

(PREVIEW)

Indian Standard
SPECIFICATION FOR
ELASTOMERIC INSULATION AND
SHEATH OF ELECTRIC CABLES

1 SCOPE

1.1 This standard specifies the physical and electrical requirements for elastomeric insulation and sheath of electric cables.

1.2 The types of insulation and sheath included in this standard are given in Table 1.

TABLE 1 TYPES OF ELASTOMERIC INSULATION AND SHEATH				
SL. NO.	TYPES OF INSULATION/SHEATH	TYPE REFERENCE	MAXIMUM RATED OPERATING TEMPRATURE OF CONDUCTOR	
(1)	(2)	(3)	(4)	
i)	Insulation for general service	IE 1	60°C	
ii)	Heat resisting insulation:			
a)	suitable for voltages up to 1 100V	IE 2	90°C	
b)	suitable for voltages above 1 100V	IE 3	90°C	
c)	oil resisting and flame retardant insulation suitable for voltage up to 1 100Y	IE 4	90°C	
iii)	Silicon rubber insulation	IE 5	150°C	
iv)	Sheath for general service			
a)	normal duty	SE 1	60°C	
b)	heavy duty	SE 2	60°C	
v)	Heat resisting, oil resisting and flame retardant elastomeric sheath:			
a)	normal duty	SE 3	90°C	
b)	heavy duty	SE 3	90°C	
vi)	Silicon rubber sheath	SE 5	150°C	