Braids, Cables & Strands

Versatility and technical expertise are key components for producing high quality custom braids, cables and strands.

New England Electric Wire Corporation relies on its versatile manufacturing base to produce complex wire constructions, on a timely basis, for a variety of industrial applications.

Rely on us for creative, cost-effective manufacturing solutions for all your specialty wire requirements.

Braids

New England Electric Wire Corporation is well known as a manufacturer of high-quality braided wire products. We produce braids for diverse applications such as ground strap, motor brush leads, circuit breaker shunts, flexible bus bar, RFI/EMI shielding, and shielding for mechanical protection of single or multiconductor cables.

Toll Braiding Overbraiding customer-supplied core with copper, stainless steel, copper alloys, or various textiles.

Flat Wire Braiding For custom low-loss coax, miniature coax, and braid-reinforced tubing (see below).

Braid-reinforced Tubing Thin-wall extrusion and fine-wire braiding for high-quality braid-reinforced tubing such as catheters and working channels.

Scope Braids High-quality stainless steel braids in various tempers for use as reinforcement of imaging products such as flexible endoscopes and boroscopes.

Single-Thickness Braids Non-tubular braid that is half the thickness of a standard flat braid. Used primarily as static drain wires in bags for filter systems, and other applications requiring a flat conductor of minimum thickness.

Braid-reinforced Capillary Tubing Single or multiple copper, copper alloy, or stainless steel reinforcing braids over capillary tubing. Used in fluid or gas-actuated pressure and temperature switches and gauges. Capillary tubing with overall extrusions of plastics such as PVC or polypropylene also available.

Monofilament Braids Plastic monofilament braids used most often to produce low-capacitance, high-end audio cables, and for mechanical protection of multiconductor cables in lieu of an extruded jacket. Cables insulated with monofilament reinforced silicone rubber also available.

Insulated Braid Flat and round braids with extruded insulations for use as ground straps and flat power leads. (Please see back cover for insulation options.)

Cables & Strands

New England Electric Wire Corporation produces a broad range of flexible cables and strands which are used primarily for manufacturing our specialty single- and multiconductor cables. These products are also sold uninsulated for use as motor brush leads, circuit breaker shunts, and flexible bus bar. New England Electric Wire Corporation's own production requirements limit the availability of many of the smaller conductors. Please check with our sales department for information on specific conductors.

Our extensive braiding lines feature braiders with 8, 12 16, 24 and 48 carriers.

Reinforced Cables & Strands

Conductors with increased tensile strength achieved by twisting wires or groups of wires around a non-conductive high-strength fiber member.

Custom Rope-lay Cables and Bunched Strands

Custom rope-lay cable and bunch-stranded conductors manufactured to customer specifications. Detailed product description or a sample of the custom conductor required.

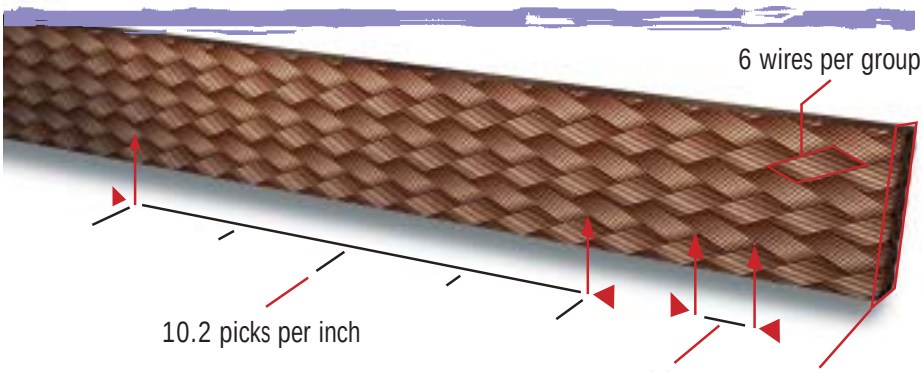
Copper Alloys

High-strength copper alloys enabling increased tensile strength and extended flexlife as compared to conductors made with annealled copper.

Litz Wire

Specialty conductors made up of individually film-insulated strands of copper or copper alloys. Please consult our Litz Wire brochure for more information.

Flat Braid Characteristics



Part Number NE24636B

Most New England Electric Wire Corporation part numbers indicate the construction characteristics of a given braided product. For example, the part number above calls out a 24-6-36 bare copper flat braid run at 10.2 picks per inch. These numbers should be interpreted as follows.

- 24 = The number of groups of bare copper wires braided together (this normally corresponds to the number of bobbin carriers on the braider). A cross section of the braid shows 24 groups of wires.
- 6 = The number of wires per group or per braider bobbin.
- 36 = The AWG size of the individual wires used in the braid.

A pick is the distance from the intersection of two opposing groups of wires to the next corresponding intersection along the length of the braid. The number of picks per inch determines the density of the braid pattern.

Applicable Metric Conversions

1 millimeter = 0.0394 inches	1 mil = 0.001 inch
1 centimeter = 0.394 inches	1 kilometer = 0.62 miles
1 meter = 39.4 inches = 3.28 feet	1 kilogram = 2.2 pounds

Use the following formula to convert the cross sectional area in circular mils to square millimeters:

$$\text{Square millimeters (mm)} = \frac{\pi \, \text{CMA}}{6200}$$

Determine the circular mil area (CMA) by consulting the tables in this brochure or by multiplying the CMA for a single wire (see page 2) in the construction by the total number of wires used in that construction.

