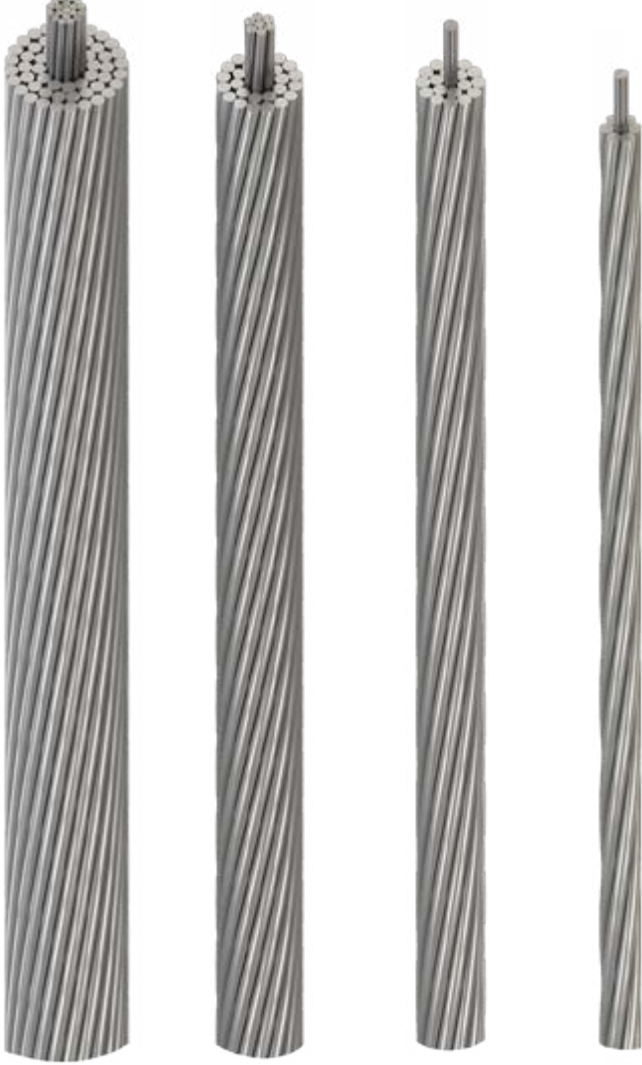


ACSR

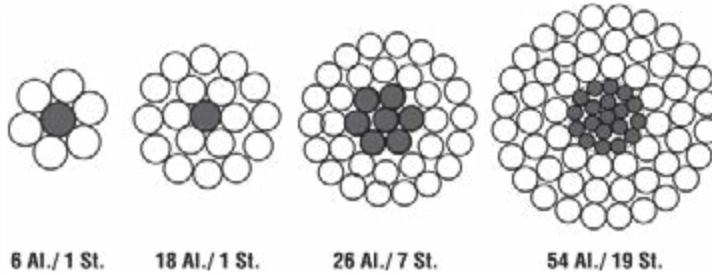


TEKNİK BİLGİLER

Orta ve yüksek gerilim iletim hatlarında kullanılırlar. TS EN 50182 Standardına uygun olarak alüminyum tellerden ve çinko kaplı çelik tellerden imal edilirler. İletkenler yedi veya daha fazla tellerden eş merkez tabakalı olarak örülürler. Eğer iletken birden fazla tabakadan oluşuyorsa bitişik tabakalar birbirine ters adım yönünde örülür. İstendiğinde DIN. BS. ASTM. NF. CSA. EN standartlarına uygun üretim yapılabilir.

TECHNICAL DATA

They are used in medium and high voltage transmission lines. The aluminium wires and zinc coated steel wires are produced in accordance with TS EN 50182 standards. Conductors are stranded with seven or more wire as concentrically. If conductors are consist of more than one layer. than they are stranded in reverse direction to each other. Upon request they can be produced in accordance to DIN. BS. ASTM. NF. CSA. EN standards..



TEKNİK ÖZELLİKLER TECHNICAL DATA

ACSR

ACSR AMERİKAN STANDARTI / AMERICAN STANDARDS

ASTM B232 / B232M

Kod	Tel Sayısı ve Tel Çapı		Dış Çap	Kesit Alanı			Net Ağırlık (Yaklaşık)	Kopma Yüğü	D.A. Direnci	Akım Taşıma Kapasitesi
	Number and Wire Diameter			Cross Section						
Code	Alüminyum	Çelik	Overall Diameter	Alüminyum	Çelik	Toplam	Net Weight (Approx)	Rated Stenght	DC Resistance	Cuurent Carrying Capacity
	Aluminium	Steel		Aluminium	Steel	Total				
-	mm	mm	mm	mm	mm	mm	kg / km	kN	ohm/km	A
Turkey	6/1.68	1/1.68	5.04	13.29	2.21	15.5	53.6	5.2	2.15700	105
Swan	6/2.12	1/2.12	6.36	21.16	3.55	24.71	85.3	8.3	1.35600	140
Swanate	7/1.96	1/2.61	6.53	21.16	5.35	26.51	99.6	10.5	1.35600	140
Sparrow	6/2.67	1/2.67	8.01	33.61	5.61	39.22	135.7	12.7	0.85300	184
Sparate	7/2.47	1/3.30	8.24	33.61	8.52	42.13	158.7	16.1	0.85300	184
Robin	6/3.00	1/3.00	9	42.39	7.1	49.49	171.1	15.8	0.67650	212
Raven	6/3.37	1/3.37	10.11	53.48	8.9	62.38	216.1	19.4	0.53640	242
Quail	6/3.78	1/3.78	11.34	67.42	11.23	78.65	272.0	23.6	0.42550	276
Pigeon	6/4.25	1/4.25	12.75	85.03	14.19	99.22	343.0	29.5	0.33730	315
Penguin	6/4.77	1/4.77	14.31	107.23	17.87	125.1	432.7	37.1	0.26760	357
Waxwing	18/3.09	1/3.09	15.45	135.16	7.48	142.64	430.2	30.6	0.21330	449
Partridge	26/2.57	7/2.00	16.28	135.16	22	157.16	545.9	50.3	0.21420	475
Ostrich	26/2.73	7/2.12	17.28	152	24.77	176.77	613.4	56.5	0.19060	492
Merlin	18/2.89	1/2.25	18.29	118	3.97	121.99	542.8	38.63	0.17188	519
Linnet	26/2.89	7/2.25	18.31	170.45	27.74	198.19	687.5	62.7	0.16990	529
Oriole	30/2.69	7/2.69	18.83	170.45	39.81	210.26	783.3	77.0	0.17040	535
Chickdee	18/3.77	1/3.77	18.85	201.42	11.16	212.58	641.3	44.2	0.14320	576
Brant	24/3.27	7/2.18	19.61	201.42	26.13	227.55	761.0	64.9	0.14380	584
Ibis	26/3.14	7/2.44	19.88	201.42	32.77	234.19	812.4	72.5	0.14380	587
Lark	30/2.92	7/2.92	20.44	201.42	46.97	248.39	925.2	90.3	0.14420	594
Pelican	18/4.14	1/4.14	20.7	241.68	13.42	255.1	769.7	52.5	0.11930	646
Flicker	24/3.58	7/2.39	21.49	241.68	31.29	272.97	913.5	76.1	0.11990	655
Hawk	26/3.44	7/2.68	21.8	241.68	39.35	281.03	975.1	86.7	0.11990	659
Hen	30/3.20	7/3.20	22.4	241.68	56.39	298.07	1110.3	105.9	0.12020	666
Osprey	18/4.47	1/4.47	22.35	282	15.68	297.68	897.7	60.9	0.10220	711
Parakeet	24/3.87	7/2.58	23.22	282	36.58	318.58	1065.6	88.1	0.10280	721
Dove	26/3.72	7/2.89	23.55	282	45.94	327.94	1138.6	100.5	0.10280	726
Eagle	30/3.46	7/3.46	24.21	282	65.81	347.81	1295.6	123.7	0.10300	734
Peacock	24/4.03	7/2.69	24.2	306.58	39.74	346.32	1158.9	95.6	0.09449	760
Squab	26/3.87	26/.1525	24.51	306.58	49.94	356.52	1237.0	106.8	0.09449	765
Wood Duc	30/3.61	7/3.61	25.25	306.58	71.55	378.13	1408.4	128.5	0.09473	774
Teal	30/3.61	19/2.16	25.24	306.58	69.87	376.45	1396.6	133.4	0.09475	773
Kingbird	18/4.78	1/4.78	23.88	322.39	17.74	340.13	1026.6	69.8	0.89420	773
Swift	36/3.38	1/3.37	23.62	322.2	8.9	331.14	956.6	61.38	0.89751	769
Rook	24/4.14	7/2.76	24.84	322.26	41.81	364.07	1217.6	101.0	0.08989	784
Grosbeak	26/3.97	7/3.09	25.15	300.26	52.52	374.78	1300.8	112.1	0.08989	789
Scoter	30/3.70	7/3.70	25.88	322.26	75.22	397.48	1480.7	134.8	0.09011	798
Egret	30/3.70	19/2.22	25.9	322.26	7.48	395.74	1469.0	140.1	0.09012	798
Flamingo	24/4.23	7/2.82	25.4	337.74	43.81	381.55	1276.6	105.4	0.08576	807
Gannet	26/4.07	7/3.16	28.3	337.81	55.03	392.84	1363.3	117.4	0.08576	812
Stilt	24/4.39	7/2.92	26.31	362.64	46.97	409.61	1370.4	113.4	0.07989	844
Starling	26/4.21	7/3.28	26.68	362.58	59.03	421.61	1463.7	126.3	0.07992	849
Redwing	30/3.92	19/2.35	27.43	362.58	82.64	445.22	1650.6	153.9	0.08009	859

