



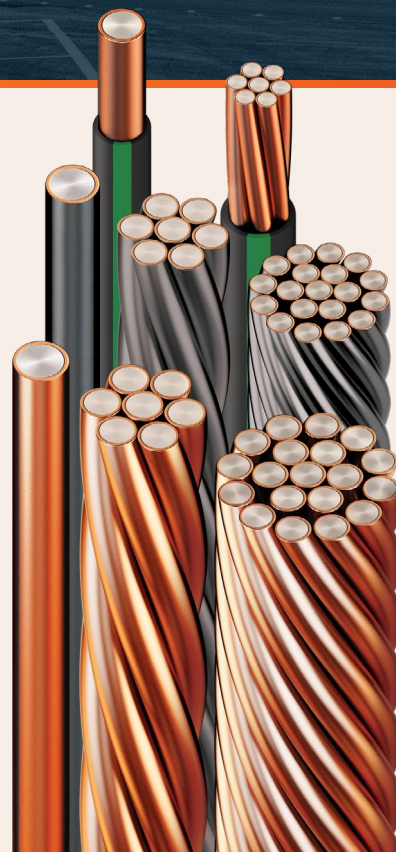
COPPERWELD®
BRAND WIRE

Century Grid®

High-Strength Grounding Conductors

Copper-Clad Steel (CCS) Grounding Conductors for the Toughest Utility Conditions

Across the power grid, grounding conductors must withstand decades of mechanical stress, harsh environments, and long-term exposure in critical utility infrastructure. For over a century, utilities have trusted Century as a high-strength CCS grounding conductor engineered for unmatched durability where reliability matters most. Available in Bare, Camo, and Hide finishes, Century helps utilities build grounding networks designed to last.



Why Utilities Choose Century Grid[®] CCS Grounding Conductors

Century is engineered for unmatched durability, long service life, and dependable grounding in the toughest utility environments.

Century delivers high-strength grounding performance compared to soft drawn copper for utilities that prioritize durability in the harshest conditions. Designed to resist mechanical damage, deformation, and long-term environmental exposure, Century supports dependable grounding across substation, distribution, and remote transmission infrastructure. Available in Bare, Camo, and Hide finishes to match site visibility needs.

Options Designed for Utility Grounding Specifications

Century is available in multiple physical finishes and configurations — designed for connector compatibility and straightforward specification.

Century gives utilities the flexibility to match grounding conductors to real-world site needs without complicating design or installation. With Bare, Camo, and Hide finish options, Century supports visibility preferences and physical environment requirements. Fully compatible with common grounding connectors and engineered to meet applicable industry standards, Century delivers dependable grounding performance utilities can specify with confidence.



Unmatched Durability

Engineered for maximum mechanical durability, Century withstands demanding installs where strength and resiliency are essential.



Bare, Camo, or Hide Finishes

Available in multiple finish options, Century helps utilities match site visibility needs and installation environments.



Proven Reliability

Trusted for over a century in critical grounding networks, Century delivers when reliability matters most.



Superior Strength

With the strength of steel, Copperweld[®] CCS resists stretching, breakage, and deformation under mechanical and thermal stress — and exceeds ASTM standards for CCS conductors.



Corrosion Resistance

Copperweld CCS conductors are engineered to perform in demanding environments. With copper thickness and metallurgical bond integrity that exceed ASTM standards, Copperweld CCS helps protect the steel core and maintain conductor integrity over time.*



Reduced Theft Incentives

With a rugged steel core and lower scrap value than solid copper, CCS helps reduce theft incentives in remote or unmonitored locations.

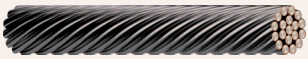
* Service life varies based on soil conditions, installation environment, and exposure factors. Underground performance may be impacted by soil chemistry, pH, moisture, and circulating currents. These conditions influence the performance of all grounding conductor materials, including copper and CCS.

Finishes:



Bare Finish

Copperweld standard copper-clad steel wire



Camo Finish

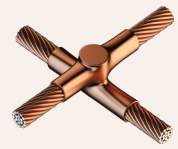
Visual deterrence against copper theft



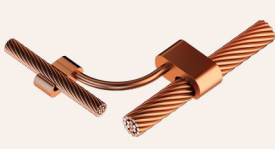
Hide Jacket

Visual deterrence against copper theft

Connector Compatibility:



Exothermic



Crimp



Compression



Swage

Steel Core Options:

- **Low Carbon Steel** – Standard core used in Century grounding conductors
- **High Strength (HS) Steel** – Increased tensile strength option for applications requiring greater mechanical performance
- **Extra High Strength Steel** – Maximum strength option for demanding transmission and overhead environments