Braids, Cables & Strands

Technical Information

New England Electric Wire Corporation

Annealed Bare Copper or Silver-Plated Copper* – Round

AWG Size	Diameter Inches			Cross Sect'l. Area Nominal Wire		Weight Nominal Wire		Resistance at 20°C - 68°F				
								Nom. Wire	Bare Wire – OHMS per M Ft.			
	Min.	Nom.	Max.	Cir. Mil Area	Sq. MM	Lbs./M Ft.	Ft./Lb.	Ft./OHM	Min.	Nom.	Max.	
1	.2864	.2893	.2922	83694.	42.4	253.3	3.948	8072.	.1264	.1239	.1215	1
2	.2550	.2576	.2602	66358.	33.6	200.9	4.978	6399.	.1595	.1563	.1532	2
3	.2271	.2294	.2317	52624.	26.7	159.3	6.277	5074.	.2011	.1971	.1932	3
4	.2023	.2043	.2063	41738.	21.1	126.3	7.918	4023.	.2534	.2485	.2437	4
5	.1801	.1819	.1837	33088.	16.8	100.2	9.980	3191.	.3197	.3134	.3073	5
6	.1604	.1620	.1636	26244.	13.3	79.44	12.59	2531.	.4031	.3952	.3875	6
7	.1429	.1443	.1457	20822.	10.6	63.03	15.87	2008.	.5079	.4981	.4886	7
8	.1272	.1285	.1298	16512.	8.37	49.98	20.01	1592.	.6410	.6281	.6156	8
9	.1133	.1144	.1155	13087.	6.63	39.62	25.24	1262.	.8079	.7925	.7774	9
10	.1009	.1019	.1029	10384.	5.26	31.43	31.82	1001.	1.0187	.9987	.9795	10
11	.0898	.0907	.0916	8226.	4.17	24.90	40.16	793.0	1.286	1.261	1.236	11
12	.0800	.0808	.0816	6529.	3.31	19.76	50.61	629.8	1.620	1.588	1.557	12
13	.0713	.0720	.0727	5184.	2.63	15.69	63.73	499.7	2.040	2.001	1.962	13
14	.0635	.0641	.0647	4109.	2.08	12.44	80.39	396.2	2.572	2.524	2.478	14
15	.0565	.0571	.0577	3260.	1.65	9.87	101.32	314.4	3.249	3.181	3.115	15
16	.0503	.0508	.0513	2581.	1.31	7.812	128.0	248.9	4.099	4.018	3.940	16
17	.0448	.0453	.0458	2052.	1.04	6.213	161.0	197.9	5.167	5.054	4.943	17
18	.0399	.0403	.0407	1624.	0.82	4.914	203.5	156.6	6.514	6.386	6.263	18
19	.0355	.0359	.0363	1289.	0.65	3.900	256.4	124.3	8.231	8.046	7.869	19
20	.0317	.0320	.0323	1024.	0.52	3.099	322.7	98.7	10.319	10.128	9.943	20
21	.0282	.0285	.0288	812.3	0.41	2.459	406.7	78.32	13.05	12.77	12.50	21
22	.0250	.0253	.0256	640.1	0.32	1.937	516.3	61.74	16.59	16.20	15.82	22
23	.0224	.0226	.0228	510.8	0.26	1.546	646.8	49.26	20.66	20.30	19.95	23
24	.0199	.0201	.0203	404.0	0.20	1.223	817.7	38.96	26.19	25.67	25.17	24
25	.0177	.0179	.0181	320.4	0.16	.970	1031.0	30.89	33.13	32.37	31.66	25
26	.0157	.0159	.0161	252.8	0.13	.7650	1307.	24.38	42.07	41.02	40.01	26
27	.0141	.0142	.0143	201.6	0.10	.6101	1639.	19.44	52.17	51.44	50.71	27
28	.0125	.0126	.0127	158.8	0.08	.4806	2081.	15.31	66.37	65.31	64.30	28
29	.0112	.0113	.0114	127.7	0.065	.3866	2587.	12.32	82.68	81.21	79.78	29
30	.0099	.0100	.0101	100.0	0.051	.3025	3306.	9.64	105.82	103.71	101.67	30
31	.0088	.0089	.0090	79.21	0.040	.2398	4170.	7.639	133.9	130.9	128.0	31
32	.0079	.0080	.0081	64.00	0.032	.1937	5163.	6.174	166.2	162.0	158.1	32
33	.0070	.0071	.0072	50.41	0.026	.1526	6553.	4.861	211.7	205.7	200.1	33
34	.0060	.0063	.0064	39.69	0.020	.1201	8326.	3.827	269.8	261.3	253.2	34
35	.0055	.0056	.0057	31.36	0.016	.0949	10537.	3.024	342.8	330.7	319.2	35
36	.0049	.0050	.0051	25.00	0.013	.07569	13212.	2.411	431.9	414.8	398.7	36
37	.0044	.0045	.0046	20.25	0.010	.06128	16319.	.1953	535.7	512.1	490.1	37
38	.0039	.0040	.0041	16.00	0.008	.04844	20644.	1.543	681.9	648.2	617.0	38
39	.0034	.0035	.0036	12.25	0.006	.03708	26969.	1.181	897.1	846.6	800.2	39
40	.0030	.0031	.0032	9.61	0.005	.02910	34364.	.927	1152.3	1079.2	1012.8	40
41	.0027	.0028	.0029	7.84	0.004	.02374	42123.	.7559	1423.	1323.	1233.	41
42	.0024	.0025	.0026	6.25	0.003	.01892	52854.	.6026	1801.	1659.	1534.	42
43	.0021	.0022	.0023	4.84	0.0025	.01465	68259.	.4666	2352.	2143.	1960.	43
44	.0019	.0020	.0021	4.00	0.0020	.01210	82645.	.3857	2873.	2593.	2352.	44
45	.00169	.00176	.00183	3.10	0.0016	.00939	106500.	.2987	3616.	3348.	3080.	45
46	.00151	.00157	.00164	2.47	0.0013	.00744	134400.	.2377	4544.	4207.	3870.	46
47	.00135	.00140	.00146	1.96	0.0001	.00591	169200.	.1890	5714.	5291.	4868.	47
48	.00119	.00124	.00129	1.54	0.0008	.00469	213400.	.1483	7285.	6745.	6205.	48
49	.00107	.00111	.00116	1.23	0.0006	.00371	269700.	.1188	9090.	8417.	7774.	49
50	.00095	.00099	.00103	.980	0.0005	.00294	339700.	.0945	11430.	10580.	9734.	50

* New England Electric Wire Corporation provides this information primarily for reference. Bare and tinned copper wires are generally available in AWG sizes 14 and finer, depending upon stock levels at the time of the request. The resistance values listed above can only be considered approximately correct for Silver-Plated Wire as they will vary slightly in accordance with the percentage of silver plating.