ACSR AMERİKAN STANDARDI / AMERICAN STANDARDS

ASTM B232 / B232M

Kod	Tel Sayısı ve Tel Çapı		Dış Çap	Kesit Alanı			Net Ağırlık (Yaklaşık)	Kopma Yüğü	D.A. Direnci	Akım Taşıma Kapasitesi
	Number and Wire Diameter			Cross Section						
Code	Alüminyum	Çelik	Overall Diameter	Alüminyum	Çelik	Toplam	Net Weight (Approx)	Rated Stenght	DC Resistance	Cuurent Carrying Capacity
	Aluminium	Steel		Aluminium	Steel	Total				
-	mm	mm	mm	mm	mm	mm	kg / km	kN	ohm/km	A
Coot	36/3.77	1/3.77	26.39	401.9	11.2	413.1	1198	74.7	0.07397	884
Tern	45/3.38	7/2.25	27.03	402.84	27.87	430.71	1331.8	98.3	0.07192	887
Condor	54/3.08	7/3.08	27.72	402.84	52.19	455.03	1520.7	125.4	0.07192	889
Cuckoo	24/4.62	7/3.08	27.74	402.9	52.2	455.1	1522.2	124.1	0.07190	887
Drake	26/4.44	7/3.45	28.11	402.84	65.61	468.45	1626.4	140.1	0.07192	907
Mallard	30/4.14	19/2.48	28.96	402.84	91.87	494.71	1836.0	170.8	0.07208	918
Ruddy	45/3.59	7/2.40	28.73	455.81	31.54	487.35	1507.3	108.3	0.06356	958
Canary	54/3.28	7/3.28	29.52	456.06	59.1	515.16	1723.1	141.9	0.06352	961
Rail	45/3.70	7/2.47	29.61	483.42	33.42	516.84	1598.1	115.2	0.05994	993
Cardinal	54/3.38	7/3.38	30.42	483.42	62.65	546.07	1825.9	150.3	0.05994	996
Ortolan	45/3.85	7/2.57	30.81	523.68	36.19	559.87	1730.5	123.2	0.05531	1043
Curlew	54/3.52	7/3.52	31.68	523.68	67.87	591.55	1977.6	162.8	0.05531	1047
Bluejay	45/4.00	7/2.66	31.98	563.93	39.03	602.96	1866.0	132.6	0.05161	1092
Finch	54/3.65	19/2.19	32.85	563.93	71.48	635.41	2127.8	173.9	0.05161	1093
Bunting	45/4.14	7/2.76	33.12	604.26	41.55	645.81	1996.9	141.9	0.04820	1139
Grackle	54/3.77	19/2.27	33.97	604.26	76.52	680.78	2278.1	185.9	0.04820	1140
Bittern	45/4.27	7/2.85	34.17	644.1	44.52	688.62	2130.8	151.7	0.04518	1184
Pheasant	54/3.90	19/2.34	35.1	644.51	81.68	726.19	2431.4	193.9	0.04518	1187
Dipper	45/4.40	7/2.92	35.16	685.16	47.1	732.26	2263.0	161.0	0.04259	1229
Martin	54/4.02	19/2.41	36.17	684.84	86.71	771.55	2581.7	205.9	0.04259	1232
Bobolink	45/4.53	7/3.02	36.24	725.16	50.32	775.48	2397.2	170.8	0.04016	1272
Plover	54/4.14	19/2.48	37.24	725.16	91.81	816.97	2734.9	218.0	0.04016	1275
Nuthatch	45/4.65	7/3.10	37.2	765.16	52.9	818.06	2529.6	178.4	0.03802	1313
Parrot	54/4.25	19/2.55	38.25	765.16	97.16	862.32	2883.7	230.4	0.03802	1318
Lapwing	45/4.77	7/3.18	38.16	805.8	55.48	861.28	2663.5	187.3	0.03612	1354
Falcon	54/4.36	19/2.62	39.26	805.8	102.32	908.12	3038.5	242.9	0.03612	1359
Chuckar	84/3.70	19/2.22	42.7	901.93	73.55	975.48	3083.1	228.2	0.03228	1453
Bluebird	84/4.07	19/2.44	44.76	1092.2895	88.80	1181.09	3736.1	268.7	0.02667	1623
Kiwi	72/4.41	7/2.94	44.1	1099.21	47.50	1146.70	3425.6	222.0	0.02667	1607

