

(PREVIEW)

IS : 1554 (Part 2) – 1988

Indian Standard
SPECIFICATION FOR PVC INSULATED
(HEAVY DUTY) ELECTRIC CABLES
PART 2 FOR WORKING VOLTAGES FROM 3.3 kV UP TO AND INCLUDING 11 Kv
(*Second Revision*)

SECTION 1 GENERAL

I. SCOPE

1.1 This standard (Part 2) covers the requirements of the following categories of PVC insulated and PVC sheathed power cables for electricity supply purposes:

a) *Types of Cables*

- 1) Single-core unscreened, unarmoured (but non-magnetic metallic tape covered);
- 2) Single-core screened, unarmoured;
- 3) Single-core armoured (non-magnetic), screened or unscreened; and
- 4) Three-core armoured, screened or unscreened.

b) *Voltage Grade (U_o/U)*

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

1.2 The cables covered in this standard are used where combination of ambient temperature and temperature rise due to load results in conductor temperature not exceeding 70°C under normal operation and 160°C under short-circuit conditions.

1.3 Heavy duty 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, 16.5, 18.3 (d) and 20.2*].