

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

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

Application

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

Construction

3 Core, circular Aluminium stranded conductor, TRXLPE Insulated, individually copper tape screened, flame retardant PVC , galvanized steel wire armoured, medium density polyethylene sheathed.

Specification: SANS 1339

Voltage Rating: 19/33kV

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	Maximum pulling force on combined conductors	Current rating (SANS 10198-4)			Resistance Ω /km max		Reactance Ω /km	Impedance Ω /km	Capacitance μ F/km	Short circuit ratings		Zero Sequence Impedance (Z_0)
					diameter	wire diameter	total area						Amps			dc @ 20°C	ac @ 90°C				Symmetrical	Earth fault	
													air	ground	ducts								
50	8.3	27.8	8.0	68.9	76.4	3.15	522.1	83.3	9.0	3,036	1000	353	162	149	126	0.641	0.822	0.149	0.835	0.143	4.0	23.8	0.264
70	10.0	29.5	8.0	72.5	80.0	3.15	545.5	87.2	9.7	3,347	1047	494	200	181	153	0.443	0.568	0.141	0.585	0.159	5.8	24.8	0.253
95	11.8	31.4	8.0	76.7	85.0	3.55	653.3	92.4	11.1	3,772	1109	670	238	214	186	0.320	0.411	0.131	0.431	0.175	8.0	29.7	0.211
120	13.1	32.7	8.0	79.8	88.1	3.55	683.0	95.6	11.9	4,120	1148	847	280	246	209	0.253	0.325	0.119	0.346	0.187	10.2	31.1	0.202
150	14.8	34.4	8.0	83.4	91.7	3.55	702.8	99.5	12.7	4,358	1194	1,058	314	274	237	0.206	0.265	0.115	0.289	0.202	12.5	32.0	0.196
185	16.4	35.9	8.0	87.0	95.3	3.55	732.4	103.3	13.6	4,618	1239	1,305	366	312	270	0.164	0.211	0.117	0.241	0.215	15.7	33.3	0.188
240	18.9	38.5	8.0	92.7	101.0	3.55	781.9	109.4	15.0	5,045	1313	1,693	428	353	312	0.125	0.161	0.112	0.197	16.550	12.5	35.6	0.176
300	21.2	40.0	8.0	96.3	104.6	3.55	831.4	113.4	16.2	5,397	1360	2,117	485	405	349	0.100	0.130	0.105	0.167	18.100	15.7	37.8	0.166

Cable Identification:

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



Item No:	Description
1	Stranded Aluminium 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).

Customer acceptance signature: _____

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