

VOLTAGE TEST AFTER INSTALLATION

SANS 97: Electric cables-Impregnated paper-insulated metal-sheathed cables for rated voltages 3.3/3.3 kV to 19/33 kV (excluding pressure assisted cables) Voltage test after laying, jointing and terminating for cables manufactured to this standard as stipulated in Appendix A.3.3.

Voltage test for cables after laying, jointing and terminating

After cables manufactured in accordance with this standard have been laid, jointed and terminated, they can, if required, be subjected to the appropriate test voltage given in table below. The test voltage should be applied between conductors and between each conductor and metal sheath, which should be held at earth potential. In each case, the voltage should be increased steadily to the stipulated value and maintained at this level for 15 min.

In-situ test voltage

Value in kilovolts

1	2	3	4	5	6	7
Voltage rating of cable	Test voltage					
	Belted cables				Single-core and Screened cables	
	Between conductors		From conductor To sheath		Between conductor and Sheath or screen	
	a.c	d.c	a.c	d.c	a.c	d.c
3.3/3.3	7	9	7	9	-	-
3.8/6.6	13	19	8	11	8	11
6.6/6.6	13	19	13	19	-	-
6.35/11	22	31	13	19	13	19
11/11	22	31	22	31	-	-
12.7/22	-	-	-	-	25	36
19/33	-	-	-	-	38	54

electric
african cables