

INTERNATIONAL WIRE GROUP

Hamilton Products Product Catalog



Hamilton Products Sales

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1-607-674-2030





INTERNATIONAL WIRE Hamilton Products

About Us

Hamilton Products, a business unit of International Wire Group's Bare Wire Division, specializes in harness braiding and bobbin winding services as well as custom cable work for customer's unique requirements. We also provide a wide range of specialty braids from bare and plated copper, aluminum, bronze and textile materials for Military, Industrial, Commercial, Aerospace and Automotive industries. Our experience in the braided wire industry ensures a unmatched quality and shortest lead time.

Our Products



**BRAIDED SHIELDING
SOCKS FOR
CONNECTOR
APPLICATIONS**



**MILITARY CORDSET
BRAIDING**



**HARNESS AND
CABLE
OVERBRAIDING**



MIL-SPEC BRAIDS



**BRAIDED SPECIALTY
TEXTILE PRODUCTS**

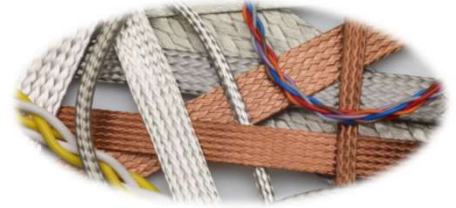




INTERNATIONAL WIRE

Hamilton Products

Product Catalog



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INTERNATIONAL WIRE Hamilton Products



Single End Hard and Soft Bare Conductors

AWG	Approx. mm ²	Nominal Diameter Inches	Nominal Diameter mm	Circular Mil Area	Approximate lbs. / mft	Feet per pound	Break Strength lbs. - Hard ¹	Break Strength lbs. - Soft ¹	Elongation % Min. Soft Wire ²	Nominal Resistance Soft Bare ohm/met @ 20 C	Classification
36	0.013	0.00500	0.127	25.000	0.0757	13214	1.08	.6872	15	415	ASTM B3 or B8
35	0.016	0.00562	0.143	31.584	0.0956	10460	1.36	.8682	15	328	ASTM B3 or B8
34	0.020	0.00631	0.160	39.816	0.1205	8297	1.72	1.0945	15	260	ASTM B3 or B8
33	0.025	0.00708	0.180	50.126	0.1517	6591	2.17	1.3779	15	207	ASTM B3 or B8
32	0.032	0.00795	0.202	63.203	0.1913	5227	2.73	1.7374	15	164	ASTM B3 or B8
31	0.040	0.00893	0.227	79.745	0.2414	4143	3.44	2.1921	15	130	ASTM B3 or B8
30	0.053	0.01025	0.260	105.063	0.3180	3144	4.54	2.8881	15	99	ASTM B3 or B8
29	0.064	0.01126	0.286	126.788	0.3838	2606	5.48	3.4853	20	82	ASTM B3 or B8
28	0.081	0.01264	0.321	159.770	0.4836	2068	6.90	4.3919	20	65	ASTM B3 or B8
27	0.102	0.01420	0.361	201.526	0.6100	1639	8.71	5.5397	20	51	ASTM B3 or B8
26	0.129	0.01594	0.405	254.084	0.7691	1300	10.98	6.9845	20	41	ASTM B3 or B8
25	0.162	0.01790	0.455	320.410	0.9699	1031	13.84	8.8077	20	32	ASTM B3 or B8
24	0.205	0.02010	0.511	404.010	1.2229	818	17.45	11.1058	20	25.7	ASTM B3 or B8
23	0.258	0.02257	0.573	509.405	1.5420	649	22.00	14.0030	25	20	ASTM B3 or B8
22	0.326	0.02535	0.644	642.623	1.9452	514	27.76	17.6650	25	16	ASTM B3 or B8
21	0.410	0.02845	0.723	809.403	2.4501	408	34.96	22.2496	25	13	ASTM B3 or B8
20	0.518	0.03196	0.812	1,021.442	3.0919	323	44.12	28.0783	25	10	ASTM B3 or B8
19	0.653	0.03589	0.912	1,288.092	3.8991	256	55.64	35.4083	25	8	ASTM B3 or B8
18	0.823	0.04030	1.024	1,624.090	4.9161	203	70.16	44.6445	25	6	ASTM B3 or B8
17	1.038	0.04526	1.150	2,048.468	6.2007	161	88.49	56.3101	25	5	ASTM B3 or B8
16	1.309	0.05082	1.291	2,582.672	7.8177	128	111.56	70.9949	25	4.0	ASTM B3 or B8
15	1.650	0.05707	1.450	3,256.985	9.8589	101	140.69	89.5310	25	3	ASTM B3 or B8
14	2.081	0.06408	1.628	4,106.246	12.4296	80	177.38	112.8762	25	3	ASTM B3 or B8
13	2.624	0.07196	1.828	5,178.242	15.6745	64	223.68	142.3442	25	2	ASTM B3 or B8
12	3.309	0.08081	2.053	6,530.256	19.7671	51	282.09	179.5096	25	2	ASTM B3 or B8
11	4.172	0.09074	2.305	8,233.748	24.9236	40	355.67	226.3368	25	1	ASTM B3 or B8
10	5.262	0.10190	2.588	10,383.610	31.4312	32	448.54	285.4341	25	1	ASTM B3 or B8
9	6.632	0.11440	2.906	13,087.360	39.6154	25	565.33	359.7573	30	1	ASTM B3 or B8
8	8.367	0.12850	3.264	16,512.250	49.9826	20	713.28	453.9038	30	0.6	ASTM B3 or B8
7	10.551	0.14430	3.665	20,822.490	63.0297	16	899.47	572.3876	30	0	ASTM B3 or B8
6	13.298	0.16200	4.115	26,244.000	79.4406	13	1133.66	721.4190	30	0	ASTM B3 or B8

