

## Single Core

Copper, XLPE Insulated, FRPVC, AWA, FRPVC / LHFRPVC (Type A) armoured.

### SIZE CODE:

XL 1x(conductor size)FR / LH 11kV

### Application

For use in power circuits of 6.35/11kV earthed systems. Installed in cable trays, ducts and underground.

**Specification:** SANS 1339

**Voltage Rating:** 6.35/11kV

### Construction

Single Core, circular Copper stranded conductor, XLPE insulated, individually copper tape screened, flame retardant PVC or low halogen FRPVC bedded, Aluminium wire armoured, flame retardant or low halogen FRPVC sheathed.

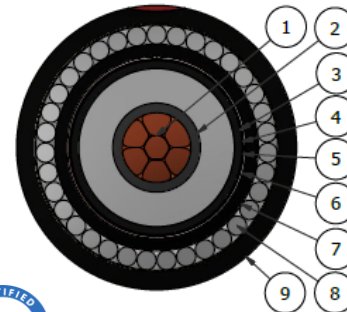
### Physical properties and dimensions

### Electrical Properties

Conductor size	Conductor diameter	Insulation diameter	Bedding diameter	Armour			Cable diameter	Cable mass	Gross mass (500m)	Bending radius	Current rating			Resistance $\Omega$ /km max		Reactance	Impedance	Capacitance	Short circuit ratings				
				diameter	wire diameter	total area					Amps			dc @ 20°C	ac @ 90°C				$\Omega$ /km	$\Omega$ /km	$\mu$ F/km	Symmetrical	Earth fault
											air	ground	ducts										
mm <sup>2</sup> Nom.	mm Nom.	mm Nom.	mm Nom.	mm Nom.	mm Nom.	mm <sup>2</sup> Min.	mm Nom.	kg/m Nom.	kg Nom.	mm Min.													
50	8.3	18.9	22.2	25.4	1.60	90.5	30.3	1.4	780	606	240	205	185	0.387	0.494	0.142	0.515	0.260	6.4	12.2			
70	10.0	20.6	23.9	27.1	1.60	96.5	32.2	1.6	918	644	295	250	225	0.268	0.342	0.135	0.366	0.295	9.3	13.0			
95	11.8	22.5	25.7	28.9	1.60	104.6	34.0	2.0	1 084	681	360	295	280	0.193	0.247	0.125	0.276	0.335	12.9	14.1			
120	13.1	23.8	27.0	30.2	1.60	110.6	35.5	2.3	1 233	711	410	335	310	0.153	0.196	0.122	0.230	0.362	16.2	14.9			
150	14.8	25.5	28.7	32.7	2.00	144.5	38.2	2.7	1 450	765	465	370	335	0.124	0.159	0.120	0.020	0.390	20.0	19.5			
185	16.4	27.0	30.3	34.3	2.00	153.9	39.8	3.1	1 659	796	525	410	365	0.099	0.128	0.115	0.017	0.420	25.1	20.7			
240	18.9	29.6	32.8	36.8	2.00	163.4	42.6	3.8	1 979	851	610	470	405	0.075	0.099	0.110	0.015	0.465	30.9	22.0			
300	21.2	31.9	35.1	39.1	2.00	175.9	44.9	4.5	2 333	897	685	520	440	0.060	0.080	0.105	0.013	0.515	41.3	23.7			

### Cable Identification:

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



Item	Description
1	Annealed Copper conductor
2	Semi-conductive conductor screen
3	TR XLPE Insulation
4	Semi-conductive core screen
5	Semi-conductive bedding tape
6	Copper tape screen
7	Bedding
8	Aluminium wire armouring
9	Sheath

Revision: R00 01/12/2016

