

**3 Core, Copper, XLPE Insulated, FRPVC, SWA, MDPE. (Type A) Armoured.  
Longitudinally water blocked cable.**

**SIZE CODE:** XLWB 3x(conductor size)MDPE 22kV

**Application**

For use in power circuits of 12.7 / 22kV earthed systems. Installed in cable trays, ducts and underground.

**Construction**

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

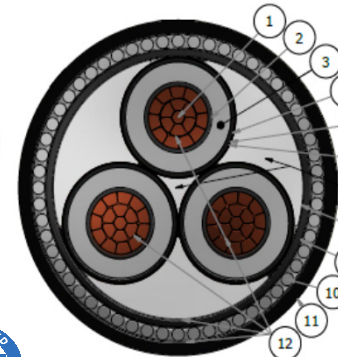
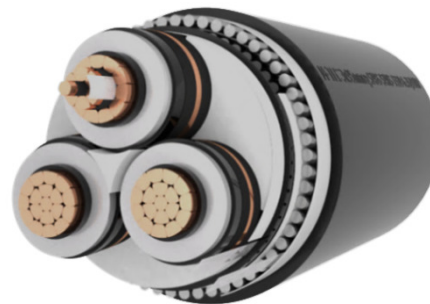
**Specification: SANS 1339**

**Voltage Rating: 12.7 / 22kV**

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			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.											
25	6.1	20.5	5.5	53.7	56.8	2.50	314.2	62.9	5.8	2,090	755	138	130	116	0.7270	0.9271	0.149	0.939	0.154	3.4	14.3	0.439
35	7.2	21.5	5.5	56.1	59.2	2.50	338.7	65.5	6.5	2,390	786	166	158	140	0.5240	0.6683	0.141	0.683	0.169	4.7	15.4	0.407
50	8.2	22.7	5.5	58.5	61.6	2.50	343.6	68.1	7.0	2,447	817	209	195	167	0.3870	0.4937	0.135	0.512	0.181	6.4	15.6	0.402
70	9.9	24.5	5.5	62.3	66.1	3.15	459.8	72.8	8.8	3,091	874	257	237	200	0.2680	0.3421	0.128	0.365	0.202	9.3	20.9	0.300
95	11.8	26.5	5.5	66.5	70.3	3.15	491.0	77.4	10.1	3,493	929	314	279	237	0.1930	0.2467	0.118	0.273	0.224	12.9	22.3	0.281
120	13.1	28.0	5.5	66.5	73.4	3.15	514.3	80.8	10.5	3,702	970	356	316	270	0.1530	0.1959	0.114	0.227	0.237	16.2	23.4	0.268
150	14.8	29.5	5.5	73.2	80.1	3.15	537.7	87.7	12.7	4,368	1052	409	353	307	0.1240	0.1591	0.110	0.193	0.261	20.0	24.5	0.257
185	16.3	31.0	5.5	76.8	83.1	3.15	568.9	91.0	14.3	4,841	1093	466	400	344	0.0991	0.1277	0.106	0.166	0.280	25.1	25.9	0.243
240	18.9	33.5	5.5	81.2	88.1	3.15	607.9	96.3	16.6	5,540	1156	542	446	400	0.0754	0.0980	0.102	0.142	0.314	32.9	27.7	0.227

**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).

Revision: R00 25/05/2015

