

3 Core

120° Shaped solid Aluminium, PVC, PVC, SWA+ECC, FRPVC / LHFRPVC.

Application:

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

Construction:

3 Core, solid Aluminium sector shaped conductor, PVC insulated, PVC bedding, steel wire armoured + earth continuity conductor and flame retardant PVC or low halogen flame retardant PVC sheath.

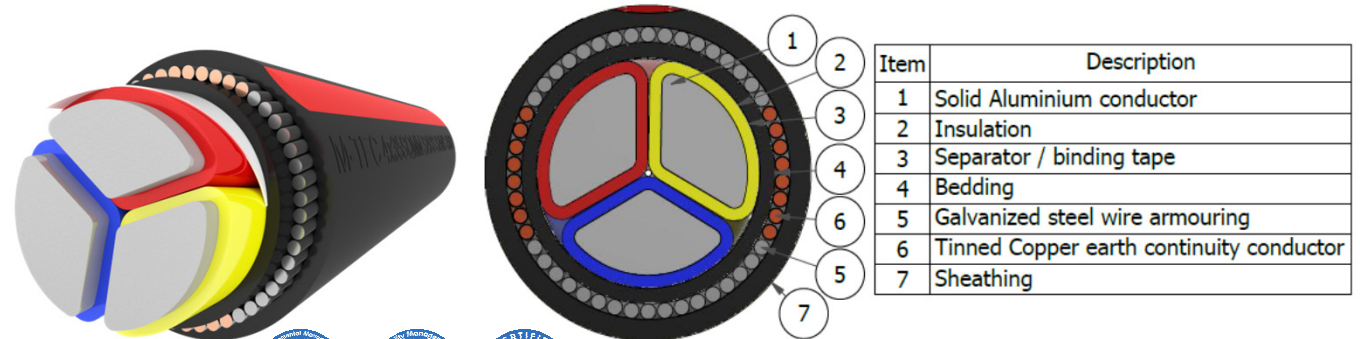
Voltage Rating: 600/1 000V

Specification: SANS 1507-3

SIZE CODE

AP 3x(conductor size)FRE / LHE 1kV

Conductor size	Conductor depth	Insulation depth	Bedding diameter	Armour diameter	Cable diameter	Cable mass	Cable Gross mass	Bending radius	Maximum pulling force	Current rating			Reactance	Resistance		Impedance	Capacitance	Short circuit ratings		3 Phase volt drop
										Amps	Amps	Amps		Ω/km max	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.	kN	air	ground	ducts	Ω /km	dc @ 20°C	ac @ 70°C	Ω /km	μF/km	kA (1sec)		mV/A/m
25	4.7	7.0	17.0	19.4	22.7	1.0	453	227	2.65	80	90	64	0.090	1.20	1.44	1.445	0.558	1.9	3.3	2.50
35	5.5	7.9	19.6	22.8	26.3	1.4	574	263	3.71	98	108	78	0.088	0.87	1.04	1.047	0.614	2.7	4.5	1.81
50	6.4	9.2	22.4	25.6	29.3	1.7	663	293	5.30	120	129	96	0.088	0.64	0.77	0.775	0.612	3.8	6.0	1.34
70	7.8	10.5	25.2	28.4	32.0	2.0	806	320	7.41	151	158	121	0.084	0.44	0.53	0.538	0.748	5.3	9.7	0.93
95	9.2	12.4	29.4	33.4	37.5	2.8	1,046	375	10.06	188	192	150	0.081	0.32	0.38	0.393	0.744	7.2	10.8	0.68
120	10.4	13.5	31.8	35.8	40.3	3.2	1,170	403	12.71	218	219	174	0.079	0.25	0.30	0.314	0.852	9.1	11.4	0.54
150	11.5	15.0	35.0	39.0	43.5	3.7	1,379	435	15.89	248	245	198	0.079	0.21	0.25	0.260	0.836	11.4	11.9	0.45
185	12.9	16.8	39.2	44.2	49.1	4.9	1,727	491	19.59	288	278	230	0.079	0.16	0.20	0.212	0.841	14.1	19.0	0.37
240	14.8	19.1	44.0	49.0	53.9	5.8	2,006	539	25.42	344	324	275	0.078	0.13	0.15	0.169	0.871	18.2	20.5	0.29
300	16.6	21.3	48.6	53.6	58.9	6.9	2,321	589	31.77	396	366	317	0.078	0.10	0.12	0.143	0.891	22.8	24.2	0.25



R00 15/06/2018