



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

SIZE CODE: XLWB 3x(conductor size)MDPE 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, flame retardant PVC, galvanized steel wire armoured, medium density polyethylene sheathed.

Specification: SANS 1339

Voltage Rating: 6.35/11kV

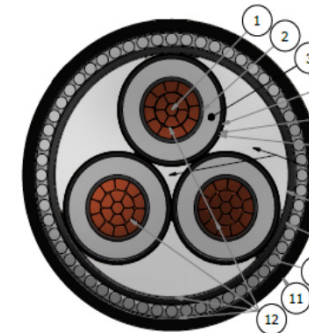
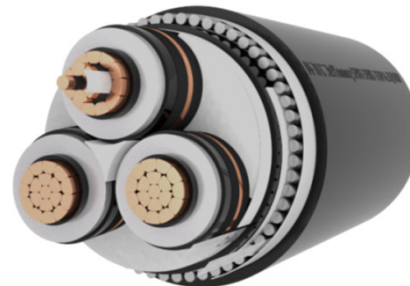
Physical properties and dimensions

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 Ω /km max		Reactance Ω /km	Impedance Ω /km	Capacitance μ F/km	Short circuit ratings		Zero Sequence Impedance (Z_0) Ω /km
					diameter	wire diameter	total area					air	ground	ducts	dc @ 20°C	ac @ 90°C				Symmetrical	Earth fault	
mm ² Nom.	mm Nom.	mm Nom.	mm Nom.	mm Nom.	mm Nom.	mm Nom.	mm ² Min.	mm Nom.	kg/m Nom.	kg Nom.	mm min.											
25	6.0	16.5	3.4	43.9	47.0	2.50	255.3	53.9	4.5	1 691	647	138	130	116	0.727	0.927	0.138	0.937	0.206	3.4	11.6	0.541
35	7.2	17.5	3.4	46.3	49.4	2.50	279.8	56.5	5.2	2 000	678	166	158	140	0.524	0.668	0.130	0.681	0.233	4.7	12.7	0.493
50	8.2	18.5	3.4	48.9	52.0	2.50	289.6	57.9	5.7	2 065	695	209	195	167	0.387	0.494	0.125	0.509	0.255	6.4	13.2	0.477
70	9.9	20.5	3.4	48.0	51.1	2.50	309.3	57.2	6.2	2 320	687	257	237	200	0.268	0.342	0.112	0.360	0.280	9.3	14.1	0.446
95	11.8	22.0	3.4	56.7	59.8	2.50	328.9	66.2	7.9	2 829	794	314	279	237	0.193	0.247	0.112	0.271	0.330	12.9	15.0	0.420
120	13.1	23.5	3.4	59.7	65.3	2.50	353.5	72.1	9.1	3 280	865	356	316	270	0.153	0.196	0.105	0.223	0.348	16.2	16.1	0.390
150	14.8	25.0	3.4	63.4	70.3	3.15	467.6	77.3	11.0	3 863	927	409	353	307	0.124	0.159	0.102	0.189	0.391	20.0	21.3	0.295
185	16.3	26.5	3.4	67.0	73.9	3.15	498.8	81.3	12.7	4 373	975	466	400	344	0.0991	0.128	0.099	0.162	0.421	25.1	22.7	0.277
240	18.9	29.5	3.4	71.6	78.5	3.15	537.7	86.1	14.7	4 968	1033	409	353	307	0.0754	0.098	0.093	0.135	0.451	32.9	24.5	0.257
300	21.2	31.5	3.4	76.8	83.7	3.15	584.5	91.7	17.1	5 686	1100	466	400	344	0.0601	0.080	0.090	0.120	0.512	41.3	26.6	0.236

Cable Identification:

FRPVC (red stripe), LHFRPVC (blue stripe),
HFFR (white stripe), LLDPE & MDPE (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 hydrosopic 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).



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