Annealed Tinned Copper – Round

AWG Size	Diameter Inches			Cross Sect'l. Area Nominal Wire		Weight Nominal Wire		Resistance at 20°C - 68°F Nom. Wire		AWG Size
	Min.	Nom.	Max.	Cir. Mil Area	Sq. MM	Lb./M Ft.	Ft./Lb.	Ft./Ohm	Ohm/M Ft.	
2	.2550	.2576	.2653	66358.	33.6	200.9	4.978	6215.	.1609	2
3	.2271	.2294	.2363	52624.	26.7	159.3	6.277	4931.	.2028	3
4	.2023	.2043	.2104	41738.	21.1	126.3	7.918	3911.	.2557	4
5	.1801	.1819	.1874	33088.	16.8	100.2	9.980	3100.	.3226	5
6	.1604	.1620	.1669	26244.	13.3	79.44	12.59	2459.	.4067	6
7	.1429	.1443	.1486	20822.	10.6	63.03	15.87	1951.	.5126	7
8	.1272	.1285	.1324	16512.	8.37	49.98	20.01	1547.	.6464	8
9	.1133	.1144	.1178	13087.	6.63	39.62	25.24	1226.	.8156	9
10	.1009	.1019	.1050	10383.	5.26	31.43	31.82	962.5	1.039	10
11	.0898	.0907	.0934	8226.	4.17	24.90	40.16	762.8	1.311	11
12	.0800	.0808	.0832	6529.	3.31	19.76	50.61	605.3	1.652	12
13	.0713	.0720	.0742	5184.	2.63	15.69	63.73	480.8	2.080	13
14	.0635	.0641	.0660	4109.	2.08	12.44	80.39	381.0	2.625	14
15	.0565	.0571	.0588	3260.	1.65	9.87	101.32	302.2	3.308	15
16	.0503	.0508	.0523	2581.	1.31	7.812	128.0	239.3	4.179	16
17	.0448	.0453	.0466	2052.	1.04	6.213	161.0	190.3	5.256	17
18	.0399	.0403	.0415	1624.	0.82	4.914	203.5	150.6	6.641	18
19	.0355	.0359	.0370	1289.	0.65	3.900	256.4	119.5	8.367	19
20	.0317	.0320	.0329	1024.	0.52	3.099	322.7	94.97	10.53	20
21	.0282	.0285	.0293	812.3	0.41	2.459	406.7	75.30	13.28	21
22	.0250	.0253	.0261	640.1	0.32	1.937	516.3	59.35	16.85	22
23	.0224	.0226	.0233	510.8	0.26	1.546	646.8	47.37	21.11	23
24	.0199	.0201	.0207	404.0	0.20	1.223	817.7	37.45	26.70	24
25	.0177	.0179	.0184	320.4	0.16	.970	1031.0	29.09	34.38	25
26	.0157	.0159	.0164	252.8	0.13	.7650	1307.	22.95	43.57	26
27	.0141	.0142	.0146	201.6	0.10	.6101	1639.	18.30	54.63	27
28	.0125	.0126	.0130	158.8	0.08	.4806	2081.	14.41	69.38	28
29	.0112	.0113	.0116	127.7	0.065	.3866	2587.	11.59	86.26	29
30	.0099	.0100	.0103	100.0	0.051	.3025	3306.	8.985	111.3	30
31	.0088	.0089	.0092	79.21	0.040	.2398	4170.	7.112	140.6	31
32	.0079	.0080	.0083	64.00	0.032	.1937	5163.	5.747	174.0	32
33	.0070	.0071	.0074	50.41	0.026	.1526	6553.	4.529	220.8	33
34	.0062	.0063	.0066	39.69	0.020	.1201	8326.	3.565	280.5	34
35	.0055	.0056	.0059	31.36	0.016	.0949	10537.	2.817	355.0	35
36	.0049	.0050	.0053	25.00	0.013	.07569	13212.	2.246	445.3	36
37	.0044	.0045	.0048	20.25	0.010	.06128	16319.	1.819	549.8	37
38	.0039	.0040	.0043	16.00	0.008	.04844	20644.	1.437	695.8	38
39	.0034	.0035	.0038	12.27	0.006	.03708	26969.	1.100	908.8	39
40	.0030	.0031	.0034	9.61	0.005	.02910	34364.	.863	1158.5	40
41	.0027	.0028	.0031	7.84	0.004	.02374	42123.	.704	1420.0	41
42	.0024	.0025	.0028	6.25	0.003	.01892	52854.	.561	1781.3	42
44	.0019	.0020	.0023	4.00	0.002	.01210	82645.	.359	2783.3	44

