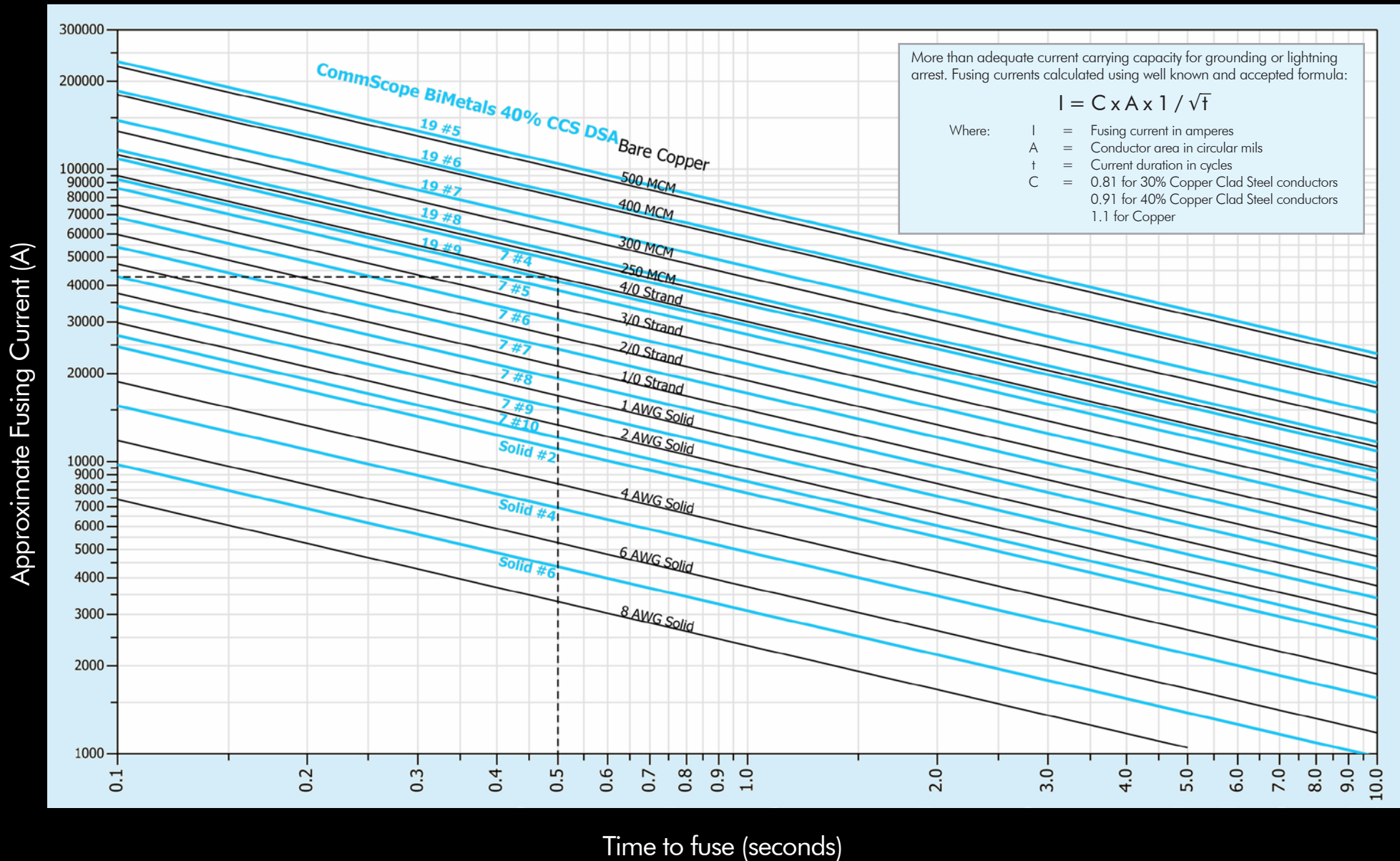


Approximate Fusing Currents for 40% Copper Clad Steel



Approximate Short Term Fusing Currents for 40% CCS (amps)