TEKNİK ÖZELLİKLER TECHNICAL DATA

ACSR

ACSR IEC STANDARDI / IEC STANDARDS

IEC 61089:1997

Kod	Tel Sayısı ve Tel Çapı		Dış Çap	Kesit Alanı			Net Ağırlık (Yaklaşık)	Kopma Yüğü	D.A. Direnci
	Number and Wire Diameter			Cross Section					
Code	Alüminyum	Çelik	Overall Diameter	Alüminyum	Çelik	Toplam	Net Weight (Approx)	Rated Stenght	DC Resistance
	Aluminium	Steel		Aluminium	Steel	Total			
-	mm	mm	mm	mm	mm	mm	kg / km	kN	ohm/km
16	6/1.81	1/1.81	5.43	15	2.56	17.9	59.0		17.923
25	6/2.26	1/2.26	6.78	24	4.00	28	92.1	9.00	11.471
40	6/2.85	1/2.85	8.55	38	6.40	44.8	147.4	14.21	0.7169
63	6/3.58	1/3.58	10.7	60	10.08	70.6	232.2	21.17	0.4552
100	6/4.51	1/4.51	13.5	96	16.00	112	368.6	31.84	0.2868
125	18/2.95	1/2.95	14.8	123	6.85	130	384.3	29.18	0.2304
125	26/2.43	7/1.89	15.4	120	19.6	140	460.8	44.49	0.2308
160	18/3.34	1/3.34	16.7	158	8.77	167	491.9	3.638	0.1800
160	26/2.74	7/2.13	17.4	154	25.0	179	589.9	56.18	0.1803
200	18/3.74	1/3.74	18.7	197	10.96	208	614.9	43.62	0.1440
200	26/3.07	7/2.39	19.4	192	31.3	223	737.2	69.27	0.1443
250	22/3.76	7/2.09	21.3	244	24.0	268	830.9	67.80	0.1153
250	26/3.43	7/2.67	21.7	240	39.1	279	921.5	86.58	0.1154
315	45/2.96	7/1.97	23.7	310	21.4	331	996.4	78.33	0.0917
315	26/3.85	7/3.02	24.4	303	49.3	352	11.61.1	107.58	0.0916
400	45/3.34	7/2.22	26.7	393	27.2	420	1265.3	97.50	0.0722
400	54/3.02	7/3.02	27.2	387	50.2	438	1402.9	124.20	0.0723
450	45/3.54	7/2.36	28.3	442	30.6	473	1423.4	107.48	0.0642
450	54/3.21	7/3.21	28.9	436	56.5	492	1578.2	139.72	0.0642
500	45/3.73	7/2.49	29.8	492	34.0	525	1581.6	119.42	0.0578
500	54/3.38	7/3.38	30.4	484	62.8	547	1753.6	153.99	0.0578
560	45/3.95	7/2.63	31.6	550	38.1	589	1771.4	133.75	0.0516
560	54/3.58	19/2.15	32.2	543	68.8	612	1956.3	169.36	0.0516
630	45/4.19	7/2.79	33.5	619	42.8	662	1992.8	150.47	0.0458
630	54/3.79	19/2.28	34.2	611	77.3	688	2200.9	190.52	0.0459
710	45/4.44	7/2.96	35.6	698	48.3	746	2245.8	169.57	0.0407
710	54/4.03	19/2.42	36.3	688	87.2	775	2480.3	214.72	0.0407
800	72/3.74	7/2.49	37.4	791	34.2	826	2412.8	167.67	0.0361
800	84/3.45	7/3.45	37.9	784	65.3	849	2598.9	206.37	0.0362
800	54/4.28	19/2.57	38.5	775	98.2	874	2794.7	241.94	0.0361
900	72/3.97	7/2.65	39.7	890	38.5	929	2714.4	188.63	0.0321
900	84/3.66	7/3.66	40.2	882	73.5	955	2923.8	224.82	0.0321
1000	72/4.18	7/2.79	41.8	989	42.7	1032	3016.0	209.59	0.0289
1120	72/4.43	19/1.77	44.33	1108	46.8	1155	3372.6	233.48	0.0258
1120	84/4.08	19/2.45	46.8	1098	89.4	1187	3628.4	282.88	0.0258
1250	72/4.68	19/1.87	46.8	1237	52.5	1289	3764.1	260.58	0.0231
1250	84/4.31	19/2.59	47.4	1225	99.8	1325	4049.5	315.72	0.0231