Standard Braided Copper Cables

New England Part Number	AWG Size	Cross Sect'l. Area Cir. Mil Area	Cross Sect'l. Area Sq. MM	Wire Size AWG	Number of Wires	Construction	Nominal Width Inches	Nominal Thickness Inches	Pounds per 1000'
Manufactured of Bare Copper or Tinned Copper Wire for: Bonds, Grounds, Leads, Flexible Connectors									
NE4243230T *		307,200	155.7	30	3072	4x(24-32-30)	1-3/8	1/2	1080.
NE3243230T	4/0	230,400	116.7	30	2304	3x(24-32-30)	1-1/4	3/8	795.
NE2243530T	3/0	168,000	85.1	30	1680	2x(24-35-30)	1-1/4	1/4	570.
NE2243230T	3/0	153,600	77.8	30	1536	2x(24-32-30)	1-1/4	1/4	530.
NE2242730T	2/0	129,600	65.7	30	1296	2x(24-27-30)	1-1/8	1/4	445.
NE244430T	1/0	105,600	53.5	30	1056	24-44-30	1-1/4	1/8	355.
NE488436T	1/0	100,800	51.1	36	4032	48-84-36	1-5/8	1/8	354.
NE243230T	1	76,800	38.9	30	768	24-32-30	1	1/8	265.
NE486036T	1	72,000	36.5	36	2880	48-60-36	1-1/4	3/32	250.
NE242730T	2	64,800	32.8	30	648	24-27-30	15/16	1/8	220.
NE242030T	4	48,000	24.3	30	480	24-20-30	3/4	1/8	165.
NE484036T	4	48,000	24.3	36	1920	48-40-36	1	3/32	160.
NE488640T	4	39,670	20.1	40	4128	48-86-40	1	1/8	130.
NE246736T	4	40,200	20.4	36	1608	24-67-36	3/4	3/32	135.
NE241530T	5	36,000	18.2	30	360	24-15-30	5/8	3/32	118.
NE482236T	6	26,400	13.4	36	1056	48-22-36	7/8	1/16	90.4
NE241030T	7	24,000	12.2	30	240	24-10-30	1/2	3/32	80.
NE244036T	7	24,000	12.2	36	960	24-40-36	17/32	3/32	75.
NE481936T	7	22,800	11.6	36	912	48-19-36	13/16	1/16	77.
NE832-36T-1	7	20,800	10.5	36	832	(32-17-36) (16-18-36)	1	1/16	72.
NE481536T	8	18,000	9.12	36	720	48-15-36	5/8	1/16	58.8
NE24730T	8	16,800	8.51	30	168	24-7-30	7/16	1/16	56.
NE481136T	9	13,200	6.69	36	528	48-11-36	5/8	3/64	43.
NE24530T	10	12,000	6.08	30	120	24-5-30	3/8	1/16	40.
NE24430T	10	9,600	4.86	30	96	24-4-30	5/16	1/16	32.
NE241636T	10	9,600	4.86	36	384	24-16-36	3/8	1/16	31.
NE48836T	10	9,600	4.86	36	384	48-8-36	1/2	1/32	32.
NE241336T	11	7,800	3.95	36	312	24-13-36	9/32	3/64	25.
NE48636T	12	7,200	3.65	36	288	48-6-36	3/8	1/32	24.2
NE241036T	12	6,000	3.04	36	240	24-10-36	1/4	3/64	20.
NE24736T	14	4,200	2.13	36	168	24-7-36	7/32	1/32	14.1
NE24536T	15	3,000	1.52	36	120	24-5-36	3/16	1/32	10.
NE24436T	16	2,400	1.22	36	96	24-4-36	5/32	1/32	8.
NE124244TR	17	2,016	1.02	44	504	12-42-44	.065 Round		6.07
NE16536T	17	2,000	1.01	36	80	16-5-36	1/8	1/32	6.7
NE24336T	18	1,800	0.91	38	72	24-3-36	7/64	1/32	5.7
NE16436T	18	1,600	0.81	36	64	16-4-36	3/32	1/32	5.1
NE24236T	19	1,200	0.61	38	48	24-2-36	3/32	1/32	3.86
NE16336T	19	1,200	0.61	36	48	16-3-36	3/32	1/32	3.86
NE12940TR	20	1,038	0.53	40	108	12-9-40	.065 Round		3.34
NE16640T	20	923	0.47	40	96	16-6-40	1/16	1/32	3.08

* The suffix “T” denotes tinned copper braids. If a bare copper braid is desired, replace the “T” with “B”.

Standard Braided Copper Cables

New England Part Number	AWG Size	Cross Sect'l. Area: Cir. Mil Area	Cross Sect'l. Area: Sq. MM	Wire Size AWG	Number of Wires	Construction	Nominal Width Inches	Nominal Thickness Inches	Pounds per 1000'
Manufactured of Bare Copper or Tinned Copper Wire for: Bonds, Grounds, Leads, Flexible Connectors									
NE16236T *	21	800	0.41	36	32	16-2-36	1/18	1/32	2.63
NE16134TR	22	635	0.32	34	16	16-1-34	.037 Round		1.87
NE66-40TR	22	634	0.32	40	66	14-4-40 2-5-40	.036 Round		2.11
NE8336TR	22	600	0.30	36	24	8-3-36	.038 Round		1.94
NE12236T	22	600	0.30	36	24	12-2-36	3/64	1/32	1.94
NE24136T	22	600	0.30	36	24	24-1-36	3/64	1/32	1.94
NE16340TR	23	461	0.23	40	48	16-3-40	.035 Round		1.49
NE16136TR	24	400	0.20	36	16	16-1-36	.029 Round		1.25
NE8134TR	25	318	0.161	34	8	8-1-34	.030 Round		1.00
NE16240TR	25	308	0.156	40	32	16-2-40	.026 Round		1.06
NE12136TR	25	300	0.152	36	12	12-1-36	.028 Round		1.00
NE12240TR	26	231	0.117	40	24	12-2-40	.025 Round		.68
NE8136TR	27	200	0.101	36	8	8-1-36	.026 Round		.62
NE8240TR	28	154	0.078	40	16	8-2-40	.020 Round		.51
NE6136TR	28	150	0.076	36	6	6-1-36	.022 Round		.48
NE12242TR	28	150	0.076	42	24	12-2-42	.023Round		.41
NE6240TR	29	113	0.057	40	12	6-2-40	.018 Round		.36
NE4136TR	30	100	0.051	36	4	4-1-36	.019 Round		.33

(*) The suffix “T” denotes tinned copper braids. If a bare copper braid is desired, replace the “T” with “B”.

