

ACSR CONDUCTOR



GENERAL INFORMATION — APPLICATION

ACSR conductors are composed of several aluminium and steel wires. Steel wires are always central and aluminium wires stranded over steel wire strands. Steel wires are galvanized (zinc-coated) and mostly composed of 1,7,19 or 37 wires. Wire outer diameters of steel and aluminium will be the same or different but all steel wires have the same diameter as well aluminium wires have the same diameter. The function of galvanized steel wires is a suspension of the conductor on the line.

ACSR conductors can be used in substation, electricity distribution lines, electricity transmission lines.

* Sections of Related Standard is down below;

According to: ASTM B 232 / B 232M (AMERICAN SIZES)

CODE NAME	STRANDING WIRE DIAMETER		OVERALL DIAMETER	SECTIONAL AREA			APPROXIMATE WEIGHT	BREAKING LOAD	D.C. RESISTANCE	CURRENT CARRYING CAPACITY
	ALUMINIUM	STEEL		ALUMINIUM	STEEL	TOTAL				
	mm	mm		mm ²	mm ²	mm ²				
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	19/2.40	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

According to: ASTM B 232 / B 232M (AMERICAN SIZES)

CODE NAME	STRANDING WIRE DIAMETER		OVERALL DIAMETER	SECTIONAL AREA			APPROXIMATE WEIGHT	BREAKING LOAD	D.C. RESISTANCE	CURRENT CARRYING CAPACITY
	ALUMINIUM	STEEL		ALUMINIUM	STEEL	TOTAL				
	mm	mm		mm ²	mm ²	mm ²				
TURKEY	6/1.68	1/1.68	5.03	13.29	2.21	15.52	53.7	5.29	2.1030	105
SWAN	6/ 2.12	1/ 2.12	6.35	21.17	3.53	24.70	85.3	8.28	1.3222	140
SWANATE	7/1.96	1/ 2.62	6.53	21.11	5.38	26.49	99.6	10.50	1.3090	140
SPARROW	6/2 .67	1/ 2.67	8.03	33.57	5.60	39.20	136.0	12.68	0.8333	184
SPARATE	7/ 2.47	1/3.3	8.26	33.53	8.55	42.08	159.0	15.39	0.8235	184
ROBIN	6/3	1/3	8.99	42.40	7.06	49.46	171.0	15.79	0.6594	212
RAVEN	6/3 .37	1/3.37	10.11	53.50	8.91	62.41	216.0	19.49	0.5216	242
QUAIL	6/3 .78	1/3 .78	11.35	67.30	11.22	78.52	272.0	23.62	0.4134	276
PIGEON	6/ 4.25	1/ 4.25	12.75	85.07	14.18	99.25	343.0	29.45	0.3281	315
PENGUIN	6/4 .77	1/ 4.77	14.30	107.20	17.86	125.06	433.0	37.15	0.2608	357
WAXWING	18/3.09	1/3.09	15.47	135.00	7.50	142.50	430.0	30.61	0.2110	449
PARTRIDGE	26/ 2.57	7/2	16.31	135.00	21.98	156.98	546.0	50.27	0.2090	475
OSTRICH	26/ 2.73	7/ 2.12	17.27	152.00	24.70	176.70	613.0	56.50	0.1860	492
MERLIN	18/3.47	1/3.47	17.37	170.14	9.45	179.59	543.0	38.62	0.1673	519
LINNET	26/2.89	7/ 2.25	18.29	170.46	27.82	198.30	687.0	62.73	0.1657	529
ORIOLE	30/2.69	7/ 2.69	18.82	170.41	39.76	210.20	783.0	76.97	0.1647	535
