

Aerial Bundle Conductor Self support

Phase core(s) aluminium HD, XLPE insulation +
aluminium HD, XLPE insulated neutral

Voltage Rating: 600 / 1 000V

Application:

For use in power circuits of 600 / 1 000V. installed in air suspended by all phase +
neutral cores.

Specification: SANS 1418

1 Phase core + aluminium insulated neutral

AS1x(conductor size)+(conductor size)NSS

Phase Cores / Cable	Conductor size	Conductor diameter	Insulation diameter	Insulated Aluminium Neutral	Cable diameter	Cable mass	Gross Mass	Maximum pull force on Cores combined	Current rating	Resistance		Reactance	Impedance	Short circuit ratings	Single Phase Volt Drop	Three Phase Volt Drop
										dc @ 20°C	ac @ 90°C					
	mm² nom	mm nom	mm Nom.	mm² nom	mm Nom.	kg/m Nom.	kg Nom.	kN	Amps	Ω/km max	Ω/km max	Ω/km	Ω/km	kA (1sec)	A/m/(mV)	
1x25	25	6.0	9.4	25	20	0.20	252	2.48	105	1.200	1.535	0.091	1.541	2.3	3.07	
1x35	35	7.1	10.9	35	24	0.28	292	3.38	144	0.868	1.113	0.090	1.117	3.2	2.23	
1x50	50	8.2	12.0	50	26	0.36	329	4.65	183	0.641	0.822	0.084	0.826	4.6	1.64	
1x70	70	9.8	14.2	70	31	0.59	445	6.68	228	0.443	0.568	0.083	0.574	6.4	1.14	
1x95	95	11.8	16.0	95	35	0.67	484	9.23	277	0.320	0.411	0.080	0.419	8.7	0.82	
1x120	120	13.1	17.5	120	38	0.74	522	11.70	322	0.253	0.325	0.078	0.334	11.0	0.65	
1x150	150	14.8	18.6	150	45	0.97	686	14.40	340	0.206	0.265	0.077	0.276	12.7	0.53	

3 Phase cores + aluminium insulated neutral

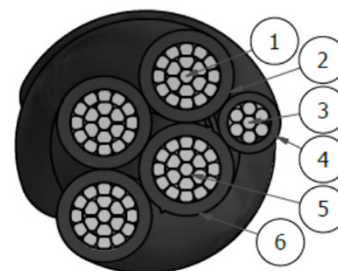
AS3x(conductor size)+(conductor size)NSS

Phase Cores / Cable	Conductor size	Conductor diameter	Insulation diameter	Insulated Aluminium Neutral	Cable diameter	Cable mass	Gross Mass	Maximum pull force on Cores combined	Current rating	Resistance		Reactance	Impedance	Short circuit ratings	Single Phase Volt Drop	Three Phase Volt Drop
										dc @ 20°C	ac @ 90°C					
	500m	In air														
	mm² nom	mm nom	mm Nom.	mm² nom	mm Nom.	kg/m Nom.	kg Nom.	kN	Amps	Ω/km max	Ω/km max	Ω/km	Ω/km	kA (1sec)	A/m/(mV)	
3x25	25	6.0	9.4	25	23	0.41	314	3.30	105	1.200	1.535	0.091	1.541	2.3		2.66
3x35	35	7.1	10.9	35	26	0.56	429	4.50	144	0.868	1.113	0.090	1.117	3.2		1.93
3x50	50	8.2	12.0	50	29	0.72	510	6.20	183	0.641	0.822	0.084	0.826	4.6		0.14
3x70	70	9.8	14.2	70	34	1.01	732	8.90	228	0.443	0.568	0.083	0.574	6.4		0.98
3x95	95	11.8	16.0	95	39	1.33	867	12.30	277	0.320	0.411	0.080	0.419	8.7		0.71
3x120	120	13.1	17.5	120	42	1.64	1088	15.60	322	0.253	0.325	0.078	0.334	11.0		0.44
3x150	150	14.8	18.6	150	45	1.95	1239	19.20	340	0.206	0.265	0.077	0.276	12.7		0.46

If 25mm² Street light is required. (code)+25A

Conductor diameter	mm app.	6.3
Insulation diameter	mm app.	9.4
Additional Cable mass	kg/m app.	0.10

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Item	Description
1	Phase Conductor(s) Aluminium
2	Phase Core Insulation XLPE
3	Aux / Street Light Conductor Aluminium
4	Aux / Street Light Core Insulation XLPE
5	Neutral Conductor Aluminium
6	Neutral Core Insulation XLPE