

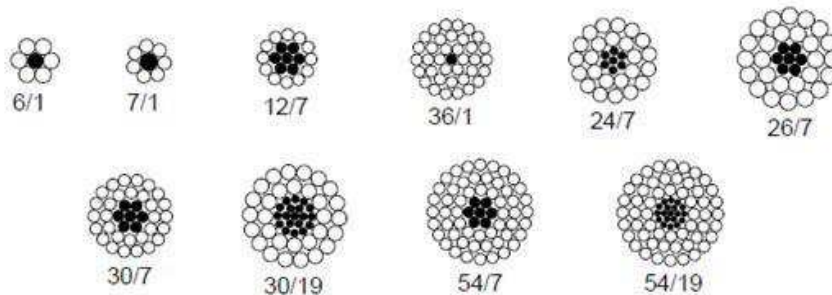


SPECIFICATIONS AND STANDARDS:

ACSR bare conductor meets or exceeds the **DIN-48204**:

CONSTRUCTION:

Aluminum Conductors Steel Reinforced (ACSR) consists of a galvanized steel core of 1 wire, 7 wires or 19 wires surrounded by concentric layers of aluminum wire, when a conductor with a high current carrying capacity and comparatively low strength is required, special constructions are available with high aluminum content. Core wire for ACSR is available with class A, B, or C galvanizing; "aluminized" aluminum coated (AZ); or aluminum – clad (AW).



APPLICATIONS:

ACSR is used as bare overhead transmission cable and as primary and secondary distribution cable. ACSR offers optimal strength for line design. Variable steel core stranding enables desired strength to be achieved without sacrificing capacity.

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

ACSR conductors manufactured to DIN-48204.

Code number	Calculated area			Stranding and wire diameter		Overall diameter	Linear mass			Rated strength	Max. DC resistance at 20°C	
	Al/St.	Al.	Steel	Total	Al.		Steel	Al.	Steel			Total
	mm ²	mm ²	mm ²	mm ²	mm	mm	mm	kg/km	kg/km	kg/km	daN	Ω/km
16/2.5	15.3	2.5	17.8	6/1.80	1/1.80	5.4	42	20	62	595	1.8780	
25/4	23.8	4.0	27.8	6/2.25	1/2.25	6.8	65	32	97	920	1.2002	
35/6	34.3	5.7	40.0	6/2.70	1/2.70	8.1	94	46	140	1265	0.8352	
44/32	44.0	31.7	75.7	14/2.00	7/2.40	11.2	122	250	372	4500	0.6573	
50/8	48.3	8.0	56.3	6/3.20	1/3.20	9.6	132	64	196	1710	0.5946	
50/30	51.2	29.8	81.0	12/2.33	7/2.33	11.7	141	237	378	4380	0.5643	
70/12	69.9	11.4	81.3	26/1.85	7/1.44	11.7	193	91	284	2680	0.4130	
95/15	94.4	15.3	109.7	26/2.15	7/1.67	13.6	260	123	383	3575	0.3058	
95/55	96.5	56.3	152.8	12/3.20	7/3.20	16.0	266	446	712	7935	0.2992	
105/75	105.7	75.5	181.5	14/3.10	9/2.25	17.5	292	599	891	10845	0.2735	
120/20	121.06	19.8	141.4	26/2.44	7/1.90	15.5	336	158	494	4565	0.2374	
120/70	122.0	71.3	193.3	12/3.6	7/3.60	18.0	337	564	901	10000	0.2364	
125/30	127.9	29.8	157.7	30/2.33	7/2.33	16.3	353	238	591	5760	0.2259	
150/25	148.9	24.2	173.1	26/2.70	7/2.10	17.1	411	194	605	5525	0.1939	
170/40	171.8	40.1	211.9	30/2.70	7/2.70	18.9	475	319	794	7675	0.1682	
185/30	183.8	29.8	213.6	26/3.00	7/2.33	19.0	507	239	746	6620	0.1571	
210/35	209.1	34.1	243.2	26/3.20	7/2.49	20.3	577	273	850	7490	0.1380	
210/50	212.1	49.5	261.6	30/3.00	7/3.00	21.0	587	394	981	9390	0.1362	
230/30	230.9	29.8	260.7	24/3.50	7/2.33	21.0	638	239	877	7310	0.1249	
240/40	243.0	39.5	282.5	26/3.45	7/2.68	21.9	671	316	987	8640	0.1188	
265/35	263.7	34.1	297.8	24/3.74	7/2.49	22.4	728	274	1002	8305	0.1094	
300/50	304.3	49.5	353.7	26/3.86	7/3.00	24.5	840	396	1236	10700	0.09487	
305/40	304.6	39.5	344.1	54/2.68	7/2.68	24.1	843	317	1160	9940	0.09490	
340/30	339.3	29.8	369.1	48/3.00	7/2.33	25.0	938	242	1180	9290	0.08509	
380/50	382.0	49.5	431.5	54/3.00	7/3.00	27.0	1056	397	1453	12310	0.08509	
385/35	386.0	34.1	420.1	48/3.20	7/2.49	26.7	1067	277	1344	10480	0.07573	
435/55	434.03	59.3	490.6	54/3.20	7/3.20	28.8	1203	450	1653	13645	0.07478	



Aluminum Conductor Steel Reinforced. Bare

450/40	448.7	39.5	488.2	48/3.45	7/2.68	28.7	1241	320	1561	12075	0.06656
490/65	490.3	63.6	553.9	54/3.40	7/3.40	30.6	1356	510	1866	15310	0.06434
495/35	494.1	34.1	528.2	45/3.74	7/2.49	29.9	1363	283	1646	12180	0.05846
510/45	510.2	45.3	555.5	48/3.68	7/2.87	30.7	1413	365	1778	13665	0.05655
550/70	550.0	71.3	621.3	54/3.60	7/3.60	32.4	1520	572	2092	17060	0.05259
560/50	561.7	49.5	611.2	48/3.86	7/3.00	32.2	1553	401	1954	14895	0.05140
570/40	565.5	39.5	610.3	45/4.02	7/2.68	32.2	1563	325	1888	13900	0.05108
650/45	698.8	45.3	653.49	45/4.30	7/2.87	34.4	1791	372	2163	15552	0.0442
680/85	678.8	86.0	764.8	54/4.00	19/2.40	36.0	1868	702	2570	21040	0.04260
1045/45	1045.58	45.3	1090.9	72/4.30	7/2.87	43.0	2879	370	3249	21787	0.0277