CHICKADEE	18/3 .77	1/3 .77	18 .87	200 .83	11.16	212.00	641.0	44.22	0.1417	576
BRANT	24/3 .27	7/ 2.18	19.61	201.45	26.11	227.60	761.0	64.96	0.1411	584
IBIS	26/3.14	7/ 2.44	19.89	201.23	32.71	234.00	812.0	72.52	0.1404	587
LARK	30/2.92	7/ 2.92	20.47	200.80	47.00	247.80	925.0	90.31	0.1394	594
PELICAN	18/4 .14	1/ 4.14	20.68	242.20	13.45	255.65	770.0	52.50	0.1181	646
FLICKER	24/3.58	7/ 2.39	21.49	241.50	31.40	273.00	913.0	76.52	0.1175	655
HAWK	26/3.44	7/ 2.67	21.79	241.50	39.17	280.70	975.0	86.76	0.1168	659
HEN	30/3.2	7/3.2	22.43	241.15	56.27	297.50	1111.0	105.9	0.1161	666
OSPREY	18/4.47	1/ 4.47	22.33	282.30	15.70	298.00	898.0	60.95	0.1010	711
PARAKEET	24/3 .87	7/2.58	23.22	282.16	36.60	318.80	1066.0	88.01	0.1007	721
DOVE	26/3.72	7/ 2.89	23.55	282.44	45.90	328.34	1139.0	100.5	0.1004	726
EAGLE	30/3.46	7/3.46	24.21	282.00	65.80	348.00	1296.0	123.6	0.0994	734
PEACOCK	24/4 .03	7/ 2.69	24.21	306 .00	40 .00	346 .00	1159.0	96.01	0.0925	760
SQUAB	26/3 .87	7/3 .01	24.54	305.70	50.00	355.70	1237.0	108.0	0.0922	765
WOODDUCK	30/3.6 1	7/3 .61	25.25	307.00	71.61	378.60	1408.0	128.5	0.0915	774
TEAL	30/3 .61	19/ 2.16	25.25	307.00	69.60	376.60	1397.0	133.4	0.0915	773
KINGBIRD	18/4.78	1/ 4.78	23.88	323.00	18.00	341.00	1027.0	69.79	0.0886	773
SWIFT	36/3.38	1/3.38	23.62	323.00	9.00	332.00	956.0	60.85	0.0889	769
ROOK	24/4 .14	7/ 2.76	24.82	323.00	42.00	365 .00	1217.0	97 .79	0.0879	784
GROSBEAK	26/3.97	7/3.09	25.17	321.70	52.50	374.20	1301.0	112.0	0.0876	789
SCOTER	30/3.7	7/3.7	25.88	322.40	75.23	397.60	1481.0	135.1	0.0840	798
EGRET	30/3 .7	19/ 2.22	25.88	322.40	73.51	396.00	1469.0	140.0	0.0873	798
FLAMINGO	24/4.23	7/ 2.82	25.40	337.10	43.70	381.00	1277.0	105.3	0.0840	807
GANNET	26/4.07	7/3.16	25.76	338.10	55.00	393.10	1363.0	117.3	0.0837	812
STILT	24/4.39	7/ 2.92	26.31	363.10	46.85	410.00	1370.0	113.3	0.0784	844
STARLING	26/4.21	7/3.28	26.70	361.75	59.12	421.00	1464.0	126.2	0.0781	849
REDWING	30/3.92	19/ 2.35	27.46	362.00	82.37	444.40	1651.0	153.8	0.0774	859

According to: CSA C4 9 (CANADIAN SIZES)

CODE NAME	STRANDING WIRE DIAMETER		OVERALL DIAMETER	SECTIONAL AREA			APPROXIMATE WEIGHT	BREAKING LOAD	D.C. RESISTANCE	CURRENT CARRYING CAPACITY
	ALUMINIUM	STEEL		ALUMINIUM	STEEL	TOTAL				
	mm	mm		mm ²	mm ²	mm ²				
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
	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
CONDOR	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

According to: CSA C4 9 (CANADIAN SIZES)

