Stranded

Product Description

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.

Application

Ground wire for electrical power systems, telephone and CATV drop wire, tracer wire, and catenary wire for electrified railroads.

Product Data

Stranded Bare Copper-Clad Steel

Size (No. - Awg)	Diameter (inches)	Breaking Load* (lbs.)			Weight		Resistance	
		High Strength (HS)		Extra-High Strength (EHS)	Lbs. per 1000 ft.	Lbs. per Mile	Ohms Per 1000 Ft. at 68°F	
		40% Conductivity	30% Conductivity	30% Conductivity			40% Conductivity	30% Conductivity
37-Wire Copper-clad Steel Strands								
37 no. 5	1.270	97,830	108,200	130,300	3,466	18,300	.02203	.02936
37 no. 6	1.130	81,020	89,250	108,100	2,749	14,520	.02778	.03703
37 no. 7	1.010	66,970	73,500	89,290	2,180	11,510	.03503	.04669
37 no. 8	.899	55,270	60,450	73,400	1,729	9,130	.04417	.05888
37 no. 9	.801	45,540	49,650	59,920	1,371	7,240	.05569	.07424
37 no. 10	.713	37,640	41,000	48,610	1,087	5,740	.07023	.09362
19-Wire Copper-clad Steel Strands								
19 no. 5	.910	50,240	55,570	66,910	1,770	9,344	.04264	.05685
19 no. 6	.810	41,600	45,830	55,530	1,403	7,410	.05377	.07168
19 no. 7	.721	34,390	37,740	45,850	1,113	5,877	.06780	.09039
19 no. 8	.642	28,380	31,040	37,690	882.7	4,660	.08550	.1140
19 no. 9	.572	23,390	25,500	30,610	700.0	3,696	.1078	.1437
7-Wire Copper-clad Steel Strands								
7 no. 5	.546	18,510	20,470	24,650	649.4	3,429	.1153	.1537
7 no. 6	.486	15,330	16,890	20,460	515.0	2,719	.1454	.1938
7 no. 7	.433	12,670	13,910	16,890	408.4	2,157	.1833	.2444
7 no. 8	.385	10,460	11,440	13,890	323.9	1,710	.2312	.3081
7 no. 9	.343	8,616	9,393	11,280	256.9	1,356	.2915	.3886
7 no. 10	.306	7,121	7,758	9,196	203.7	1,076	.3676	.4900
3-Wire Copper-clad Steel Strands								
3 no. 5	.392	8,373	9,262	11,860	277.8	1,467	.2685	.3579
3 no. 6	.349	6,934	7,639	8,754	220.3	1,163	.3385	.4513
3 no. 7	.311	5,732	6,291	7,922	174.7	922.4	.4269	.5691
3 no. 8	.277	4,730	5,174	6,282	138.5	731.5	.5383	.7176
3 no. 9	.247	3,898	4,250	5,129	109.9	580.1	.6788	.9049
3 no. 10	.220	3,221	3,509	4,160	87.13	460.0	.8559	1.141
3 no. 12	.174	2,236	--	2,565	54.80	289.3	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.

Stranded Bare Copper-Clad Steel: Type "M" Guy Strand

Designation	Stranded Diameter (inches)	No. x Diameter of Individual Wires (inches)	Rated Strength (lbs.)	Weight per 1000 Ft.
6M	.237	7 x .079	6,000	122
8M	.276	7 x .092	8,000	166
10M	.303	7 x .101	10,000	200
12.5M	.345	7 x .115	12,500	259
14M	.360	7 x .120	14,000	283
16M	.386	7 x .128	16,000	324
18M	.414	7 x .138	18,000	374
20M	.432	7 x .144	20,000	407

Specification Data

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