Indian Standard

SPECIFICATION FOR ELASTOMER INSULATED CABLES

PART 1 FOR WORKING VOLTAGES UP TO AND INCLUDING 1 100 VOLTS

(First Revision)

1. SCOPE

1.1 This standard specifies the requirements of elastomeric insulated cables for fixed wiring flexible cables and flexible cords for electric power and lighting for operation at voltages up to and including 1 100 volts.

1.2 The following types of cables and cords are covered in this standard

1.2.1 *Cables for Fixed Wiring*

a) Branded and compounded/ varnished.,

b) Elastomer sheathed (normal duty), and

c) Elastomer sheathed (normal duty) with earth continuity conductor.

1.2.2 *Flexsble Cables*

a) Branded and varnished, and

b) Elastomer Sheathed (heavy duty),

1.2.3 *Flexible Cords*

a) Braided

b) Elastomer sheathed (normal duty).

c) Unkinkable flexible cords- braided and compounded (workshop type), and

d) Unkinkable flexible cords- braided and compounded.

1.3 The cables covered in this standard are suitable for use on single-phase or three-phase (earthed or unearthed) system for rated voltages up to and including 1 100 volts. These cables may be used on dc system for rated voltages up to and including 1 500 volts to earth.

1.4 The cables covered in this standard are suitable for use where the combination of ambient temperature and temperature use due to load results in conductor temperature not exceeding the following:

Type of Insulation	*Normal Continuous Operation*	*Short-Circuit Condition*
Insulation for General service	60°C	200°C
Heat resisting Insulation	90°C	250°C
Silicone rubber insulation	150°C	350°C

NOTE- The short-circuit temperatures mentioned above are based on intrinsic properties of the insulating materials It is essential that the accessories which are used in the above system with mechanical and/or soldered connections are suitable for the temperature