Extra Wide Braided Copper Cables

New England Part Number	AWG Size	Cross Sect'l. Area: Cir. Mil Area	Cross Sect'l. Area: Sq. MM	Wire Size AWG	Number of Wires	Construction	Nominal Width Inches	Nominal Thickness Inches	Pounds per 1000'
NE3483530T *		504,000	255.4	30	5040	3x(48-35-30)	2-1/4	1/2	1670.
NE2483230T		307,200	155.7	30	3072	2x(48-32-30)	2-1/8	5/16	1034.
NE485230T		249,600	126.5	30	2496	48-52-30	2-1/2	5/32	784.
NE484430T	4/0	211,200	107.0	30	2112	48-44-30	2-3/8	5/32	663.
NE483530T	3/0	168,000	85.1	30	1680	48-35-30	2-1/4	5/32	541.
NE483230T	3/0	153,600	77.8	30	1536	48-32-30	2	5/32	500.
NE482830T	2/0	134,400	68.1	30	1344	48-28-30	2	1/8	455.
NE482230T	1/0	105,600	53.5	30	1056	48-22-30	1-3/4	1/8	357.
NE481830T	1	86,400	43.8	30	864	48-18-30	1-5/8	1/8	278.
NE481630T	1	76,800	38.7	30	768	48-16-30	1-1/2	1/8	260.
NE481430T	2	67,200	34.1	30	672	48-14-30	1-3/8	1/8	225.
NE481030T	3	48,000	24.3	30	480	48-10-30	1-1/4	1/8	163.
NE48830T	4	38,400	19.5	30	384	48-8-30	1	1/16	132.
NE48730T	5	33,600	17.0	30	336	48-7-30	1-3/8	1/16	117.
NE48530T	6	24,000	12.2	30	240	48-5-30	3/4	1/16	83.

* The suffix “T” denotes tinned copper braids. If a bare copper braid is desired, replace the “T” with “B”.

Extra Flexible (Round) Braided Copper Cable

New England Part Number	AWG Size	Cross Sect'l. Area		Wire Size AWG	Number of Wires	Construction	Nominal Outside Diameter	Pounds per 1000'
		Cir. Mil Area	Sq. MM					
Recommended for motor brush leads, circuit breaker shunts and other inter-connect applications.								
NE18-44BR*	32	72	0.036	44	18	6-2 & 2-3-44	.014	.24
NE33-44BR	29	132	0.067	44	33	7-4 & 1-5-44	.014	.44
NE8240BR	28	154	0.078	40	16	8-2-40	.017	.51
NE51-44BR	27	204	0.103	44	51	5-6 & 3-7-44	.022	.62
NE16240BR	25	308	0.156	40	32	16-2-40	.026	1.06
NE81044BR	25	320	0.162	44	80	8-10-44	.025	1.06
NE16544BR	25	320	0.162	44	80	16-5-44	.025	1.06
NE71544BR	24	420	0.21	44	105	7-15-44	.030	1.40
NE16340BR	23	461	0.23	40	48	16-3-40	.035	1.49
NE8740BR	23	538	0.27	40	56	8-7-40	.040	1.83
NE62544BR	22	600	0.30	44	150	6-25-44	.034	2.00
NE150-44BR	22	600	0.30	44	150	2-37 & 2-38-44	.040	2.03
NE16440BR	22	615	0.31	40	64	16-4-40	.038	2.05
NE66-40BR	22	634	0.32	40	66	14-4 & 2-5-40	.036	2.11
NE71340BR	20	875	0.44	40	91	7-13-40	.045	2.94
NE71540BR	20	1009	0.51	40	105	7-15-40	.050	3.39
NE105-40BR	20	1009	0.51	40	105	16-3-40 over core 57/40	.045	3.04
NE106-40BR	20	1019	0.52	40	106	2-26 & 2-27-40	.044	3.39
NE41-36BR	20	1025	0.52	36	41	16-2-36 over core 9/36	.048	3.48
NE114-40BR	20	1098	0.56	40	114	16-3-40 over core 66/40	.050	3.65
NE74044BR	20	1120	0.57	44	280	7-40-44	.051	3.53
NE83544BR	20	1120	0.57	44	280	8-35-44	.050	3.53
NE84044BR	19	1280	0.65	44	320	8-40-44	.055	4.14
NE162044BR	19	1280	0.65	44	320	16-20-44	.055	4.14
NE140-40BR	19	1345	0.68	40	140	16-5-40 over core 60/40	.048	4.56

* The suffix “B” denotes bare copper braids. If a tinned copper braid is desired, replace the “B” with “T”.

Extra Flexible (Round) Braided Copper Cable

New England Part Number	AWG Size	Cross Sect'l. Area		Wire Size AWG	Number of Wires	Construction	Nominal Outside Diameter	Pounds per 1000'
		Cir. Mil Area	Sq. MM					
NE72340BR	18	1547	0.78	40	161	7-23-40	.053	5.15
NE424-44BR	18	1696	0.86	44	424	16-23-44 over core 56/44	.060	5.75
NE189-40BR	18	1816	0.92	40	189	24-4-40 over core 93/40	.055	6.32
NE161340BR	17	1999	1..01	40	208	16-13-40	.073	6.10
NE124244BR	17	2016	1.02	44	504	12-42-44	.068	6.76
NE242144BR	17	2016	1.02	44	504	24-21-44	.075	6.83
NE504-44BR	17	2016	1.02	44	504	16-28-44 over core 56/44	.075	6.83
NE73340BR	17	2220	1.12	40	231	7-33-40	.075	7.40
NE83640BR	16	2768	1.40	40	288	8-36-40	.083	9.22
NE328-40BR	15	3152	1.60	40	326	16-10-40 over core 7x24/40	.084	10.30
NE805-44BR NE126844BR	15	3220	1.63	44	805	16-47-44 over core 53/44	.082	10.91
NE372-40BR	15	3264	1.65	44	816	12-68-44	.083	10.86
	15	3575	1.81	40	372	4-46 & 4-47-40	.084	12.45
NE376-40BR	15	3613	1.83	40	376	16-13-40 over core 7x24/40	.084	11.80
NE438-40BR	14	4209	2.13	40	438	24-12-40 over core 3x50/40	.108	13.64
NE242240BR	13	5074	2.57	40	528	24-22-40	.095	17.20
NE600-40BR	13	5766	2.92	40	600	16-34-40 over core 56/40	.106	20.07
NE2122740BR	12	6227	3.16	40	648	2(12-27-40)	.125	22.60
NE681-40BR	12	6544	3.32	40	681	24-10-40 over core 7x63/40	.113	21.50

* The suffix “B” denotes bare copper braids. If a tinned copper braid is desired, replace the “B” with “T”.

