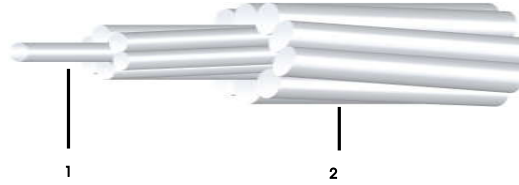


ACSR

ALUMINIUM CONDUCTOR, STEEL-REINFORCED



Construction

1. Steel Core : Solid or stranded regular strength galvanized steel wires
2. Conductor : Stranded hard-drawn aluminium wires

Reference Standard :

TIS 85 - 2548
(Reference to TIS 86 - 2522)



Application

- For aerial power transmission and distribution line.

Cross sectional area (Al/St) mm ² (Nominal)	Cross-sectional area			Number of wires		Diameter of wire		Diameter		Conductor resistance at 20°C Ω/km (Max.)	Rated Tensile Strength kN (Min.)	Current rating in free air at 40°C ambient A	Conductor weight kg/km (Approx.)	Standard length m/drum
	Al mm ² (Approx.)	Steel mm ² (Approx.)	Total mm ² (Approx.)	Al	Steel	Al mm (Nominal)	Steel mm (Nominal)	Steel Core mm (Nominal)	Conductor mm (Nominal)					
16/2.5	15.3	2.6	17.85	6	1	1.80	1.80	1.80	5.40	1.8786	5.805	90	62	4,000
25/4	23.8	4.0	27.80	6	1	2.25	2.25	2.25	6.75	1.2023	8.982	125	97	4,000
35/6	34.3	5.7	40.00	6	1	2.70	2.70	2.70	8.10	0.8349	12.405	145	139	3,000
50/8	48.3	8.0	56.30	6	1	3.20	3.20	3.20	9.60	0.5944	16.827	170	195	3,000
50/30	51.2	29.8	81.00	12	7	2.33	2.33	6.99	11.65	0.5642	42.950	170	375	2,000
70/12	69.9	11.4	81.30	26	7	1.85	1.44	4.32	11.70	0.413	26.241	290	282	2,000
95/15	94.4	15.3	109.70	26	7	2.15	1.67	5.01	13.60	0.3058	34.958	350	381	2,000
95/55	96.5	56.3	152.80	12	7	3.20	3.20	9.60	16.00	0.2991	78.105	350	708	2,000
120/20	121.6	19.8	141.40	26	7	2.44	1.90	5.70	15.50	0.2374	44.666	410	491	2,000
120/70	122.0	71.3	193.30	12	7	3.60	3.60	10.80	18.00	0.2363	98.393	410	896	2,000
125/30	127.9	29.8	157.70	30	7	2.33	2.33	6.99	16.31	0.2258	56.473	425	587	2,000
150/25	148.9	24.2	173.10	26	7	2.70	2.10	6.30	17.10	0.1939	54.060	470	601	1,500
170/40	171.8	40.1	211.90	30	7	2.70	2.70	8.10	18.90	0.1682	75.261	520	789	1,500
185/30	183.8	29.8	213.60	26	7	3.00	2.33	6.99	19.00	0.1571	64.896	535	741	1,500
210/35	209.1	34.1	243.20	26	7	3.20	2.49	7.47	20.30	0.138	73.437	590	844	1,500
210/50	212.1	49.5	261.60	30	7	3.00	3.00	9.00	21.00	0.1362	92.078	610	974	1,000
230/30	230.9	29.8	260.70	24	7	3.50	2.33	6.99	21.00	0.1249	71.711	630	871	1,000
240/40	243.0	39.5	282.50	26	7	3.45	2.68	8.04	21.90	0.1188	84.724	645	981	1,000
265/35	263.7	34.1	297.80	24	7	3.74	2.49	7.47	22.40	0.1094	81.458	680	995	1,000
300/50	304.3	49.5	353.80	26	7	3.86	3.00	9.00	24.50	0.0949	104.944	740	1,228	1,000
305/40	304.6	39.5	344.10	54	7	2.68	2.68	8.04	24.10	0.0949	97.491	740	1,152	1,000
380/50	382.0	49.5	431.50	54	7	3.00	3.00	9.00	27.00	0.0756	120.731	840	1,443	1,000
435/55	434.3	56.3	490.60	54	7	3.20	3.20	9.60	28.80	0.0666	134.077	900	1,642	1,000
490/65	490.3	63.6	553.90	54	7	3.40	3.40	10.20	30.60	0.0590	150.453	960	1,853	1,000
550/70	550.0	71.3	621.30	54	7	3.60	3.60	10.80	32.40	0.0526	167.643	1,020	2,078	1,000
680/85	678.8	86.0	764.80	54	19	4.00	2.40	12.00	36.00	0.0426	206.318	1,150	2,552	500