Time (sec)	Cycles	19 No.5 40% 628,917 CMIL	19 No.6 40% 498,762 CMIL	19 No.7 40% 395,542 CMIL	19 No.8 40% 313,684 CMIL	19 No.9 40% 248,767 CMIL	7 No.4 40% 292,171 CMIL	7 No.5 40% 231,706 CMIL	7 No.6 40% 183,754 CMIL	7 No.7 40% 145,726 CMIL	7 No.8 40% 115,568 CMIL	7 No.9 40% 91,651 CMIL	7 No.10 40% 72,683 CMIL	Solid No.2 40% 66,365 CMIL	Solid No.4 40% 41,738 CMIL	Solid No.6 40% 26,250 CMIL
0.05	3	330,426	262,044	207,814	164,807	130,700	153,504	121,736	96,543	76,563	60,718	48,152	38,187	34,867	21,929	13,792
0.1	6	233,647	185,293	146,947	116,536	92,419	108,543	86,080	68,266	54,138	42,934	34,049	27,002	24,655	15,506	9,752
0.2	12	165,213	131,022	103,907	82,403	65,350	76,752	60,868	48,271	38,281	30,359	24,076	19,094	17,434	10,965	6,896
0.3	18	134,896	106,979	84,840	67,282	53,358	62,668	49,698	39,413	31,257	24,788	19,658	15,590	14,235	8,953	5,630
0.4	24	116,823	92,647	73,473	58,268	46,209	54,272	43,040	34,133	27,069	21,467	17,024	13,501	12,328	7,753	4,876
0.5	30	104,490	82,866	65,716	52,116	41,331	48,542	38,496	30,529	24,211	19,201	15,227	12,076	11,026	6,935	4,361
0.6	36	95,386	75,646	59,991	47,576	37,730	44,313	35,142	27,869	22,102	17,528	13,900	11,024	10,065	6,330	3,981
0.7	42	88,310	70,034	55,541	44,046	34,931	41,026	32,535	25,802	20,462	16,228	12,869	10,206	9,319	5,861	3,686
0.8	48	82,607	65,511	51,953	41,202	32,675	38,376	30,434	24,136	19,141	15,180	12,038	9,547	8,717	5,482	3,448
0.9	54	77,882	61,764	48,982	38,845	30,806	36,181	28,693	22,755	18,046	14,311	11,350	9,001	8,218	5,169	3,251
1	60	73,886	58,595	46,469	36,852	29,225	34,324	27,221	21,588	17,120	13,577	10,767	8,539	7,797	4,903	3,084
2	120	52,245	41,433	32,858	26,058	20,665	24,271	19,248	15,265	12,106	9,600	7,614	6,038	5,513	3,467	2,181

Approximate Short Term Fusing Currents for Copper (amps)

Time (sec)	Cycles	500 MCM 500,000 CMIL	400 MCM 400,000 CMIL	300 MCM 300,000 CMIL	250 MCM 250,000 CMIL	4/0 Strand 211,563 CMIL	3/0 Strand 167,779 CMIL	2/0 Strand 133,057 CMIL	1/0 Strand 105,521 CMIL	Solid No. 1 83,683 CMIL	Solid No. 2 66,365 CMIL	Solid No. 4 41,738 CMIL	Solid No. 6 26,250 CMIL	Solid No. 8 16,510 CMIL
0.05	3	317,543	254,034	190,526	158,771	134,361	106,555	84,503	67,015	53,146	42,148	26,508	16,671	10,485
0.1	6	224,537	179,629	134,722	112,268	95,007	75,345	59,753	47,387	37,580	29,803	18,744	11,788	7,414
0.2	12	158,771	127,017	95,263	79,386	67,180	53,277	42,251	33,508	26,573	21,074	13,254	8,336	5,243
0.3	18	129,636	103,709	77,782	64,818	54,853	43,501	34,498	27,359	21,697	17,207	10,822	6,806	4,281
0.4	24	112,268	89,815	67,361	56,134	47,504	37,673	29,876	23,693	18,790	14,901	9,372	5,894	3,707
0.5	30	100,416	80,333	60,249	50,208	42,489	33,696	26,722	21,192	16,806	13,328	8,382	5,272	3,316
0.6	36	91,667	73,333	55,000	45,833	38,787	30,760	24,394	19,346	15,342	12,167	7,652	4,813	3,027
0.7	42	84,867	67,893	50,920	42,433	35,909	28,478	22,584	17,911	14,204	11,264	7,084	4,456	2,802
0.8	48	79,386	63,509	47,631	39,693	33,590	26,639	21,126	16,754	13,287	10,537	6,627	4,168	2,621
0.9	54	74,846	59,876	44,907	37,423	31,669	25,115	19,918	15,796	12,527	9,934	6,248	3,929	2,471
1	60	71,005	56,804	42,603	35,502	30,044	23,826	18,895	14,985	11,884	9,424	5,927	3,728	2,345
2	120	50,208	40,166	30,125	25,104	21,244	16,848	13,361	10,596	8,403	6,664	4,191	2,636	1,658

40% DSA Copper Clad Steel for Grounding Applications

The most economical choice is to replace dead soft annealed (DSA) copper with DSA copper clad steel for grounding applications (down-pole and mats). Below are a few of the major advantages:

Life	Equivalent to copper in corrosion resistance
Fatigue Resistance	Superior to annealed copper
Handling	Flexible and manageable like copper, yet more robust and durable than dead soft annealed copper
Mechanical	Higher mechanical strengths minimize physical damage during installation and service
Weight	Lighter than copper by 8.5% for equivalent sizes
Theft Resistance	Zero scrap value



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