Tinned Copper Wire Shielding Braids (Tubular)

New England Part Number	A-A-59569 Part Number	Nominal Inside Diameter	Wire Size AWG	Number of Wires	Braid Size AWG	Circular Mil Area	Feet Per Pound	Pounds per 1000'
**Commercial Item Description (CID) A-A-59569								
NEQ24136T	AA59569R36T0031	.031"	36	24	22	600	500.	2.0
NEQ24236T	AA59569R36T0062	.062"	36	48	19	1,200	250.	4.0
NEQ16234T	AA59569R34T0062	.062"	34	32	19	1,351	233.	4.3
NEQ16132T	AA59569R32T0062	.062"	32	16	20	1,011	303.	3.3
NEQ24336T	AA59569R36T0078	.078"	36	72	18	1,800	167.	6.0
NEQ24436T	AA59569R36T0109	.109"	36	96	16	2,400	122.	8.2
NEQ16434T	AA59569R34T0109	.109"	34	64	16	2,544	114.	8.8
NEQ16232T	AA59569R32T0109	.109"	32	32	17	2,023	152.	6.6
NEQ24536T	AA59569R36T0125	.125"	36	120	15	3,000	97.	10.3
NEQ24334T	AA59569R34T0125	.125"	34	72	16	2,862	109.	9.2
NEQ24232T	AA59569R32T0125	.125"	32	48	15	3,034	99.	10.1
NEQ241036T	AA59569R36T0156	.156"	36	240	12	6,000	47.8	20.9
NEQ24736T	AA59569R36T0171	.171"	36	168	14	4,200	69.9	14.3
NEQ24534T	AA59569R34T0171	.171"	34	120	13	4,770	64.1	15.6
NEQ24332T	AA59569R32T0171	.171"	32	72	14	4,551	68.0	14.7
NEQ241336T	AA59569R36T0203	.203"	36	312	11	7,800	35.7	28.0
NEQ24834T	AA59569R34T0203	.203"	34	192	11	7,632	35.8	27.9
NEQ24532T	AA59569R32T0203	.203"	32	120	11	7,585	40.7	24.6
NEQ241636T	AA59569R36T0250	.250"	36	384	10	9,600	29.0	34.5
NEQ24530T	AA59569R30T0281	.281"	30	120	9	12,000	23.8	42.0
NEQ48836T	AA59569R36T0375	.375"	36	384	10	9,600	29.0	34.5
NEQ48534T	AA59569R34T0375	.375"	34	240	10	9,540	30.6	32.7
NEQ48332T	AA59569R32T0375	.375"	32	144	11	9,102	30.9	32.4
NEQ24730T	AA59569R30T0375	.375"	30	168	8	16,800	17.5	57.0
NEQ241030T	AA59569R30T0437	.437"	30	240	6	24,000	12.4	80.6
NEQ481136T	AA59569R36T0500	.500"	36	528	9	13,200	21.0	47.7
NEQ48734T	AA59569R34T0500	.500"	34	336	9	13,356	21.0	47.7
NEQ241530T	AA59569R30T0500	.500"	30	360	6	36,000	8.5	117.0
NEQ481030T	AA59569R30T0562	.562"	30	480	3	48,000	6.6	151.0
NEQ481630T	AA59569R30T0656	.656"	30	768	1	76,800	3.9	255.0
NEQ481836T	AA59569R36T0781	.781"	36	864	7	21,600	13.6	73.5
NEQ481134T	AA59569R34T0781	.781"	34	528	7	20,956	13.8	72.5
NEQ48732T	AA59569R32T0781	.781"	32	336	7	21,239	13.8	72.7
NEQL48730T	AA59569R30T0875	.875"	30	336	5	33,600	8.5	118.0
NEQL48830T	AA59569R30T1000	1.000"	30	384	4	38,400	7.4	135.0
NEQL48930T	AA59569R30T1125	1.125"	30	432	4	43,200	6.7	150.0
NEQL481030T*		1.250"	30	480	3	48,000	6.1	165.0
NEQL481130T	AA59569R30T1375	1.375"	30	528	3	52,800	5.6	180.0
NEQL481230T*		1.500"	30	576	3	57,600	5.1	195.0
NEQL481430T*		2.000"	30	672	2	67,200	4.4	225.0
NEQL481630T*		2.250"	30	768	1	76,800	3.9	255.0

* Manufactured to Commercial Item Description A-A-59569 standards although these extra large sizes are not listed in the specifications.

** Federal Specification QQ-B-575C, dated 22 September 1993, was cancelled on 20 November 2000 and replaced by Commercial Item Description (CID) A-A-59569

Silver-Plated Copper Wire Shielding Braids (Tubular)

