

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 utility grounding applications (down-pole and mats).

Below are a few of the major advantages:

Advantages	
Life	Equivalent to copper in corrosion resistance
Fatigue Resistance	Superior to annealed copper by 10X
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
Electrical	<p>More than adequate current carrying capacity for grounding or lightning arrest. Fusing currents calculated using well know and accepted formula:</p> $I = C \times A \times t / \sqrt{t}$ <p>Where:</p> <ul style="list-style-type: none"> I = Fusing current in amperes A = Conductor area in circular mils t = Current duration in cycles C = 0.81 for 30% Copper Clad Steel conductors 0.91 for 40% Copper Clad Steel conductors
Theft Resistance	Zero scrap value
Packaging	Stems, reels, or coils to meet customers requirements
Availability	Factory maintained stocks ready for delivery
Manufactured	Manufactured in the USA by CommScope Bimetals, an American-owned and operated company

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Product Part Number	AWG Wire Size	Wire Diameter (in)	Circular (Mils)	Pounds per kft	Minimum Nominal Copper Thickness (in)	Resistance (ohms / kft)	Breaking Load (lbs)
M035204	4	0.2043	41738	115.8	0.0184	0.6337	1475
M035182	5	0.1819	33088	91.82	0.0164	0.7994	1169
M035162	6	0.1620	26244	72.83	0.0146	1.0079	928
M035144	7	0.1443	20822	57.78	0.013	1.2703	736
M035128	8	0.1285	16512	43.92	0.0113	1.6714	584
M035114	9	0.1144	13087	36.32	0.0103	2.0211	463
M035102	10	0.1019	10384	28.81	0.0092	2.5474	367
M035091	11	0.0907	8226	22.83	0.0082	3.2154	291
M035081	12	0.0808	6529	18.12	0.0073	4.0516	231



Grounding mats are also constructed using stranded DSA 40% copper clad steel.

Various strand configurations of copper clad steel for grounding applications



Packaging Available

Stems: 1000 to 4000 lbs
 Reels: Continuous lengths from 500 lbs to 1800 lbs
 Coils on Stems: 50/100 lbs up to 1000 lbs
 Spools: 25 lbs/spool 20-stretched wrapped on a pallet



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