

## Single Core

Aluminium, XLPE silane insulated, unarmoured, HFFR sheathed.

### Application:

For use in power circuit systems of 600 / 1 000V. Installed in cable trays and ducts.

### Construction:

Single core, circular Aluminium stranded conductor, XLPE silane Insulated, halogen free flame retardant sheath.

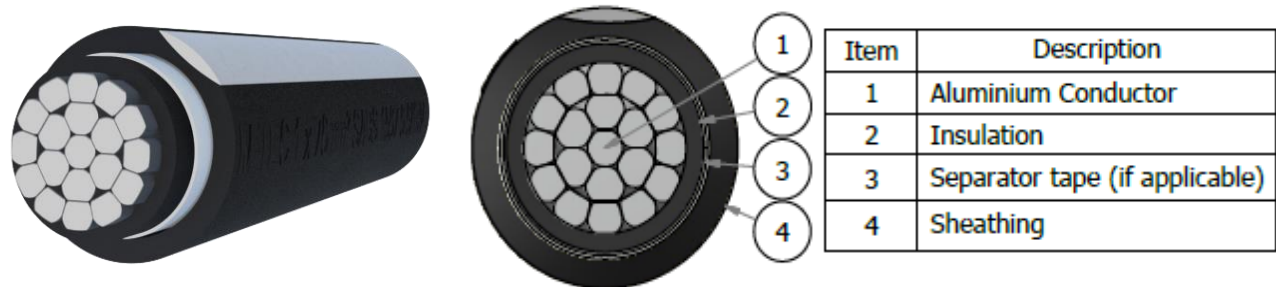
Voltage Rating: 600 / 1000V

Specification: SANS 1507-5

SIZE CODE		APPX 1x(conductor size)ZH 1kV															
Conductor size	Conductor diameter	Insulation diameter	Cable diameter	Cable mass	Gross Mass 1000m	Bending radius	Maximum pulling force on conductor	Current rating (Amps) Trefoil in		Resistance Ω/km max		Reactance Ω /km	Impedance Ω /km	Capacitance μF/km	Short circuit symmetrical kA (1sec)	Volt drop	
								air	ducts	dc @ 20°C	ac @ 90°C					Single phase	3 Phase
mm <sup>2</sup> Nom	mm Nom.	mm Nom.	mm Nom.	kg/m Nom.	kg Nom.	mm Min.	kg										(mV)/A/m
25	6.05	7.85	11.23	0.16	520	90	60	125	100	1.20	1.54	0.104	1.542	0.225	2.19	2.40	2.67
35	7.15	8.95	12.41	0.20	558	99	84	145	116	0.87	1.11	0.100	1.118	0.252	3.03	1.74	1.93
50	8.25	10.20	14.08	0.26	620	113	120	176	141	0.64	0.82	0.099	0.829	0.260	4.10	1.28	1.43
70	9.95	12.20	16.06	0.34	703	128	168	206	165	0.44	0.57	0.095	0.580	0.290	5.93	0.89	0.99
95	11.80	13.90	17.79	0.43	792	142	228	253	202	0.32	0.42	0.088	0.429	0.338	8.21	0.64	0.73
120	13.10	15.70	19.59	0.52	884	157	288	296	237	0.25	0.34	0.088	0.352	0.345	10.39	0.51	0.59
150	14.80	17.45	21.30	0.62	985	170	360	343	274	0.21	0.29	0.085	0.303	0.381	12.76	0.41	0.50
185	15.50	19.20	23.04	0.76	1,116	184	444	395	316	0.16	0.25	0.086	0.264	0.350	16.03	0.33	0.43
240	18.90	22.00	26.36	0.98	1,338	211	576	471	377	0.13	0.20	0.083	0.217	0.417	21.03	0.25	0.35
300	21.20	24.85	29.14	1.18	1,404	233	720	544	435	0.10	0.17	0.082	0.189	0.437	26.28	0.20	0.30
400	23.90	27.95	32.25	1.47	1,834	258	960	640	512	0.08	0.14	0.080	0.165	0.464	33.78	0.16	0.25
500	27.20	31.30	35.98	1.87	2,228	288	1,200	730	584	0.06	0.12	0.079	0.145	0.496	43.44	0.12	0.21
630	31.20	35.35	40.07	2.34	2,697	321	1,512	834	667	0.05	0.10	0.077	0.124	0.555	56.04	0.09	0.17

### Cable Identification:

FRPVC (red stripe), LHFRPVC (blue stripe), HFFR (white stripe), PE (no stripe).



Revision: R01 13/10/2014