



APPLICATION 7 and 19 strand construction is suitable for bare overhead reticulation of medium spans, normally at low and medium voltages. 37 and 61 strand construction is suitable for transmission and subtransmission lines for short span projects. Also used as flexible bus bar AAC = All Aluminium Conductor.	STANDARD	AS 1531:1991
	CONDUCTOR	Aluminium Alloy 1350
	STRAND CONSTRUCTION	As Below

Code Name	Conductor Aluminium		Nominal Overall Diameter mm	Approximate Mass kg/km	Calculated Min Breaking Load kN	Final Modulus of Elasticity GPa	Coefficient of Linear Expansion /° x 10-5	Max. Packing m
	Area mm ²	Makeup No./mm						
Gemini	16.8	7/1.75	5.3	50	3.0	59	23	6000
Jupiter	27.8	7/2.25	6.8	80	4.8	59	23	6000
Leo	33.9	7/2.50	7.5	90	5.8	59	23	3200
Leonids	41.6	7/2.75	8.25	113	6.72	59	23	3200
Libra	48.9	7/3.00	9.0	140	7.9	59	23	3000
Mars	76.3	7/3.75	11.3	210	11.9	59	23	2000
Mercury	110	7/4.50	13.5	310	16.8	59	23	1500
Moon	122	7/4.75	14.3	340	18.8	59	23	1500
Neptune	154	19/3.25	16.3	430	24.7	56	23	2000
Orion	183	19/3.50	17.5	503	28.7	56	23	2000
Pluto	206	19/3.75	18.8	580	32.3	56	23	2000
Saturn	262	37/3.0	21.0	720	41.8	56	23	2000
Sirius	307	37/3.25	22.8	845	48.2	56	23	2000
Taurus	331	19/4.75	23.8	930	50.9	56	23	1500
Triton	409	37/3.75	26.3	1130	62.9	56	23	2000
Uranus	506	61/3.25	29.3	1400	75.2	56	23	2000
Ursula	587	61/3.50	31.5	1620	87.3	56	23	1500
Venus	673	61/3.75	33.8	1860	97.2	56	23	1500

CONDUCTOR CODE NAME	ELECTRICAL CHARACTERISTICS						
	Equivalent Electrical Areas		Maximum DC Resistance @20°C Ω/km	Maximum AC Resistance @75°C Ω/km	Current Ratings @ 75°C		Inductive Reactance to 0.3m Ω/km
	Aluminium mm ²	Copper mm ²			Winter Night A	Summer Noon A	
Gemini	16.8	10.3	1.71	2.08	165	111	0.317
Jupiter	27.8	17.4	1.03	1.26	227	151	0.301
Leo	33.9	21.3	0.833	1.02	216	186	0.295
Leonids	41.6	26.2	0.689	0.842	243	209	0.289
Libra	48.9	31	0.579	0.706	272	232	0.284
Mars	76.3	47.7	0.37	0.452	361	304	0.27
Mercury	110	71	0.258	0.314	454	378	0.259
Moon	122	77.4	0.232	0.282	486	403	0.255
Neptune	154	96.8	0.183	0.223	568	465	0.244
Orion	183	115	0.157	0.192	626	510	0.24
Pluto	206	129	0.137	0.168	683	553	0.235
Saturn	262	161	0.11	0.135	786	630	0.277
Sirius	307	193	0.094	0.116	869	692	0.222
Taurus	331	206.5	0.086	0.105	921	730	0.22
Triton	409	252	0.071	0.087	1042	818	0.213
Uranus	506	318	0.0572	0.071	1191	925	0.206
Ursula	587	369	0.0493	0.0616	1307	1006	0.201
Venus	673	424	0.0429	0.0539	1424	1089	0.197

Wind Speed 1m/sec, air temp. 10°C for winter night, 35°C for summer noon, intensity of solar radiation 1000 W/m² for summer noon.

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