Applicable Specifications: ASTM B-1 (HARD), ASTM B-3 (SOFT)

Sizes not listed here can be manufactured to specific customer requirements

The DC resistivity of copper at 20 °C shall not exceed 10.371 ohms* circular mil/foot

*Elongation in 10" gage length





INTERNATIONAL WIRE Hamilton Products

Tin Plated Copper Single End (Solid)

AWG	Nominal Diameter Inches	Nominal Diameter mm	Circular Mil Area	Approximate lbs. / mft	Feet per pound	Break Strength lbs. - Hard ¹	Break Strength lbs. - Soft ¹	Elongation % Min. Soft Wire ²	Nominal Resistance Soft Bare ohm/met @ 20 C	Classification
36	0.00500	0.127	25.0000	0.0757	13.21	1.10	0.69	10	447.10	ASTM B1, B3, B33
35	0.00562	0.143	31.5844	0.0956	10.46	1.40	0.87	10	354.50	ASTM B1, B3, B33
34	0.00631	0.160	39.8161	0.1205	8.30	1.70	1.10	10	281.10	ASTM B1, B3, B33
33	0.00708	0.180	50.1264	0.1517	6.59	2.20	1.40	10	222.90	ASTM B1, B3, B33
32	0.00795	0.202	63.2025	0.1913	5.23	2.70	1.70	10	176.70	ASTM B1, B3, B33
31	0.00893	0.227	79.7449	0.2414	4.14	3.40	2.20	10	140.10	ASTM B1, B3, B33
30	0.01025	0.260	105.0600	0.3180	3.14	4.50	2.90	10	111.10	ASTM B1, B3, B33
29	0.01126	0.286	126.7900	0.3838	2.61	5.50	3.50	15	87.18	ASTM B1, B3, B33
28	0.01264	0.321	159.7700	0.4836	2.07	6.90	4.40	15	69.13	ASTM B1, B3, B33
27	0.01420	0.361	201.5300	0.6100	1.64	8.70	5.50	15	54.82	ASTM B1, B3, B33
26	0.01594	0.405	254.0800	0.7691	1.30	11.00	7.00	15	43.47	ASTM B1, B3, B33
25	0.01790	0.455	320.4100	0.9699	1.03	14.00	8.80	15	34.47	ASTM B1, B3, B33
24	0.02010	0.511	404.0100	1.2230	0.82	17.00	11.00	15	26.76	ASTM B1, B3, B33
23	0.02257	0.573	509.4000	1.5420	0.65	22.00	14.00	20	21.22	ASTM B1, B3, B33
22	0.02535	0.644	642.6200	1.9450	0.51	28.00	18.00	20	16.82	ASTM B1, B3, B33
21	0.02845	0.723	809.4000	2.4500	0.41	35.00	22.00	20	13.34	ASTM B1, B3, B33
20	0.03196	0.812	1021.0000	3.0920	0.32	44.00	28.00	20	10.58	ASTM B1, B3, B33
19	0.03589	0.912	1288.0000	3.8990	0.26	56.00	35.00	20	8.39	ASTM B1, B3, B33
18	0.04030	1.024	1624.0000	4.9200	0.20	70.00	45.00	20	6.65	ASTM B1, B3, B33
17	0.04526	1.150	2048.0000	6.2000	0.16	88.00	56.00	20	5.27	ASTM B1, B3, B33
16	0.05082	1.291	2583.0000	7.8200	0.13	112.00	71.00	20	4.18	ASTM B1, B3, B33
15	0.05707	1.450	3257.0000	9.8600	0.10	141.00	90.00	20	3.32	ASTM B1, B3, B33
14	0.06408	1.628	4106.0000	12.4000	0.08	177.00	113.00	20	2.63	ASTM B1, B3, B33
13	0.07196	1.828	5178.0000	15.7000	0.06	224.00	142.00	20	2.09	ASTM B1, B3, B33
12	0.08081	2.053	6530.0000	19.8000	0.05	282.00	180.00	20	1.65	ASTM B1, B3, B33
11	0.09074	2.305	8234.0000	24.9000	0.04	356.00	226.00	20	1.31	ASTM B1, B3, B33
10	0.10190	2.588	10384.0000	31.4000	0.03	449.00	285.00	20	1.04	ASTM B1, B3, B33
9	0.11440	2.906	13087.0000	39.6000	0.03	565.00	360.00	25	0.82	ASTM B1, B3, B33
8	0.12850	3.264	16512.0000	50.0000	0.02	713.00	454.00	25	0.65	ASTM B1, B3, B33
7	0.14430	3.665	20822.0000	63.0000	0.02	899.00	572.00	25	0.51	ASTM B1, B3, B33
6	0.16200	4.115	26244.0000	79.4000	0.01	1134.00	721.00	25	0.41	ASTM B1, B3, B33

Applicable Specifications: ASTM B-49, ASTM B-1 (HARD), ASTM B-33 (SOFT)
 Sizes not listed here can be manufactured to specific customer requirements
 (1) Break strength based on 55,000 psi for hard wire and 35,000 psi for soft.
 (2) Elongation in 10" gage length.





