

3 Core 120° Shaped Solid Aluminium, XLPE, PVC, SWA, FRPVC

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, PVC Bedding, Steel Wire Armoured and Flame Retardant FRPVC Sheath.

Voltage Rating: 600/1 000V

Specification: SANS 1507-4

SIZE CODE

APX 3x (size)FR/LH 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	
										air	ground	ducts		Ω /km	dc @ 20°C					
mm ² Nom.	mm Nom.	mm Nom.	mm Nom.	mm Nom.	mm Nom.	kg/m Nom.	300m Nom.	mm min.	N											
25	4.6	6.4	18.0	20.5	23.9	0.99	455	239	165	100	107	87	0.095	1.20	1.54	1.541	0.421	2.4	2.9	2.67
35	5.4	7.2	15.3	17.8	21.2	0.95	443	212	232	119	126	102	0.076	0.87	1.11	1.115	0.483	3.3	2.6	1.93
50	6.3	8.3	18.3	20.8	24.3	1.20	520	243	331	147	153	126	0.076	0.64	0.82	0.825	0.504	4.8	3.0	1.43
70	7.6	9.8	21.4	23.9	27.4	1.52	616	274	463	185	186	153	0.076	0.44	0.57	0.573	0.546	6.7	3.5	0.99
95	9.0	11.2	24.8	28.0	31.7	2.08	782	317	629	223	223	186	0.076	0.32	0.41	0.417	0.635	9.0	5.3	0.72
120	10.2	12.6	27.6	30.8	34.9	2.46	896	349	794	266	256	214	0.076	0.25	0.32	0.333	0.662	11.4	5.8	0.58
150	11.3	14.0	28.5	32.5	36.6	3.04	1,070	366	993	304	288	237	0.071	0.21	0.26	0.273	0.648	14.3	7.5	0.47
185	12.6	15.9	33.9	37.9	42.4	3.72	1,275	424	1,225	352	326	274	0.076	0.16	0.21	0.224	0.605	17.6	8.9	0.39
240	14.5	18.0	38.8	43.8	48.7	5.01	1,663	487	1,589	418	381	316	0.076	0.13	0.16	0.177	0.651	22.8	12.8	0.31
300	16.3	19.9	43.1	48.1	53.0	5.83	1,909	530	1,986	485	428	358	0.076	0.10	0.13	0.149	0.698	28.5	14.1	0.26



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