



POWER KABEL INC.

Stranded Bare Copper-Clad Steel

APPLICATIONS & FEATURES

Ground wire for electrical power systems, telephone and CATV drop wire, tracer wire, and catenary wire for electrified railroads. Concentric-lay-stranded, 30% and 40% conductivity, conductors made from round copper-clad steel wires for electrical purposes. Available in high strength (HS), extra-high strength (EHS), or dead soft annealed (DSA) tempers.

INDUSTRY COMPLIANCES

ASTM B-227 Hard drawn copper-clad steel wire
 ASTM B-910 Annealed copper-clad steel wire
 ASTM B-228 Concentric-lay-stranded copper-clad steel conductors

CONSTRUCTION

CONDUCTOR: Stranded Bare Copper-Clad Steel

AWG	OUTSIDE DIAMETER (INCHES)	BREAKING LOAD * (LBS)			WEIGHT PER 1000 FT	RESISTANCE OHMS PER 1000 FT @ 68°F	
		HIGH STRENGTH (HS)	EXTRA-HIGH STRENGTH (EHS)			CONDUCTIVITY	
		40%	30%	30%		40%	30%
37-Wire Copper-clad Steel Strands							
37 no. 5	1.27	97,830	108,200	130,300	3,466	0.02203	0.02936
37 no. 6	1.13	81,020	89,250	108,100	2,749	0.02778	0.03703
37 no. 7	1.01	66,970	73,500	89,290	2,180	0.03503	0.04669
37 no. 8	0.899	55,270	60,450	73,400	1,729	0.04417	0.05888
37 no. 9	0.801	45,540	49,650	59,920	1,371	0.05569	0.07424
37 no. 10	0.713	37,640	41,000	48,610	1,087	0.07023	0.09362
19-Wire Copper-clad Steel Strands							
19 no. 5	0.91	50,240	55,570	66,910	1,770	0.04264	0.05685
19 no. 6	0.81	41,600	45,830	55,530	1,403	0.05377	0.07168
19 no. 7	0.721	34,390	37,740	45,850	1,113	0.0678	0.09039
19 no. 8	0.642	28,380	31,040	37,690	882.7	0.0855	0.114
19 no. 9	0.572	23,390	25,500	30,610	700	0.1078	0.1437
7-Wire Copper-clad Steel Strands							
7 no. 5	0.546	18,510	20,470	24,650	649.4	0.1153	0.1537
7 no. 6	0.486	15,330	16,890	20,460	515	0.1454	0.1938
7 no. 7	0.433	12,670	13,910	16,890	408.4	0.1833	0.2444
7 no. 8	0.385	10,460	11,440	13,890	323.9	0.2312	0.3081
7 no. 9	0.343	8,616	9,393	11,280	256.9	0.2915	0.3886
7 no. 10	0.306	7,121	7,758	9,196	203.7	0.3676	0.49
3-Wire Copper-clad Steel Strands							
3 no. 5	0.392	8,373	9,262	11,860	277.8	0.2685	0.3579
3 no. 6	0.349	6,934	7,639	8,754	220.3	0.3385	0.4513
3 no. 7	0.311	5,732	6,291	7,922	174.7	0.4269	0.5691
3 no. 8	0.277	4,730	5,174	6,282	138.5	0.5383	0.7176
3 no. 9	0.247	3,898	4,250	5,129	109.9	0.6788	0.9049
3 no. 10	0.22	3,221	3,509	4,160	87.13	0.8559	1.141
3 no. 12	0.174	2,236	--	2,565	54.8	1.361	1.814

* Breaking loads of 7-Wire, 19-Wire, and 37-Wire Copper-clad Steel Strands are taken as 90% of the sum of the breaking loads of the individual wires; breaking load of 3-Wire Copper-clad Steel Strands is taken as 95% of the sum of the breaking loads of the individual wires