INTERNATIONAL WIRE

Hamilton Products



Bobbin Winding

Available from 44 AWG to 28 AWG, with end counts from 1 to 22.

AWG	Nominal Diameter (inches)	Approximate lbs. / mft	Classification
44	0.0020	0.0120	ASTM B-49, B-3 (Soft Bare), ASTM B-49, B-33 (Soft Tin)
42	0.0025	0.0190	ASTM B-49, B-3 (Soft Bare), ASTM B-49, B-33 (Soft Tin)
40	0.0032	0.0310	ASTM B-49, B-3 (Soft Bare), ASTM B-49, B-33 (Soft Tin)
38	0.0040	0.0480	ASTM B-49, B-3 (Soft Bare), ASTM B-49, B-33 (Soft Tin)
37	0.0045	0.0610	ASTM B-49, B-3 (Soft Bare), ASTM B-49, B-33 (Soft Tin)
36	0.0050	0.0760	ASTM B-49, B-3 (Soft Bare), ASTM B-49, B-33 (Soft Tin)
35	0.0056	0.0950	ASTM B-49, B-3 (Soft Bare), ASTM B-49, B-33 (Soft Tin)
34	0.0063	0.1200	ASTM B-49, B-3 (Soft Bare), ASTM B-49, B-33 (Soft Tin)
33	0.0071	0.1530	ASTM B-49, B-3 (Soft Bare), ASTM B-49, B-33 (Soft Tin)
32	0.0080	0.1940	ASTM B-49, B-3 (Soft Bare), ASTM B-49, B-33 (Soft Tin)
31	0.0090	0.2450	ASTM B-49, B-3 (Soft Bare), ASTM B-49, B-33 (Soft Tin)
30	0.0100	0.3030	ASTM B-49, B-3 (Soft Bare), ASTM B-49, B-33 (Soft Tin)
28	0.0126	0.4810	ASTM B-49, B-3 (Soft Bare), ASTM B-49, B-33 (Soft Tin)

Applicable Specifications: ASTM B-49, B-3 (Soft Bare), ASTM B-49, B-33 (Soft Tin)

Sizes not listed here can be manufactured to specific customer requirements



Packaging available for 16, 24, 36, 48, 64, 72 & 96 carrier braiders:

Package:

New England Butt (NEB)

Wardwell

Short Hacoba (SHB)

Long Hacoba (LHB)

Dratek

Spirka

Custom size packaging also available.

Treatment / Lubricant:

CS 60

Dissolve 27 (water-soluble)



INTERNATIONAL WIRE Hamilton Products



Tinned Copper Tubular Braids

Part No.	AA59569...	Nominal ID Rounded	Construction	Nom. AWG Equivalent	Nom CMA	Nom Amps*
6110	R32T0062	1/16"	16-1-32	20	1,024.0	9
6112	R32T0109	7/64"	16-2-32	17	2,048.0	18
6114	R32T0125	1/8"	24-2-32	15	3,072.0	25
6116	R32T0171	11/64"	24-3-32	14	4,608.0	32
6118	R32T0203	13/64"	24-5-32	11	7,680.0	46
6120	R32T0375	3/8"	48-3-32	11	9,216.0	46
6122	R32T0500	1/2"	48-4-32	9	12,288.0	62
6124	R32T0781	25/32"	48-7-32	7	21,504.0	88
6132	R34T0062	1/16"	16-2-34	19	1,270.4	11
6134	R34T0109	7/64"	16-4-34	16	2,540.8	19
6136	R34T0125	1/8"	24-3-34	16	2,858.4	19
6137	-	9/64"	24-4-34	15	3,811.2	26
6138	R34T0171	11/64"	24-5-34	14	4,764.0	32
6140	-	3/16"	24-6-34	13	5,716.8	38
6142	-	1/4"	24-7-34	12	6,669.6	41
6144	-	3/8"	24-8-34	11	7,622.4	46
6145	R34T0375	3/8"	48-5-34	10	9,528.0	53
6146	R34T0500	1/2"	48-7-34	9	13,339.2	62
6148	-	5/8"	48-8-34	8	15,244.8	64
6150	-	11/16"	48-10-34	7	19,056.0	81
6152	R34T0781	25/32"	48-11-34	7	20,961.6	85
6153	-	13/16"	48-12-34	7	22,867.2	90
6160	R36T0031	1/32"	24-1-36	22	600.0	7
6162	R36T0062	1/16"	24-2-36	19	1,200.0	11
6163	R36T0078	5/64"	24-3-36	18	1,800.0	16
6164	R36T0109	7/64"	24-4-36	16	2,400.0	19
6166	R36T0125	1/8"	24-5-36	15	3,000.0	25
6167	R36T0156	5/32"	24-10-36	12	6,000.0	40
6168	R36T0171	11/64"	24-7-36	14	4,200.0	32
6170	R34T0203	13/64"	24-8-34	11	7,622.4	46
6170/1	R36T0203	13/64"	24-13-36	11	7,800.0	46
6171	R36T0250	1/4"	24-16-36	10	9,600.0	53
6171/1	R30T0281	9/32"	24-5-30	9	12,000.0	60
6171/2	R30T0375	3/8"	24-7-30	8	16,800.0	75
6172	R36T0375	3/8"	48-8-36	10	9,600.0	53
6173	R30T0437	7/16"	24-10-30	6	24,000.0	90
6173/1	R30T0500	1/2"	24-15-30	5	36,000.0	120
6174	R36T0500	1/2"	48-11-36	9	13,200.0	62
6175	R30T0562	9/16"	48-10-30	3	48,000.0	145
6175/1	R30T0656	21/32"	48-16-30	1	76,800.0	190
6176	R36T0781	25/32"	48-18-36	7	21,600.0	88
6176/1	-	7/8"	48-19-36	7	22,800.0	93
6177	R30T0875	7/8"	48-7-30	5	33,600.0	100
6178	R30T1000	1"	48-8-30	4	38,400.0	120
6179	R30T1125	1 1/8"	48-9-30	4	43,200.0	130
6180	-	1 1/4"	48-10-30	3	48,000.0	145
6181	R30T1375	1 3/8"	48-11-30	3	52,800.0	145
6182	R30T1500	1 1/2"	48-12-30	3	57,600.0	145
6183	R30T2000	2"	48-14-30	2	67,200.0	180
6184	-	2 1/4"	48-16-30	1	76,800.0	190

