

hide™

PVC-JACKETED COPPERWELD® POLE GROUND WIRE

HIDE. IN PLAIN SIGHT.

Copperweld® HIDE™ is a new range of bimetallic conductors from Copperweld jacketed with a thin layer of grey UV-stabilized PVC so it doesn't resemble bare copper wire.

Solid copper wire is a hot commodity on the black market, leading to a sharp rise in theft across the globe. Scrap dealers offer big money for copper, and many that are less scrupulous may fail to question the source of the material being turned in. In applications where copper is used for grounding, any exposed wire is vulnerable. Copper is by its nature soft and easy to cut, so thieves can remove it quickly. Damage to the grounding grid can endanger equipment, personnel and your customers. In the long run, the money lost continually replacing stolen grounding wire can be substantial.

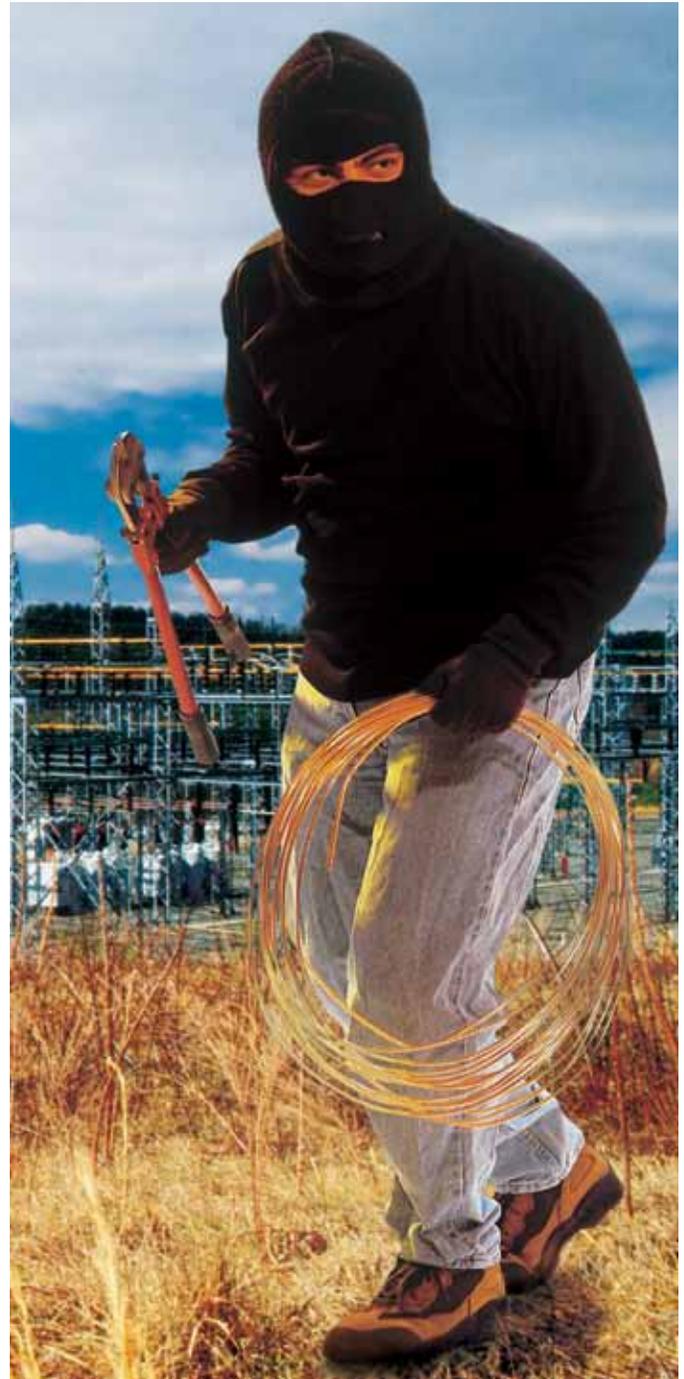
Installing even bare Copperweld® wire and strand substantially reduces the risk of theft. With its high-strength steel core, our CCS strand is very hard to sever, and there is little incentive to make away with it. The copper in bimetallics cannot be recycled or melted down, thanks to the permanent metallurgical bond between it and the steel. If thieves try to cash the stolen cable in, they'll find that it is practically worthless on the scrap market.

But Copperweld® looks just like copper to the thief on the prowl. They may in haste decide to cut it anyway only to be disappointed when they go to cash in on their loot, which still means outages or unsafe, ungrounded poles that are at risk for fault.

So HIDE™ goes one step further. The grey PVC jacket wrapping the outside of our strong CCS effectively makes the wire in question look at first glance like simple galvanized steel—and as such of no interest to copper thieves.

CUT IT — STRIP IT — CONNECT IT.

