

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

SIZE CODE: XL 3x(conductor size)MDPE 6.6kV W/B

### Application

For use in power circuits of 3.8 / 6.6kV earthed systems. Installed in cable trays, ducts and underground.

### Construction

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

**Specification: SANS 1339**

**Voltage Rating: 3.8 / 6.6kV**

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		Inductive 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.	air	ground	ducts	dc @ 20 °C	ac @ 90 °C	Ω /km	Ω /km	μF/km	kA (1sec)	Ω /km	
25	6.1	14.8	2.5	39.1	43.7	2.00	185.4	48.8	3.6	1,431	586	138	130	116	0.727	0.927	0.129	0.936	0.276	3.4	8.4	1.659
35	7.2	15.9	2.5	42.1	46.7	2.00	204.2	52.0	4.2	1,705	624	166	158	140	0.524	0.668	0.123	0.680	0.307	4.7	9.3	1.566
50	8.3	17.0	2.5	44.7	50.3	2.50	265.1	56.0	5.2	1,903	672	209	195	167	0.387	0.494	0.118	0.508	0.337	6.4	12.1	1.142
70	10.0	18.7	2.5	48.3	53.9	2.50	284.7	59.9	6.1	2,292	718	257	237	200	0.268	0.342	0.111	0.360	0.384	9.2	13.0	1.074
95	11.8	20.5	2.5	52.5	58.1	2.50	309.3	64.3	7.3	2,647	771	314	279	237	0.193	0.247	0.106	0.269	0.434	12.8	14.1	1.005
120	13.1	22.2	2.5	56.3	61.9	2.50	328.4	68.2	8.6	3,116	818	356	316	270	0.153	0.196	0.101	0.220	0.460	16.2	14.9	0.952
150	14.8	23.9	2.5	59.9	65.5	2.50	343.6	72.1	9.6	3,430	865	409	353	307	0.124	0.159	0.097	0.187	0.505	20.0	15.6	0.904
185	16.4	25.1	2.5	62.8	69.7	3.15	467.6	76.4	11.8	4,084	917	466	400	344	0.0991	0.128	0.094	0.159	0.558	25.0	21.3	0.662

### 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).