* For Reference Only
 Applicable Specifications: Tinned Copper (ASTM B33)
 Braided with a specific number of ends of tinned copper wire per ASTM B33





INTERNATIONAL WIRE Hamilton Products



Tinned Copper Flat Braids

Part No.	AA59569...	Nominal Flat Width	Construction	Nom. AWG Equivalent	Nom CMA	Nom Amps*
6221	-	.025"	13363	27	200	4
6222	-	1/32"	16-1-36	24	400	6
6223	F36T0031	3/64"	24-1-36	22	600	7
6224	-	3/32"	16-3-36	19	1,200	11
6225	F36T0062	3/32"	24-2-36	19	1,200	11
6226	-	7/64"	16-4-36	18	1,600	16
6229	F36T0078	1/8"	24-3-36	18	1,800	16
6229/1	F36T0109	5/32"	24-4-36	16	2,400	19
6230	F36T0125	3/16"	24-5-36	15	3,000	25
6231	F36T0171	1/4"	24-7-36	14	4,200	32
6231/1	F36T0156	1/4"	24-10-36	12	6,000	40
6231/2	F36T0203	9/32"	24-13-36	11	7,800	46
6232	-	3/8"	48-6-36	12	7,200	60
6232/1	-	3/8"	24-5-30	9	12,000	40
6233	F36T0375	5/8"	48-8-36	10	9,600	53
6233/1	F36T0500	5/8"	48-11-36	9	13,200	62
6233/2	-	1/2"	48-8-36	10	9,600	53
6234	F36T0781	3/4"	48-18-36	7	21,600	85
6235	-	1"	48-18-36	7	21,600	85
6236	-	13/16"	48-19-36	7	22,800	93
6236/1	-	7/8"	48-22-36	6	26,400	105
6237	-	3/4"	24-67-36	4	40,200	125
6238	-	1 5/8"	48-84-36	1	100,800	230
6240	F30T0437	1/2"	24-10-30	6	24,000	93
6242	F30T0500	5/8"	24-15-30	5	36,000	120
6244	-	3/4"	24-20-30	3	48,000	145
6246	-	7/8"	24-24-30	3	57,600	165
6248	-	15/16"	24-26-30	2	62,400	170
6250	-	15/16"	24-27-30	2	64,800	175
6252	-	1"	24-32-30	1	76,800	195
6260	-	3/4"	48-5-30	6	24,000	93
6262	F30T0875	1 3/8"	48-7-30	5	33,600	100
6264	-	1"	48-8-30	8	38,400	120
6266	-	1 1/4"	48-10-30	10	48,000	145
6268	F30T1375	1 1/2"	48-11-30	3	52,800	145
6270	-	7/8"	48-12-30	2	57,600	150
6272	-	1 3/8"	48-14-30	2	67,200	165
6274	-	1 1/2"	48-16-30	1	76,800	180
6276	-	1 5/8"	48-18-30	1	86,400	200
6278	-	1 3/8"	48-22-30	1/0	105,600	235
6279	-	1 3/4"	48-26-30	2/0	124,800	250
6280	-	2"	48-28-30	2/0	134,400	255
6282	-	2"	48-32-30	3/0	153,600	290
6284	-	2 1/4"	48-35-30	3/0	168,000	320
6286	-	2 3/8"	48-44-30	4/0	211,200	370
6287	-	3"	48-47-30	4/0	225,600	390
6288	-	2 1/2"	48-52-30	250 MCM	249,600	410

* For Reference Only

Applicable Specifications: Tinned Copper (ASTM B33)

Braided with a specific number of ends of tinned copper wire per ASTM-B33, to the construction above, then mill-rolled to the specified width and thickness.





