-conditioners.

### A point of caution



There could be some appliances fitted with Mains Plugs meant for the German Market. These are **Mains Plugs rated at 10/16AMP** and known as ‘**Schuko**’ plugs (*See image*). These types of mains plugs are not suitable for use in Singapore, as the dimension of the round pins will likely stress the contacts of the mains socket outlet and this would subsequently lead to poor contact and overheating.

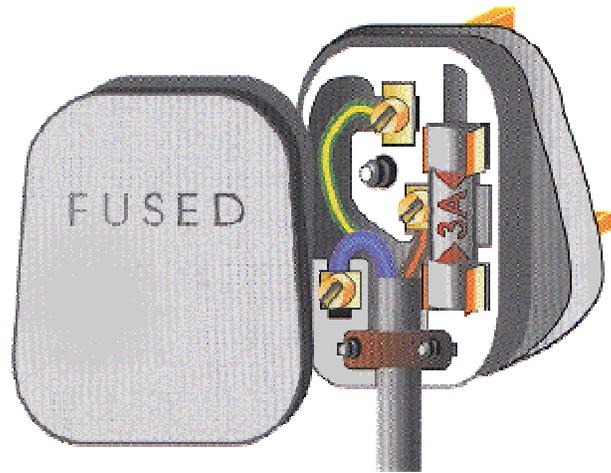
These types of mains plugs come with or without earthing strips-located on the side of the plug. An appliance fitted with plug with earthing strips is not safe for use in Singapore as the earthing strips do not make contact with the earth contact of the mains socket. To ensure safety, change the plug to the correct type where the earth pin engages with the mains socket outlet.



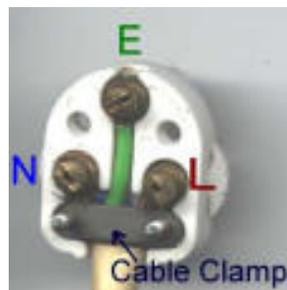
The 'Schuko' plug is moulded together with the power cord. To re-wire, cut off the moulded plug from the power cord. It is advised that this be replaced by appropriately rated mains plug such as 13AMP or 15AMP mains plug.

The 13AMP and 15AMP mains plugs are controlled goods under the Consumer Protection (Safety Requirements) Regulations. These plugs must be affixed with the SAFETY Mark. The SAFETY Mark comprises of a safety logo enclosed in a square on the left and the word "SAFETY MARK" enclosed in a rectangle on the right. Below the logo is a unique certification number traceable to the supplier. You should look for the SAFETY Mark when purchasing controlled goods.

## Wiring Diagram of a 13-Amp and 15-Amp plug



*Above: 13-Amp plug*



*Above: 15-Amp Plug*

### Instructions

You must first strip the insulation off the wires, exposing about 5mm of the copper wires and then connect the earth wire coloured yellow and green to the earth pin which is located at the top portion of the plug. You must connect the blue coloured wire to the 'neutral' pin marked 'N'. The brown wire must be connected to the 'live' pin marked 'L'.

Ensure that the power cord is secured by the strain relief usually fastened by screws to prevent stressing the wire terminations. Remember to let the 'earth' wire be slightly slack when compared to the brown and blue wires. This is to ensure that should the strain relief be inadvertently loosened, then the earth wire should be the last wire to be loosened.