ACSR ALMAN STANDARDI / GERMAN STANDARDS

EN 50182 - DIN - 48204

Yeni Kod	Eski Kod	Tel Sayısı ve Tel Çapı		Dış Çap	Kesit Alanı			Net Ağırlık (Yaklaşık)	Kopma Yüğü	D.A. Direnci	Akım Taşıma Kapasitesi
		Number and Wire Diameter			Cross Section						
New Code	Old Code	Alüminyum	Çelik	Overall Diameter	Alüminyum	Çelik	Toplam	Net Weight (Approx)	Rated Stenght	DC Resistance ohm/km	Cuurent Carrying Capacity
		Aluminium	Steel		Aluminium	Steel	Total				
-	-	mm	mm	mm	mm	mm	mm	kg / km	kN	ohm/km	A
15 - AL1/3 - ST1A	16/2.5	6/1.80	1/1.80	5.4	15.3	2.5	17.9	62	5.81	1.8793	105
24 - AL1/4 - ST1A	25/4	6/2.25	1/2.25	6.8	23.8	4	27.8	96	9.02	1.2028	140
34 - AL1/6 - ST1A	35/6	6/2.70	1/2.70	8.1	34.3	5.7	40	139	12.70	0.8353	170
44 - AL1/32 - ST1A	44/32	14/2.00	7/2.40	11.2	44	31.7	75.7	369	45.46	0.6573	-
48 - AL1/8 - SAT1A	50/8	6/3.20	1/3.20	9.6	48.3	8	56.3	195	17.18	0.5946	210
51 - AL1/30 - SAT1A	50/30	12/2.33	7/2.33	11.7	51.2	29.8	81	375	44.28	0.5644	-
70 - AL1/11 - ST1A	70/12	26/1.85	7/1.44	11.7	69.9	11.4	81.3	282	26.31	0.4130	290
94 - AL1/15 - ST1A	95/15	26/2.15	7/1.67	13.6	94.4	15.3	110	381	35.17	0.3058	350
97 - AL1/56 - ST1A	95/55	12/3.20	7/3.20	16	96.5	56.3	153	707	80.20	0.2992	-
106 - AL1/76 - ST1A	105/75	14/3.10	19/2.25	17.5	105.7	75.5	182	885	106.69	0.2736	-
122 - AL1/20 - ST1A	120/20	26/2.44	7/1.90	15.5	121.6	19.8	141	491	44.94	0.2374	410
122 - AL1/71 - ST1A	120/70	12/3.60	7/3.60	18	122	71.3	193	895	98.16	0.2364	-
128 - AL1/30 - ST1A	125/30	30/2.33	7/2.33	16.1	127.9	29.8	158	587	57.86	0.2259	425
149 - AL1/24 - ST1A	150/25	26/2.70	7/2.10	17.1	148.9	24.2	173	601	54.37	0.1939	470
172 - AL1/40 - ST1A	170/40	30/2.70	7/2.70	18.9	171.8	40.1	212	788	77.01	0.1682	520
184 - AL1/30 - ST1A	185/30	26/3.00	7/2.33	19	183.8	29.8	214	741	66.28	0.1571	535
209 - AL1/34 - ST1A	210/35	26/3.20	7/2.49	20.3	209.1	34.1	243	844	74.94	0.1380	590
212 - AL1/49 - ST1A	210/50	30/3.00	7/3.00	21.3	212.1	49.5	262	973	92.25	0.1363	610
231 - AL1/30 - ST1A	230/30	24/3.50	7/2.33	21	230.9	29.8	261	871	73.09	0.1249	630
243 - AL1/39 - ST1A	240/40	26/3.45	7/2.68	21.9	243	39.5	283	980	86.46	0.1188	645
264 - AL1/34 - ST1A	265/35	24/3.74	7/2.49	22.4	263.7	34.1	298	994	82.94	0.1094	680
304 - AL1/47 - ST1A	300/50	26/3.86	7/3.00	24.5	304.3	49.5	354	1227	105.09	0.0949	740
305 - AL1/39 - ST1A	305/40	54/2.68	7/2.68	24.1	304.6	39.5	344	1151	99.30	0.0949	740
339 - AL1/30 - ST1A	340/30	48/3.00	7/2.33	25	339.3	29.8	369	1171	92.56	0.0851	790
382 - AL1/49 - ST1A	380/50	54/3.00	7/3.00	27	382	49.5	432	1443	120.91	0.0757	840
386 - AL1/34 - ST1A	385/35	48/3.20	7/2.49	26.7	386	34.1	420	1334	104.31	0.0748	850
434 - AL1/56 - ST1A	435/55	54/3.20	7/3.20	28.8	434.3	56.3	491	1641	136.27	0.0666	900
449 - AL1/39 - ST1A	450/40	48/3.45	7/2.68	28.7	448.7	39.5	488	1549	120.19	0.0644	920
490 - AL1/64 - ST1A	490/65	54/3.40	7/3.40	30.6	490.3	63.6	554	1853	152.85	0.0590	960
494 - AL1/34 - ST1A	495/35	45/3.74	7/2.49	29.9	494.4	34.1	528.4	1632	117.96	0.0584	985
511 - AL1/45 - ST1A	510/45	48/3.68	7/2.87	30.7	510.15	45.3	555.8	1765	133.31	0.0566	995
550 - AL1/71 - ST1A	550/70	54/3.60	7/3.60	32.4	550	71.3	621	2077	166.32	0.0526	1020
562 - AL1/49 - ST1A	560/50	48/3.86	7/3.00	32.2	561.7	49.5	611	1940	146.28	0.0514	1040
571 - AL1/39 - ST1A	570/40	45/4.02	7/2.68	32.2	571.2	39.5	610.6	1887	136.4	0.0506	1050
653 - AL1/45 - ST1A	650/45	45/4.30	7/2.87	34.4	653.5	45.3	698.8	2160	156.18	0.0442	1120
679 - AL1/86 - ST1A	680/85	54/4.00	19/2.40	36	678.8	86	765	2550	206.56	0.0426	1150
1046 - AL1/45 - ST1A	1045/45	72/4.30	7/2.87	43	1045.6	45.3	1010	3248	218.92	0.0277	1580

TEKNİK ÖZELLİKLER TECHNICAL DATA

ACSR

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CSA C 49

Kod	Tel Sayısı ve Tel Çapı		Dış Çap	Kesit Alanı			Net Ağırlık (Yaklaşık)	Kopma Yüğü	D.A. Direnci	Akım Taşıma Kapasitesi
	Number and Wire Diameter			Cross Section						
Code	Alüminyum	Çelik	Overall Diameter	Alüminyum	Çelik	Toplam	Net Weight (Approx)	Rated Stenght	DC Resistance	Cuurent Carrying Capacity
	Aluminium	Steel		Aluminium	Steel	Total				
-	mm	mm	mm	mm	mm	mm	kg / km	kN	ohm/km	A
Wren	6/1.33	1/1.33	3.99	8.39	1.42	9.81	34	3.3	3.4226	63
Warbler	6/1.50	1/1.50	4.5	10.59	1.34	11.93	43	4.2	2.7139	67
Turkey	6/1.68	1/1.68	5.04	13.29	2.19	15.48	54	5.2	2.1535	86
Thrush	6/1.89	1/1.89	5.67	16.77	2.77	19.54	68	6.5	1.7077	93
Swan	6/2.12	1/2.12	6.36	21.16	3.55	24.71	85	8.2	1.3537	109
Swallow	6/2.38	1/2.38	7.14	26.65	4.45	31.09	108	10.0	1.0738	126
Sparrow	6/2.67	1/2.67	8.01	33.61	5.61	39.22	136	12.4	0.8504	140
Robin	6/3.00	1/3.00	9	42.39	7.1	49.49	171	15.5	0.6752	162
Raven	6/3.37	1/3.37	10.11	53.48	8.9	62.38	215	19.0	0.5351	186
Quail	6/3.78	1/3.78	11.34	67.42	11.23	78.65	273	10.8	0.4245	211
Pigeon	6/4.25	1/4.25	12.75	85.03	14.19	99.22	343	29.7	0.3366	241
Penguin	6/4.77	1/4.77	14.31	107.23	17.87	125.1	433	37.5	0.2671	276
Owl	6/5.36	7/1.74	16.09	135.16	17.55	152.7	508	42.5	0.2119	322
Waxwing	18/3.09	1/3.09	15.15	135.16	7.48	142.6	430	31.5	0.2126	319
Partridge	26/2.57	7/2.00	16.28	135.16	22	157.2	545	50.01	0.2136	321
Phoebe	18/3.28	1/3.28	16.4	152	8.45	160.5	483	35.5	0.1893	341
Ostrich	26/2.73	7/2.12	17.28	152	24.71	176.7	613	56.2	0.19	343
Piper	30/2.54	7/2.54	17.78	152	35.48	187.5	697	68.6	0.1903	348
Merlin	18/3.47	1/3.47	17.35	170.45	9.48	179.9	543	39.8	0.1686	364
Linnet	26/2.89	7/2.25	18.31	170.45	27.81	198.3	687	62.5	0.1696	368
Oriole	30/2.69	7/2.69	18.83	170.45	39.81	210.3	783	75.8	0.1696	370
Chickadee	18/3.77	1/3.77	18.85	201.42	11.16	212.6	641	46.3	0.143	402
Ibis	26/3.14	7/2.44	19.88	201.42	32.77	234.2	813	72.0	0.1434	404
Lark	30/2.92	7/2.92	20.44	201.42	46.97	248.4	923	88.8	0.1437	410
Pelican	18/4.14	1/4.14	20.7	241.68	13.42	255.1	769	54.8	0.1191	449
-	22/3.74	7/2.08	21.2	241.68	23.74	265.4	853	68.6	0.1194	452
Hawk	26/3.44	7/2.67	21.77	241.68	39.42	281.1	975	86.5	0.1194	450
Hen	30/3.20	7/3.20	22.4	241.68	56.39	298.1	1108	103.9	0.1198	453
Heron	30/3.28	7/3.28	22.96	253.35	59.1	312.5	1162	108.8	0.1142	469
-	22/4.04	7/2.24	22.88	282	27.68	309.7	993	79.1	0.1024	496
Dove	26/3.72	7/2.89	23.55	282	45.94	327.9	1137	99.9	0.1024	495
Eagle	30/3.46	7/3.46	24.22	282	65.81	347.8	1293	121.2	0.1027	497
-	22/4.21	7/2.34	23.86	306.58	30.07	336.7	1080	84.9	0.0942	519
Duck	54/2.69	7/2.69	24.21	306.58	39.81	346.4	1159	100.1	0.0945	520
-	22/4.32	7/2.40	24.48	322.26	31.61	353.9	1135	84.8	0.0896	532
Grosbeak	26/3.97	7/3.09	25.15	322.26	52.45	374.7	1299	111.2	0.0896	530
Egret	30/3.70	19/2.22	25.9	322.26	73.55	395.8	1467	140.6	0.0896	542
Goose	54/2.76	7/2.76	24.84	322.26	41.74	364	1217	105.2	0.0899	534

