



PDHonline Course E270 (3 PDH)

Simplified Short-Circuit Calculations

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PDH Online | PDH Center

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SC kA	480V, 500 kVA, 7.5%							
	Cable				Busduct			
	4/0	250	350	500	2@500	1200A	1600A	2000A
Feet	8.018							
0								
10								
20								
50	7.481	7.413	7.533	7.563	7.784	7.868	7.938	7.959
100	6.993	7.020	7.097	7.154	7.563	7.720	7.858	7.901
200								
500								
1000								
2000								
5000								
10000	0.417	0.448	0.521	0.584	1.085			
SC kA	480V, 1000 kVA, 7.5%, 1203FLA							
					Busduct			
	4/0	250	350	500	2@500	1200A	1600A	2000A
Feet	16.035							
0								
10								
20								
50	13.986	14.039	14.193	14.306	15.124	15.438	15.716	15.800
100	12.307	12.417	12.697	12.899	14.306	14.863	15.401	15.567
200	9.817	10.004	10.442	10.758	12.599	13.784	14.787	15.110
500	5.968	6.206	6.743	7.145	9.927	11.136	13.103	13.819
1000	3.562	3.759	4.209	4.563	7.145	8.247	10.841	11.964
2000						5.317	7.876	9.248
5000								
10000	0.425	0.458	0.537	0.604	1.160			
SC kA	480V, 1500 kVA, 7.5%, 1804FLA							
					Busduct			
	4/0	250	350	500	2@500	1200A	1600A	2000A
Feet	24.052							
0								
10								
20	22.136	22.181	22.323	22.429	23.214	23.511	23.763	23.839
50	19.654	19.778	20.109	20.351	22.056	22.720	23.335	23.524
100	16.408	16.640	17.199	17.601	22.214	21.465	22.635	23.005
200	12.161	12.497	13.262	13.819	17.601	19.207	21.296	21.997
500	6.699	7.030	7.780	8.357	12.469	14.252	17.835	19.266
1000					8.357	9.721	13.726	15.691
2000						5.813	9.175	11.178
5000								5.824
10000	0.428	0.462	0.542	0.612	1.187			
SC kA	480V, 2000 kVA, 7.5%, 2406FLA							
					Busduct			
	4/0	250	350	500	2@500	1200A	1600A	2000A
Feet	32.067							
0								
10								
20	28.725	28.808	29.058	29.243	30.594	31.108	31.554	31.690
50	24.613	24.832	25.391	25.795	28.609	29.722	30.797	31.131
100	19.632	20.007	20.883	21.514	25.795	27.565	29.370	30.217
200	13.763	14.238	15.308	16.100	21.514	23.848	27.270	28.467
500	7.124	7.518	8.418	9.127	14.289	16.492	21.680	23.926
1000					9.127	10.633	15.751	18.495
2000						6.134	9.959	12.420
5000								6.107
10000	0.429	0.464	0.545	0.615	1.201			
SC kA	480V, 2500 kVA, 7.5%, 3007FLA							
					Busduct			
	4/0	250	350	500	2@500	1200A	1600A	2000A
Feet	40.081							
0								
10								
20	34.958	35.091	35.476	35.759	37.804	38.589	39.282	39.493
50	28.968	29.303	30.127	30.721	34.813	36.453	38.105	38.623
100	22.214	22.739	23.943	24.815	30.721	33.200	36.217	37.209
200	14.919	15.515	16.850	17.801	24.815	27.836	32.752	34.452
500	7.399	7.840	8.850	9.657	15.654	18.160	24.835	27.927
1000					9.657	11.246	17.230	20.655
2000						6.318	10.478	11.276
5000						2.715	4.752	6.285
10000	0.430	0.465	0.547	0.618	1.209			