

## 4 Core

90° Shaped Solid Aluminium, PVC, PVC, SWA, FRPVC / LHFRPVC.

### Application:

For use in power circuits of 600/1 000V earthed systems. Installed in cable trays, ducts and underground.

### Construction:

4 Core, solid Aluminium sector shaped conductor, PVC insulated, PVC bedding, steel wire armoured and flame retardant PVC or low halogen FRPVC sheath.

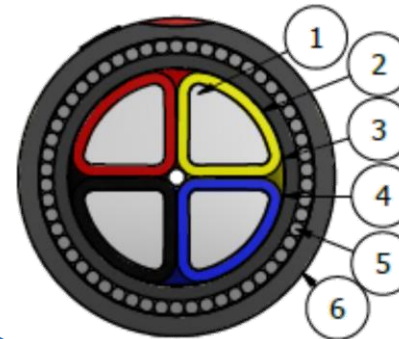
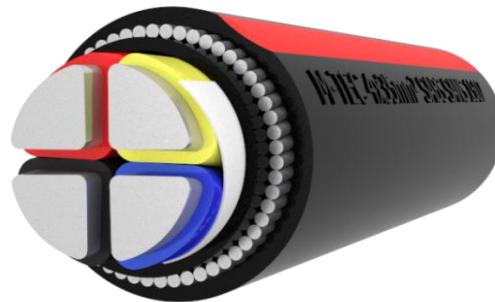
Voltage Rating: 600/1 000V

Specification: SANS 1507-3

### SIZE CODE

### AP 4x(conductor size)FR/LH1kV

Conductor size	Conductor depth	Insulation depth	Bedding diameter	Armour diameter	Cable diameter	Cable mass	Cable Gross mass	Bending radius	Maximum pulling force on conductors combined	Current rating			Reactance	Resistance		Impedance	Capacitance	Short circuit ratings		3 Phase Volt drop
										Amps	Amps	Amps		Ω/km max	Ω/km max			Symmetrical	Earth fault	
mm <sup>2</sup> Nom.	mm Nom.	mm Nom.	mm Nom.	mm Nom.	mm Nom.	kg/m Nom.	300m Nom.	mm min.	N	air	ground	ducts	Ω/km	dc @ 20°C	ac @ 70°C	Ω/km	μF/km	kA (1sec)		mV/A/m
25	5.2	7.7	20.5	23.7	27.2	1.4	590	272	265	80	90	73	0.088	1.20	1.44	1.444	0.569	1.9	2.6	2.50
35	6.2	8.7	22.7	25.9	29.6	1.7	661	296	371	99	108	87	0.085	0.87	1.04	1.046	0.655	2.7	4.6	1.81
50	7.2	10.1	26.0	29.2	32.9	2.0	765	329	530	119	129	104	0.085	0.64	0.77	0.775	0.655	3.8	5.2	1.34
70	8.7	11.6	29.8	33.8	37.9	2.8	1,035	379	741	151	158	130	0.082	0.44	0.53	0.538	0.770	5.3	4.9	0.93
95	10.3	13.6	34.3	38.3	42.9	3.5	1,239	429	1,006	186	192	157	0.078	0.32	0.38	0.392	0.791	7.2	8.6	0.68
120	11.6	14.9	37.3	41.3	46.3	4.0	1,392	463	1,271	216	219	179	0.077	0.25	0.30	0.314	0.880	9.1	7.6	0.54
150	12.8	16.5	41.5	46.5	51.5	5.1	1,795	515	1,589	250	245	201	0.078	0.21	0.25	0.259	0.868	11.4	13.3	0.45
185	14.4	18.5	46.0	51.0	56.4	6.0	2,069	564	1,959	287	278	229	0.077	0.16	0.20	0.211	0.874	14.1	14.4	0.37
240	16.5	21.1	51.8	56.8	62.6	7.3	2,447	626	2,542	344	324	268	0.076	0.13	0.15	0.168	0.909	18.2	16.0	0.29
300	18.5	23.5	57.3	62.3	68.5	8.6	2,841	685	3,177	396	366	304	0.076	0.10	0.12	0.142	0.931	22.8	17.7	0.25



Item	Description
1	Solid Aluminium Conductor
2	Insulation
3	Separator / Binding Tape
4	Bedding
5	Steel Wire Armouring
6	Sheathing

Revision: R02 11/11/2015