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	Number and Wire Diameter			Cross Section						
Code	Alüminyum	Çelik	Overall Diameter	Alüminyum	Çelik	Toplam	Net Weight (Approx)	Rated Stenght	DC Resistance	Cuurent Carrying Capacity
	Aluminium	Steel		Aluminium	Steel	Total				
-	mm	mm	mm	mm	mm	mm	kg / km	kN	ohm/km	A
-	42/3.20	7/1.78	24.54	337.74	17.35	355.1	1068	78.6	0.0856	546
Gull	54/2.82	7/2.82	25.38	337.74	43.81	381.6	1277	109.2	0.0856	553
Starling	26/4.21	7/3.28	26.68	362.58	59.03	421.6	1462	125.0	0.0797	575
Redwing	30/3.92	19/2.35	27.43	362.58	82.58	445.2	1648	153.9	0.0797	581
-	42/3.31	7/1.84	25.38	362.58	18.65	381.2	1148	84.3	0.0797	573
Crow	54/2.92	7/2.92	26.28	362.58	46.97	409.6	1369	117.2	0.0797	577
Drake	26/4.44	7/3.45	28.11	402.84	65.61	468.5	1624	139	0.0715	611
Mallard	30/4.14	19/2.48	28.96	402.8	91.84	494.7	1832	171.0	0.0719	618
-	42/3.50	7/1.94	26.82	402.8	20.71	423.6	1274	93.6	0.0719	610
Condore	54/3.08	7/3.08	27.72	402.8	52.19	455	1521	127.0	0.0719	615
-	42/3.67	7/2.04	28.14	443.1	22.84	465.9	1402	102	0.0653	645
Crane	54/3.23	7/3.23	29.07	443.1	57.48	500.7	1674	133	0.0653	649
-	42/3.72	7/2.07	28.53	456.1	23.42	479.5	1442	105	0.0633	655
Canary	54/3.28	7/3.28	29.52	456.1	59.1	515.2	1724	144	0.0633	660
-	42/3.38	7/2.13	29.87	483.4	24.84	508.3	1528	109.0	0.0597	678
Cardinal	54/3.38	7/3.38	30.42	483.4	62.65	546.1	1826	152	0.0597	682
-	42/3.99	7/2.21	30.57	523.7	26.97	550.7	1657	118	0.0551	710
Curlew	54/3.51	7/3.51	31.59	523.7	67.87	591.6	1978	165	0.0551	715
-	42/4.41	7/2.30	31.74	563.9	28.97	592.9	1783	126	0.0512	741
Finch	54/3.65	19/2.19	32.85	563.9	71.55	636.8	2121	179	0.0512	746
-	42/4.28	7/2.38	32.82	604.3	31.1	635.4	1911	135	0.0479	772
Grackle	54/3.77	19/2.27	33.97	604.26	76.58	680.8	2271	192	0.0479	776
-	42/4.42	7/2.46	33.9	644.51	33.16	677.7	2039	144	0.0449	800
Pheasant	54/3.90	19/2.34	35.1	644.51	81.68	726.2	2421	199	0.0449	805
-	42/4.56	7/2.53	34.95	684.84	35.23	720.1	2166	153	0.0423	829
Martin	54/4.02	19/2.41	36.17	684.84	86.71	771.6	2573	212	0.0423	835
-	42/4.69	7/2.61	35.97	725.1	37.35	762.5	2294	162	0.0397	858
Plover	54/4.14	19/2.48	37.24	725.1	91.87	817	2725	224	0.04	862
-	42/4.82	7/2.67	36.93	765.35	39.35	804.7	2420	171	0.0377	885
Parrot	54/4.25	19/2.55	38.25	765.4	96.84	862.2	2877	237	0.0377	890
-	48/4.36	7/3.60	38.58	805.7	71.1	876.2	2779	212	0.0358	929
Falcon	54/4.36	19/2.62	39.26	805.7	102.1	907.8	3028	250	0.0358	917
-	72/3.77	7/2.52	37.72	805.7	34.84	840.5	2498	176	0.0358	910
Bantam	3/1.68	4/1.68	5.04	6.65	8.84	15.49	87.80	11.7	4.3218	61
Magpie	3/2.12	4/2.12	6.36	10.58	14.13	24.71	139.70	18.6	2.7077	77
Shrike	3/2.67	4/2.67	8.01	16.84	22.45	39.29	222.60	28.6	1.7054	99
Snipe	3/3.37	4/3.37	10.11	26.17	35.68	62.45	354.10	43.9	1.0718	132
Loon	3/3.78	4/3.78	11.34	33.68	44.97	78.65	445.80	55.3	0.8514	149

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ACSR KANADA STANDARDI / CANADA STANDARDS

