

4 Core Shaped Copper, XLPE, FRPVC, SWA, FRPVC

Application:

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

Construction:

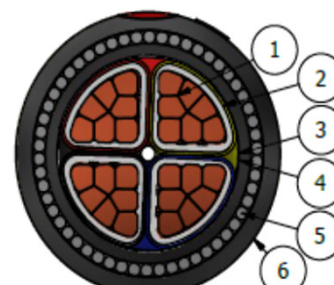
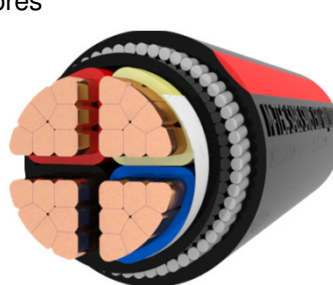
4 Core, Copper stranded sector/circular shaped conductor, XLPE insulated, FRPVC bedding, steel wire armoured and flame retardant PVC sheath.

Voltage Rating: 600/1 000V

Specification: SANS 1507-4

SIZE CODE				CPX 4x(conductor size)FR1kV															
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
									Amps	air	ground		ducts	Ω /km			dc @ 20°C	ac @ 90°C	
mm ² Nom.	mm Nom.	mm Nom.	mm Nom.	mm Nom.	mm Nom.	kg/m Nom.	300m Nom.	mm min.	air	ground	ducts	Ω /km	dc @ 20°C	ac @ 90°C	Ω /km	μF/km	kA (1sec)		mV/A/m
25	5.7	7.6	20.2	22.7	26.2	1.8	744	262	135	140	115	0.087	0.727	0.870	0.874	0.483	2.7	3.6	1.51
35	6.7	8.6	22.5	25.7	29.4	2.4	954	294	165	169	139	0.084	0.524	0.627	0.633	0.556	3.8	5.2	1.10
50	7.8	9.8	25.4	28.6	32.3	3.1	1 118	323	199	201	165	0.084	0.387	0.463	0.471	0.608	5.1	5.9	0.82
70	9.4	11.7	30.1	34.1	38.2	4.4	1 566	382	253	247	204	0.081	0.268	0.321	0.332	0.635	7.4	8.6	0.57
95	11.1	13.4	33.8	37.8	42.3	5.6	1 991	423	312	299	246	0.078	0.193	0.232	0.245	0.738	10.3	9.8	0.42
120	12.5	15.0	37.5	41.5	46.4	6.8	2 405	464	361	340	280	0.077	0.153	0.185	0.200	0.762	13.0	13.5	0.35
150	14.0	17.0	42.3	47.3	52.2	8.7	3 059	522	403	374	312	0.077	0.124	0.151	0.169	0.715	16.0	14.8	0.29
185	15.6	18.9	46.9	51.9	57.2	10.5	3 708	572	463	422	353	0.077	0.099	0.121	0.144	0.724	20.1	16.4	0.25
240	18.9	22.4	52.4	57.4	63.1	13.2	4 597	631	544	487	407	0.075	0.075	0.094	0.120	0.817	26.4	20.9	0.21
300*	21.2	25.0	63.8	70.1	76.3	17.9	6 063	763	616	543	455	0.074	0.060	0.076	0.106	0.842	33.1	29.3	0.18

Note: * The 300SQMM cables are manufactured with circular cores



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

Revision: R01 30/03/2021



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