



CONDUCTOR STRANDING GUIDE

AAAC 1120-All Aluminium Alloy Conductor

Conductor Name	Reference Strands/Wire Diameter (mm)	Overall Diameter (mm)	Nominated Minimum Breaking Load (kN)	Nominated Mass kg per km (kg)
ARGON	7/1.75	5.25	4.0	46.10
BORON	7/2.25	6.75	6.61	75.9
CHLORINE	7/2.50	7.50	8.1	94.3
CHROMIUM	7/2.75	8.25	9.9	113
FLUORINE	7/3.00	9.00	11.8	135
HELIUM	7/3.75	11.25	17.6	211
HYDROGEN	7/4.50	13.50	24.3	304
IODINE	7/4.75	14.25	27.1	339
KRYPTON	19/3.25	16.25	37.4	433
LUTETIUM	19/3.50	17.50	41.7	503
NEON	19/3.75	18.75	47.8	576
NITROGEN	37/3.00	21.00	62.2	721
NOBELIUM	37/3.25	22.75	72.8	845
OXYGEN	19/4.75	23.75	73.6	924
PHOSPHOROUS	37/3.75	26.25	93.1	1120
SELENIUM	61/3.25	29.25	114	1400
SILICON	61/3.50	31.50	127	1620
SULPHUR	61/3.75	33.75	145	1860
XENON	91/4.5	49.50	300	4000

Conductor Cross-Sectional Area

Nominal. Cross Sectional Area (mm ²)	Conductor O.D.		Nominal. Cross Sectional Area (mm ²)	Conductor O.D.	
	mm	Inch		mm	Inch
0.5	0.80	0.031	95	12.60	0.496
1.0	1.13	0.044	120	14.21	0.559
1.5	1.38	0.054	150	15.75	0.620
2.5	2.01	0.079	185	17.64	0.694
4	2.55	0.100	240	20.25	0.797
6	3.12	0.122	300	22.68	0.892
10	4.05	0.159	400	25.65	1.009
16	5.10	0.200	500	28.80	1.133
25	6.75	0.265	630	32.76	1.289
35	7.65	0.301	800	37.05	1.458
50	8.90	0.350	1000	41.60	1.637
70	10.70	0.421			

AAC-All Aluminium Conductor - Aus Standard

Conductor Name	Reference Strands/Wire Diameter (mm)	Overall Diameter (mm)	Nominated Minimum Breaking Load (kN)	Nominated Mass kg per km (kg)
GEMINI	7/1.75	5.25	3.01	46.1
JUPITER	7/2.25	6.75	4.76	75.9
LEO	7/2.50	7.50	5.7	94.3
LIBRA	7/3.00	9.00	7.9	135
MARS	7/3.75	11.30	11.8	211
MERCURY	7/4.50	13.50	16.9	304
MOON	7/4.75	14.30	18.9	339
NEPTUNE	19/3.25	16.30	24.7	433
PLUTO	19/3.75	18.80	31.9	576
SATURN	37/3.00	21.00	42.2	721
TAURUS	19/4.75	23.80	51.3	924
TRITON	37/3.75	26.30	62.2	1120
URANUS	61/3.25	29.30	75.2	1400
URSULA	61/3.50	31.50	87.3	1620
VENUS	61/3.75	33.80	97.2	1890
VIRGO	91/4.50	49.50	207	4010

ACSR/GZ-AL Conductor (Gal) Steel Reinforced

Conductor Name	Reference Strands/Core/Wire Diameter (mm)	Overall Diameter (mm)	Nominated Minimum Breaking Load (kN)	Nominated Mass kg per km (kg)
ALMOND	6/1/2.50	7.50	10.5	119
APPLE	6/1/3.00	9.00	14.9	171
BANANA	6/1/3.75	11.25	22.7	268
CHERRY	6/4.75+7/1.60	14.25	33.4	402
GRAPE	30/7/2.50	17.50	63.5	677
LEMON	30/7/3.00	21.00	90.4	973
LYCHEE	30/7/3.25	22.75	105	1140
LIME	30/7/3.50	24.50	122	1320
MANGO	54/7/3.00	27.00	119	1400
ORANGE	54/7/3.25	29.25	137	1600
OLIVE	54/7/3.50	31.50	159	1960
PAWPAW	54/3.75+19/2.25	33.75	178	2240
PEACH	54/4.75+19/2.85	42.75	284	3600
Extra High Strength				
QUINCE	3/4/1.75	5.25	12.7	95.9
RAISIN	3/4/2.5	7.50	24.4	193
SULTANA	4/3/3.00	9.00	28.3	242
WALNUT	4/3/3.75	11.25	43.9	379