CSA C 49

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	Number and Wire Diameter			Cross Section						
Code	Alüminyum	Çelik	Overall Diameter	Alüminyum	Çelik	Toplam	Net Weight (Approx)	Rated Stenght	DC Resistance	Cuurent Carrying Capacity
	Aluminium	Steel		Aluminium	Steel	Total				
-	mm	mm	mm	mm	mm	mm	kg / km	kN	ohm/km	A
Grouse	8/2.54	1/4.24	9.32	40.52	14.13	54.65	221.20	23.1	0.7077	157
Petrel	12/2.34	7/2.34	11.7	51.61	30.01	81.67	376.90	43.8	0.5591	193
Minorca	12/2.44	7/2.44	12.2	56.13	32.77	88.9	311.30	47.7	0.5134	198
Leghorn	12/2.69	7/2.69	13.45	68.19	39.81	108	498.50	57.5	0.4226	221
Guinea	12/2.92	7/2.92	14.6	80.68	46.97	127.6	587.80	67.6	0.3579	244
Dotterell	12/3.08	7/3.08	15.4	89.48	52.19	141.7	654.80	73.0	0.3215	260
Dorking	12/3.20	7/3.20	16	96.71	56.39	153.1	706.90	78.9	0.2982	271
Brahma	16/2.86	19/2.48	18.12	102.97	91.87	194.8	1004.9	122.5	0.2815	287
Auk	8/4.05	7/2.25	14.83	102.84	92.32	195.2	500.00	49.6	0.2789	276
Cochin	12/3.37	7/3.37	16.85	107.1	62.45	169.6	782.8	87.4	0.2694	288

ACSR FRANSIZ STANDARDI / FRANCE STANDARDS

EN 50182

Yeni Kod	Eski Kod	Tel Sayısı ve Tel Çapı		Dış Çap	Kesit Alanı			Net Ağırlık (Yaklaşık)	Kopma Yüğü	D.A. Direnci
		Number and Wire Diameter			Cross Section					
New Code	Old Code	Alüminyum	Çelik	Overall Diameter	Alüminyum	Çelik	Toplam	Net Weight (Approx)	Rated Stenght	DC Resistance
		Aluminium	Steel		Aluminium	Steel	Total			
-	-	mm	mm	mm	mm	mm	mm	kg / km	kN	ohm/km
28 - AL1/9 - ST1A	CANNA 37.7	9/2.00	3/2.00	8.30	28.3	9.42	37.7	152	16.26	1.018 7
38 - AL1/22 - ST1A	CANNA 59.7	12/2.00	7/2.00	10.0	37.7	22.0	59.7	276	32.70	0.766 0
48 - AL1/28 - ST1A	CANNA 75.5	12/2.25	7/2.25	11.3	47.7	27.8	75.5	350	41.15	0.605 2
59 - AL1/34 - ST1A	CANNA 93.3	12/2.50	7/2.50	12.5	58.9	34.4	93.3	431	49.48	0.490 2
94 - AL1/22 - ST1A	CANNA 116.2	30/2.00	7/2.00	14.0	94.2	22.0	116.2	433	43.17	0.306 7
119 - AL1/28 - ST1A	CANNA 147.1	30/2.25	7/2.25	15.8	119.3	27.8	147.1	547	54.03	0.242 3
147 - AL1/34 - ST1A	CANNA 181.6	30/2.50	7/2.50	17.5	147.3	34.4	181.6	676	64.94	0.196 3
185 - AL1/43 - ST1A	CANNA 228	30/2.80	7/2.80	19.6	184.7	43.1	227.8	848	80.54	0.156 5
234 - AL1/55 - ST1A	CANNA 288	30/3.15	7/3.15	22.1	233.8	54.6	288.3	1073	98.58	0.123 6

ACSR İSPANYA STANDARDI / SPAIN STANDARDS

EN 50182

Kod	Yeni Kod	Tel Sayısı ve Tel Çapı		Çap		Kesit Alanı			Net Ağırlık (Yaklaşık)	Kopma Yüğü	D.A. Direnci
		Number and Wire Diameter		Diameter		Cross Section					
Code	New Code	Alüminyum	Çelik	İletken	Öz	Alüminyum	Çelik	Toplam	Net Weight (Approx)	Rated Stenght	DC Resistance
		-	Steel	Cond.	Core	Aluminium	Steel	Total			
-	-	mm	mm	mm	mm	kg / km	kN	ohm/km	kg / km	kN	ohm/km
LA-30	27-AL1/4-ST1A	6 / 2.38	1 / 2.38	2.38	7.14	26.7	4.5	31.1	107.8	9.74	1.0736
LA-56	47-AL1/8-ST1A	6 / 3.15	1 / 3.15	3.15	9.45	46.8	7.8	54.6	188.8	16.29	0.6129
LA-78	67-AL1/11-ST1A	6 / 3.78	1 / 3.78	3.78	11.34	67.3	11.2	78.6	271.8	23.12	0.4256
LA-110	94-AL1/22-ST1A	30 / 2.00	7 / 2.00	6.00	14.00	94.2	22.0	116.2	432.5	43.17	0.3067
LA-145	119-AL1/28-ST1A	30 / 2.25	7 / 2.25	6.75	15.75	119.3	27.8	147.1	547.4	54.03	0.2423
LA-180	147-AL1/34-ST1A	30 / 2.50	7 / 2.50	7.50	17.50	147.3	34.4	181.6	675.8	64.94	0.1963
LA-280 HAWK	242-AL1/39-ST1A	26 / 3.44	7 / 2.68	8.04	21.80	241.6	39.5	281.1	976.2	84.94	0.1195
LA-380 GULL	337-AL1/44-ST1A	54 / 2.85	7 / 2.82	8.46	25.40	337.3	43.7	381.0	1274.6	107.18	0.0857
LA-455 CONDOR	402-AL1/44-ST1A	54 / 3.08	7 / 3.08	9.24	2.70	402.3	52.2	454.5	1520.5	123.75	0.0719
LA-545 CARDINAL	485-AL1/63-ST1A	54 / 3.38	7 / 3.38	10.14	30.42	484.5	62.8	547.3	1831.1	149.04	0.0597
LA-635 FINCH	565-AL1/72-ST1A	54 / 3.65	19 / 2.19	10.95	32.85	565.0	71.6	636.6	2123.0	174.14	0.0512

ACSR İNGİLİZ STANDARDI / ENGLISH STANDARDS

BS EN 50182

Yeni Kod	Eski Kod	Nominal Kesit	Tel Sayısı ve Tel Çapı		Dış Çap	Kesit Alanı			Net Ağırlık (Yaklaşık)	Kopma Yüğü	D.A. Direnci	Akım Taşıma Kapasitesi
			Number and Wire Diameter			Cross Section						
New Code	Old Code	Nominal Section	Alüminyum	Çelik	Overall Diameter	Alüminyum	Çelik	Toplam	Net Weight (Approx)	Rated Strength	DC Resistance	Current Carrying Capacity
-	-	-	mm	mm	mm	mm	mm	mm	kg / km	kN	ohm/km	A

