

Application:

For use in electricity supply to houses, 600V.
Strung in air from pole top distribution box to house's main circuit breaker.

Voltage Rating: 600V

Specification: SANS1507-6

Construction:

Centre phase core, hard drawn Cu stranded, red XLPE insulated UV stable phase core, concentric layer bare earth wires, UV stable PE outer sheath.

SIZE CODE	LV (conductor size)				
Phase conductor size	mm ² nom	4	6	10	16
Phase conductor diameter	mm nom	2,5	3,1	3,9	4,9
Phase insulation diameter	mm nom	3,9	4,4	5,2	6,5
Concentric layer diameter	mm nom	5,2	6,1	7,3	9,1
Neutral area	mm ²	4,0	6,0	10,0	16,0
Cable diameter	mm nom	8,1	9,1	10,4	12,2
Cable mass	kg/m nom	0,11	0,15	0,23	0,34
Gross mass (500m)	kg nom	78	102	160	219
Bending radius	mm Min.	81	91	104	122
Maximum pulling force	kN	0,14	0,21	0,34	0,55

Current rating

In air	Amps	30	45	50	70
In Ground	Amps	61	90	101	130

Resistance: dc @ 20°C

Phase core:	Ω/km max	4,75	3,18	1,89	1,19
Neutral/Earth:	Ω/km max	4,61	3,08	1,83	1,15

Resistance: ac @ 90°C

Phase core:	Ω /km max	5,88	3,93	2,34	1,49
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Insulation Resistance	MΩ /km min	100			
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Reactance	Ω /km	0,112	0,111	0,108	0,105
Impedance	Ω /km	5,880	3,934	2,344	1,497
Capacitance	μF/km	0,315	0,353	0,451	0,474

Short circuit ratings

Symmetrical	kA (1sec)	0,54	0,81	1,36	2,16
Earth fault	kA (1sec)	0,69	1,14	1,75	2,74

(Single Phase) Volt Drop	mV/A/m	11,76	7,86	4,68	2,99
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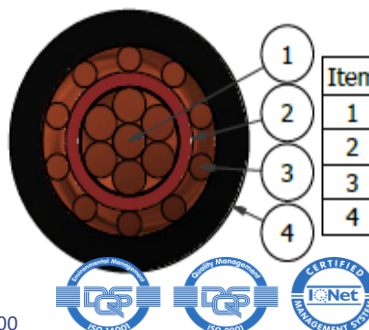
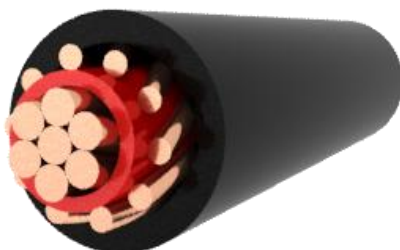
Standard Installation conditions

Ambient air temperature: 30°C

Maximum conductor temperature: 90°C

Soil temperature: 30°C, depth: 0.5m

Soil thermal resistivity: 1.2K.m/Ω



Item	Description
1	HD Copper conductor
2	XLPE Insulation red UV stable
3	Bare Copper concentric wires
4	PE sheath UV stable