

3 Core 120° Shaped Solid Aluminium, PVC, PVC / LHFRPVC, SWA, FRPVC / LHFRPVC.

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, PVC insulated, PVC / low halogen FRPVC bedding, steel wire armoured and flame retardant PVC / low halogen flame retardant PVC sheath.

Voltage Rating: 600 / 1 000V

Specification: SANS 1507-3

SIZE CODE

AP 3X (conductor size)FR/LH 1kV

Conductor size	Conductor depth	Insulation depth	Bedding diameter	Armour diameter	Cable diameter	Cable mass	Cable gross mass	Bending radius	Current rating			Reactance	Resistance		Impedance	Capacitance	Short circuit ratings		3 Phase volt drop			
									air	ground	ducts		Ω /km	dc @ 20 °C			ac @ 70 °C	Ω /km		μF/km	kA (1sec)	mV/A/m
mm ² Nom.	mm Nom.	mm Nom.	mm Nom.	mm Nom.	mm Nom.	kg/m Nom.	300m Nom.	mm min.														
25	5.3	7.8	19.4	21.9	25.4	1.1	496	254	80	90	73	0.092	1.20	1.44	1.445	0.586	1.9	3.2	2.50			
35	6.3	8.8	21.4	23.9	27.4	1.3	554	274	99	108	87	0.089	0.87	1.04	1.047	0.674	2.7	3.5	1.81			
50	7.4	10.2	24.5	27.7	31.4	1.8	695	314	119	129	104	0.089	0.64	0.77	0.775	0.674	3.8	5.1	1.34			
70	8.9	11.7	27.7	30.9	35.0	2.2	854	350	151	158	130	0.086	0.44	0.53	0.539	0.792	5.3	5.8	0.93			
95	10.5	13.7	32.3	36.3	40.8	3.0	1,111	408	186	192	157	0.085	0.32	0.38	0.394	0.814	7.2	8.5	0.68			
120	11.8	15.1	35.1	39.1	43.6	3.4	1,228	436	216	219	179	0.083	0.25	0.30	0.315	0.904	9.1	9.2	0.55			
150	13.0	16.7	39.0	44.0	49.0	4.5	1,601	490	250	245	201	0.084	0.21	0.25	0.261	0.891	11.4	12.8	0.45			
185	14.6	18.7	43.2	48.2	53.1	5.1	1,810	531	287	278	229	0.084	0.16	0.20	0.214	0.898	14.1	14.1	0.37			
240	16.8	21.3	48.6	53.6	59.0	6.2	2,127	590	344	324	268	0.083	0.13	0.15	0.172	0.933	18.2	15.9	0.30			
300	18.8	23.7	53.8	58.8	64.5	7.3	2,444	645	396	366	304	0.083	0.10	0.12	0.146	0.955	22.8	17.4	0.25			

