



## High Performance Conductor Options

Base Material	Alloy No.	Properties					Size and Coating				
		Tensile Strength (PSI)		Elong. (Annealed)	Cond. % IACS	Density (LBS/CU. INCH)	AWG Size Range		Coatings		
		Annealed	Hard				Single Strand	Stranded	Tin	Silver	Nickel
Copper ETP	C11000	35,000	68,000	25	100	0.322	14 to 56	4/0 to 36	.	.	.
OF	C10200	35,000	68,000	25	100	0.322	14 to 56	4/0 to 36	.	.	.
OF w/Silver	C10700	35,000	68,000	25	100	0.322	14 to 56	4/0 to 36	.	.	.
High Strength CS-95®	—	95,000	130,000	6	63	0.319	24 to 56	24 to 56	.	.	.
Tensile-Flex®4	C18135	60,000	120,000	8	90	0.322	18 to 52	4 to 24	.	.	.
Zr Copper	C15000	36,000	70,000	25	90	0.322	18 to 40	14 - 30	.	.	.
CT37™	—	50,000	95,000	8	80	0.322	18 to 48	4/0 to 42	.	.	.
CC78™	-	50,000	85,000	8	90	0.321	18 to 48	4/0 to 42	.	.	.
Cd Copper	C16200	50,000	110,000	8	90	0.231	14 to 40	4 to 36	.	.	.
Cd Copper	C16500	45,000	95,000	25	60	0.321	14 to 40		.	.	.
Copper Clad Steel											
CLASS 30	—	60,000	127,000	15	30	0.294	18 to 40	10 to 30	.	.	.
CLASS 40	—	55,000	110,000	15	40	0.294	18 to 40	10 to 30	.	.	.
CLASS 60	—	45,000	90,000	20	60	0.294	20 to 40	10 to 30	.	.	.
CLASS 70	—	40,000	80,000	20	70	0.294	20 to 44	10 to 30	.	.	.
Brass											
70/30	C26000	60,000	130,000	30	27	0.308	27	0.308			
80/20	C24000	55,000	125,000	30	32	0.313	18 to 40				
85/15	C23000	48,000	105,000	30	36	0.316	18 to 40				
87/13	C22600	45,000	97,000	30	40	0.317	18 to 40				
90/10	C22000	45,000	90,000	30	43	0.318	18 to 40				
95/5	C21000	45,000	65,000	30	56	0.320	18 to 40				
Silicon Bronze											
Low (B) 1015	C65100	45,000	105,000	30	11	0.316	20 to 38				
High (A) 1010	C65500	60,000	145,000	30	7	0.308	20 to 38				
Phosphor Bronze											
95/5	C51000	57,000	140,000	35	15	0.320	20 to 40				
97/3	C50900	53,000	125,000	35	16	0.321	20 to 30				
92/8	C52100	70,000	150,000	50	12	0.318	20 to 40				
Nickel Silver											
10%	C74500	700,000	105,000	25	8.4	0.310	16 to 40				
12%	C75700	70,000	93,000	25	7.7	0.310	16 to 40				
18%	C75200	70,000	103,000	25	6.2	0.316	16 to 40				
Aluminum											
EC	—	15,000	25,000	15	62	0.098	20 to 38	4/0 to 8			
5056	—	45,000	65,000	15	29	0.095	20 to 38				
Other											
Nickel	200	65,000	150,000	25	18	0.321	18 to 40				
CCAL	—	17,000	23,000	10	62	0.121	16 to 38	2 to 30	.	.	.
Silver	—	18,000	55,000	30	108	0.379	16 to 40		.	.	.
Steel	LC	55,000	110,000	20	13	0.284	22 to 38			.	.
Stainless Steel	304	125,000	250,000	30	2.3	0.286	30 to 50	18 to 42			.

- Physical properties are all nominal values and should not be used for specification purposes
- Other sizes and constructions available upon request
- Actual elongation will vary with size
- Previously referred to as PD Alloy 135

CHART COURTESY OF PHELPS DODGE HIGH PERFORMANCE CONDUCTORS.

