



3 Core
 Aluminium, XLPE Insulated, FRPVC/ LHFRPVC, SWA, FRPVC/ LHFRPVC (Type A) Armoured
 SIZE CODE: XLA 3x(conductor size) FR / LH 11kV

Application
 For use in power circuits of 6.35 / 11kV earthed systems. Installed in cable trays, ducts and underground.

Construction
 3 Core, Circular Aluminium Stranded Conductor, XLPE Insulated, Individually copper tape screened, PVC bedding, galvanized steel wire armoured, flame retardant or low halogen flame retardant sheathed.

Specification: SANS 1339
Voltage Rating: 6.35 / 11kV

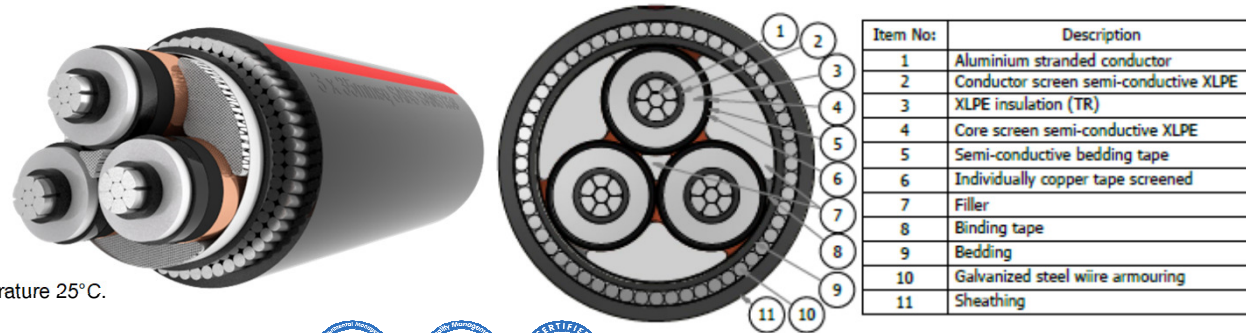
Physical properties and dimensions											Electrical Properties									
Conductor size	Conductor diameter	Insulation diameter	Bedding diameter	Armour			Cable diameter	Cable mass	Gross mass (300m)	Bending radius	Current rating			Resistance Ω /km max		Reactance Ω /km	Impedance Ω /km	Capacitance μ F/km	Short circuit ratings	
				diameter	wire diameter	total area					Amps			dc @ 20°C	ac @ 90°C				Symmetrical	Earth fault
				mm Nom.	mm Nom.	mm ² Min.					air	ground	ducts	dc @ 20°C	ac @ 90°C					
25	6.0	16.2	40.5	45.5	2.5	255.3	50.4	4.05	1 615	604	109	107	88	1.200	1.539	0.116	1.543	0.213	2.2	12.5
35	7.1	17.3	42.8	47.8	2.5	270.0	53.0	4.45	1 754	635	133	126	107	0.868	1.113	0.112	1.118	0.236	3.0	13.2
50	8.2	18.4	45.4	50.4	2.5	289.6	55.7	4.87	1 880	669	162	149	126	0.641	0.822	0.108	0.829	0.258	4.1	14.1
70	9.9	20.1	49.1	54.1	2.5	309.3	59.6	5.46	2 147	715	200	181	153	0.443	0.568	0.103	0.577	0.293	5.9	15.1
95	11.8	21.9	53.3	58.3	2.5	328.9	64.0	6.14	2 352	768	238	220	186	0.320	0.410	0.096	0.421	0.330	8.2	16.0
120	13.1	23.2	56.3	61.3	2.5	353.4	67.4	6.83	2 559	809	280	246	209	0.253	0.324	0.094	0.338	0.356	10.3	17.2
150	14.4	24.9	60.0	66.3	3.15	467.6	72.6	8.25	3 075	871	314	274	237	0.206	0.264	0.091	0.279	0.390	12.7	22.8
185	15.9	26.5	63.5	69.8	3.15	498.8	76.4	9.11	3 333	917	366	312	270	0.164	0.210	0.088	0.228	0.422	15.9	24.3
240	18.3	29.0	69.2	75.5	3.15	537.7	82.5	10.29	3 887	990	428	353	312	0.125	0.160	0.086	0.182	0.473	20.9	26.2
300	20.4	31.3	74.4	80.7	3.15	584.5	88.1	11.54	4 312	1057	485	405	349	0.100	0.128	0.084	0.153	0.519	26.2	28.5
400	23.9	34.0	80.4	86.7	3.15	639.0	94.5	13.55	4 966	1134	542	446	391	0.0778	0.102	0.085	0.133	0.605	33.8	32.5

Cable Identification:
 FRPVC (red stripe), LHFRPVC (blue stripe), HFFR (white stripe), PE (no stripe).

Installation conditions:

- Conductor temperature maximum 90°C
- Depth of laying 800 mm
- Ambient temperature 30°C in free air (shaded)
- Soil thermal resistivity 1.2 K.m/W. • Ground temperature 25°C.

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