

Single Core

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

SIZE CODE

XLUA 1x(Conductor size)FR/LH 33kV

Application:

For use in power circuit systems of 19/33kV. Installed in Cable trays and Ducts.

Voltage Rating: 19/33kV

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 Ω /km	Short circuit	
							air	ducts	ground	dc @ 20°C	ac @ 90°C				Symmetrical kA (1sec)	Max, earth fault rating kA (1sec)
50	8.3	28	34	1.61	1 906	673	242	165	206	0.387	0.494	0.155	0.517	0.120	6.4	1.0
70	10.0	30	35	1.76	2 060	701	299	200	250	0.268	0.342	0.145	0.372	0.135	9.3	1.0
95	11.8	31	37	2.10	2 403	742	364	240	300	0.193	0.247	0.135	0.281	0.150	13.6	1.0
120	13.1	33	38	2.39	2 688	768	418	272	340	0.153	0.196	0.131	0.235	0.161	17.2	1.0
150	14.8	34	40	2.74	3 042	806	467	300	375	0.124	0.160	0.126	0.204	0.175	21.5	1.0
185	16.4	36	42	3.15	3 452	837	538	340	425	0.099	0.130	0.122	0.179	0.187	26.5	1.0
240	18.9	38	45	3.82	4 123	892	634	394	493	0.075	0.099	0.116	0.153	0.196	34.3	1.0
300	21.2	41	47	4.52	4 819	942	723	442	553	0.060	0.083	0.112	0.140	0.213	42.9	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.

Revision: R02 15/01/2020



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

