

3 Core Medium Voltage ABC Aluminium, TR XLPE insulated, FR PVC + catenary support. (Type B) non-armoured.

For use in power circuits of 19/33kV earthed systems.

Voltage Rating: 19/33kV Specification: SANS 1713

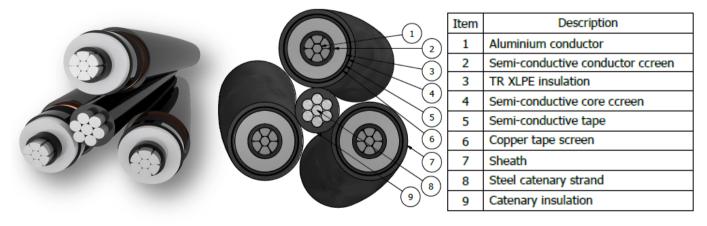
Construction

3 Core, circular Aluminium stranded conductor, TR XLPE Insulated, individually Copper tape screened, flame retardant PVC sheathed + steel catenary, flame retardant PVC sheathed.

Application

Suspended in air.

SIZE CODE AS 3x(conductor size)+(catenary size)CAT 33kV Type B							
Phase Core							
Conductor size	mm ² nom	50	70	95	120	150	185
Conductor diameter	mm app.	8.25	9.95	11.80	13.10	14.80	16.35
Insulation diameter	mm app.	27.8	29.5	31.4	32.7	34.0	35.5
Core Sheath diameter	mm app.	33.7	35.4	37.4	38.7	40.2	41.8
Catenary (Support Core)							
Conductor size	mm² nom	50	50	50	70	70	70
Conductor diameter	mm app.	9.00	9.00	9.00	10.80	10.80	10.80
Insulation diameter	mm app.	11.5	11.5	11.5	13.3	13.3	13.3
Maximum Tensile Strength and Pulling force of Catenary	kN	26	26	26	37	37	37
Cable							
Cable diameter	mm app.	73	76	81	84	87	90
Cable mass	kg/m app.	4.12	4.53	5.06	5.37	5.82	6.33
Gross mass (500m)	kg app.	1,535	1,658	1,819	1,910	2,046	2,200
Bending radius	mm min.	1007	1058	1114	1179	1218	1264
Current rating							
In air	Amps	185	230	280	325	370	430
Resistance							
dc @ 20°C	Ω /km max	0.641	0.443	0.320	0.253	0.206	0.164
ac @ 90°C	$\Omega/km max$	0.822	0.568	0.411	0.325	0.265	0.211
Reactance	Ω /km	0.124	0.121	0.114	0.111	0.106	0.103
Impedance	Ω /km	0.832	0.581	0.426	0.342	0.284	0.233
Short circuit ratings							
Symmetrical	kA (1sec)	4.0	5.8	8.0	10.2	12.5	15.7
Earth fault	kA (1sec)	1.6	1.7	1.9	2.0	2.1	2.3



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