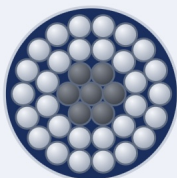


BARE OVERHEAD CONDUCTOR

AACSR

Aluminium Alloy Conductor Steel Reinforced



- Al-Mg-Si alloy wires (6201)
- Galvanised steel core

AACSR is one or more layers of heat-treated aluminium-magnesium-silicon alloy wire stranded concentrically over a high-strength galvanised steel core. It gives a higher strength-to-weight ratio than AAAC and ACSR of the same size, for long spans and heavy wind or ice loading.

APPLICATIONS

Transmission and sub-transmission lines, river and valley crossings, extra-long spans, high wind and ice zones.

OPTIONS

Steel core galvanised Class A, B or C, or aluminium-clad (AW). Core grease or full grease, and non-specular finish on request.

16–630 mm²

Code (alloy area) range shown

6/1 to 54/19

Alloy / steel stranding

Up to 282 kN

Rated tensile strength

Up to 899 A

Current rating at 85 °C

STANDARDS

IEC 61089 (A2/S1A)
BS EN 50182
ASTM B711
AS 3607
Customer specification

Code	Area alloy / steel (mm ²)	Total area (mm ²)	Alloy wires (no./mm)	Steel wires (no./mm)	Overall dia. (mm)	Mass (kg/km)	RTS (kN)	DC res. 20 °C (Ω/km)	Ampacity 75/85 °C (A)
16	18.4 / 3.07	21.5	6 / 1.98	1 / 1.98	5.94	74.4	9.02	1.7934	78 / 93
25	28.8 / 4.80	33.6	6 / 2.47	1 / 2.47	7.41	116.2	13.96	1.1478	102 / 122
40	46.0 / 7.67	53.7	6 / 3.13	1 / 3.13	9.39	185.9	22.02	0.7174	135 / 163
63	72.5 / 12.1	84.6	6 / 3.92	1 / 3.92	11.76	292.8	34.68	0.4555	177 / 215
100	115 / 6.39	121	18 / 2.85	1 / 2.85	14.25	366.4	41.24	0.2880	246 / 301
160	184 / 30.0	214	26 / 3.00	7 / 2.34	19.02	742.3	88.52	0.1805	326 / 404
200	230 / 37.5	268	26 / 3.36	7 / 2.61	21.27	927.9	110.64	0.1444	371 / 462
250	288 / 46.9	335	26 / 3.75	7 / 2.92	23.76	1159.8	138.31	0.1155	421 / 529
315	363 / 59.0	422	26 / 4.21	7 / 3.28	26.68	1461.4	171.90	0.0917	480 / 607
400	460 / 59.7	520	54 / 3.29	7 / 3.29	29.61	1738.3	193.61	0.0723	540 / 688
500	575 / 74.6	650	54 / 3.68	7 / 3.68	33.12	2172.9	240.93	0.0578	611 / 785
630	725 / 91.8	817	54 / 4.13	19 / 2.48	37.18	2723.5	281.32	0.0459	691 / 899

Values are nominal per IEC 61089 Type A2/S1A (alloy A2, regular-strength galvanised steel S1A). Other sizes, higher-strength steel cores (S1B, S3A) and A3 alloy are made to order.

Current ratings at 45 °C ambient, 0.56 m/s wind, 1045 W/m² solar radiation, emissivity 0.45, absorptivity 0.80, sea level. Final values are confirmed in the Guaranteed Technical Particulars (GTP) for each order.

Packing

Non-returnable wooden or steel drums to IS 1778 / customer specification

Enquiries

info@kjvalloys.com · +91 74477 88835