

## AAAC (AL7)

All Aluminium Alloy Conductor according to EN 50182 (AAAC) is an alloyed aluminium conductor engineered to provide an improved strength-to-weight ratio while maintaining strong electrical performance. It offers excellent tensioning characteristics and superior corrosion resistance compared to FeAl conductors, making it well suited for demanding environments.

These advantages have led to its widespread use in distribution, medium-voltage, and high-voltage networks. For extended service life and enhanced protection against corrosion, the conductor can be supplied with grease filling during the stranding process.

## APPLICATION

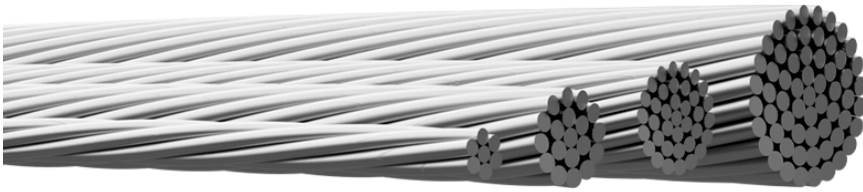
AL7 (AAAC) according to EN 50182 is an alloyed aluminium conductor offering a higher strength-to-weight ratio, good electrical performance and excellent corrosion resistance, outperforming FeAl in demanding environments.

These advantages have made the AL7 conductor widely used in distribution, medium-voltage and high-voltage networks. For extended service life and better corrosion protection, the conductor can also be supplied grease-filled during stranding.

## STANDARDS

### Conductor

SS EN 50182



Name	E-Number	Old code	Cross section [mm <sup>2</sup> ]	Number of strands	Strand diameter [mm]	Conductor diameter [mm]	Total weight [kg/km]	Maximum breaking load [kN]	DC resistance [Ω/km]
62-AL7	0620156	AlMgSi - 62	62.4		3.37	10.1	170.5	17.2	0.4858
99-AL7	0620163	AlMgSi - 99	99.3		4.25	12.8	271.1	25.3	0.3055
159-AL7	0620166	AlMgSi - 157	158.6		3.26	16.3	435.4	43.6	0.1923
241-AL7	0620167	AlMgSi - 241	241.2		4.02	20.1	662.1	61.5	0.1265
330-AL7	0620169	AlMgSi - 329	330		3.37	23.6	909.2	90.8	0.0927
454-AL7	0620177	AlMgSi - 454	454.5		3.08	27.7	1256.1	125	0.0676
594-AL7	0620180	AlMgSi - 593	593.6		3.52	31.7	1640.6	157.3	0.0517
774-AL7	0620183	AlMgSi - 774	774.2		4.02	36.2	2139.8	197.4	0.0397
911-AL7	0620184	AlMgSi - 910	910.7		4.36	39.2	2517	232.2	0.0337

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