11 - AL1/2 - ST1A	Mole	-	6/1.50	1/1.50	4.50	10.6	1.77	12.4	42.8	4.14	2.7027	67
21 - AL1/3 - ST1A	Squirrel	-	6/2.11	1/2.11	6.33	21.0	3.50	24.5	84.7	7.87	1.3659	109
26 - AL1/4 - ST1A	Gopher	25	6/2.36	1/2.36	7.08	26.24	4.38	30.62	106	9.61	1.0930	126
32 - AL1/5 - ST1A	Weasel	30	6/2.59	1/2.59	7.77	31.61	5.27	36.88	128	11.45	0.9077	134
37 - AL1/6 - ST1A	Fox	-	6/2.79	1/2.79	8.37	36.7	6.11	42.8	148.1	13.21	0.7812	147
42 - AL1/7 - ST1A	Ferret	40	6/3.00	1/3.00	9.00	42.41	7.07	49.48	172	15.20	0.6766	161
53 - AL1/9 - ST1A	Rabbit	50	6/3.35	1/3.35	10.05	52.88	8.82	61.70	214	18.35	0.5426	185
63 - AL1/11 - ST1A	Mink	-	6/3.66	1/3.66	11.00	63.1	10.50	73.6	254.9	21.67	0.4540	174
63 - AL1/37 - ST1A	Skunk	-	12/2.59	7/2.59	13.00	63.2	36.90	100.1	463.0	52.79	0.4568	246
73 - AL1/43 - ST1A	Horse	70	12/2.79	7/2.79	13.95	73.37	42.83	116.20	538	61.20	0.3936	268
75 - AL1/13 - ST1A	Beaver	-	6/3.99	1/3.99	12.00	75.0	12.50	87.5	302.9	25.76	0.3820	193
79 - AL1/13 - ST1A	Raccoon	-	6/4.10	1/4.10	12.30	78.8	13.10	92.4	318.3	27.06	0.3635	231
84 - AL1/14 - ST1A	Otter	-	6/4.22	1/4.22	12.70	83.9	14.00	97.9	338.8	28.81	0.3415	240
95 - AL1/16 - ST1A	Cat	-	6/4.50	1/4.50	13.50	95.4	15.90	111.3	385.3	32.76	0.3003	248
105 - AL1/17 - ST1A	Hare	-	6/4.72	1/4.72	14.20	105.0	17.50	122.5	423.8	36.04	0.2730	273
105 - AL1/14 - STA1	Dog	100	6/4.72	7/1.57	14.15	105.00	13.50	118.50	394	32.70	0.2733	278
131 - AL1/7 - ST1A	Tiger	-	30/2.36	7/2.36	16.50	131.2	30.60	161.8	602.2	57.87	0.2202	323
132 - AL1/14 - ST1A	Coyote	-	26/2.54	7/1.91	15.90	131.7	20.10	151.8	520.7	45.86	0.2192	311
132 - AL1/20 - ST1A	Cougar	-	18/3.05	1/3.05	15.30	131.5	7.31	138.8	418.8	29.74	0.2188	314
158 - AL1/31 - ST1A	Wolf	150	30/2.59	7/2.59	18.13	158.10	36.80	194.90	726	69.20	0.1828	355
159 - AL1/37 - ST1A	Dingo	150	18/3.35	1/3.35	16.75	158.70	8.80	167.50	506	35.70	0.1815	349
183 - AL1/9 - ST1A	Lynx	175	30/2.79	7/2.79	19.53	183.40	42.80	226.20	842	79.80	0.1576	386
184 - AL1/2 - ST1A	Caracal	175	18/3.61	1/3.61	18.05	184.30	10.20	194.50	587	41.10	0.1563	383
211 - AL1/4 - ST1A	Jaguar	200	18/3.86	1/3.86	19.30	210.60	11.70	222.30	671	46.55	0.1367	415
212 - AL1/3 - ST1A	Panther	200	30/3.00	7/3.00	21.00	212.10	49.20	261.50	974	92.25	0.1363	421
238 - AL1/5 - ST1A	Lion	-	30/3.18	7/3.18	22.30	238.3	55.60	293.9	1093.4	100.47	0.1213	448
264 - AL1/6 - ST1A	Bear	-	30/3.35	7/3.35	23.50	264.4	61.70	326.1	1213.4	111.50	0.1093	481
324 - AL1/7 - ST1A	Goat	-	30/3.71	7/3.71	26.00	324.3	75.70	400.0	1488.2	135.13	0.0891	542
374 - AL1/11 - ST1A	Antelope	-	54/2.97	7/2.97	26.70	374.1	48.50	422.6	1413.8	118.88	0.0773	588
375 - AL1/9 - ST1A	Sheep	-	30/3.99	7/3.99	27.90	375.1	87.50	462.6	1721.3	156.30	0.0771	592
382 - AL1/37 - ST1A	Bison	-	54/3.00	7/3.00	27.00	381.7	49.50	431.2	1442.5	121.30	0.0758	595
429 - AL1/43 - ST1A	Zebra	400	54/3.18	7/3.18	28.62	428.90	55.60	484.50	1621	131.90	0.0674	635
430 - AL1/13 - ST1A	Deer	-	30/4.27	7/4.27	29.90	429.6	100.20	529.8	1971.4	179.00	0.0673	639
477 - AL1/13 - ST1A	Elk	-	30/4.50	7/4.50	31.50	477.1	111.30	588.4	2189.5	198.80	0.0606	679
476 - AL1/14 - ST1A	Camel	-	54/3.35	7/3.35	30.20	476.0	61.70	537.7	1798.8	146.40	0.0608	677
528 - AL1/16 - ST1A	Moose	-	54/3.53	7/3.53	31.80	528.5	68.50	597.0	1997.3	159.92	0.0547	763

ACSR RUS STANDARDI / RUSSIAN STANDARDS

GOST (ГОСТ 839-80)

