



CABLE DESCRIPTION

3 circular stranded plain soft copper conductors, XLPE insulated, layed up with one circular stranded tinned soft copper earthing conductor, collectively screened with an aluminium polyethylene laminate (APL) tape, polyethylene sheathed underground supply cable.

INSTALLATION INFORMATION

- Use of intermediate Voltage allows increased power transfer over long distances with smaller conductor sizes, eg for loads typically 25 kVA this represents a considerable saving when compared to conventional systems.
- Underground cable - with a specially adapted tractor, the cable can be buried with minimum labour, and thus least cost.
- Screened cable construction for ease of fault location.
- Buried cable results in a "clean" landscape - no poles or overhead lines to hinder farm vehicles.

PROPERTIES

Specification	: SANS 1507-4
Temperature Range	: -10°C to 90°C
Voltage Rating	: 1900 / 3300 V
Core Identification	: Red, Yellow, Blue and bare tinned earth conductor
Packaging	: Available on 500 metre wooden drums

TECHNICAL DATA

ELECTRICAL PROPERTIES			
CABLE SIZE (mm ²)	10	16	25
Phase Conductor Resistance* (Ω/km)	1,83	1,15	0,73
Earth Conductor Resistance* (Ω/km)	1,83	1,15	0,73
Impedance (Z) (Ω/km)	2,34	1,47	0,93
Current Rating** (A)	80	105	135
1 Second Short Circuit Rating (kA)	0,82	2,29	3,57

* DC @ 20°C

** In ground. Soil temperature 25°C. Depth of lay 500mm. Soil thermal resistivity 1,2 K.m/W. Operating temperature 90°C

PHYSICAL PROPERTIES			
CABLE SIZE (mm ²)	10	16	25
Phase Conductor Construction (no. x diam.) (mm)	7 x 1,33	7 x 1,67	19 x 1,38
Earth Conductor Construction (no. x diam.) (mm)	7 x 1,33	7 x 1,67	19 x 1,38
Insulation Thickness (nominal) (mm)	2,1	2,2	2,2
Aluminium Screen Thickness (mm)	0,15	0,15	0,15
Sheath Thickness (nominal) (mm)	1,45	1,6	2,0
Cable Diameter (nominal) (mm)	20,5	21,3	26,4
Approximate Cable Mass (kg/km)	545	990	1100
Minimum Bending Radius (mm)	205	210	260