30% High Strength Copper Clad Steel

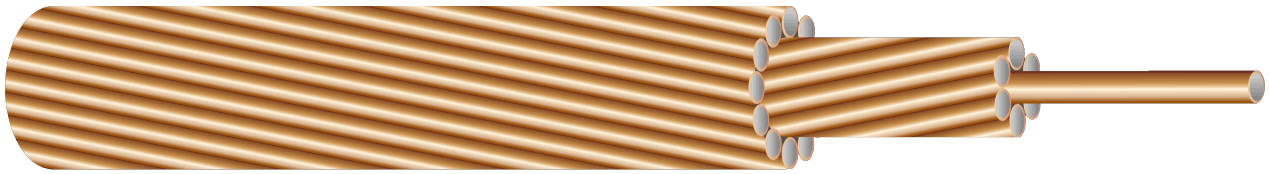

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

Stranded Copper-Clad Steel per ASTM A460

APPLICATIONS AND FEATURES:

30% Conductivity High Strength Copper-Clad Steel Wire is designed for use as guy wires for overhead lines, messengers, or span wires. Features higher tensile strength with minimal sag compared to solid copper. Resistant to permanent stretch caused by seasonal changes in temperature and less susceptible to cracking from repeated flexing and mechanical vibration. With very little scrap value, discourages theft.

SPECIFICATIONS:

- ASTM A460 Standard Specification for Copper-Clad Steel Wire Strand
- ASTM B228 Standard Specification for Concentric-Lay-Stranded Copper-Clad Steel Conductors
- ASTM B227 Standard for Hard-Drawn Copper-Clad Steel Wire

Table 1 – Weights and Measurements

Stock Number	Cond. Size	Strand Count	Approx. OD	Cond. Area	Rated Breaking Strength	Approx. Weight	DC Resistance @ 20°C
	AWG	No. of Strands	inch	cmil	lbs.	LBS/1000ft	Ω/1000ft
CC-10001	19#4	19	1.022	793000	65264	2346.4	0.0442
CC-10002	19#5	19	0.91	628700	53893	1860.1	0.0558
CC-10003	19#6	19	0.81	498600	44456	1475.3	0.0703
CC-10004	19#7	19	0.722	395600	36629	1170.6	0.0886
CC-10005	19#8	19	0.643	313700	30123	928.3	0.1118
CC-10006	19#9	19	0.572	248700	24727	735.7	0.1410
CC-10007	4/0	19	0.528	211500	21030	625.7	0.1658
CC-10008	19#10	19	0.51	197300	20431	583.7	0.1777
CC-10009	7#4	7	0.613	292200	24045	861.0	0.1195
CC-10010	7#5	7	0.546	231600	19855	682.6	0.1508
CC-10011	7#6	7	0.486	183700	16379	541.4	0.1901
CC-10012	7#7	7	0.433	145800	13495	429.6	0.2396
CC-10013	2/0	7	0.414	133100	12324	392.3	0.2624
CC-10014	7#8	7	0.386	115600	11098	340.6	0.3021
CC-10015	1/0	7	0.368	105600	10135	311.1	0.3308
CC-10016	7#9	7	0.343	91610	9110	270.0	0.3812
CC-10017	7#10	7	0.306	72690	7527	214.2	0.4805

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