



### CABLE DESCRIPTION

Circular stranded hard-drawn copper phase conductor, XLPE insulated with concentrically arranged bare earth conductors. Polyethylene sheathed 600/1000 V house service connection cable. Nylon ripcord laid under sheath. Manufactured to SANS 1507 and NRS 062/1998.

- Small overall diameter - concentric construction
- Lower mass - due to smaller diameter - no steel wire armour
- Increased safety - reliable earthing
- Improved reliability - UV stable sheath and core insulation
- Tamper and vandal proof - unauthorised access to phase conductor inhibited by concentric layer
- Easy strip with nylon ripcord

### TECHNICAL DATA

ELECTRICAL PROPERTIES		
CABLE SIZE (mm <sup>2</sup> )	4	10
Phase Conductor Resistance (Ohm/km) DC @ 20 °C	4,80	1,90
Phase Core Impedance (Z) (Ohm/km)	5,88	2,34
Current Rating (A)*	30	50
Symmetrical Short Circuit Rating for 1s in kA	0,572	1,431

\* In air at 30 °C ambient with maximum conductor temperature of 90 °C.

MECHANICAL PROPERTIES		
CABLE SIZE (mm <sup>2</sup> )	4	10
Phase Conductor {No. x OD} (mm)	7 x 0,92	7 x 1,45
Nominal Insulation Thickness (mm)	1,0	1,0
Earth Size (mm <sup>2</sup> )	4	10
Earth Conductor {No. x OD} (mm)	8 x 0,85	18 x 0,85
Nominal Sheath Thickness (mm)	1,4	1,4
Approximate Cable OD (mm)	9,0	11,0
Approximate Cable Mass (kg/km)	121	249

INSTALLATION DATA								
Span (m)		10	20	30	40	50	Based on	
							UTS**	MWT***
SAG* (mm)	4 mm <sup>2</sup>	40	165	370	650	1020	1480	370
SAG* (mm)	10 mm <sup>2</sup>	35	140	310	550	870	3600	900

\* Assuming worst conditions, i.e. temperature -5,5°C with simultaneous wind speed of 31m/s and measured at midspan.

\*\* UTS = Minimum ultimate tensile strength. Safety factor of 2,5.

\*\*\* MWT = Minimum working tension.