

4 Core Stranded Aluminium, PVC, PVC, SWA+ECC, FRPVC / LHFRPVC.

Application:

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

Construction:

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

Voltage Rating: 600 / 1 000V

Specification: SANS 1507-3

SIZE CODE

APS 4x(conductor size) FRE / LHE 1kV

Conductor size	Conductor depth	Insulation depth	Bedding diameter	Armour diameter	Cable diameter	Cable mass	Cable gross mass	Bending radius	Pulling force Max.	Current rating			Reactance	Resistance		Impedance	Capacitance	Short circuit ratings		3 Phase volt drop
										Amps				Ω/km max				Symmetrical	Earth fault	
										air	ground	ducts		dc @ 20°C	ac @ 70°C					
25	5.8	8.2	21.6	24.1	27.5	1.3	546	275	265	80	90	73	0.087	1.20	1.44	1.444	0.635	1.9	11.0	2.50
35	6.8	9.2	23.9	27.1	27.1	1.8	686	271	371	99	108	87	0.084	0.87	1.04	1.046	0.718	2.7	15.7	1.81
50	7.8	10.6	27.3	30.5	30.5	2.2	812	305	530	119	129	104	0.084	0.64	0.77	0.775	0.720	3.8	18.0	1.34
70	9.5	11.3	31.4	35.4	40.0	3.0	1 101	400	741	151	158	130	0.076	0.44	0.53	0.538	1.262	5.3	26.1	0.93
95	11.1	14.3	36.2	40.2	45.1	3.7	1 315	451	1 006	186	192	157	0.078	0.32	0.38	0.392	0.870	7.2	29.6	0.68
120	12.5	15.7	39.8	44.8	49.7	4.7	1 609	497	1 271	216	219	179	0.077	0.25	0.30	0.313	0.967	9.1	40.7	0.54
150	14.0	17.6	44.2	49.2	54.1	5.4	1 891	541	1 589	250	245	201	0.077	0.21	0.25	0.259	0.962	11.4	44.7	0.45
185	15.6	19.7	56.1	61.1	67.3	7.0	2 372	673	1 959	287	278	229	0.077	0.16	0.20	0.211	0.963	14.1	56.7	0.37
240	18.9	23.1	59.4	64.4	70.6	8.3	2 757	706	2 542	344	324	268	0.075	0.13	0.15	0.168	1.107	18.2	59.9	0.29
300*	21.2	26.1	66.6	72.9	79.0	10.7	3 472	790	3 177	396	366	304	0.075	0.10	0.12	0.142	1.075	22.8	84.9	0.25

Note: * These cables are manufactured with circular conductors.



Item	Description
1	Stranded Aluminium conductor
2	Insulation
3	Separator / binding tape
4	Bedding
5	ECC conductor (tinned Copper wire)
6	Galvanized steel wire armouring
7	Sheathing

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