

ALUMINUM COMPANY OF AMERICA SAG AND TENSION DATA

english to metric comparison
Metric Entry - Metric Out, Kilogram

Conductor DRAKE 795.0 Kcmil 26/ 7 Stranding ACSR
Area= 468.6442 Sq. Mm Dia=28.143 Mm Wt= 1.628 Kg/M RTS= 14288 Kg
Data from Chart No. 1-537
Metric K Units
Horizontal Tensions

Span= 150.0 Mtrs NESC Heavy Load Zone
Creep IS a Factor

Design Points			Final				Initial		
Temp	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension	Metric
C	Mm	Kgsm	Kg/M	Kg/M	Mtrs	Kg	Mtrs	Kg	
Entry - Metric Out									
-20.	12.70	.00	.00	3.116	1.60	5462.	1.53	5715.*	Kilogram
-20.	.00	48.82	.00	2.130	1.20	5012.	1.11	5422.	
-20.	.00	.00	.00	1.628	.95	4806.	.86	5298.	
0.	.00	.00	.00	1.628	1.21	3776.	1.00	4585.	
16.	.00	.00	.00	1.628	1.49	3070.	1.14	4014.	
20.	.00	.00	.00	1.628	1.57	2916.	1.18	3874.	
40.	.00	.00	.00	1.628	2.01	2280.	1.43	3203.	
60.	.00	.00	.00	1.628	2.33	1964.	1.75	2618.	
80.	.00	.00	.00	1.628	2.52	1816.	2.13	2154.	
100.	.00	.00	.00	1.628	2.72	1684.	2.53	1810.	

* Design Condition

ALUMINUM COMPANY OF AMERICA SAG AND TENSION DATA

english to metric comparison
metric entry - metric out, newton

Conductor DRAKE 795.0 Kcmil 26/ 7 Stranding ACSR
Area= 468.6442 Sq. Mm Dia=28.143 Mm Wt=15.966 N/M RTS= 140119 N
Data from Chart No. 1-537
Metric N Units
Horizontal Tensions

Span= 150.0 Mtrs NESC Heavy Load Zone
Creep IS a Factor

Design Points			Final				Initial		
Temp	Ice	Wind	K	Weight	Sag	Tension	Sag	Tension	Metric
C	Mm	Nsm	N/M	N/M	Mtrs	N	Mtrs	N	
Entry - Metric Out									
-20.	12.70	.0	.00	30.562	1.60	53566.	1.53	56048.*	Newton
-20.	.00	143.6	.00	16.470	.98	47328.	.89	52070.	
-20.	.00	.0	.00	15.966	.95	47134.	.86	51955.	
0.	.00	.0	.00	15.966	1.21	37026.	1.00	44960.	
16.	.00	.0	.00	15.966	1.49	30111.	1.14	39368.	
20.	.00	.0	.00	15.966	1.57	28592.	1.18	37992.	
40.	.00	.0	.00	15.966	2.01	22362.	1.43	31413.	
60.	.00	.0	.00	15.966	2.33	19259.	1.75	25678.	
80.	.00	.0	.00	15.966	2.52	17809.	2.13	21125.	
100.	.00	.0	.00	15.966	2.72	16517.	2.53	17755.	

* Design Condition