

18. CONDUCTOR DATA

Conductor Size and Type	Maximum Span Length (Ft.) (2)	Heavy Loading Tension (HLT) (Lbs.)	Vertical Weight With 1/2" Ice (W _{ICE}) (Lbs/Ft.)	4 LB Wind Load With 1/2" Ice (W _{WIND}) (Lbs/Ft.)	21 LB Extreme Wind Load No Ice (Lbs/Ft.)
#6 Bare Cu	200	700	.490	.387	.282
#6 Bare Cu	250	768	.490	.387	.282
#4 Bare Cu	200	935	.564	.402	.361
#4 Bare Cu	320	1162	.564	.402	.361
#2 Bare Cu	200	1232	.698	.431	.513
#2 Bare Cu	300	1523	.698	.431	.513
1/0 Bare Cu	200	1690	.866	.456	.644
1/0 Bare Cu	300	2000	.866	.456	.644
4/0 Bare Cu	200	2800	1.280	.507	.912
4/0 Bare Cu	300	2500	1.280	.507	.912
#6 W.R. Cu	175	768	.539	.408	.392
#4 W.R. Cu	200	990	.613	.422	.466
#2 W.R. Cu	200	1342	.781	.462	.676
1/0 W.R. Cu	200	1850	.985	.498	.865
4/0 W.R. Cu	200	3110	1.420	.549	1.130
8A Bare CWC	400	1338	.509	.400	.350
#2 6/1 Bare ACSR	200	1159	.599	.439	.555
#2 6/1 Bare ACSR	300	1429	.599	.439	.555
#2 6/1 Bare ACSR	375	1612	.599	.439	.555
1/0 Bare ACSR	200	1514	.704	.466	.697
1/0 Bare ACSR	300	1833	.704	.466	.697
1/0 Bare ACSR	375	2050	.704	.466	.697
2/0 Bare ACSR	200	1737	.772	.482	.781
2/0 Bare ACSR	300	2086	.772	.482	.781
2/0 Bare ACSR	375	2323	.772	.482	.781
3/0 Bare ACSR	200	2024	.854	.501	.880
3/0 Bare ACSR	300	2405	.854	.501	.880
3/0 Bare ACSR	375	2664	.854	.501	.880
336 18/1 Bare ACSR	200	2620	1.100	.561	1.200
336 18/1 Bare ACSR	300	3087	1.100	.561	1.200
336 18/1 Bare ACSR	375	3399	1.100	.561	1.200
336 26/7 Bare ACSR	200	3508	1.220	.574	1.260
336 26/7 Bare ACSR	300	3977	1.220	.574	1.260
336 26/7 Bare ACSR	375	7310	1.220	.574	1.260
477 26/7 Bare ACSR	200	4100	1.500	.619	1.500
477 26/7 Bare ACSR	300	5437	1.500	.619	1.500
477 26/7 Bare ACSR	375	6225	1.500	.619	1.500
795 Bare ACSR	200	4680	2.090	.703	1.940
795 Bare ACSR	320	6000	2.090	.703	1.940
#2 W.R. ACSR	200	1060	.683	.469	.712
1/0 W.R. ACSR	200	1400	.811	.507	.912

Table 6: Conductor Load Characteristics

Table 6 (continued)

Conductor Size and Type	Maximum Span Length (Ft.) (2)	Heavy Loading Tension (HLT) (Lbs.)	Vertical Weight With 1/2" Ice (W _{ICE}) (Lbs./Ft.)	4 LB Wind Load With 1/2" Ice (W _{WIND}) (Lbs./Ft.)	21 LB Extreme Wind Load No Ice (Lbs./Ft.)
#2 XLPE ACSR	200	1325	.900	.529	1.030
1/0 XLPE ACSR	200	1626	1.020	.556	1.170
4/0 XLPE ACSR	200	2800	1.310	.611	1.460
336.4 XLPE ACSR	200	2976	1.490	.651	1.670
477 XLPE ACSR	200	3506	1.750	.695	1.900
4/0 Bare A1	200	1795	.834	.507	.912
477 Bare A1	200	2832	1.250	.598	1.390
1/0 W.R. A1	180	1063	.743	.497	.859
4/0 W.R. A1	200	1705	.952	.549	1.130
336.4 W.R. A1	200	2259	1.166	.597	1.380
477 W.R. A1	200	2856	1.421	.650	1.660
6 DX		(3)	.820	.490	.820
4 DX	130	650	.777	.530	1.030
4 DX	250	800	.777	.530	1.030
4 TXR	120	(3)	.833	.537	1.070
2 TXR		(3)	1.010	.590	1.350
1/0 TXR		(3)	1.270	.666	1.750
1/0 TXF		2320/1919 (1) (3)	1.390	.690	1.870
4/0 TXF		4280/3170 (1) (3)	1.980	.810	2.500
336 TXF		6360/4260 (1) (3)	2.690	.950	3.240
1/0 KAP	200	2320/1910 (1)	1.650	.823	2.570
4/0 KAP	200	4280/3170 (1)	2.330	.986	3.430
336.4 KAP	200	6360/4260 (1)	3.120	1.165	4.370
1/0 QX		(3)	1.690	.777	2.330
3/0 QX		(3)	2.170	.863	2.780
336 QX		(3)	3.080	.927	3.120

Table 6: Conductor Load Characteristics**Notes:**

1. With/Without in Span Taps
2. See Construction Standard Section 106 for Ruling Span
3. Heavy Loading Tension depends upon span length. Refer to Construction Standard 120-02.
4. Three types of three conductor secondary cable are listed above. KAP has three conductors in a flat configuration and is a variation of TXF. TXR and TXF are three individual conductors in a