CODE NAME	STRANDING WIRE DIAMETER		OVERALL DIAMETER	SECTIONAL AREA			APPROXIMATE WEIGHT	BREAKING LOAD	D.C. RESISTANCE	CURRENT CARRYING CAPACITY
	ALUMINIUM	STEEL		ALUMINIUM	STEEL	TOTAL				
	mm	mm		mm ²	mm ²	mm ²				
CANARY	54/3.28	7/3.28	29.52	456.1	59.1	515.20	1724	144	0.0633	660
-	42/3.38	7/2.13	29.87	483.4	24.84	508.24	1528	109.0	0.0597	678
CARDINAL	54/3.38	7/3.38	30.42	483.4	62.65	546.05	1826	152	0.0597	682
-	42/3.99	7/2.21	30.57	523.7	26.97	550.67	1657	118	0.0551	710
CURLEW	54/3.51	7/3.51	31.59	523.7	67.87	591.57	1978	165	0.0551	715
-	42/4.41	7/2.30	31.74	563.9	28.97	592.87	1783	126	0.0512	741
FINCH	54/3.65	19/2.19	32.85	563.9	71.55	635.45	2121	179	0.0512	746
-	42/4.28	7/2.38	32.82	604.3	31.1	635.40	1911	135	0.0479	772
GRACKLE	54/3.77	19/2.27	33.97	604.26	76.58	680.84	2271	192	0.0479	776
-	42/4.42	7/2.46	33.9	644.51	33.16	677.67	2039	144	0.0449	800
PHEASANT	54/3.90	19/2.34	35.1	644.51	81.68	726.19	2421	199	0.0449	805
-	42/4.56	7/2.53	34.95	684.84	35.23	720.07	2166	153	0.0423	829
MARTIN	54/4.02	19/2.41	36.17	684.84	86.71	771.55	2573	212	0.0423	835
-	42/4.69	7/2.61	35.97	725.1	37.35	762.45	2294	162	0.0397	858
PLOVER	54/4.14	19/2.48	37.24	725.1	91.87	816.97	2725	224	0.04	862
-	42/4.82	7/2.67	36.93	765.35	39.35	804.70	2420	171	0.0377	885
PARROT	54/4.25	19/2.55	38.25	765.4	96.84	862.24	2877	237	0.0377	890
-	48/4.36	7/3.60	38.58	805.7	71.1	876.80	2779	212	0.0358	929
FALCON	54/4.36	19/2.62	39.26	805.7	102.1	907.80	3028	250	0.0358	917
-	72/3.77	7/2.52	37.72	805.7	34.84	840.54	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	22.48	39.29	222.60	28.6	1.7054	99
SNIPE	3/3.37	4/3.37	10.11	26.17	35.68	61.85	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
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	81.62	376.90	43.8	0.5591	193
MINORCA	12/2.44	7/2.44	12.2	56.13	32.77	88.90	311.30	47.7	0.5134	198
LEGHORN	12/2.69	7/2.69	13.45	68.19	39.81	108.00	498.50	57.5	0.4226	221
GUINEA	12/2.92	7/2.92	14.6	80.68	46.97	127.65	587.80	67.6	0.3579	244
DOTTERELL	12/3.08	7/3.08	15.4	89.48	52.19	141.67	654.80	73.0	0.3215	260
DORKING	12/3.20	7/3.20	16	96.71	56.39	153.10	706.90	78.9	0.2982	271
BRAHMA	16/2.86	19/2.48	18.12	102.97	91.87	194.84	1004.9	122.5	0.2815	287
AUK	8/4.05	7/2.25	14.83	102.84	92.32	195.16	500.00	49.6	0.2789	276
COCHIN	12/3.37	7/3.37	16.85	107.1	62.45	169.55	782.8	87.4	0.2694	288

According to: DIN EN 50182 (GERMAN SIZES)

