AIRDAC SNE
HOUSE SERVICE CONNECTING CABLE
WITH OR WITHOUT PILOT CORES

CABLE DESCRIPTION

Circular stranded hard drawn copper phase conductor, XLPE insulated with concentrically arranged identified neutral and bare earth conductors. Polyethylene sheathed 600/1000 V service connection cable. Nylon ripcord laid under sheath. Manufactured to SANS 1507 and NRS 063..

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

TECHNICAL DATA

ELECTRICAL PROPERTIES		
CABLE SIZE (mm²)	**10**	**16**
Phase Conductor Resistance (Ohm/km) DC @ 20 °C	1,90	1,20
Earth Size (mm²)	7,5	10
Neutral Size (mm²)	10	16
Phase Core Impedance (Z) (Ohm/km)	2,34	1,47
Current Rating* (A)	50	70
Pilot Cores (No. x OD) Solid (mm)	2 x 1,13	2 x 1,13

* In air, with 30 °C ambient with maximum conductor temperature 90 °C

MECHANICAL PROPERTIES		
CABLE SIZE (mm²)	**10**	**16**
Phase Conductor (No. x OD)(mm)	7 x 1,35	7 x 1,67
Nominal Insulation Thickness (mm)	1,0	1,0
Neutral Conductor (No. x OD)(mm)	7 x 1,33	7 x 1,76
Earth Conductor (No. x OD)(mm)	3 x 1,78	3 x 2,20
Nominal Sheath Thickness (mm)	1,6	1,6
Approximate Cable OD (mm)	12,8	14,5
Approximate Cable Mass (kg/km)	320	485

INSTALLATION DATA								
Span (m)		**10**	**20**	**30**	**40**	**50**	**Based on**	
							UTS**	**MWT*****
SAG* (mm)	10 mm²	45	180	400	710	1110	3600	900
SAG* (mm)	16 mm²	40	170	380	670	1050	5760	1440

* Assuming worst conditions, i.e. - 5,5 °C with simultaneous wind speed of 31 m/s and measured at midspan.
** UTS = Minimum ultimate tensile strength.
*** MWT = Minimum working tension.