New England Part Number	A-A-59569 Part Number	Nominal Inside Diameter	Wire Size AWG	Number of Wires	Braid Size AWG	Circular Mil Area	Feet Per Pound	Pounds per 1000'
**Commercial Item Description (CID) A-A-59569								
NEQ24136SP	AA59569R36S0031	.031"	36	24	22	600	500.	2.0
NEQ24236SP	AA59569R36S0062	.062"	36	48	19	1,200	250.	4.0
NEQ16234SP	AA59569R34S0062	.062"	34	32	19	1,351	233.	4.3
NEQ16132SP	AA59569R32S0062	.062"	32	16	20	1,011	303.	3.3
NEQ24336SP	AA59569R36S0078	.078"	36	72	18	1,800	167.	6.0
NEQ24436SP	AA59569R36S0109	.109"	36	96	16	2,400	122.	8.2
NEQ16434SP	AA59569R34S0109	.109"	34	64	16	2,544	114.	8.8
NEQ16232SP	AA59569R32S0109	.109"	32	32	17	2,023	152.	6.6
NEQ24536SP	AA59569R36S0125	.125"	36	120	15	3,000	97.	10.3
NEQ24334SP	AA59569R34S0125	.125"	34	72	16	2,862	109.	9.2
NEQ24232SP	AA59569R32S0125	.125"	32	48	15	3,034	99.	10.1
NEQ241036SP	AA59569R36S0156	.156"	36	240	12	6,000	47.8	20.9
NEQ24736SP	AA59569R36S0171	.171"	36	168	14	4,200	69.9	14.3
NEQ24534SP	AA59569R34S0171	.171"	34	120	13	4,770	64.1	15.6
NEQ24332SP	AA59569R32S0171	.171"	32	72	14	4,551	68.0	14.7
NEQ241336SP	AA59569R36S0203	.203"	36	312	11	7,800	35.7	28.0
NEQ24834SP	AA59569R34S0203	.203"	34	192	11	7,632	35.8	27.9
NEQ24532SP	AA59569R32S0203	.203"	32	120	11	7,585	40.7	24.6
NEQ241636SP	AA59569R36S0250	.250"	36	384	10	9,600	29.0	34.5
NEQ24530SP	AA59569R30S0281	.281"	30	120	9	12,000	23.8	42.0
NEQ48836SP	AA59569R36S0375	.375"	36	384	10	9,600	29.0	34.5
NEQ48534SP	AA59569R34S0375	.375"	34	240	10	9,540	30.6	32.7
NEQ48332SP	AA59569R32S0375	.375"	32	144	11	9,102	30.9	32.4
NEQ24730SP	AA59569R30S0375	.375"	30	168	8	16,800	17.5	57.0
NEQ241030SP	AA59569R30S0437	.437"	30	240	6	24,000	12.4	80.6
NEQ481136SP	AA59569R36S0500	.500"	36	528	9	13,200	21.0	47.7
NEQ48734SP	AA59569R34S0500	.500"	34	336	9	13,356	21.0	47.7
NEQ241530SP	AA59569R30S0500	.500"	30	360	6	36,000	8.5	117.0
NEQ481030SP	AA59569R30S0562	.562"	30	480	3	48,000	6.6	151.0
NEQ481630SP	AA59569R30S0656	.656"	30	768	1	76,800	3.9	255.0
NEQ481836SP	AA59569R36S0781	.781"	36	864	7	21,600	13.6	73.5
NEQ481134SP	AA59569R34S0781	.781"	34	528	7	20,956	13.8	72.5
NEQ48732SP	AA59569R32S0781	.781"	32	336	7	21,239	13.8	72.7
NEQL48730SP	AA59569R30S0875	.875"	30	336	5	33,600	8.5	118.0
NEQL48830SP	AA59569R30S1000	1.000"	30	384	4	38,400	7.4	135.0
NEQL48930SP	AA59569R30S1125	1.125"	30	432	4	43,200	6.7	150.0
NEQL481030SP*		1.250"	30	480	3	48,000	6.1	165.0
NEQL481130SP	AA59569R30S1375	1.375"	30	528	3	52,800	5.6	180.0
NEQL481230SP		1.500"	30	576	3	57,600	5.1	195.0
NEQL481430SP		2.000"	30	672	2	67,200	4.4	225.0
NEQL481630SP*		2.250"	30	768	1	76,800	3.9	255.0

* Manufactured to Commercial Item Description A-A-59569 standards although these extra large sizes are not listed in the specifications.

** Federal Specification QQ-B-575C, dated 22 September 1993, was cancelled on 20 November 2000 and replaced by Commercial Item Description (CID) A-A-59569

Tinned Copper Wire Braids (Flat)

New England Part Number	A-A-59569 Part Number	Width X Thickness (inches)	Wire Size AWG	Number of Wires	Braid Size AWG	Circular Mil Area	Feet Per Pound	Pounds per 1000'
**Commercial Item Description (CID) A-A-59569								
NEQF24136T *	AA59569F36T0031	.046 x .020	36	24	22	600	500.	2.0
NEQF24236T	AA59569F36T0062	.093 x .031	36	48	19	1,200	250.	4.0
NEQF24336T	AA59569F36T0078	.125 x .020	36	72	18	1,800	167.	6.0
NEQF24436T	AA59569F36T0109	.156 x .031	36	96	16	1,400	122.	8.2
NEQF24536T	AA59569F36T0125	.187 x .020	36	120	15	3,000	97.	10.3
NEQF241036T	AA59569F36T0156	.250 x .046	36	240	12	6,000	47.8	20.9
NEQF24736T	AA59569F36T0171	.250 x .030	36	168	14	4,200	69.9	14.3
NEQF241336T	AA59569F36T0203	.281 x .046	36	312	11	7,800	35.7	28.0
NEQF48836T	AA59569F36T0375	.625 x .030	36	384	10	9,600	29.0	34.5
NEQF241030T	AA59569F30T0437	.500 x .093	30	240	6	24,000	12.4	80.6
NEQF481136T	AA59569F36T0500	.625 x .046	36	528	9	13,200	21.0	47.7
NEQF241530T	AA59569F30T0500	.625 x .093	30	360	6	36,000	8.5	117.0
NEQF481836T	AA59569F36T0781	.750 x .040	36	864	7	21,600	13.6	73.5
NEQF48730T	AA59569F30T0875	1.375 x .050	30	336	5	33,600	8.5	118.0
NEQF481130T	AA59569F30T1375	1.500 x .060	30	528	3	52,800	5.6	180.0

* The suffix "T" denotes tinned copper braids. If a silver-plated copper braid is desired, replace the "T" with "SP".