CODE NAME	STRANDING WIRE DIAMETER		OVERALL DIAMETER	SECTIONAL AREA			APPROXIMATE WEIGHT	BREAKING LOAD	D.C. RESISTANCE	CURRENT CARRYING CAPACITY
	ALUMINIUM	STEEL		ALUMINIUM	STEEL	TOTAL				
	mm	mm		mm ²	mm ²	mm ²				
16/2.5	6/1.80	1/1.80	5.4	15.3	2.5	17.9	62	5.81	1.8793	105
25/4	6/2.25	1/2.25	6.8	23.8	4	27.8	96	9.02	1.2028	140
35/6	6/2.70	1/2.70	8.1	34.3	5.7	40	139	12.70	0.8353	170
44/32	14/2.00	7/2.40	11.2	44	31.7	75.7	369	45.46	0.6573	
50/8	6/3.20	1/3.20	9.6	48.3	8	56.3	195	17.18	0.5946	210
50/30	12/2.33	7/2.33	11.7	51.2	29.8	81	375	44.28	0.5644	-
70/12	26/1.85	7/1.44	11.7	69.9	11.4	81.3	282	26.31	0.4130	290
95/15	26/2.15	7/1.67	13.6	94.4	15.3	110	381	35.17	0.3058	350
95/55	12/3.20	7/3.20	16	96.5	56.3	153	707	80.20	0.2992	-
105/75	14/3.10	19/2.25	17.5	105.7	75.5	182	885	106.69	0.2736	-
120/20	26/2.44	7/1.90	15.5	121.6	19.8	141	491	44.94	0.2374	410
120/70	12/3.60	7/3.60	18	122	71.3	193	895	98.16	0.2364	-
125/30	30/2.33	7/2.33	16.1	127.9	29.8	158	587	57.86	0.2259	425
150/25	26/2.70	7/2.10	17.1	148.9	24.2	173	601	54.37	0.1939	470
170/40	30/2.70	7/2.70	18.9	171.8	40.1	212	788	77.01	0.1682	520
185/30	26/3.00	7/2.33	19	183.8	29.8	214	741	66.28	0.1571	535
210/35	26/3.20	7/2.49	20.3	209.1	34.1	243	844	74.94	0.1380	590
210/50	30/3.00	7/3.00	21.3	212.1	49.5	262	973	92.25	0.1363	610
230/30	24/3.50	7/2.33	21	230.9	29.8	261	871	73.09	0.1249	630
240/40	26/3.45	7/2.68	21.9	243	39.5	283	980	86.46	0.1188	645
265/35	24/3.74	7/2.49	22.4	263.7	34.1	298	994	82.94	0.1094	680
300/50	26/3.86	7/3.00	24.5	304.3	49.5	354	1227	105.09	0.0949	740
305/40	54/2.68	7/2.68	24.1	304.6	39.5	344	1151	99.30	0.0949	740
340/30	48/3.00	7/2.33	25	339.3	29.8	369	1171	92.56	0.0851	790
380/50	54/3.00	7/3.00	27	382	49.5	432	1443	120.91	0.0757	840
385/35	48/3.20	7/2.49	26.7	386	34.1	420	1334	104.31	0.0748	850
435/55	54/3.20	7/3.20	28.8	434.3	56.3	491	1641	136.27	0.0666	900
450/40	48/3.45	7/2.68	28.7	448.7	39.5	488	1549	120.19	0.0644	920
490/65	54/3.40	7/3.40	30.6	490.3	63.6	554	1853	152.85	0.0590	960
495/35	45/3.74	7/2.49	29.9	494.4	34.1	528.4	1632	117.96	0.0584	985
510/45	48/3.68	7/2.87	30.7	510.15	45.3	555.8	1765	133.31	0.0566	995
550/70	54/3.60	7/3.60	32.4	550	71.3	621	2077	166.32	0.0526	1020
560/50	48/3.86	7/3.00	32.2	561.7	49.5	611	1940	146.28	0.0514	1040
570/40	45/4.02	7/2.68	32.2	571.2	39.5	610.6	1887	136.4	0.0506	1050
650/45	45/4.30	7/2.87	34.4	653.5	45.3	698.8	2160	156.18	0.0442	1120
680/85	54/4.00	19/2.40	36	678.8	86	765	2550	206.56	0.0426	1150
1045/45	72/4.30	7/2.87	43	1045.6	45.3	1010	3248	218.92	0.0277	1580