We've listened to our users, and we know that fast installations mean more ground gets covered when trenching in grounding wire. Time is money. So there's not a lot of extra fuss involved in installing Copperweld® HIDE™ in the field. Just cut the wire, strip the PVC coating at the terminal end, and connect it as you would copper. Simple.



COPPER THEFT: A GRAVE DANGER.

The money lost in copper thefts aren't even the greatest concern. A recent criminal intelligence assessment warns: "Copper thieves are threatening critical infrastructure by targeting electrical substations.... The theft of copper from these targets disrupts the flow of electricity... and presents a risk to both public safety and national security."

For a small sum of money, thieves risk their lives and those of service providers, field workers, and customers. Ungrounded facilities can be an epic disaster in case of fault. In these uncertain times, a safe and steady supply of electricity is paramount to maintaining our way of life. HIDE™ from Copperweld represents another first-line defense in the fight to keep our energy grids safe and secure.



PHYSICAL AND ELECTRICAL CHARACTERISTICS AND SHORT-TIME FUSING CURRENTS, DEAD SOFT ANNEALED (DSA) 40% IACS CONDUCTIVITY

PHYSICAL AND ELECTRICAL CHARACTERISTICS — COPPERWELD® DSA CONDUCTORS

SIZE	DIAMETER		LENGTH PER SPOOL		MINIMUM BREAKING LOADS		WEIGHT		CROSS SECTION AREA		APPROXIMATE SHORT-TIME FUSING CURRENT AT 30 CYCLES (kA)
	inch	mm	ft	m	lbf	kN	lbs/kft	kg/km	cmil	mm ²	
40% CONDUCTIVITY											
7-Wire Strand											
2 AWG	0.258	6.55	134	40.8	1435	6.4	145	216	51772	26.23	7.00
4 AWG	0.204	5.18	214	65.2	897	4.0	91	135	32368	16.40	4.38
Single Wire											
4 AWG	0.204	5.19	214	65.2	1272	5.7	116	172	41738	21.15	5.65
6 AWG	0.162	4.11	338	103.0	800	3.6	73	108	26244	13.30	3.55

NOTE: Standard green spools weigh approximately 25 lbs. (11.3 kg) and have 2 inch (5.1 cm) arbor holes. Other packaging options are available.

APPROXIMATE SHORT-TIME FUSING CURRENTS — COPPERWELD® DSA CONDUCTORS

SIZE	DURATION OF CURRENT					
	3 CYCLES (0.05 sec)	6 CYCLES (0.10 sec)	9 CYCLES (0.15 sec)	30 CYCLES (0.5 sec)	60 CYCLES (1.0 sec)	120 CYCLES (2.0 sec)
	CURRENT IN kA					
40% CONDUCTIVITY						
7-Wire Strand						
2 AWG	22.14	15.66	12.79	7.00	4.95	3.50
4 AWG	13.84	9.79	7.99	4.38	3.10	2.19
Single Wire						
4 AWG	17.85	12.62	10.31	5.65	3.99	2.82
6 AWG	11.23	7.94	6.48	3.55	2.51	1.78

NOTE: Short-time fusing data for DSA Copperweld® strand are shown for fault currents at various durations. These currents were derived from the formulae and constants provided in IEEE Standard 80 (IEEE Guide for Safety in AC Substation Grounding), which lists copper-clad steel as an accepted conductor material. Tests conducted by an independent outside laboratory verified that the DSA Copperweld™ conductors meet and actually exceed the IEEE standard by 5 to 8%.

INSIST ON THE REAL THING.

We hear our trademarked name, Copperweld®, tossed around all the time in the utility industry— many people say it any time they mean copper-clad steel. But make no mistake: we are the only manufacturers in the world of genuine Copperweld® CCS. Our patented cladding process is proprietary, and has stood the test of almost 100 years in the marketplace. Nobody else can say that. Because the conductive copper of our bimetallic wire is always solid, it doesn't crack, flake or peel like plated products can. So... unless you buy genuine Copperweld® from us, you're buying something else entirely. Who knows what?



Only Copperweld Bimetals makes genuine Copperweld® CCS. And only Copperweld Bimetals makes HIDE™, with genuine Copperweld® at its core. So you can rest assured of the highest quality bimetallic conductors available on the market.

THE WHOLE PACKAGE.

Copperweld® HIDE™ is available on our easily identified green spools (12" diameter, 2" arbor hole, 25 lb. capacity), and packed 20 to a pallet. Other packaging configurations are available upon request. Ask your representative to explain your options. We're sure to be able to suit your needs.

ADVANTAGE: COPPERWELD®

Conductivity of copper

For high frequency applications

Fatigue resistance

Won't break, crack, flake or peel

Ample fusing current

Exceeds most design requirements

Strength of steel

Far superior to copper

Corrosion resistance

Long life under adverse conditions

Low scrap value

Excellent theft resistance



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