INTERNATIONAL WIRE

Hamilton Products



Tinned Copper Multiple Layered Braids

Part No.	AA59569...	Nominal Flat Width	Construction	Nom. AWG Equivalent	Nom CMA	Nom Amps*
6290	-	1 1/8"	2 x 24-27-30	2/0	129,600	250
6291	-	1 1/4"	2 x 24-32-30	3/0	153,600	290
6292	-	1 1/4"	2 x 24-35-30	3/0	168,000	320
6293	-	1 1/4"	3 x 24-32-30	4/0	230,400	385
6294	-	1 3/8"	4 x 24-32-30	300 MCM	307,200	465
6295	-	1 1/2"	3 x 24-47-30	325 MCM	338,400	-
6296	-	2 1/8"	2 x 48-32-30	300 MCM	307,200	-
6297	-	2 1/4"	3 x 48-35-30	500 MCM	504,000	-

* For Reference Only
Applicable Specifications: Tinned Copper (ASTM B33)
Braided with a specific number of ends of tinned copper wire per ASTM-B33.





INTERNATIONAL WIRE Hamilton Products



Silver Plater Copper Tubular Braids

Part No.	AA59569...	Nominal ID Rounded	Construction	Nom. AWG Equivalent	Nom CMA	Nom Amps*
7110	R32S0062	1/16"	16-1-32	20	1,024	9
7112	R32S0109	7/64"	16-2-32	17	2,048	18
7114	R32S0125	1/8"	24-2-32	15	3,072	25
7116	R32S0171	11/64"	24-3-32	14	4,608	32
7118	R32S0203	13/64"	24-5-32	11	7,680	46
7120	R32S0375	3/8"	48-3-32	11	9,216	46
7122	R32S0500	1/2"	48-4-32	9	12,288	62
7124	R32S0781	25/32"	48-7-32	7	21,504	88
7132	R34S0062	1/16"	16-2-34	19	1,270	11
7134	R34S0109	7/64"	16-4-34	16	2,541	19
7136	R34S0125	1/8"	24-3-34	16	2,858	19
7137	-	9/64"	24-4-34	15	3,811	26
7138	R34S0171	11/64"	24-5-34	14	4,764	32
7140	-	3/16"	24-6-34	13	5,717	38
7142	-	1/4"	24-7-34	12	6,670	41
7144	-	3/8"	24-8-34	11	7,622	46
7145	R34S0375	3/8"	48-5-34	10	9,528	53
7146	R34S0500	1/2"	48-7-34	9	13,339	62
7148	-	5/8"	48-8-34	8	15,245	64
7150	-	11/16"	48-10-34	7	19,056	81
7152	R34S0781	25/32"	48-11-34	7	20,962	85
7153	-	13/16"	48-12-34	7	22,867	90
7160	R36S0031	1/32"	24-1-36	22	600	7
7162	R36S0062	1/16"	24-2-36	19	1,200	11
7163	R36S0078	5/64"	24-3-36	18	1,800	16
7164	R36S0109	7/64"	24-4-36	16	2,400	19
7166	R36S0125	1/8"	24-5-36	15	3,000	25
7167	R36S0156	5/32"	24-10-36	12	6,000	40
7168	R36S0171	11/64"	24-7-36	14	4,200	32
7170	R34S0203	13/64"	24-8-34	11	7,622	46
7170/1	R36S0203	13/64"	24-13-36	11	7,800	46
7171	R36S0250	1/4"	24-16-36	10	9,600	53
7171/1	R30S0281	9/32"	24-5-30	9	12,000	60
7171/2	R30S0375	3/8"	24-7-30	8	16,800	75
7172	R36S0375	3/8"	48-8-36	10	9,600	53
7173	R30S0437	7/16"	24-10-30	6	24,000	90
7173/1	R30S0500	1/2"	24-15-30	5	36,000	120
7174	R36S0500	1/2"	48-11-36	9	13,200	62
7175	R30S0562	9/16"	48-10-30	3	48,000	145
7175/1	R30S0656	21/32"	48-16-30	1	76,800	190
7176	R36S0781	25/32"	48-18-36	7	21,600	88
7176/1	-	7/8"	48-19-36	7	22,800	93
7177	R30S0875	7/8"	48-7-30	5	33,600	100
7178	R30S1000	1"	48-8-30	4	38,400	120
7179	R30S1125	1 1/8"	48-9-30	4	43,200	130
7180	-	1 1/4"	48-10-30	3	48,000	145
7181	R30S1375	1 3/8"	48-11-30	3	52,800	145
7182	R30S1500	1 1/2"	48-12-30	3	57,600	145
7183	R30S2000	2"	48-14-30	2	67,200	180

* For Reference Only
Applicable Specifications: Silver Plated Copper (ASTM B298)





