

**IS 9968 (Part 2) : 2002 – Specification for Elastomer Insulated Cables**  
**Part 2 – For working Voltages from 3.3kV up to and Including 33kV**

Elastomer insulated cables are electrical cables that use elastomer materials, such as rubber or thermoplastic elastomers, for their insulation. Elastomers fall under the category of thermosetting materials that are used for insulation and sheathing of electric cables. The advantage of use of elastomeric material is its ability to return rapidly to approximately its initial shape after substantial deformation at room temperature by a weak stress and release of that stress. They are commonly used in industrial, automotive, and consumer electronics, as these cables are ideal for applications requiring high flexibility and durability.

Indian Standard 9968 (Part 2) covers the requirements of heat resisting elastomer insulated cables for fixed installations and flexible cables for single phase or three phase system, suitable for voltage ( $U_0/U$ ) 1.9/3.3, 3.8/6.6, 6.35/11, 12.7/22 and 19/33 kV for electricity supply purposes. These cables are suitable for use where combination of ambient temperature and temperature rise due to load results in conductor temperature not exceeding 90°C under normal operation and 250°C under short circuit conditions.