

(PREVIEW)

Indian Standard

SPECIFICATION FOR

PVC INSULATED (HEAVY DUTY)

ELECTRIC CABLES

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

1. SCOPE

1.1 This standard (Part 1) covers requirements and tests for armoured and unarmoured single-core, twin-core, three-core and multi-core PVC insulated and sheathed cables for electric supply and control purposes.

1.2 The cables covered in this standard are suitable for use on ac single phase or three phase (earthed or unearthed) systems for rated voltages up to and including 1 100 V. These cables may be used on d.c. systems for rated voltages up to and including 1 500 V to earth.

NOTE - The cables conforming to this standard may be operated continuously at a power frequency voltage up to 10 percent higher than the rated voltage.

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

<i>Type of Insulation</i>	<i>Normal Short</i>	
	<i>Continuous Operation</i>	<i>Circuit Condition</i>
General purpose	70°C	160°C
Heat resisting	85°C	160°C

The selection of type of insulation rests with the purchaser.

1.4 Armoured cables specified in this standard are suitable for use in mines also. However, for such cables, additional requirements have been included wherever necessary [*see* 3.1.1, 13.5.2, 15.3(c) and 17.2].