

## Single Core

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

### SIZE CODE

XLUA1x(Conductor size) FR / LH 6.6kV

### Application:

For use in power circuit systems of 3.8 / 6.6kV. Installed in cable trays and ducts.

### Construction

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

Voltage Rating: 3.8 / 6.6kV

Specification: SANS 1339

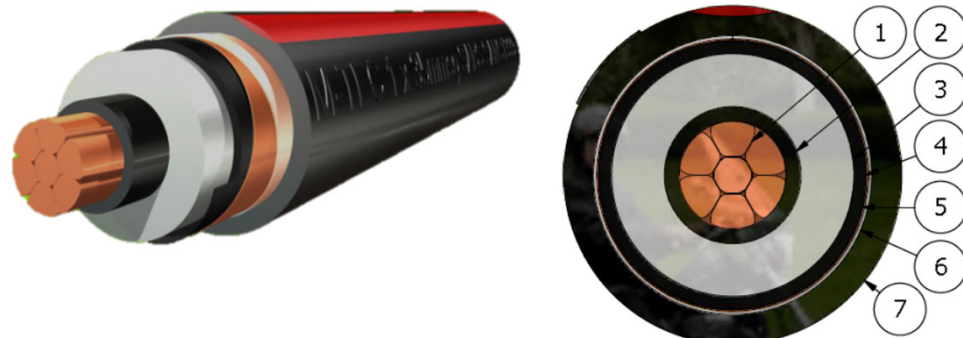
### Physical properties and dimensions

### 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		
							air	ground	ducts					Symmetrical	Max. earth fault rating	
mm <sup>2</sup> Nom	mm Nom.	mm Nom.	mm Nom.	kg/m Nom.	kg Nom.	mm Min.	A			dc @ 20°C	ac @ 90°C	Ω/km	Ω/km	μF/km	kA (1sec)	kA (1sec)
50	8.20	18.50	22.42	0.98	1,246	448	185	205	165	0.268	0.494	0.129	0.510	0.255	6.4	1.0
70	9.90	20.50	24.32	1.23	1,503	486	230	250	200	0.193	0.342	0.122	0.363	0.280	9.4	1.0
95	11.80	22.00	26.17	1.53	1,804	523	280	300	240	0.153	0.247	0.116	0.273	0.330	12.9	1.0
120	13.10	23.50	27.68	1.81	2,085	554	320	335	265	0.124	0.196	0.110	0.225	0.348	16.2	1.0
150	14.80	25.00	29.18	2.04	2,311	584	365	380	300	0.099	0.159	0.105	0.191	0.391	20.0	1.0
185	16.30	26.50	30.73	2.43	2,725	615	415	425	340	0.075	0.128	0.102	0.164	0.421	25.1	1.0
240	18.90	29.50	32.72	3.01	3,280	654	490	490	390	0.075	0.131	0.096	0.162	0.451	32.9	1.0
300	21.20	31.50	35.63	3.68	3,955	713	550	550	440	0.060	0.127	0.094	0.158	0.512	41.3	1.0

### Cable Identification:

FRPVC (red stripe), LHFRPVC (blue stripe),  
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

Revision: R01 29/02/2016

