

Single Core

Copper, XLPE insulated, unarmoured, FRPVC / LHFRPVC sheathed (Type B).

SIZE CODE XLUA 1X (Conductor size)FR / LH 11kV

Application:

For use in power circuit systems of 6.35/11kV. Installed in cable trays and ducts.

Voltage Rating: 6.35/11kV

Specification: SANS 1339

Construction

1 Core, circular Copper stranded conductor, XLPE insulated, copper tape screened, flame retardant / low halogen flame retardant PVC sheathed

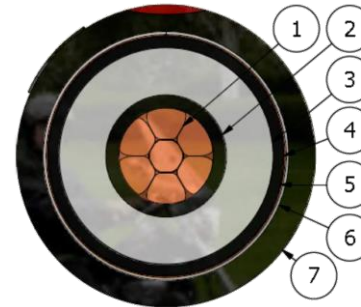
Physical properties and dimensions

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 Ω/km	Impedance Ω/km	Capacitance μF/km	Short circuit	
							air	ducts	dc @ 20°C	ac @ 90°C				Symmetrical kA (1sec)	Max. earth fault rating kA (1sec)
50	8.25	18.90	23.60	1.05	1,346	472	209	167	0.387	0.323	0.132	0.349	0.259	6.4	1.0
70	9.90	20.60	25.30	1.29	1,595	506	257	200	0.268	0.238	0.124	0.268	0.295	9.3	1.0
95	11.80	22.50	27.35	1.61	1,912	547	314	237	0.193	0.197	0.118	0.230	0.332	12.9	1.0
120	13.10	23.70	28.65	1.88	2,183	573	356	270	0.153	0.169	0.112	0.203	0.358	16.2	1.0
150	14.80	25.50	30.56	2.21	2,512	611	409	307	0.124	0.144	0.109	0.180	0.392	20.0	1.0
185	16.30	27.00	32.11	2.60	2,955	642	466	344	0.099	0.116	0.105	0.157	0.345	25.1	1.0
240	18.90	29.50	34.86	3.24	3,542	697	542	395	0.075	0.098	0.100	0.140	0.473	20.0	1.0
300	21.20	31.90	37.07	3.78	4,130	741	618	437	0.060	0.079	0.097	0.125	0.519	25.1	1.0

Cable Identification:

FRPVC (red stripe), LHFRPVC (blue stripe), LSZH / HFFR (white stripe), PE (no stripe).



Item	Description
1	Annealed Stranded Copper Conductor
2	Semi-Conductive Conductor Screen
3	TR XLPE Insulation
4	Semi-Conductive Core Screen
5	Semi-Conductive Tape
6	Copper Tape
7	Sheath

R02: Updated dc resistance @ 20 °C (19/06/2019)