



3 Core
Copper, XLPE Insulated, FRPVC, SWA, FRPVC / LHFRPVC (Type A) armoured.

SIZE CODE: XL 3x(conductor size)FR / LH 11kV

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

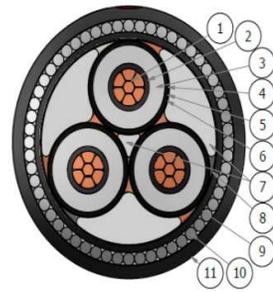
Construction
3 Core, Circular Copper Stranded Conductor, XLPE Insulated, Individually copper tape screened, FRPVC or LHFR PVC bedded, galvanized steel wire armoured, FRPVC or LHFR PVC sheathed.

Specification: SANS 1339
Voltage Rating: 6.35/11kV

Physical properties and dimensions												Electrical Properties									
Conductor Size	Conductor diameter	Insulation diameter	Bedding diameter	Armour			Cable diameter	Cable mass	Gross mass (300m)	Bending radius	Maximum pulling force on combined conductors	Current rating			Resistance Ω /km max		Reactance Ω /km	Impedance Ω /km	Capacitance μ F/km	Short circuit ratings	
				diameter	wire diameter	total area						Amps			dc @ 20°C	ac @ 90°C				Symmetrical	Earth fault
												air	ground	ducts							
mm ² Nom.	mm Nom.	mm Nom.	mm Nom.	mm Nom.	mm Nom.	mm ² Min.	mm Nom.	kg/m Nom.	kg Nom.	mm Min.	N										
25	6.0	16.7	40.5	45.5	2.50	255.3	50.4	4.5	1 749	604	294	138	130	116	0.727	0.927	0.131	0.936	0.185	3.4	12.5
35	7.2	17.8	42.8	47.8	2.50	270.0	53.0	5.1	1 944	635	412	166	158	140	0.524	0.668	0.125	0.680	0.203	4.7	13.2
50	8.3	18.9	45.4	50.4	2.50	289.6	55.7	5.7	2 140	669	588	209	195	167	0.387	0.494	0.119	0.508	0.221	6.4	14.1
70	10.0	20.6	49.1	54.1	2.50	309.3	59.6	6.7	2 524	715	823	257	240	200	0.268	0.342	0.113	0.360	0.248	9.3	15.1
95	11.8	22.5	53.3	58.3	2.50	328.9	64.0	7.9	2 876	768	1 117	314	279	237	0.193	0.247	0.107	0.269	0.278	12.9	16.0
120	13.1	23.8	56.3	61.3	2.50	353.4	67.4	9.1	3 225	809	1 411	356	325	270	0.153	0.196	0.101	0.221	0.299	16.2	17.2
150	14.8	25.5	60.0	66.3	3.15	467.6	72.6	11.0	3 906	871	1 764	409	360	307	0.124	0.159	0.098	0.187	0.327	20.0	22.8
185	16.4	27.0	63.5	69.8	3.15	498.8	76.4	12.6	4 376	917	2 176	466	405	344	0.099	0.128	0.095	0.160	0.351	25.1	24.3
240	18.9	29.6	69.2	75.5	3.15	537.7	82.5	14.9	5 237	990	2 822	542	456	397	0.075	0.099	0.081	0.128	0.327	30.9	26.2
300	21.2	31.9	74.4	88.1	3.15	584.5	88.1	17.4	6 051	1 057	3 528	618	520	437	0.060	0.080	0.078	0.112	0.351	41.3	28.5

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

- Installation conditions:**
- Conductor temperature maximum 90°C
 - Depth of laying 800 mm
 - Ambient temperature 30°C in free air and in shade.
 - Soil thermal resistivity 1.2 K.m/W. • Soil temperature 25°C.
- Revision: R00 22/02/2018



Item No:	Description
1	Annealed copper stranded conductor
2	Conductor screen semi-conductive XLPE
3	XLPE insulation (TR)
4	Core screen semi-conductive XLPE
5	Semi-conductive tape
6	Individually copper tape screened
7	Filler
8	Binding tape
9	Bedding
10	Galvanized steel wire armouring
11	Sheathing

