

**Single Core,
Aluminium XLPE Insulated, MDPE, (Type B) Unarmoured.**
Longitudinally water blocked cable.

SIZE CODE: XLAUAWB 1x(conductor size)MDPE 11kV

Application

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

Construction

Single core, Circular Aluminium Stranded Conductor, XLPE Insulated, copper tape screened, medium density polyethylene sheathed.

Specification: SANS 1339

Voltage Rating: 6.35 / 11kV

Physical properties and dimensions

Conductor size	Conductor diameter	Insulation diameter	Insulation thickness	Cable diameter	Cable mass	Gross mass (300m)	Bending radius
mm ² Nom.	mm Nom.	mm Nom.	mm Nom.	mm Nom.	kg/m Nom.	kg Nom.	mm min.
50	8.2	18.8	3.4	25.3	0.7	567	505
70	9.9	20.5	3.4	27.0	0.8	701	539
95	11.8	22.3	3.4	29.0	1.0	743	580
120	13.1	23.6	3.4	30.3	1.1	877	606
150	14.8	25.3	3.4	32.2	1.2	918	644
185	16.3	26.9	3.4	33.8	1.4	965	675
240	18.9	29.4	3.4	36.5	1.6	1 040	730
300	21.2	31.7	3.4	38.6	1.8	1 075	773
400	23.9	35.2	3.4	41.5	2.1	1 174	831
500	27.2	38.5	3.4	45.0	2.5	1 300	901
630	31.2	41.3	3.4	49.2	3.0	1 458	985

Electrical Properties

Current rating Trefoil			Resistance Ω/km max		Reactance Ω /km	Impedance Ω /km	Capacitance μF/km	Short circuit ratings	
Amps			dc @ 20°C	ac @ 90°C				Symmetrical	Max. Earth fault
air	ground	ducts					kA (1sec)		
185	160	128	0.641	0.822	0.137	0.833	0.247	4.1	1.0-2.5
235	195	156	0.443	0.568	0.128	0.582	0.280	5.9	1.0-2.7
285	230	184	0.32	0.411	0.121	0.428	0.319	8.2	1.0-3.0
325	260	208	0.253	0.325	0.110	0.343	0.344	10.4	1.0-3.1
365	290	232	0.206	0.265	0.107	0.286	0.377	12.8	1.0-3.4
415	325	260	0.164	0.211	0.110	0.238	0.401	16.0	1.0-3.6
485	375	300	0.125	0.161	0.103	0.192	0.660	21.0	1.0-3.7
550	415	332	0.100	0.130	0.099	0.163	0.700	26.3	1.0-3.9
630	465	372	0.0778	0.102	0.096	0.140	0.837	33.8	1.0-4.2
720	520	416	0.0605	0.080	0.093	0.123	0.901	43.4	1.0-4.7
800	570	456	0.0469	0.064	0.090	0.110	1.179	56.0	1.0-5.1

Cable Identification:

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

Note: Under ground installation is only permitted if the cable is adequately protected against mechanical damage.



Item No:	Description
1	Aluminium conductor (water blocked)
2	Semi-conductive conductor Screen
3	TR XLPE Insulation
4	Semi-conductive core screen
5	Semi-conductive tape (water blocking)
6	Copper tape screen
7	Non-Conductive water blocking tape
8	Sheathing

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