

Single Core

Aluminium, PVC insulated, unarmoured, FRPVC or LHFRPVC sheathed

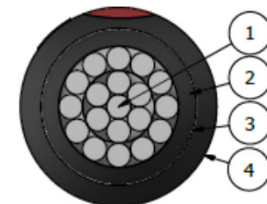
Application:

For use in power circuits of 600 / 1000V systems.
Installed in cable trays and ducts.

Construction:

Single core, circular aluminium stranded conductor, PVC insulated, flame retardant PVC or low halogen flame retardant PVC sheath.

Voltage Rating: 600 / 1 000V			Specification: SANS 1507-3												
SIZE CODE			APP 1x(conductor size) FR1kV												
Conductor size	Conductor diameter	Insulation diameter	Cable diameter	Cable mass	Cable Gross mass	Bending radius	Current rating		Reactance	Resistance		Impedance	Capacitance	Symmetrical Short circuit ratings	3 Phase volt drop
							Trefoil formation	Amps		dc @ 20°C	ac @ 70°C				
mm ² Nom	mm ² Nom	mm Nom.	mm Nom.	kg/m Nom.	300m Nom.	mm Min.	air	ducts	Ω/km	Ω/km	μF/km	kA (1sec)	mV/A/m		
25	6.0	8.2	11.5	0.19	258	115	89	62	0.106	1.200	1.442	1.446	0.647	1.85	2.50
35	7.1	9.2	12.5	0.24	271	125	111	78	0.101	0.868	1.043	1.048	0.747	2.56	1.81
50	8.2	11.0	14.7	0.31	293	147	128	90	0.102	0.641	0.770	0.777	0.737	3.46	1.33
70	9.9	12.3	16.0	0.40	420	160	165	116	0.095	0.443	0.532	0.541	0.875	5.01	0.92
95	11.7	14.4	18.1	0.52	456	181	203	142	0.090	0.320	0.384	0.395	0.896	6.93	0.67
120	13.1	16.5	20.2	0.60	481	202	237	166	0.090	0.253	0.304	0.317	0.991	8.77	0.53
150	14.6	17.7	21.4	0.74	571	214	274	192	0.087	0.206	0.248	0.262	0.983	10.77	0.43
185	16.3	19.7	23.4	0.90	669	234	316	221	0.084	0.164	0.197	0.214	0.988	13.53	0.34
240	18.3	23.1	27.2	1.16	798	272	375	263	0.087	0.125	0.150	0.174	1.009	17.75	0.26
300	21.2	25.8	29.9	1.41	922	299	435	305	0.083	0.100	0.120	0.146	1.063	22.18	0.21
400	23.9	29.3	33.4	1.75	1024	334	507	355	0.083	0.078	0.093	0.125	1.102	28.51	0.16
500	27.2	32.6	37.1	2.19	1208	371	590	413	0.081	0.061	0.073	0.109	1.159	36.66	0.13
630	30.4	36.2	40.8	2.68	1404	408	680	476	0.080	0.047	0.056	0.098	1.286	47.30	0.10



Item	Description
1	Aluminium Conductor
2	Insulation
3	Separator Tape (if applicable)
4	Sheathing



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