Compliance and Listings:

- **ASTM Standards:** ASTM B-193, ASTM B-452, ASTM B-228, and ASTM B-910
- **RUS Listed:** Visit the USDA RUS website for current listings
- **NESC Compliant:** Part 93 (Lightning)
- **ISO Certification:** Copperweld facilities are ISO 9001:2015 certified
- **BABA Compliant:** All bimetals manufactured at Copperweld's facilities in Fayetteville, TN, USA



500 kcmil Copper – CCS Comparison

	Century 19 N ^o . 4 (Q6C19X4A)	500 kcmil Copper (CUZ37X1162A)	Century 19 N ^o . 5 (Q6C19X5A)	Century 19 N ^o . 6 (Q6C19X6A)	Century 19 N ^o . 7 (Q6C19X7A)
Current (kA)*	108.8	101.0	87.1	69.7	55.8
Break Load (lbf)**	28,608	15,240	22,333	18,810	14,107
Diameter (in)	1.022	0.796	0.910	0.810	0.722
Weight (lb/kft)	2,255	1,544	1,788	1,418	1,125

350 kcmil Copper – CCS Comparison

	Century 19 N ^o . 5 (Q6C19X5A)	350 kcmil Copper (CUZ37X0973A)	Century 19 N ^o . 6 (Q6C19X6A)	Century 19 N ^o . 7 (Q6C19X7A)	Century 19 N ^o . 8 (Q6C19X8A)
Current (kA)*	87.1	73.0	69.7	55.8	44.6
Break Load (lbf)**	22,333	10,680	18,810	14,107	11,902
Diameter (in)	0.910	0.676	0.810	0.722	0.643
Weight (lb/kft)	1,788	1,081	1,418	1,125	892

4/0 Copper – CCS Comparison

	Century 19 N ^o . 8 (Q6C19X8A)	4/0 Copper (CUZ19X1065A)	Century 7 N ^o . 4 (Q6C7X04A)	Century 19 N ^o . 9 (Q6C19X9A)	Century 7 N ^o . 5 (Q6C7X05A)
Current (kA)*	44.6	44.0	40.1	35.6	32.1
Break Load (lbf)**	11,902	5,983	10,540	9,251	8,228
Diameter (in)	0.643	0.528	0.613	0.572	0.546
Weight (lb/kft)	892	653	827	707	656

2/0 Copper – CCS Comparison

	Century 19 N ^o . 10 (Q6C19X10A)	2/0 Copper (CUZ19X0837A)	Century 7 N ^o . 6 (Q6C7X06A)	Century 7 N ^o . 7 (Q6C7X07A)	Century 19 x 0860A (Q6C19X0860A)
Current (kA)*	28.4	28.0	25.7	20.6	20.3
Break Load (lbf)**	7,421	3,763	6,930	5,198	4,959
Diameter (in)	0.510	0.402	0.486	0.433	0.430
Weight (lb/kft)	561	411	520	413	400

1/0 Copper – CCS Comparison

	Century 7 N ^o . 6 (Q6C7X06A)	1/0 Copper (CUZ19X0745A)	Century 7 N ^o . 7 (Q6C7X07A)	Century 19 x 0860A (Q6C19X0860A)	Century 19 x 0827 (Q6C19X0827A)
Current (kA)*	25.7	22.0	20.6	20.3	19.6
Break Load (lbf)**	6,930	3,221	5,198	4,959	4,738
Diameter (in)	0.486	0.368	0.433	0.430	0.414
Weight (lb/kft)	520	323	413	400	365

#2 Copper – CCS Comparison

	Century 19 x 0750 (Q6C19X0750A)	#2 Copper (CUZ7X0974A)	Century 7 N ^o . 9 (Q6C7X09A)	Century 7 N ^o . 10 (Q6C7X10A)	Century N ^o . 2 (Q6C2576A)
Current (kA)*	15.5	14.0	13.1	10.5	8.9
Break Load (lbf)**	4,257	1,928	3,408	2,734	2,561
Diameter (in)	0.375	0.258	0.343	0.306	0.258
Weight (lb/kft)	304	205	386	206	186

#4 Copper – CCS Comparison

	Century 7 N ^o . 10 (Q6C7X10A)	#4 Copper (CUZ2043A)	Century N ^o . 2 (Q6C2576A)	Century 7 x 0860 (Q6C7X0860A)	Century N ^o . 4 (Q6C2043A)
Current (kA)*	10.5	9.0	8.9	7.5	5.7
Break Load (lbf)**	2,734	1,200	2,561	2,069	1,673
Diameter (in)	0.306	0.204	0.258	0.258	0.204
Weight (lb/kft)	206	129	186	147	117

