

25 Supply connection and external flexible cords

25.1 Appliances, other than those intended to be permanently connected to fixed wiring, shall be provided with one of the following means for connection to the supply mains:

- **supply cord** fitted with a plug;
- an appliance inlet having at least the same degree of protection against moisture as required for the appliance;
- pins for insertion into socket-outlets.

Compliance is checked by inspection.

25.2 Appliances, other than **stationary appliances** for multiple supply, shall not be provided with more than one means of connection to the supply mains. **Stationary appliances** for multiple supply may be provided with more than one means of connection provided that the relevant circuits are adequately insulated from each other.

NOTE 1 For example, a multiple supply may be required for appliances supplied with day and night tariffs.

Compliance is checked by inspection and by the following test.

A voltage of 1 250 V of substantially sinusoidal waveform and having a frequency of 50 Hz or 60 Hz is applied for 1 min between each means of connection to the supply mains.

NOTE 2 This test may be combined with that of 16.3.

During this test, no breakdown shall occur.

25.3 Appliances intended to be permanently connected to fixed wiring shall allow the connection of the supply conductors after the appliance has been fixed to its support and shall be provided with one of the following means for connection to the supply mains:

- a set of terminals allowing the connection of cables of fixed wiring having the nominal cross-sectional areas specified in 26.6;
- a set of terminals allowing the connection of a flexible cord;

NOTE 1 In this case it is allowed to connect the **supply cord** before the appliance is fixed to its support. The appliance may be provided with a flexible cord.

- a set of **supply leads** accommodated in a suitable compartment;
- a set of terminals and cable entries, conduit entries, knock-outs or glands, which allow the connection of the appropriate types of cable or conduit.

NOTE 2 If a **fixed appliance** is constructed so that parts can be removed to facilitate easy installation, the requirement is considered to be met if it is possible to connect the fixed wiring without difficulty after a part of the appliance has been fixed to its support. In this case, removable parts are to be constructed for ease of reassembly without risk of incorrect assembly or damage to the wiring or terminals.

Compliance is checked by inspection and if necessary by making the appropriate connections.

25.4 For appliances intended to be permanently connected to the fixed wiring and having a **rated current** not exceeding 16 A, cable and conduit entries shall be suitable for cables or conduits having a maximum overall diameter shown in table 10.