

Single Core
Aluminium, XLPE Silane insulated, Unarmoured, FRPVC sheathed.

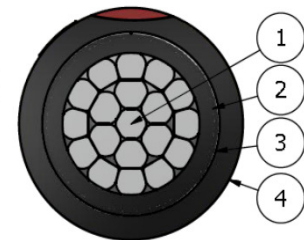
Application:
For use in power circuit systems of 600 / 1000V. Installed in cable trays and ducts.

Voltage Rating: 600 / 1000V

Specification: SANS 1507-4

Construction:
Single core, circular Aluminium stranded conductor, XLPE silane insulated, FRPVC sheath.

SIZE CODE		APSX 1x(conductor size)FR 1kV															
Conductor size	Conductor diameter	Insulation diameter	Cable diameter	Cable mass	Gross mass 1000m	Bending radius	Maximum pulling force	Current rating		Resistance		Reactance	Impedance	Capacitance	Short circuit Symmetrical	Volt Drop	
								(A)	(A)	dc @ 20°C	ac @ 90°C					Ω /km	Ω /km
mm ² Nom	mm Nom.	mm Nom.	mm Nom.	kg/m Nom.	kg Nom.	mm Min.	kg	air	ducts	dc @ 20°C	ac @ 90°C	Ω /km	Ω /km	μF/km	kA (1sec)	(mV)/A/m	(mV)/A/m
25	6.00	7.85	11.23	0.16	523	90	60	125	100	1.20	1.54	0.105	1.542	0.517	2.19	2.40	2.67
35	7.10	8.95	12.34	0.20	560	99	84	145	116	0.87	1.11	0.100	1.118	0.600	3.03	1.74	1.93
50	8.15	10.20	13.99	0.26	622	112	120	176	141	0.64	0.82	0.099	0.831	0.696	4.10	1.28	1.43
70	9.95	12.20	15.97	0.34	705	128	168	206	165	0.44	0.58	0.095	0.583	0.814	5.93	0.89	1.00
95	11.80	13.95	17.70	0.43	794	142	228	253	202	0.32	0.43	0.088	0.437	1.198	8.21	0.64	0.74
120	13.25	15.75	19.50	0.53	886	156	288	296	237	0.25	0.35	0.087	0.361	0.804	10.39	0.51	0.61
150	14.55	17.45	21.21	0.63	987	170	360	343	274	0.21	0.30	0.086	0.316	0.764	12.76	0.41	0.53
185	15.90	19.20	22.95	0.76	1,119	184	444	395	316	0.16	0.27	0.085	0.280	0.736	16.03	0.33	0.46
240	18.90	22.10	26.26	0.98	1,341	210	576	471	377	0.13	0.22	0.083	0.234	0.888	21.03	0.25	0.38
300	21.20	25.00	28.67	1.18	1,402	229	720	544	435	0.10	0.21	0.081	0.221	3.341	26.28	0.20	0.36
400	23.90	27.95	32.15	1.48	1,838	257	960	640	512	0.08	0.16	0.080	0.180	0.887	33.78	0.16	0.28
500	27.20	31.30	35.87	1.87	2,233	287	1,200	730	584	0.06	0.14	0.079	0.158	0.989	43.44	0.12	0.24
630	31.20	35.35	39.96	2.34	2,703	320	1,512	834	667	0.05	0.11	0.077	0.134	1.112	56.04	0.09	0.19



Item	Description
1	Aluminium Conductor
2	Insulation
3	Separator Tape
4	Sheathing