INTERNATIONAL WIRE **Hamilton Products**



Silver Plater Copper Flat Braids

Part No.	AA59569...	Nominal ID Rounded	Construction	Nom. AWG Equivalent	Nom CMA	Nom Amps*
7223	F36S0031	3/64"	24-1-36	22	600	7
7225	F36S0062	3/32"	24-2-36	19	1,200	11
7229	F36S0078	1/8"	24-3-36	18	1,800	16
7229/1	F36S0109	5/32"	24-4-36	16	2,400	19
7230	F36S0125	3/16"	24-5-36	15	3,000	25
7231	F36S0171	1/4"	24-7-36	14	4,200	32
7231/1	F36S0156	1/4"	24-10-36	12	6,000	40
7231/2	F36S0203	9/32"	24-13-36	11	7,800	46
7233	F36S0375	5/8"	48-8-36	10	9,600	53
7233/1	F36S0500	5/8"	48-11-36	9	13,200	62
7234	F36S0781	3/4"	48-18-36	7	21,600	85
7240	F30S0437	1/2"	24-10-30	6	24,000	93
7242	F30S0500	5/8"	24-15-30	5	36,000	120
7262	F30S0875	1 3/8"	48-7-30	5	33,600	100
7268	F30S1375	1 1/2"	48-11-30	3	52,800	145

* For Reference Only
Applicable Specifications: Silver Plated Copper (ASTM B298)





INTERNATIONAL WIRE Hamilton Products



Nickel Plated Copper Tubular Braids

Part No.	AA59569...	Nominal ID Rounded	Construction	Nom. AWG Equivalent	Nom CMA	Nom Amps*
9110	R32N0062	1/16"	16-1-32	20	1,024.0	9
9112	R32N0109	7/64"	16-2-32	17	2,048.0	18
9114	R32N0125	1/8"	24-2-32	15	3,072.0	25
9116	R32N0171	11/64"	24-3-32	14	4,608.0	32
9118	R32N0203	13/64"	24-5-32	11	7,680.0	46
9120	R32N0375	3/8"	48-3-32	11	9,216.0	46
9122	R32N0500	1/2"	48-4-32	9	12,288.0	62
9124	R32N0781	25/32"	48-7-32	7	21,504.0	88
9132	R34N0062	1/16"	16-2-34	19	1,270.4	11
9134	R34N0109	7/64"	16-4-34	16	2,540.8	19
9136	R34N0125	1/8"	24-3-34	16	2,858.4	19
9137	-	9/64"	24-4-34	15	3,811.2	26
9138	R34N0171	11/64"	24-5-34	14	4,764.0	32
9140	-	3/16"	24-6-34	13	5,716.8	38
9142	-	1/4"	24-7-34	12	6,669.6	41
9144	-	3/8"	24-8-34	11	7,622.4	46
9145	R34N0375	3/8"	48-5-34	10	9,528.0	53
9146	R34N0500	1/2"	48-7-34	9	13,339.2	62
9148	-	5/8"	48-8-34	8	15,244.8	64
9150	-	11/16"	48-10-34	7	19,056.0	81
9152	R34N0781	25/32"	48-11-34	7	20,961.6	85
9153	-	13/16"	48-12-34	7	22,867.2	90
9160	R36N0031	1/32"	24-1-36	22	600.0	7
9162	R36N0062	1/16"	24-2-36	19	1,200.0	11
9163	R36N0078	5/64"	24-3-36	18	1,800.0	16
9164	R36N0109	7/64"	24-4-36	16	2,400.0	19
9166	R36N0125	1/8"	24-5-36	15	3,000.0	25
9167	R36N0156	5/32"	24-10-36	12	6,000.0	40
9168	R36N0171	11/64"	24-7-36	14	4,200.0	32
9170	R34N0203	13/64"	24-8-34	11	7,622.4	46
6170/1	R36N0203	13/64"	24-13-36	11	7,800.0	46
9171	R36N0250	1/4"	24-16-36	10	9,600.0	53
9171/1	R30N0281	9/32"	24-5-30	9	12,000.0	60
9171/2	R30N0375	3/8"	24-7-30	8	16,800.0	75
9172	R36N0375	3/8"	48-8-36	10	9,600.0	53
9173	R30N0437	7/16"	24-10-30	6	24,000.0	90
9173/1	R30N0500	1/2"	24-15-30	5	36,000.0	120
9174	R36N0500	1/2"	48-11-36	9	13,200.0	62
9175	R30N0562	9/16"	48-10-30	3	48,000.0	145
9175/1	R30N0656	21/32"	48-16-30	1	76,800.0	190
9176	R36N0781	25/32"	48-18-36	7	21,600.0	88
9176/1	-	7/8"	48-19-36	7	22,800.0	93
9177	R30N0875	7/8"	48-7-30	5	33,600.0	100
9178	R30N1000	1"	48-8-30	4	38,400.0	120
9179	R30N1125	1 1/8"	48-9-30	4	43,200.0	130
9180	-	1 1/4"	48-10-30	3	48,000.0	145
9181	R30N1375	1 3/8"	48-11-30	3	52,800.0	145
9182	R30N1500	1 1/2"	48-12-30	3	57,600.0	145
9183	R30N2000	2"	48-14-30	2	67,200.0	180
9184	-	2 1/4"	48-16-30	1	76,800.0	190

* For Reference Only
Applicable Specifications: Nickel Plated Copper (ASTM B355)





