40% High Strength Copper Clad Steel

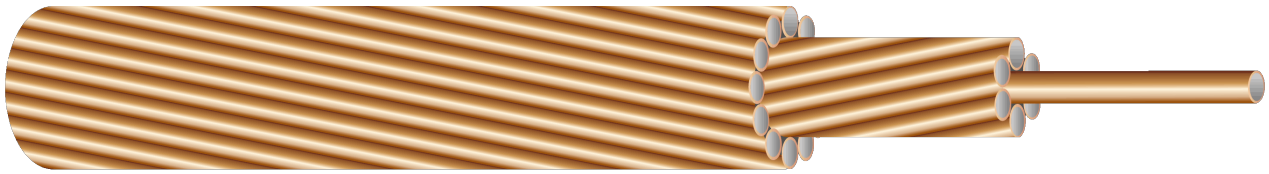

Image not to scale. See Table 1 for dimensions.

CONSTRUCTION:

Stranded Copper-Clad Steel per ASTM A460

APPLICATIONS AND FEATURES:

40% 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

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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-10033	19#4	19	1.022	793000	58738	2251.7	0.0331	
CC-10034	19#5	19	0.910	628700	48719	1785	0.0418	
CC-10035	19#6	19	0.810	498600	40353	1415.8	0.0527	
CC-10036	19#7	19	0.722	395600	33373	1123.3	0.0664	
CC-10037	19#8	19	0.643	313700	27541	890.8	0.0837	
CC-10038	19#9	19	0.572	248700	22681	706.0	0.1057	
CC-10039	4/0	19	0.528	211500	19289	600.4	0.1242	
CC-10040	19#10	19	0.510	197300	18753	560.2	0.1332	
CC-10041	7#4	7	0.613	292200	21640	826.3	0.0896	
CC-10042	7#5	7	0.546	231600	17949	655.0	0.1130	
CC-10043	7#6	7	0.486	183700	14867	519.6	0.1424	
CC-10044	7#7	7	0.433	145800	12295	412.2	0.1795	
CC-10045	2/0	7	0.414	133100	11229	376.5	0.1966	
CC-10046	7#8	7	0.386	115600	10147	326.9	0.2264	
CC-10047	1/0	7	0.368	105600	9266	298.5	0.2479	
73610240	7#9	7	0.343	91610	8356	259.1	0.2856	
CC-10048	7#10	7	0.306	72690	6909	205.6	0.3600	
73610340	2	7	0.258	51700	4971	146.0	0.5054	

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