

Single Core

Copper, PVC Insulated, AWA, FRPVC / LHFRPVC sheathed.

Application:

For use in power circuit systems of 600 / 1000V. Installed in cable trays and ducts.

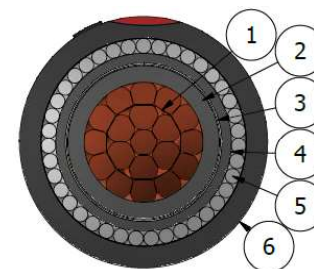
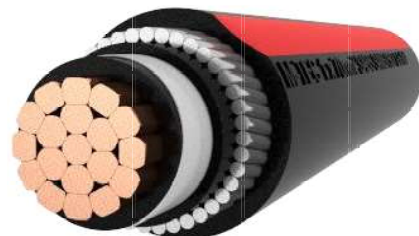
Construction:

Single core, circular Copper stranded conductor, PVC insulated, PVC bedded, Aluminium wire armour, FRPVC sheath.

Voltage rating: 600 / 1000V

Specification: SANS 1507-3

SIZE CODE		CPP 1x(conductor size)FR / LH AWA 1kV																
Conductor size	Conductor diameter	Insulation diameter	Cable diameter	Cable mass	Gross mass 500m	Bending radius	Current rating Trefoil			Resistance Ω/km max		Reactance Ω/km	Impedance Ω/km	Capacitance μF/km	Short circuit		Volt drop	
							A	A	A	dc @ 20°C	ac @ 70°C				Symmetrical	Earth fault	Single phase	3 Phase
mm ² Nom	mm Nom.	mm Nom.	mm Nom.	kg/m Nom.	kg Nom.	mm Min.	air	ground	ducts						kA (1sec)	kA (1sec)	mV/A/m	
25	5.70	8.20	15.86	0.50	301	127	128	142	116	0.727	0.870	0.107	0.876	1.468	2.75	3.70	1.75	1.52
35	6.70	9.20	16.86	0.62	409	135	156	171	139	0.524	0.627	0.098	0.635	1.468	3.82	3.78	1.27	1.10
50	8.20	11.10	18.52	0.78	486	148	189	203	165	0.387	0.463	0.117	0.478	1.468	5.17	3.94	0.96	0.83
70	9.90	12.80	20.17	1.02	620	161	237	249	203	0.268	0.321	0.110	0.340	1.730	7.46	4.23	0.68	0.59
95	11.75	15.10	22.23	1.33	776	178	293	299	244	0.193	0.232	0.105	0.255	1.772	10.36	4.80	0.51	0.44
120	13.10	16.40	24.66	1.66	1 029	197	338	339	278	0.153	0.184	0.102	0.211	1.978	13.07	5.29	0.42	0.36
150	14.75	18.50	26.57	1.99	1 195	213	384	380	311	0.124	0.150	0.100	0.180	1.962	16.13	5.80	0.36	0.31
185	16.30	20.50	28.78	2.42	1 412	230	445	430	354	0.099	0.120	0.098	0.155	1.939	20.18	6.31	0.31	0.27
240	18.85	23.40	33.19	3.13	1 765	266	525	496	410	0.075	0.092	0.097	0.134	2.072	26.52	6.29	0.27	0.23
300	21.15	26.10	37.52	3.97	2 187	300	598	554	459	0.060	0.075	0.099	0.124	2.113	33.27	13.15	0.25	0.21
400	23.85	29.20	41.04	4.93	2 667	328	685	624	517	0.047	0.060	0.097	0.114	2.196	42.54	14.25	0.23	0.20
500	27.15	32.90	45.16	6.18	3 288	361	880	800	660	0.037	0.048	0.094	0.105	2.317	54.63	15.90	0.21	0.18



Item	Description
1	Annealed Copper conductor
2	Insulation
3	Separator tape if applicable
4	Bedding
5	Aluminium wire armour
6	Sheath



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