



Single Core, Aluminium, XLPE Insulated, FRPVC,AWA, MDPE. (Type A) armoured.

Longitudinally water blocked cable.

SIZE CODE: XLAWB 1x(conductor size)MDPE 22kV

Application

For use in power circuits of 12.7/22kV systems. Installed in cable trays and ducts.

Construction

Single core, Circular Aluminium Stranded Conductor (water blocked), XLPE Insulated, copper tape screened, flame retardant PVC bedding, Aluminium wire armoured, medium density polyethylene sheathed, longitudinally water blocked.

Specification: SANS 1339

Voltage Rating: 12.7/22kV

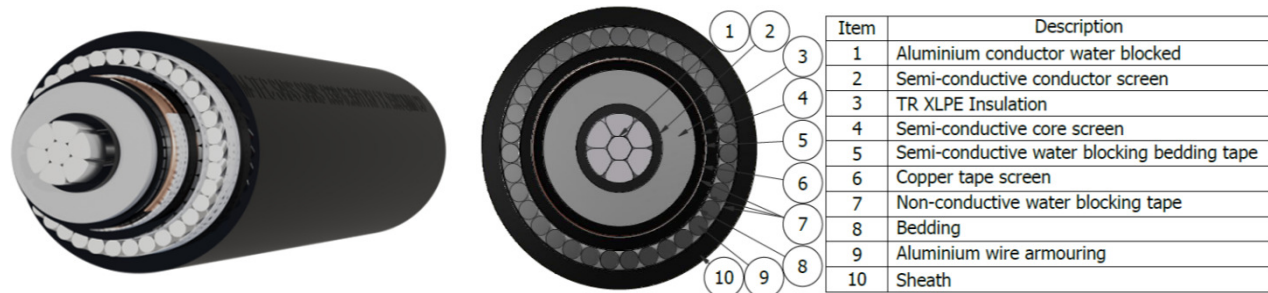
Physical properties and dimensions

Electrical Properties

Conductor size	Conductor diameter	Insulation diameter	Insulation thickness	Bedding diameter	Armour			Cable diameter	Cable mass	Gross mass (500m)	Bending radius	Current rating			Resistance		Reactance	Impedance	Capacitance	Short circuit ratings	
					diameter	wire diameter	total area					Amps			$\Omega/\text{km max}$					Symmetrical	Earth fault
												air	ground	ducts	dc @ 20°C	ac @ 90°C					
50	8.2	22.7	5.5	27.3	31.1	1.6	108.6	35.2	1.41	983	705	185	160	128	0.641	0.822	0.158	0.837	0.181	4.1	12.1
70	9.9	24.4	5.5	29.0	33.6	2.0	144.5	37.7	1.64	1 169	755	235	195	156	0.443	0.568	0.150	0.588	0.203	5.9	16.2
95	11.8	26.3	5.5	32.2	35.5	2.0	153.9	39.8	1.70	1 315	796	285	230	184	0.320	0.411	0.140	0.434	0.227	8.2	17.2
120	13.1	27.6	5.5	32.2	36.8	2.0	160.2	41.1	1.98	1 451	822	325	260	208	0.253	0.325	0.135	0.352	0.244	10.4	17.9
150	14.8	29.3	5.5	33.7	38.3	2.0	166.5	42.8	2.17	1 574	856	365	290	232	0.206	0.265	0.130	0.295	0.265	12.8	18.6
185	16.3	30.8	5.5	34.8	39.4	2.0	175.9	43.9	2.35	1 664	878	415	325	260	0.125	0.211	0.125	0.245	0.284	16.0	19.7
240	18.9	33.4	5.5	37.6	42.2	2.0	188.5	47.0	2.69	1 939	939	485	375	300	0.125	0.162	0.120	0.202	0.316	21.0	21.1
300	21.2	35.7	5.5	40.5	46.1	2.5	250.3	51.0	2.93	2 059	1020	550	415	332	0.100	0.133	0.118	0.178	0.483	26.3	28.0
400	23.9	38.4	5.5	43.2	48.8	2.5	274.9	53.9	3.60	2 559	1078	630	465	372	0.078	0.108	0.113	0.156	0.682	33.8	30.7
500	27.2	41.7	5.5	46.7	52.3	2.5	284.7	57.6	3.86	2 688	1153	720	520	416	0.0605	0.089	0.109	0.141	0.923	43.4	31.8
630	31.2	45.7	5.5	50.7	56.3	2.5	309.3	62.0	4.52	3 088	1241	800	570	456	0.047	0.072	0.105	0.127	1.032	56.0	34.6

Cable Identification:

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



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