



**APPLICATION**

7 and 19 strand construction is suitable for bare overhead reticulation of medium spans, normally at low and medium voltages.  
37 and 61 strand construction is suitable for transmission and subtransmission lines where homogeneous construction can reduce line losses and improve corrosion resistance in conductors with similar strength to ACSR types

AAAC = All Aluminium Alloy Conductor

**STANDARD**

AS1531:1991

**CONDUCTOR**

Aluminium Alloy 1120

**STRAND CONSTRUCTION**

As Below

Product Code	Conductor			Approx. Mass kg/km	Calculated Min Breaking Load kN	Final Modulus of Elasticity GPa	Coefficient of Linear Expansion /° x 10-5	Maximum Packing Size m
	Nominal Area mm2	Number & Diameter of Wires(No./mm)	Nominal Overall Diameter mm					
Argon	17	7/1.75	5.3	50	4.0	59	23	4800
Boron	28	7/2.25	6.8	80	6.6	59	23	3500
Chlorine	34	7/2.50	7.5	90	8.2	59	23	3000
Chromium	42	7/2.75	8.25	110	9.9	59	23	3000
Fluorine	49	7/3.00	9	140	11.8	59	23	3000
Helium	77	7/3.75	11.3	210	17.6	59	23	2000
Hydrogen	111	7/4.50	13.5	310	24.3	59	23	1500
Iodine	124	7/4.75	14.3	340	27.1	59	23	1500
Krypton	158	19/3.25	16.3	430	37.4	56	23	1900
Lutetium	183	19/3.50	17.5	500	41.7	56	23	2000
Neon	210	19/3.75	18.8	580	47.8	56	23	2000
Nitrogen	262	37/3.00	21	720	62.2	56	23	2000
Nobelium	307	37/3.25	22.8	850	72.8	56	23	2000
Oxygen	337	19/4.75	23.8	930	73.6	56	23	1900
Phosphorous	409	37/3.75	26.3	1100	93.1	56	23	1500
Selenium	506	61/3.25	29.3	1400	114	54	23	1500
Silicon	587	61/3.50	31.5	1620	127	54	23	1500
Sulphur	673	61/3.75	33.8	1860	145	54	23	1500