



Single Core Aluminum Flexible

Series: ALF**Standard:** AS/NZS 5000.1**Voltage:** 0.6/1kV**Conductor:** Aluminum (Class 5)**Insulation:** X-HF-110**Sheath:** 5V-90 UV Resistant

Core x cross-section	Diameter of conductor wires	"Nominal insulation thickness"	Nominal sheath thickness	Approx. overall diameter	Approx. weight	Product code
mm ²	mm	mm	mm	mm	kg/km	
1×35	0.40	0.9	1.4	13.6	206	ALF1C0350
1×50	0.40	1.0	1.4	15.5	269	ALF1C0500
1×70	0.40	1.1	1.4	17.6	349	ALF1C0700
1×95	0.50	1.1	1.5	19.6	443	ALF1C0950
1×120	0.50	1.2	1.5	21.7	543	ALF1C1200
1×150	0.50	1.4	1.6	24.0	664	ALF1C1500
1×185	0.50	1.6	1.6	26.7	804	ALF1C1850
1×240	0.50	1.7	1.7	29.8	1010	ALF1C2400
1×300	0.50	1.8	1.8	32.9	1235	ALF1C3000
1×400	0.50	2.0	1.9	37.0	1602	ALF1C4000
1×500	0.50	2.2	2.0	41.3	1968	ALF1C5000
1×630	0.50	2.4	2.2	46.2	2468	ALF1C6300

Core x cross-section	Min. Bending Radius	Current Rating (A)				Electrical Characteristics	Three-phase voltage drop at 50Hz
		In Air Spaced	In Air Enclosed	In Ground	In Ground Enclosed	Maximum DC Resistance 20°C	
mm ²	mm					Ω/km	mV/A.m
1×35	136	143	109	143	133	0.868	1.90
1×50	155	171	133	166	157	0.641	1.41
1×70	176	219	171	204	195	0.443	0.98
1×95	196	271	209	247	233	0.320	0.72
1×120	217	314	247	280	266	0.253	0.57
1×150	240	361	285	318	299	0.206	0.48
1×185	267	423	333	361	342	0.164	0.39
1×240	298	504	393	423	399	0.125	0.31
1×300	329	584	461	480	451	0.100	0.27
1×400	370	684	542	546	518	0.0778	0.23
1×500	413	808	637	632	589	0.0605	0.2
1×630	462	950	751	722	670	0.0469	0.17

Based on trefoil formation, ambient air temperature of 40°C, soil temperature of 25°C, burial depth of 0.5m and soil thermal resistivity of 1.2K.m/W.