#6 Copper – CCS Comparison

	Century 7 x 0860 (Q6C7X0860A)	Century N ^o . 4 (Q6C2043A)	#6 Copper (CUZ1620A)	Century 7 x 068 (Q6C7X0680A)	Century N ^o . 6 (Q6C1620A)
Current (kA)*	7.5	5.7	5.0	4.7	3.7
Break Load (lbf)**	2,069	1,673	763	1,295	1,100
Diameter (in)	0.258	0.204	0.162	0.204	0.162
Weight (lb/kft)	147	117	81	91	74

* Short circuit current (kA) values are based on IEEE 80:2013, Table 6 (RMS currents, 60 Hz, X/R = 0).
** Break load tensile strength values are based on nominal tested values in accordance with applicable ASTM standards.

Grounding Selection Guide

Copperweld® CCS vs Copper Comparison

In many grounding applications, conductors are upsized beyond what fault current calculations alone require to satisfy both thermal capacity and mechanical strength criteria under applicable standards. With solid copper, tensile strength often drives that size increase. Copperweld CCS conductors, by contrast, deliver mechanical strength alongside electrical conductivity, allowing sizing to more closely reflect fault current requirements without unnecessary oversizing.

Part Name	Copperweld Part #	Strands	Strand Diameter		Nom. Overall Diameter		Area		Fault Current*	Weight		Wire Resistance		Min. Break Load	
			in	mm	in	mm	kcmil	mm ²		lb/kft	kg/km	Ω/kft	Ω/kM	lbf	kgf
Century 19 No. 4	Q6C19X4A	19	0.2043	5.19	1.022	25.96	793.0	401.8	108.8	2255	3,356	0.0349	0.0106	28,608	12,976
ArcAngel 101	CWAA101	61	0.1045	2.65	0.941	23.89	667.0	338.0	101.0	1905	2,835	0.0417	0.0127	25,089	11,380
500 kcmil Copper	CUZ37X1162A	37	0.1162	2.95	0.796	20.22	500.0	253.4	101.0	1544	2,298	0.0224	0.0068	15,240	6,913
Century 19 No. 5	Q6C19X5A	19	0.1819	4.62	0.910	23.10	628.7	318.6	87.1	1788	2,661	0.0440	0.0134	22,333	10,130
ArcAngel 73	CWAA73	61	0.0890	2.26	0.801	20.35	483.0	244.7	73.0	1382	2,056	0.0570	0.0174	17,568	7,969
350 kcmil Copper	CUZ37X0973A	37	0.0973	2.47	0.676	17.17	350.0	177.3	73.0	1081	1,609	0.0310	0.0094	10,680	4,844
Century 19 No. 6	Q6C19X6A	19	0.1620	4.11	0.810	20.57	498.6	252.6	69.7	1418	2,110	0.0554	0.0169	18,810	8,532
Century 19 No. 7	Q6C19X7A	19	0.1443	3.67	0.722	18.33	395.6	200.5	55.8	1125	1,674	0.0699	0.0213	14,107	6,399
ArcAngel 52	CWAA52	61	0.0752	1.91	0.677	17.19	345.0	174.8	52.0	987	1,468	0.0798	0.0243	13,725	6,226
250 kcmil Copper	CUZ37X0822A	37	0.0822	2.09	0.572	14.53	250.0	126.7	52.0	772	1,149	0.0423	0.0129	7,627	3,460
Century 19 No. 8	Q6C19X8A	19	0.1285	3.26	0.643	16.32	313.7	159.0	44.6	892	1,327	0.0881	0.0269	11,902	5,399
ArcAngel 44	CWAA44	61	0.0689	1.75	0.620	15.75	290.0	146.9	44.0	828	1,232	0.0951	0.0290	10,541	4,781
4/0 Copper	CUZ19X1065A	19	0.1065	2.71	0.528	13.40	211.6	107.2	44.0	653	972	0.0500	0.0152	5,983	2,714
Century 7 No. 4	Q6C7X04A	7	0.2043	5.19	0.613	15.57	292.2	148.1	40.1	827	1,231	0.0942	0.0287	10,540	4,781
Century 19 No. 9	Q6C19X9A	19	0.1144	2.91	0.572	14.53	248.7	126.0	35.6	707	1,052	0.1112	0.0339	9,251	4,196
