



ALLOY REINFORCED ALUMINIUM CONDUCTOR

IEC 61089 / ASTM B524

11 orderable sizes

STANDARD IEC 61089 / ASTM B524	CONDUCTOR Alloy reinforced aluminium conductor	INSULATION / JACKET Bare conductor
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Construction

- 1 **Conductor** – Aluminium conductor with aluminium alloy core · 7 × Ø2.52 mm · IEC 60228 cl.2

Size selection – all available cross-sections

Cable reference	Conductor size	Stranding	Nominal diameter	Max DC resistance at 20 °C	Rated strength guide	Weight guide	Standard reference
ACAR aluminium conductor alloy reinforced ACAR conductor 35 mm ²	35 mm ²	7 aluminium wires	7.22 mm	0.82 Ω/km	4.2 kN	95 kg/km	ACAR conductor
ACAR aluminium conductor alloy reinforced ACAR conductor 50 mm ²	50 mm ²	19 aluminium wires	8.63 mm	0.58 Ω/km	6 kN	135 kg/km	ACAR conductor
ACAR aluminium conductor alloy reinforced ACAR conductor 70 mm ²	70 mm ²	19 aluminium wires	10.21 mm	0.41 Ω/km	8.4 kN	189 kg/km	ACAR conductor
ACAR aluminium conductor alloy reinforced ACAR conductor 95 mm ²	95 mm ²	19 aluminium wires	11.89 mm	0.30 Ω/km	11.4 kN	257 kg/km	ACAR conductor
ACAR aluminium conductor alloy reinforced ACAR conductor 120 mm ²	120 mm ²	19 aluminium wires	13.4 mm	0.240 Ω/km	14.4 kN	324 kg/km	ACAR conductor
ACAR aluminium conductor alloy reinforced ACAR conductor 150 mm ²	150 mm ²	19 aluminium wires	14.9 mm	0.192 Ω/km	18 kN	405 kg/km	ACAR conductor

Cable reference	Conductor size	Stranding	Nominal diameter	Max DC resistance at 20 °C	Rated strength guide	Weight guide	Standard reference
ACAR aluminium conductor alloy reinforced ACAR conductor 185 mm ²	185 mm ²	37 or 61 aluminium wires	16.6 mm	0.156 Ω/km	22.2 kN	500 kg/km	ACAR conductor
ACAR aluminium conductor alloy reinforced ACAR conductor 240 mm ²	240 mm ²	37 or 61 aluminium wires	18.9 mm	0.120 Ω/km	28.8 kN	648 kg/km	ACAR conductor
ACAR aluminium conductor alloy reinforced ACAR conductor 300 mm ²	300 mm ²	37 or 61 aluminium wires	21.1 mm	0.096 Ω/km	36 kN	810 kg/km	ACAR conductor
ACAR aluminium conductor alloy reinforced ACAR conductor 400 mm ²	400 mm ²	37 or 61 aluminium wires	24.4 mm	0.072 Ω/km	48 kN	1080 kg/km	ACAR conductor
ACAR aluminium conductor alloy reinforced ACAR conductor 500 mm ²	500 mm ²	37 or 61 aluminium wires	27.3 mm	0.058 Ω/km	60 kN	1350 kg/km	ACAR conductor

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