INTERNATIONAL WIRE

Hamilton Products



Nickel Plated Copper Flat Braids

Part No.	AA59569...	Nominal ID Rounded	Construction	Nom. AWG Equivalent	Nom CMA	Nom Amps*
9223	F36N0031	3/64"	24-1-36	22	600	7
9225	F36N0062	3/32"	24-2-36	19	1,200	11
9229	F36N0078	1/8"	24-3-36	18	1,800	16
9229/1	F36N0109	5/32"	24-4-36	16	2,400	19
9230	F36N0125	3/16"	24-5-36	15	3,000	25
9231	F36N0171	1/4"	24-7-36	14	4,200	32
9231/1	F36N0156	1/4"	24-10-36	12	6,000	40
9231/2	F36N0203	9/32"	24-13-36	11	7,800	46
9233	F36N0375	5/8"	48-8-36	10	9,600	53
9233/1	F36N0500	5/8"	48-11-36	9	13,200	62
9234	F36N0781	3/4"	48-18-36	7	21,600	85
9240	F30N0437	1/2"	24-10-30	6	24,000	93
9242	F30N0500	5/8"	24-15-30	5	36,000	120
9262	F30N0875	1 3/8"	48-7-30	5	33,600	100
9268	F30N1375	1 1/2"	48-11-30	3	52,800	145

* For Reference Only
 Applicable Specifications: Nickel Plated Copper (ASTM B355)





INTERNATIONAL WIRE Hamilton Products

Stainless Steel Tubular Braids



Part No.	Nominal ID Rounded	Braid Construction	Nom. Pounds per 1000 ft.	Nom. Indiv. Wire AWG
8302-T304	1/32"	16-3-36	3.9	36
8302-T430	1/32"	16-3-36	3.9	36
8304-T304	1/16"	24-2-36	3.9	36
8304-T430	1/16"	24-2-36	3.9	36
8306-T304	5/64"	24-3-36	5.7	36
8306-T430	5/64"	24-3-36	5.7	36
8308-T304	7/64"	24-4-36	8.2	36
8308-T430	7/64"	24-4-36	8.2	36
8310-T304	1/8"	24-5-36	10	36
8310-T430	1/8"	24-5-36	10	36
8312-T304	5/32"	32-6-34	28	34
8312-T430	5/32"	32-6-34	28	34
8314-T304	11/64"	24-7-36	14.1	36
8314-T430	11/64"	24-7-36	14.1	36
8316-T304	3/16"	24-8-36	16	36
8316-T430	3/16"	24-8-36	16	36
8318-T304	7/32"	24-10-36	20	36
8318-T430	7/32"	24-10-36	20	36
8320-T304	1/4"	24-13-36	25	36
8320-T430	1/4"	24-13-36	25	36
8322-T304	1/4"	32-8-34	36	34
8322-T430	1/4"	32-8-34	36	34
8324-T304	5/16"	32-8-32	55	32
8324-T430	5/16"	32-8-32	55	32
8326-T304	3/8"	48-7-36	28	36
8326-T430	3/8"	48-7-36	28	36
8328-T304	7/16"	48-8-36	34.5	36
8328-T430	7/16"	48-8-36	34.5	36
8330-T304	1/2"	48-9-36	40	36
8330-T430	1/2"	48-9-36	40	36
8332-T304	5/8"	48-11-36	47	36
8332-T430	5/8"	48-11-36	47	36
8334-T304	3/4"	48-15-36	59	36
8334-T430	3/4"	48-15-36	59	36
8336-T304	7/8"	48-18-36	72	36
8336-T430	7/8"	48-18-36	72	36
8338-T304	1.0"	48-7-30	124	30
8338-T430	1.0"	48-7-30	124	30

* For Reference Only





INTERNATIONAL WIRE Hamilton Products

Harness Braiding



Hamilton Products is the industry leader for interconnect cable, harness over braiding and shielding. We have the ability to braid wire and textile in all shapes, sizes and quantities for abrasion, corrosion, and heat resistance.

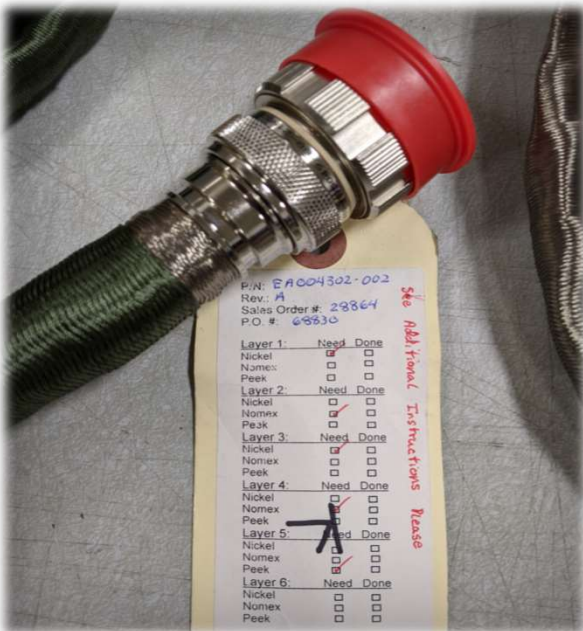
We offer a wide range of materials including:

Wire:

- Bare Copper
- Tin-plated Copper
- Nickel-plated Copper
- Nickel 200
- Silver-plated Copper
- Stainless steel
- Aluminum
- Bronze

Yarn/Textiles/Monofilaments:

- Nomex (black, sage green & colors)
- Peek (black & colors)
- PTFE
- Fiberglass
- Nylon
- PVC Coated Nylon
- Kevlar
- Polyester
- Vinyl
- Inconel
- Monel
- Nextel
- and more...



