

3 Core	
Aluminium, XLPE Insulated, FRPVC / LHFRPVC (Type B) Unarmoured	
SIZE CODE:	XLA3 x(conductor size) UA FR / LH 22kV

Application
For use in power circuits of 12.7 / 22kV earthed systems. Installed in cable trays and ducts.

Specification: SANS 1339
Voltage Rating: 12.7 / 22kV

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

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	
								Amps	Resistance		Ω/km	Ω/km				μF/km	Symmetrical		Max. Earth fault
									air	ground									
mm ² Nom.	mm Nom.	mm Nom.	mm Nom.	kg/m Nom.	kg Nom.	mm min.	kN				@ 20°C	@ 90°C							
25	6.0	19.1	53.6	2.6	1,165	804	180	109	107	88	1.200	1.539	0.146	1.545	0.120	2.2	1.0	6-63	
35	7.1	20.2	56.2	2.8	1,252	843	252	133	126	107	0.868	1.113	0.139	1.122	0.133	3.0	1.0	6-63	
50	8.2	21.3	58.8	3.1	1,327	881	360	162	149	126	0.641	0.822	0.134	0.833	0.145	4.1	1.0	6-63	
70	9.9	23.0	62.6	3.5	1,562	939	504	200	181	153	0.443	0.568	0.125	0.582	0.165	5.9	1.0	6-63	
95	11.8	24.9	66.8	4.1	1,718	1003	684	238	214	186	0.320	0.410	0.118	0.427	0.185	8.2	1.0	7-75	
120	13.1	26.2	69.8	4.6	1,919	1048	864	280	246	209	0.253	0.324	0.111	0.343	0.200	10.3	1.0	7-75	
150	14.8	27.9	73.9	5.1	2,115	1109	1,080	314	274	237	0.206	0.264	0.110	0.286	0.218	12.7	1.0	7-75	
185	16.3	29.4	77.5	5.7	2,308	1162	1,332	366	312	270	0.164	0.210	0.104	0.235	0.235	15.9	1.0	7-75	
240	18.9	32.0	83.4	6.6	2,781	1251	1,728	428	353	312	0.125	0.160	0.103	0.190	0.263	20.9	1.0	9-90	
300	21.2	34.3	88.6	7.5	3,058	1329	2,160	485	405	349	0.100	0.128	0.100	0.162	0.288	26.2	1.0	9-90	

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

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

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.
- Revision: R00 22/02/2016



Item	Description
1	Aluminium Conductor
2	Semi-conductive conductor screen
3	TR XLPE insulation
4	Semi-conductive core screen
5	Semi-conductive bedding tape
6	Individual Copper tape screen
7	PP Filler
8	Binding tape
9	Sheath

