

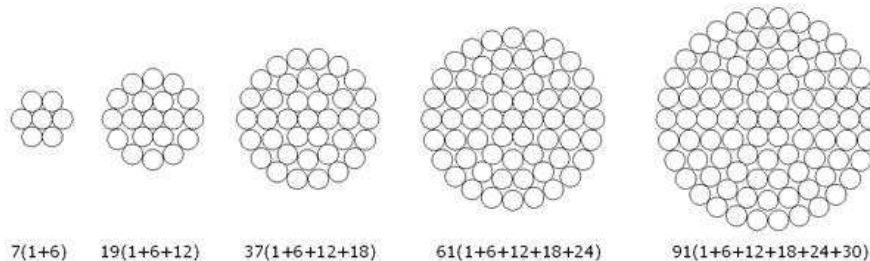
SPECIFICATIONS AND STANDARDS

AAAC bare conductors meets or exceeds the following **AS-1531**



APPLICATIONS

All-Aluminum Alloy Conductors (AAAC) is recommended for use as bare overhead conductor for primary and secondary distribution and in cases where high strength-to-weight ratio is required. It has a good corrosion resistance due to being composed out of aluminum alloy wires only, minimum conductivity of 52% IACS, high breaking strength per weight and normal creep values. AAAC has the highest strength per weight among all bare overhead conductors.



This catalogue shows the most common sizes of conductor but other sizes, to any recognized standards or customer specification can also be supplied. AAAC insulated with XLPE or PVC can also be supplied as per customer's requirements.

AAAC conductors manufactured to AS-1531

Conductor Code name	Stranding and wire diameter No./mm	Nominal overall diameter mm	Cross-sectional area mm ²	Approximate mass kg/km	Breaking load KN	Modulus of elasticity GPa	Coefficient of linear expansion x10 ⁻⁶ /°C
Chlorine	7/2.50	7.5	34.4	94.3	8.18	65	23.0
Chromium	7/2.75	8.25	41.6	113	9.91	65	23.0
Fluorine	7/3.00	9	49.5	135	11.8	65	23.0
Helium	7/3.75	11.3	77.3	211	17.6	65	23.0
Hydrogen	7/4.50	13.5	111	304	24.3	65	23.0
Iodine	7/4.75	14.3	124	339	27.1	65	23.0
Krypton	19/3.25	16.3	158	433	37.4	65	23.0
Lutetium	19/3.50	17.5	183	503	41.7	65	23.0
Neon	19/3.75	18.8	210	576	47.8	65	23.0
Nitrogen	37/3.00	21	262	721	62.2	64	23.0
Nobelium	37/3.25	22.8	307	845	72.8	64	23.0
Oxygen	19/4.75	23.8	337	924	73.6	65	23.0
Phosphorus	37/3.75	26.3	409	1120	93.1	64	23.0
Selenium	61/3.25	29.3	506	1400	114	64	23.0
Silicon	61/3.50	31.5	587	1620	127	64	23.0
Sulfur	61/3.75	33.8	673	1860	145	64	23.0