

3 Core 120° Shaped Solid Aluminium, XLPE, HFFR, SWA, HFFR.

Application:

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

Construction:

3 Core, 120° Sector shaped solid Aluminium conductor, XLPE insulated, halogen free flame retardant bedding, steel wire armoured and halogen free flame retardant sheath.

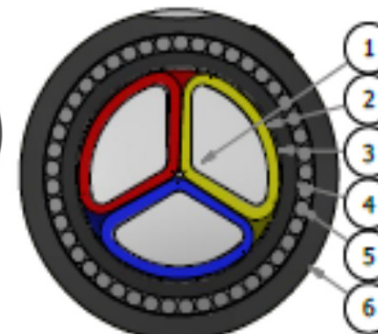
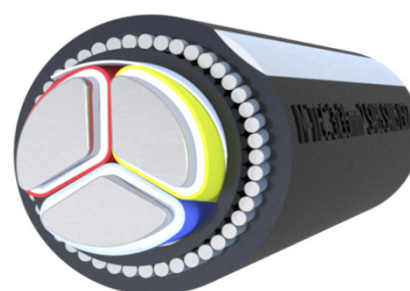
Voltage Rating: 600 / 1 000V

Specification: SANS 1507-5

SIZE CODE

APX 3x (size)ZH 1kV

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				Ω/km max				Symmetrical	Earth fault	
mm ² 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 @ 90°C	Ω /km	μF/km	kA (1sec)	mV/A/m	
25	4.6	6.4	18.0	20.6	24.1	1.0	452	241	165	100	107	87	0.086	1.20	1.54	1.541	0.421	2.4	2.9	2.67
35	5.4	7.2	15.3	22.7	26.3	0.9	440	263	232	119	126	102	0.084	0.87	1.11	1.116	0.483	3.3	2.6	1.93
50	6.3	8.3	22.8	25.3	29.0	1.2	517	290	331	147	153	126	0.083	0.64	0.82	0.826	0.504	4.8	3.0	1.43
70	7.6	9.8	26.4	29.6	33.3	1.5	612	333	463	185	186	153	0.082	0.44	0.57	0.574	0.546	6.7	3.5	0.99
95	9.0	11.2	30.2	34.2	38.3	2.1	777	383	629	223	223	186	0.080	0.32	0.41	0.418	0.635	9.0	5.3	0.72
120	10.2	12.6	33.4	37.4	41.9	2.4	891	419	794	266	256	214	0.079	0.25	0.32	0.334	0.662	11.4	5.8	0.58
150	11.3	14.0	36.9	40.9	45.8	3.0	1,064	458	993	304	288	237	0.080	0.21	0.26	0.276	0.648	14.3	7.5	0.48
185	12.6	15.9	41.5	46.5	51.4	3.7	1,267	514	1,225	352	326	274	0.080	0.16	0.21	0.225	0.605	17.6	8.9	0.39
240	14.5	18.0	46.5	51.5	56.8	5.0	1,653	568	1,589	418	381	316	0.079	0.13	0.16	0.179	0.651	22.8	12.8	0.31
300	16.3	19.9	51.2	56.2	61.9	5.8	1,898	619	1,986	485	428	358	0.079	0.10	0.13	0.151	0.698	28.5	14.1	0.26



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