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INTERNATIONAL WIRE Hamilton Products



Engineering Resources and Services

With decades of experience and technical expertise we know every nook and cranny of Wire and Cable manufacturing — from providing solutions for flight helmets to winding wire on bobbins for customers who maintain their own braiding equipment.



Our vast Engineering resources and Services are available to provide you with the best solution to meet your wire and cable needs including:

- Custom Design - we make braids to customer drawings and specifications not included into standard catalog
- Engineering expertise - we work with customers, engineers and agencies to help develop braid solutions for their specific applications
- Troubleshooting at Customer's site
- Manufacturing expertise



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INTERNATIONAL WIRE Continental Cordage



American Wire Gauge Chart



AWG	Diameter		Area (kcmil)	Resistance		Pounds per 1,000 ft	Feet Per Pound
	(in)	(mm)		(mΩ/m)	(mΩ/ft)		
0000 (4/0)	0.4600	11.684	212.000	0.1608	0.04901	640.0000	1.56
000 (3/0)	0.4096	10.405	168.000	0.2028	0.0618	509.0000	1.96
00 (2/0)	0.3648	9.266	133.000	0.2557	0.07793	403.0000	2.48
0 (1/0)	0.3249	8.251	106.000	0.3224	0.09827	318.0000	3.14
1	0.2893	7.348	83.700	0.4066	0.1239	256.0000	3.91
2	0.2576	6.544	66.400	0.5127	0.1563	200.0000	5.00
3	0.2294	5.827	52.600	0.6465	0.197	159.0000	6.29
4	0.2043	5.189	41.700	0.8152	0.2485	126.0000	7.94
5	0.1819	4.621	33.100	1.028	0.3133	100.0000	10.00
6	0.1620	4.115	26.300	1.296	0.3951	79.4000	12.59
7	0.1443	3.665	20.800	1.634	0.4982	62.8000	15.92
8	0.1285	3.264	16.500	2.061	0.6282	49.6000	20.16
9	0.1144	2.906	13.100	2.599	0.7921	39.3000	25.45
10	0.1019	2.588	10.400	3.277	0.9989	31.5000	31.75
11	0.0907	2.305	8.230	4.132	1.26	24.9000	40.16
12	0.0808	2.053	6.530	5.211	1.588	19.8000	50.51
13	0.0720	1.828	5.180	6.571	2.003	15.7000	63.69
14	0.0641	1.628	4.110	8.286	2.525	12.4000	80.65
15	0.0571	1.45	3.260	10.45	3.184	9.8700	101.32
16	0.0508	1.291	2.580	13.17	4.016	7.8100	128.04
17	0.0453	1.15	2.050	16.61	5.064	6.2100	161.03
18	0.0403	1.024	1.620	20.95	6.385	4.9200	203.25
19	0.0359	0.912	1.290	26.42	8.051	3.9000	256.41
20	0.0320	0.812	1.020	33.31	10.15	2.9500	338.98
21	0.0285	0.723	0.810	42	12.8	2.4600	406.50
22	0.0253	0.644	0.642	52.96	16.14	1.9500	512.82
23	0.0226	0.573	0.509	66.79	20.36	1.5500	645.16
24	0.0201	0.511	0.404	84.22	25.67	1.2200	819.67
25	0.0179	0.455	0.320	106.2	32.37	0.9700	1,030.93
26	0.0159	0.405	0.254	133.9	40.81	0.7650	1,307.19
27	0.0142	0.361	0.202	168.9	51.47	0.6100	1,639.34
28	0.0126	0.321	0.160	212.9	64.9	0.4800	2,083.33
29	0.0113	0.286	0.127	268.5	81.84	0.3860	2,590.67
30	0.0100	0.255	0.101	338.6	103.2	0.3030	3,300.33
31	0.0089	0.227	0.080	426.9	130.1	0.2410	4,149.38
32	0.0080	0.202	0.063	538.3	164.1	0.1910	5,235.60
33	0.0071	0.18	0.050	678.8	206.9	0.1520	6,578.95
34	0.0063	0.16	0.040	856	260.9	0.1200	8,333.33
35	0.0056	0.143	0.032	1079	329	0.0950	10,526.32
36	0.0050	0.127	0.025	1361	414.8	0.0760	13,157.89
37	0.0045	0.113	0.020	1716	523.1	0.0600	16,666.67
38	0.0040	0.101	0.016	2164	659.6	0.0476	21,008.40
39	0.0035	0.0897	0.013	2729	831.8	0.0377	26,525.20
40	0.0031	0.0799	0.010	3441	1049	0.0299	33,444.82



INTERNATIONAL WIRE Hamilton Products



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