

### 3 Core

Copper, XLPE insulated, FRPVC, SWA, MDPE (Type A) armoured.  
Longitudinally water blocked cable.

SIZE CODE: XLWB 3x(conductor size)MDPE 33kV

### Application

For use in power circuits of 19/33kV earthed systems. Installed in cable trays, ducts and underground.

**Specification:** SANS 1339

**Voltage Rating:** 19/33kV

### Construction

3 Core, circular Copper stranded conductor, XLPE insulated, individually Copper tape screened, flame retardant PVC, galvanized steel wire armoured, medium density polyethylene sheathed.

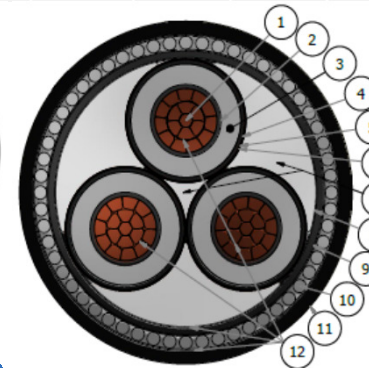
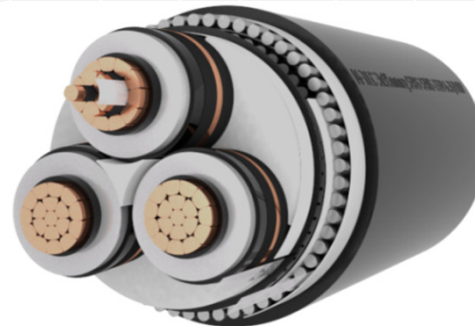
### Physical properties and dimensions

### Electrical Properties

Conductor Size	Conductor diameter	Insulation diameter	Insulation thickness	Bedding diameter	Armour			Cable diameter	Cable mass	Gross mass (300m)	Bending radius	Current rating (SANS 10198-4)			Resistance		Reactance	Impedance	Capacitance	Short circuit ratings		Zero Sequence Impedance (Z <sub>0</sub> )
					diameter	wire diameter	total area					Amps			Ω/km max					Symmetrical	Earth fault	
												air	ground	ducts	dc @ 20 °C	ac @ 90 °C						
mm <sup>2</sup> Nom.	mm 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	28.0	8.0	68.9	74.6	0.00	522.1	82.3	10.1	3,368	988	209	195	167	0.387	0.494	0.147	0.515	0.101	6.4	23.8	0.264
70	10.0	29.5	8.0	71.4	78.3	3.15	545.5	86.2	10.9	3,725	1035	257	237	200	0.268	0.342	0.139	0.369	0.115	9.3	24.8	0.253
95	11.8	31.5	8.0	75.6	83.3	3.55	653.3	91.4	12.9	4,220	1097	314	316	237	0.193	0.246	0.131	0.279	0.129	12.9	29.7	0.211
120	13.1	33.0	8.0	78.6	86.3	3.55	683.0	94.7	14.2	4,716	1136	356	353	270	0.153	0.196	0.124	0.232	0.138	16.2	31.1	0.202
150	14.8	34.5	8.0	83.4	91.1	3.55	702.8	99.5	15.5	4,997	1194	409	400	307	0.124	0.159	0.120	0.199	0.152	20.0	32.0	0.196
185	16.4	36.0	8.0	87.0	94.7	3.55	732.5	103.3	17.1	5,588	1239	466	456	344	0.0991	0.128	0.116	0.172	0.164	25.1	33.3	0.188
240	18.9	38.5	8.0	92.7	100.4	3.55	781.9	109.4	19.5	6,206	1313	542	502	395	0.0754	0.098	0.110	0.147	0.183	32.9	35.6	0.176

### Cable Identification:

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



Item No:	Description
1	Stranded Copper conductor, water blocked.
2	Semi-conductive conductor screen
3	XLPE insulation (TR)
4	Semi-conductive core screen
5	Semi-conductive water blocking tape.
6	Individually Copper tape screened
7	Non hydroscopic PP Filler water blocking
8	Binding tape water blocking
9	Bedding
10	Galvanized steel wire armouring, water blocked.
11	PE sheathing UV stabilized black
12	Asset management tape(s).

