

Single Core

Aluminium, XLPE Insulated, Unarmoured, FRPVC / LHFRPVC Sheathed (Type B).

SIZE CODE

XLA1x(Conductor size)UA FR / LH 22kV

Application:

For use in power circuit systems of 12.7 / 22kV. Installed in Cable trays and Ducts.

Construction

1 Core, Circular Stranded Aluminium Conductor, XLPE Insulated, copper tape screened, flame retardant / low halogen flame retardant PVC sheathed

Voltage Rating: 12.7 / 22kV

Specification: SANS 1339

Physical properties and dimensions

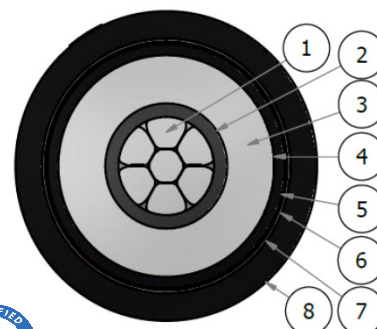
Electrical Properties

Conductor size	Conductor diameter	Insulation diameter	Cable diameter	Cable mass	Gross mass 1000m	Bending radius	Current rating Trefoil			Resistance Ω/km max		Reactance	Impedance	Capacitance	Short circuit	
															symmetrical	Max, earth fault rating
							mm ² Nom	mm Nom.	mm Nom.	mm Nom.	kg/m Nom.				kg Nom.	mm Min.
50	8.25	23.13	27.50	0.92	1,188	550	150	160	125	0.641	0.822	0.142	0.834	0.178	4.0	1.0
70	9.95	24.83	30.50	1.12	1,390	610	185	195	150	0.443	0.568	0.140	0.585	0.199	5.8	1.0
95	11.80	26.68	32.50	1.27	1,538	650	225	230	185	0.320	0.410	0.129	0.430	0.222	8.0	1.0
120	13.10	27.98	33.50	1.41	1,676	670	255	260	205	0.253	0.324	0.122	0.347	0.238	10.2	1.0
150	14.80	29.68	35.50	1.55	1,952	710	290	295	325	0.206	0.264	0.117	0.289	0.258	12.5	1.0
185	16.35	31.23	36.00	1.62	2,023	720	330	325	360	0.164	0.210	0.114	0.239	0.277	15.7	1.0
240	18.90	33.78	40.00	1.90	2,297	800	380	275	300	0.125	0.160	0.108	0.193	0.308	20.6	1.0
300	21.20	36.08	42.00	2.15	2,551	840	430	415	345	0.100	0.128	0.105	0.165	0.336	25.7	1.0
400	23.90	38.50	44.50	2.16	2,559	890	495	465	370	0.078	0.100	0.101	0.142	0.376	33.1	1.0
500	27.20	42.00	45.00	2.98	3,380	900	560	521	415	0.061	0.078	0.097	0.125	0.410	42.5	1.0

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.



Item:	Description
1	Aluminium conductor
2	Semi-conductive conductor screen
3	TR XLPE insulation
4	Semi-conductive core screen
5	Semi-conductive tape
6	Copper tape screen
7	Separator tape
8	Sheathing

Revision: R01 29/02/2016

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