Kod	Tel Sayısı ve Tel Çapı		Çap		Kesit Alanı			Net Ağırlık (Yaklaşık)	Kopma Yüğü	D.A. Direnci
	Number and Wire Diameter		Diameter		Cross Section					
Code	Alüminyum	Çelik	İletken	Öz	Alüminyum	Çelik	Toplam	Net Weight (Approx)	Rated Stenght	DC Resistance
	Aluminium	Steel	Cond.	Core	Aluminium	Steel	Total			
-	mm	mm	mm	mm	kg / km	kN	ohm/km	kg / km	kN	ohm/km
10 / 1.8	6 / 1.50	1 / 1.50	4.5	1.5	10.60	1.77	12.37	42.7	4089	27.064
16 / 2.7	6 / 1.85	1 / 1.85	5.6	1.9	16.13	2.69	18.82	64.9	6220	17.818
25 / 4.2	6 / 2.30	1 / 2.30	6.9	2.3	24.93	4.15	29.08	100.3	9296	11.521
35 / 6.2	6 / 2.80	1 / 2.80	8.4	2.8	36.95	6.16	43.10	148	13524	0.7774
40 / 6.7	6 / 2.91	1 / 2.91	8.74	2.91	39.91	6.65	46.56	161.3	14400	0.7172
50 / 8.0	6 / 3.20	1 / 3.20	9.6	3.2	48.25	8.04	56.30	195	17112	0.5951
63 / 10.5	6 / 3.66	1 / 3.66	10.97	3.66	63.13	10.52	73.65	254	21630	0.4553
70 / 11	6 / 3.80	1 / 3.80	11.4	3.8	68.05	11.34	79.39	276	24130	0.4218
70 / 72	18 / 2.20	19 / 2.20	15.4	11	68.42	72.23	140.65	755	96826	0.4194
95 / 16	6 / 4.50	1 / 4.50	13.5	4.5	95.43	15.90	111.33	385	33369	0.3007
95/141	24 / 2.20	37 / 2.20	19.8	15.4	91.23	140.65	231.88	1357	180775	0.3146
100 / 16.7	6 / 4.61	1 / 4.61	13.82	4.61	100.15	16.69	116.84	403.2	34333	0.7868
120 / 19	26 / 2.40	7 / 1.85	15.2	5.6	117.62	18.82	136.44	471	41521	0.244
120 / 27	30 / 2.20	7 / 2.20	15.4	6.6	114.04	26.61	140.65	528	49465	0.2531
125 / 6.9	18 / 2.97	1 / 2.97	14.67	2.97	124.70	6.93	131.63	397.9	29167	0.2304
125 / 20.4	26 / 2.47	7 / 1.92	15.67	5.77	124.58	20.27	144.85	503.5	45694	0.2308
150 / 19	24 / 2.80	7 / 1.85	16.8	5.6	147.78	18.82	166.60	554	46307	0.2046
150 / 24	26 / 2.70	7 / 2.10	17.1	6.3	148.86	24.25	173.11	599	52279	0.2049
150 / 34	30 / 2.50	7 / 2.50	17.5	7.5	147.26	34.36	181.62	675	62643	0.2061
160 / 8.9	18 / 3.36	1 / 3.36	16.82	3.36	159.60	8.87	168.47	509.4	36178	0.18
160 / 26.1	26 / 2.80	7 / 2.18	17.74	6.53	160.10	26.13	186.22	644.5	57689	0.1803
185 / 24	24 / 3.15	7 / 2.10	18.9	6.3	187.04	24.25	211.28	705	58075	0.154
185 / 29	26 / 2.98	7 / 2.30	18.8	6.9	181.34	29.08	210.42	728	62055	0.1591
185 / 43	30 / 2.80	7 / 2.80	19.6	8.4	184.73	43.10	227.83	846	77767	0.1559
185 / 128	54 / 2.10	37 / 2.10	23.1	14.7	187.04	128.15	315.19	1525	183816	0.1543
200 / 11.1	18 / 3.76	1 / 3.76	18.81	3.76	199.87	11.10	210.97	636.7	44222	0.144
200 / 32.6	26 / 3.13	7 / 2.43	19.82	7.3	200.06	32.46	232.52	805.6	70134	0.1442
205 / 27	24 / 3.30	7 / 2.20	19.8	6.6	205.27	26.61	231.88	846	63740	0.1407
240 / 32	24 / 3.60	7 / 2.40	21.6	7.2	244.29	31.67	275.96	921	75050	0.1182
240 / 39	26 / 3.40	7 / 2.65	21.6	8	236.06	38.61	274.67	952	80895	0.1222
240 / 56	30 / 3.20	7 / 3.20	22.4	9.6	241.27	56.30	297.57	1106	98253	0.1197
300 / 39	24 / 4.00	7 / 2.65	24	8	301.59	38.61	340.20	1132	90574	0.0958
300 / 48	26 / 3.80	7 / 2.95	24.1	8.9	294.87	47.84	342.72	1186	100623	0.0978
300 / 66	30 / 3.50	19 / 2.10	24.5	10.5	288.63	65.81	354.44	1313	117520	0.1
300 / 67	30 / 3.50	7 / 3.50	24.5	10.5	288.63	67.35	355.98	1323	126270	0.1
300 / 204	54 / 2.65	37 / 2.65	29.2	18.6	297.84	204.07	501.91	2428	284579	0.0968
315 / 21.8	45 / 2.99	7 / 1.99	23.83	5.97	315.97	21.77	337.74	1039.2	79030	0.0917
315 / 51.3	26 / 3.93	7 / 3.05	24.87	9.16	315.39	51.14	366.53	1268.9	106834	0.0916
330 / 30	48 / 2.98	7 / 2.30	24.8	6.9	334.78	29.08	363.87	1152	88848	0.0861
330 / 43	54 / 2.80	7 / 2.80	25.2	8.4	332.51	43.10	375.61	1255	103784	0.0869
400 / 27.7	45 / 3.36	7 / 2.24	26.91	6.73	399.01	27.59	426.59	1319.7	93356	0.0722
400 / 51.9	54 / 3.07	7 / 3.07	27.64	9.21	399.73	51.82	451.54	1509.7	123037	0.0722
400 / 18	42 / 3.40	7 / 1.85	26	5.6	381.33	18.82	400.14	1199	85600	0.0758
400 / 51	54 / 3.05	7 / 3.05	27.5	9.2	394.53	51.14	445.68	1490	120481	0.0733
400 / 64	26 / 4.37	7 / 3.40	27.7	10.2	389.97	63.55	453.52	1572	129183	0.0741
400 / 93	30 / 4.15	19 / 2.50	29.1	12.5	405.80	93.27	499.06	1851	173715	0.0711
450 / 31.1	45 / 3.57	7 / 2.38	28.55	7.14	450.44	31.14	481.58	1484.6	107467	0.0646
450 / 58.3	54 / 3.26	7 / 3.26	29.32	9.77	450.73	58.43	509.16	1698.4	138417	0.0642
450 / 56	54 / 3.20	7 / 3.20	28.8	9.6	434.29	56.30	490.59	1640	131370	0.0666
500 / 34.6	45 / 3.76	7 / 2.51	30.09	7.52	499.67	34.64	534.30	1649.6	119407	0.0577
500 / 64.8	54 / 3.43	7 / 3.43	30.9	10.3	498.97	64.68	563.65	1887.1	153796	0.0578
500 / 26	42 / 3.90	7 / 2.20	30	6.6	501.73	26.61	528.34	1592	112548	0.0575
500 / 64	54 / 3.40	7 / 3.40	30.6	10.2	490.28	63.55	553.83	1852	148257	0.0588
550 / 71	54 / 3.60	7 / 3.60	32.4	10.8	549.65	71.25	620.91	2076	166164	0.0526
560 / 38.7	45 / 3.98	7 / 2.65	31.84	7.96	559.85	38.61	598.46	1847.5	133736	0.0515
560 / 70.9	54 / 3.63	19 / 2.18	32.7	10.9	558.85	70.92	629.77	2102.2	175592	0.0516
600 / 72	54 / 3.70	19 / 2.20	33.2	11	580.61	72.23	652.84	2170	183835	0.0498
630 / 43.6	45 / 4.22	7 / 2.81	33.79	8.44	629.40	43.41	672.81	2078.5	150453	0.0458
630 / 79.8	54 / 3.85	19 / 2.31	34.69	11.56	628.65	79.63	708.27	2365	191772	0.0459
710 / 49.1	45 / 4.48	7 / 2.99	35.86	8.96	709.35	49.15	758.50	2342.4	169559	0.0406
710 / 89.9	54 / 4.09	19 / 2.45	36.82	12.27	709.47	89.57	799.04	2665.3	216214	0.0407
800 / 101.3	54 / 4.34	19 / 2.61	39.09	13.03	798.85	101.65	900.50	3003.2	243520	0.0361