



IS 10322 (part 5/sec 6) Luminaires **Part 5 Particular Requirements- Section 6 Hand lamps**

Hand lamps is a **luminaire** with a handle and a **flexible** cable or cord, intended to be moved frequently while connected to the supply. The luminaire is held in the hand, hooked up or rest on a surface for use with electric light source on supply voltages.

According to the method of connecting the cable or cord, handlamps are classified as:

- a) Rewirable handlamps, or
- b) Non-rewirable handlamps.

According to the circumstances of use, handlamps are classified as rough service luminaires.

IS 10322 (part 5/Sec 6) specifies requirements for hand lamp construction, classification, electrical and mechanical **safety** parameters.

Handlamps are classified as Class II or Class III according to the type of protection against Electric Shock. Also, Insulation Resistance and Electric Strength test specifies the electrical safety requirement.

Resistance to heat, fire and tracking, resistance to dust and moisture, and construction requirements take care of mechanical safety.

The handlamps are connected through flexible cables/cords for power input, the cords are subject to undue movement while in use, **flexing** test on cables and type of attachment (type X/Y/Z) caters to the mechanical and electrical stability of the cables/cords.

Endurance and Thermal test are carried so that under conditions representing cyclic heating and cooling in service, the luminaire shall not become unsafe and the wiring within the luminaire shall not become **unsafe**.

IS 10322 (part 5/Sec 6) is periodically reviewed and an amendment was issued in 2022.

Electronics and information technology goods (requirement of compulsory registration) order, 2021 issued by **MeitY mandates registration** of handlamps with BIS.