Century 7 No. 5	Q6C7X05A	7	0.1819	4.62	0.546	13.86	231.6	117.4	32.1	656	977	0.1189	0.0362	8,228	3,732
4Thought	Q6C19X1055A	19	0.1055	2.68	0.528	13.40	211.5	107.2	30.4	601	895	0.1307	0.0398	7,952	3,607
Century 19 No. 10	Q6C19X10A	19	0.1019	2.59	0.510	12.94	197.3	100.0	28.4	561	835	0.1401	0.0427	7,421	3,366
ArcAngel 28	CWAA28	19	0.0985	2.50	0.493	12.51	184.0	93.2	28.0	524	780	0.1484	0.0452	7,097	3,219
2/0 Copper	CUZ19X0837A	19	0.0837	2.13	0.402	10.21	133.1	67.4	28.0	411	611	0.0795	0.0242	3,763	1,707
Century 7 No. 6	Q6C7X06A	7	0.1620	4.11	0.486	12.34	183.7	93.1	25.7	520	774	0.1499	0.0457	6,930	3,143
ArcAngel 22	CWAA22	19	0.0890	2.26	0.445	11.30	150.0	76.0	22.0	428	637	0.1818	0.0554	5,472	2,482
1/0 Copper	CUZ19X0745A	19	0.0745	1.89	0.368	9.36	105.6	53.5	22.0	323	481	0.1003	0.0306	3,221	1,461
Century 7 No. 7	Q6C7X07A	7	0.1443	3.67	0.433	11.00	145.8	73.9	20.6	413	615	0.1889	0.0576	5,198	2,358
Century 19 x 0860A	Q6C19X0860A	19	0.0860	2.18	0.430	10.92	140.5	71.2	20.3	400	543	0.1947	0.0593	4,959	2,249
Century 19 x 0827	Q6C19X0827A	19	0.0827	2.10	0.414	10.50	129.9	65.8	19.6	365	595	0.2106	0.0642	4,738	2,149
Century 7 x 1379	Q6C7X1379A	7	0.1379	3.50	0.414	10.51	133.1	67.4	18.8	561	835	0.2068	0.0630	4,568	2,072
Century 7 No. 8	Q6C7X08A	7	0.1285	3.26	0.386	9.79	115.6	58.6	16.4	327	487	0.2382	0.0726	4,385	1,989
Century 19 x 0750	Q6C19X0750A	19	0.0750	1.91	0.375	9.53	106.9	54.2	15.5	304	452	0.2560	0.0780	4,257	1,931
ArcAngel 14	CWAA14	19	0.0700	1.78	0.350	8.89	93.00	47.1	14.0	265	394	0.2939	0.0896	4,019	1,823
2 Copper	CUZ7X0974A	7	0.0974	2.47	0.258	6.54	66.36	33.6	14.0	205	305	0.1594	0.0486	1,928	875
Century 7 No. 9	Q6C7X09A	7	0.1144	2.91	0.343	8.72	91.60	46.4	13.1	386	574	0.3006	0.0916	3,408	1,546
Century 7 No. 10	Q6C7X10A	7	0.1019	2.59	0.306	7.76	72.69	36.8	10.5	206	306	0.3788	0.1155	2,734	1,240
4 Copper	CUZ2043A	1	0.2043	5.19	0.204	5.19	41.74	21.1	9.0	129	192	0.2540	0.0774	1,200	544
Century No. 2	Q6C2576A	1	0.0974	2.47	0.258	6.54	66.36	33.6	8.9	186	277	0.4108	0.1252	2,561	1,162
Century 7 x 0860A	Q6C7X0860A	7	0.0860	2.18	0.258	6.55	51.77	26.2	7.5	147	219	0.5265	0.1605	2,069	938
Century No. 4	Q6C2043A	1	0.2043	5.19	0.204	5.19	41.74	21.1	5.7	117	174	0.6532	0.1991	1,673	759
6 Copper	CUZ1620A	1	0.1620	4.11	0.162	4.11	26.24	13.3	5.0	81	121	0.4030	0.1228	763	346
Century 7 x 068	Q6C7X0680A	7	0.0680	1.73	0.204	5.18	32.37	16.4	4.7	91	135	0.8421	0.2567	1,295	587
Century No. 6	Q6C1620A	1	0.1620	4.11	0.162	4.11	26.25	13.3	3.7	74	110	1.0388	0.3166	1,100	499
8 Copper	CUZ1285A	1	0.1285	3.26	0.129	3.28	16.51	8.4	3.0	51	76	0.6408	0.1953	499	226
Century No. 8	Q6C1285A	1	0.1285	3.26	0.129	3.28	16.51	8.4	2.5	47	69	1.6510	0.5032	696	316

* Short circuit current (kA) values are based on IEEE 80:2013, Table 6 (RMS currents, 60 Hz, X/R = 0). Fusing temps at 1084 °C.

Century Grid® Resources

Visit copperweld.com for additional Copperweld Power Grid resources, videos, events, and more.

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