

<b>3 Core</b>	
Aluminium, XLPE Insulated, FRPVC / LHFRPVC (Type B) Unarmoured	
SIZE CODE:	XLA3 x(conductor size)UA FR / LH 6.6kV

**Application**  
For use in power circuits of 3.8 / 6.6kV earthed systems. Installed in cable trays and ducts.

**Construction**  
3 Core, circular stranded aluminium conductor, XLPE insulated, individually copper tape screened, flame retardant / low halogen flame retardant PVC sheathed.

**Specification:** SANS 1339

**Voltage Rating:** 3.8 / 6.6kV

Physical properties and dimensions								Electrical Properties										
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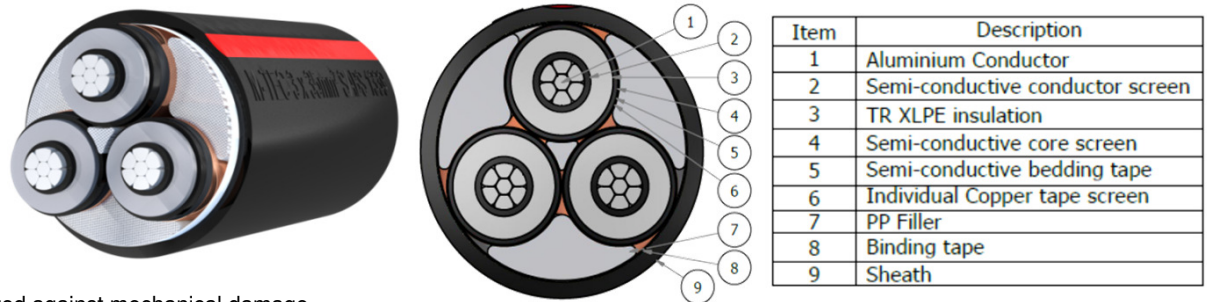
Conductor size	Conductor diameter	Insulation diameter	Cable diameter	Cable mass	Gross mass (300m)	Bending radius	Maximum pulling force on combined conductors	Current rating			Resistance		Reactance	Impedance	Capacitance	Short circuit ratings		Recommended Gland size
								air	ground	ducts	Ω/km max					Symmetrical	Max. Earth fault	
											dc @ 20 °C	ac @ 90 °C						
mm <sup>2</sup> Nom.	mm Nom.	mm Nom.	mm Nom.	kg/m Nom.	kg Nom.	mm min.	kN						Ω/km	Ω/km	μF/km	kA (1sec)	CCG	
25	6.0	13.0	39.9	1.7	857	599	180	109	107	88	1.200	1.539	0.126	1.544	0.276	2.2	1.0	4-40
35	7.1	14.1	42.5	1.9	916	638	252	133	126	107	0.868	1.113	0.121	1.119	0.307	3.0	1.0	4-40
50	8.2	15.2	45.1	2.1	982	677	360	162	149	126	0.641	0.822	0.117	0.830	0.337	4.1	1.0	5-50
70	9.9	16.9	49.0	2.5	1,207	735	504	200	181	153	0.443	0.568	0.109	0.578	0.384	5.9	1.0	5-50
95	11.8	18.7	52.3	2.7	1,267	785	684	238	214	186	0.320	0.410	0.101	0.423	0.434	8.2	1.0	6-63
120	13.1	20.0	55.3	3.1	1,435	830	864	280	246	209	0.253	0.324	0.095	0.338	0.470	10.3	1.0	6-63
150	14.8	21.7	59.2	3.6	1,569	888	1,080	314	274	237	0.206	0.264	0.096	0.281	0.516	12.7	1.0	6-63
185	16.3	23.3	62.8	4.0	1,707	941	1,332	366	312	270	0.164	0.210	0.091	0.229	0.558	15.9	1.0	6-63
240	18.9	26.0	69.1	4.9	1,978	1037	1,728	428	353	312	0.125	0.160	0.091	0.184	0.606	20.9	1.0	7-75
300	21.2	28.7	75.4	6.0	2,540	1131	2,160	485	405	349	0.100	0.128	0.089	0.156	0.623	26.2	1.0	7-75

**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.

Note: Under ground installation is only permitted if the cable is adequately protected against mechanical damage.

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