

ALUMINIUM CONDUCTOR ALLOY REINFORCED



APPLICATIONS:

Used as bare overhead conductor for power transmission and distribution lines, where higher capacity and strength for equal weight are prime line considerations. ACAR is the solution over ACSR due to its better strength to weight ratio.

SPECIFICATIONS:

Anvil's bare Aluminium Conductor Alloy Reinforced meet the following specifications:

- ASTM B 524
- IEC 1089

CONSTRUCTION:

ACAR is constructed by concentrically stranding hard drawn EC grade aluminium wires over an aluminium alloy (6201) core. In some constructions, the aluminium alloy strands re distributed throughout the EC aluminium strands.



ANVIL CABLES PVT. LTD.

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AMERICAN SIZES: ASTM B 524-78

Conductor size					Diameter		Weight	Nominal Breaking Load	Max. DC Resistance at 20°C
Size	Stranding	Cross Sectional Area			Individual Wire	Conductor			
kcm	1350/6201	1350 mm ²	6201 mm ²	Total mm ²	1350/6201 mm	mm	Kg/km	kgf	Ω/km
355.00	12/7	113.6	66.3	179.9	3.472	17.36	495.9	3874	0.1686
465.90	12/7	149.1	87.0	236.1	3.978	19.89	650.8	4989	0.1286
503.60	12/7	161.2	94.0	255.2	4.135	20.68	703.4	5398	0.1188
653.10	12/7	209.0	121.9	331.0	4.709	23.55	912.3	6985	0.0915
739.80	30/7	303.9	70.9	374.9	3.592	25.14	1033	6940	0.0787
739.8	18/19	182.4	192.5	374.9	3.592	25.14	1300	8527	0.0827
853.7	30/7	350.8	81.8	432.6	3.858	27.01	1193	7938	0.0682
853.7	18/19	210.5	222.1	432.6	3.858	27.01	1193	9752	0.0715
927.2	30/7	381.0	88.8	469.8	4.021	28.15	1295	8618	0.0630
927.2	18/19	228.6	241.2	469.8	4.021	28.15	1295	10614	0.0659
1024.50	30/7	420.9	98.2	519.1	4.227	29.59	1431	9480	0.0568
1024.50	18/19	252.5	266.6	519.1	4.227	29.59	1431	11703	0.0597
1081.00	30/7	433.9	103.9	547.8	4.341	30.39	1509	10024	0.0538
1081.00	18/19	266.5	281.2	547.8	4.341	30.39	1509	12338	0.0564
1109.00	30/7	455.5	106.4	562.0	4.397	30.78	1549	10296	0.0535
1109.0	18/19	273.6	288.3	562.0	4.397	30.78	1549	12655	0.0511
1172.0	30/7	481.6	112.4	594.0	4.521	31.65	1638	10886	0.0499
1172.0	18/19	289.0	305.1	594.0	4.521	31.65	1638	13381	0.0522
1198.0	30/7	492.0	115.0	607.1	4.569	31.99	1673	11113	0.0486
1198.0	18/19	295.4	311.5	607.1	4.569	31.99	1673	13698	0.0512
1280.0	30/7	525.8	122.6	648.4	4.724	33.07	1788	11884	0.0456
1280.0	18/19	315.5	332.9	648.4	4.724	33.07	1788	14606	0.0479
1361.0	24/37	271.4	418.5	689.9	3.795	34.15	1902	16193	0.0456
1361.0	42/19	475.0	214.9	689.9	3.795	34.15	1902	13744	0.0436
1527.0	24/37	304.4	469.2	773.6	4.018	36.16	2132	18053	0.0407



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