

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

SIZE CODE: XLAWB 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 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: 12.7/22kV

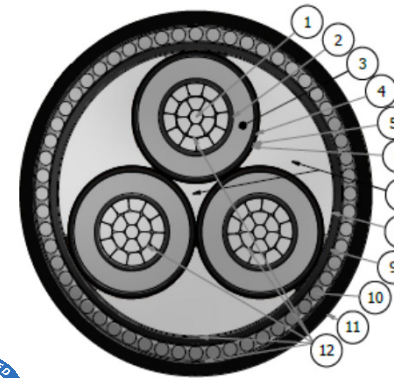
Physical properties and dimensions

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
					diameter	wire diameter	total area					
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.	kN
50	8.2	23.0	5.5	59.5	62.8	2.50	343.6	69.3	6.2	2,201	832	360
70	10.0	24.9	5.5	63.7	68.0	3.15	459.8	74.7	7.6	2,735	897	504
95	11.6	26.5	5.5	67.3	72.2	3.15	491.0	79.3	8.5	3,011	952	684
120	13.5	28.4	5.5	71.4	75.0	3.15	514.3	82.3	9.2	3,324	988	864
150	14.4	29.3	5.5	73.6	78.9	3.15	537.7	86.4	9.9	3,518	1037	1,080
185	16.4	31.2	5.5	78.0	82.4	3.15	568.9	90.4	10.8	3,790	1085	1,332
240	18.4	33.2	5.5	82.5	88.1	3.15	607.9	96.3	12.0	4,157	1156	1,728
300	20.5	35.3	5.5	87.1	93.1	3.15	646.8	101.7	13.4	4,557	1220	2,160

Electrical Properties

Current rating (SANS 10198-4)			Resistance Ω/km max		Reactance	Impedance	Capacitance	Short circuit ratings		Zero Sequence Impedance (Z ₀)
								Symmetrical	Earth fault	
Amps			dc @ 20 °C	ac @ 90 °C	Ω /km	Ω /km	μF/km	kA (1sec)	Ω /km	
air	ground	ducts								
162	149	126	0.641	0.822	0.139	0.834	0.183	4.0	15.6	0.402
200	181	153	0.443	0.568	0.130	0.583	0.207	5.8	20.9	0.300
238	214	186	0.32	0.411	0.120	0.428	0.227	8.0	22.3	0.281
280	246	209	0.253	0.325	0.116	0.345	0.252	10.2	23.4	0.268
314	274	237	0.206	0.265	0.113	0.288	0.263	12.5	24.5	0.257
366	312	270	0.164	0.211	0.108	0.237	0.287	15.7	25.9	0.243
428	353	312	0.125	0.161	0.105	0.193	0.313	20.6	27.7	0.227
485	405	349	0.100	0.130	0.098	0.163	0.339	25.7	29.4	0.213

Cable Identification:
FRPVC (red stripe), LHFRPVC (blue stripe),
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).

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