

Application:

For use in electricity supply to houses, 600V.
Strung in air from pole top distribution box to houses
pre-paid electricity meter / main circuit breaker.

Voltage Rating: 600V

Specification: SANS 1507-6

Construction:

Centre phase core, hard drawn Cu stranded, red XLPE insulated UV stable, split concentric layer
7x black PE insulated neutral wires + 3 bare Cu earth wires, + PE Filler/Spacer cores,
UV stable PE outer sheath.

SIZE CODE	LV (phase core size) MM SPLIT CON					
Conductor size	mm ² nom	4	6	10	16	25
Conductor diameter	mm nom	2.5	3.0	3.8	4.8	6.4
Insulation diameter	mm nom	4.1	4.8	5.6	6.6	8.3
Concentric diameter	mm nom	6.6	7.4	8.9	10.7	13.3
Neutral area	mm ²	4.0	6.0	10.0	16.0	25.0
Earth area	mm ²	2.5	4.0	6.0	10.0	16.0
Filler construction	mm	1.6	1.6	1.6	1.6	1.6
Cable diameter	mm Max.	9.6	10.6	11.7	13.9	16.9
Cable mass	kg/m nom	0.12	0.21	0.31	0.47	0.73
Gross mass (500m)	kg nom	98	141	200	281	477
Bending radius	mm Min.	96.0	106.0	117.3	138.9	169.0

Current rating

In air	Amps	30	45	50	70	95
In Ground	Amps	60	90	100	130	175

Resistance: dc @ 20°C

Phase core:	Ω/km max	4.75	3.18	1.89	1.19	0.75
Neutral:	Ω/km max	4.61	3.08	1.83	1.15	0.726
Earth:	Ω/km max	7.41	4.61	3.08	1.83	1.15

Resistance: ac @ 90°C

Phase core:	Ω /km max	5.88	3.93	2.33	1.47	0.93
Insulation Resistance	MΩ /km Min.	100				

Reactance	Ω /km	0.151	0.144	0.138	0.132	0.127
Impedance	Ω /km	5.880	3.930	2.338	1.473	0.937
Capacitance	μF/km	0.314	0.370	0.451	0.487	0.560

Short circuit ratings

Symmetrical	kA (1sec)	0.54	0.81	1.36	2.16	3.42
(Single Phase) Volt Drop	mV/A/m	11.76	7.86	4.67	2.94	1.86

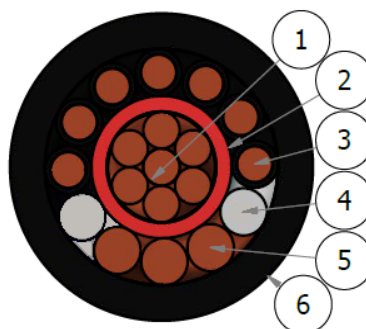
Standard Installation conditions

Ambient air temperature: 30°C

Soil thermal resistivity: 1.2K.m/Ω

Soil temperature: 30°C, depth: 0.5m

Maximum conductor temperature: 90°C



Item	Description
1	HD Copper conductor
2	XLPE insulation red UV stable
3	Black PE covered neutral wires
4	PE cores
5	Bare earth conductor wires
6	PE sheath UV stable

Revision: R01 (13/07/2020)

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