

BARE OVERHEAD CONDUCTORS

29. AAAC 1120 – ALL ALUMINIUM ALLOY CONDUCTORS



All Aluminium Alloy Conductors (AAAC) are extensively used for primary and secondary transmission in bare overhead distribution and transmission lines and substations where higher span is required. Also, usable in highly polluted industrial areas and coastal regions due to corrosion resistance.

STANDARD	AS/NZS 1531
CONDUCTOR	Aluminium Alloy 1120 (Class 2)

Product Name	Conductor			Approximate Mass kg/km	Calculated breaking load (min.) kN
	No./mm	mm ²	Diameter		
CHLORINE	7/2.50	34.4	7.5	94.3	8.2
CHROMIUM	7/2.75	41.6	8.3	113	9.9
FLUORINE	7/3.00	49.5	9	135	11.8
HELIUM	7/3.75	77.3	11.3	212	17.6
HYDROGEN	7/4.50	111	13.5	304	24.3
IODINE	7/4.75	124	14.3	339	27.1
KRYPTON	19/3.25	158	16.3	433	37.4
LUTETIUM	19/3.50	183	17.5	503	41.7
NEON	19/3.75	210	18.8	576	47.8
NITROGEN	37/3.00	262	21	721	62.2
NOBELIUM	37/3.25	307	22.8	845	72.8
OXYGEN	19/4.75	337	23.8	924	73.6
PHOSPHORUS	37/3.75	409	26.3	1120	93.1
RHODIUM	61/3.00	431	27	1192	97
SELENIUM	61/3.25	506	29.3	1400	114
SILICON	61/3.50	587	31.5	1620	127
SULFUR	61/3.75	674	33.8	1860	145