** Federal Specification QQ-B-575C, dated 22 September 1993, was cancelled on 20 November 2000 and replaced by Commercial Item Description (CID) A-A-59569

Nickel-Plated Copper Wire Shielding Braids (Tubular)

New England Part Number	Nominal Inside Diameter	Wire Size AWG	Number of Wires	Construction	Braid Size AWG	Circular Mil Area	Feet Per Pound	Pounds per 1000'
Individual wires have 50 microinches Nickel Plating over copper. Recommended for high temperature applications up to 400° C or if special corrosion resistance is required.								
NEQ24236NP	1/16"	36	48	24-2-36	19	1,200	250.0	4.0
NEQ24436NP	7/64"	36	96	24-4-36	16	2,400	122.0	9.2
NEQ24536NP	1/8"	36	120	24-5-36	15	3,000	97.0	10.3
NEQ24836NP	3/16"	36	192	24-8-36	13	4,800	61.3	16.3
NEQ24834NP	1/4"	34	192	24-8-34	11	7,632	35.8	27.9
NEQ48636NP	5/16"	36	288	48-6-36	12	7,200	41.3	24.2
NEQ48836NP	3/8"	36	384	48-8-36	10	9,600	29.0	34.5
NEQ48634NP	7/16"	34	288	48-6-34	10	11,434	25.4	39.3
NEQ481136NP	1/2"	36	528	48-11-36	9	13,200	21.0	47.7
NEQ481536NP	5/8"	36	720	48-15-36	8	18,000	16.8	59.4
NEQ481836NP	3/4"	36	864	48-18-36	7	21,600	13.6	73.5
NEQ481032NP	7/8"	32	480	48-10-32	5	30,720	10.0	100.0
NEQ48830NP	1"	30	384	48-8-30	4	38,400	7.4	135.0
NEQ481130NP	1-3/8"	30	528	48-11-30	3	52,800	5.6	180.0
NEQ481230NP	1-1/2"	30	576	48-12-30	3	57,600	5.1	195.0
NEQ481430NP	1-7/8"	30	672	48-14-30	2	67,200	4.4	226.0
NEQ481630NP	2-1/4"	30	768	48-16-30	1	76,800	3.9	255.0

Tinned Commercial Oval Shielding Braids

New England Part Number	AWG Size	Circular Mil Area	Wire Size AWG	Number of Wires	Construction	Nominal (I.D.) Oval	Nominal Flat Width	Approximate Ft./Lb.	Approximate Pounds per 1000'
NES16134T	22	635	34	16	16-1-34	1/64"	1/32"	535	1.87
NES24134T	20	952	34	24	24-1-34	1/32"	1/16"	313	3.20
NES16234T	19	1,270	34	32	16-2-34	1/16"	3/32"	233	4.30
NES16434T	16	2,540	34	64	16-4-34	7/64"	1/8"	114	8.80
NES24334T	16	2,858	34	72	24-3-34	1/8"	5/32"	109	9.20
NES24434T	14	3,800	34	96	24-4-34	6/32"	7/32"	79	12.70
NES24534T	13	4,700	34	120	24-5-34	11/64"	1/4"	63	16.00
NES24634T	13	5,715	34	144	24-6-34	3/16"	1/4"	64	18.60
NES24734T	12	6,700	34	168	24-7-34	1/4"	5/16"	43	23.30
NES24834T	12	7,600	34	192	24-8-34	5/16"	3/8"	37	26.80
NES48734T	9	13,300	34	336	48-7-34	1/2"	11/16"	22	45.60
NES48834T	8	15,240	34	384	48-8-34	5/8"	3/4"	19	52.00
NES481034T	7	19,051	34	480	48-10-34	11/16"	7/8"	15	66.50
NES481134T	7	20,956	34	528	48-11-34	25/32"	15/16"	14	72.50
NES481234T	7	22,900	34	576	48-12-34	7/8"	1"	12	79.50
NES48830T	4	38,400	30	384	48-8-30	1"	1-1/4"	7	135.00
NES48930T	4	43,200	30	432	48-9-30	1-1/8"	1-5/16"	6	150.00
NES481030T	3	48,000	30	480	48-10-30	1-1/4"	1-7/16"	6	165.00
NES481130T	3	52,800	30	528	48-11-30	1-3/8"	1-1/2"	5	180.00
NES481230T	3	57,600	30	576	48-12-30	1-1/2"	1-5/8"	5	195.00
NES481430T	2	67,200	30	672	48-14-30	1-7/8"	1-7/8"	4	226.00
NES481630T	1	76,800	30	768	48-16-30	2-1/4"	2-1/4"	4	266.00

Stainless Steel Shielding Braids (Tubular)

New England Part Number	Nominal Inside Diameter	Wire Size AWG	Number of Wires	Construction	Braid Size AWG	Circular Mil Area	Feet Per Pound	Pounds per 1000'
Individual wires conform to MIL-W-423, Composition 304* (Annealed). Recommended for high temperature service up to 650° C, where mechanical strength and shield protection are important considerations.								
NES16336SS	1/32"	36	48	16-3-36	19	1,200	285.7	3.5
NES24236SS	1/16"	36	48	24-2-36	19	1,200	285.7	3.5
NES24336SS	5/64"	36	72	24-3-36	18	1,800	185.0	5.4
NES24436SS	7/64"	36	96	24-4-36	16	2,400	137.0	7.3
NES24536SS	1/8"	36	120	24-5-36	15	3,000	111.0	9.0
NES24736SS	11/64"	36	168	24-7-36	14	4,200	79.4	12.6
NES24836SS	3/16"	36	192	24-8-36	13	4,800	69.4	14.4
NES241036SS	7/32"	36	240	24-10-36	12	6,000	54.6	18.3
NES241336SS	1/4"	36	312	24-13-36	11	7,800	38.5	26.0
NES48736SS	3/8"	36	336	48-7-36	11	8,400	36.8	27.2
NES48836SS	7/16"	36	384	48-8-36	10	9,600	31.3	32.0
NES48936SS	1/2"	36	432	48-9-36	10	10,800	29.6	33.8
NES481136SS	5/8"	36	528	48-11-36	9	13,200	24.1	41.5
NES481536SS	3/4"	36	720	48-15-36	8	18,000	17.3	57.8
NES481836SS	7/8"	36	864	48-18-36	7	21,600	14.4	69.5
NES48730SS	1"	30	336	48-7-30	5	33,600	9.7	103.0
NES48830SS	1-1/4"	30	384	48-8-30	4	35,400	8.6	118.0
NES481030SS	1-1/2"	30	480	48-10-30	3	48,000	6.9	144.0

* Above items are also available in composition 316 on special order basis. Items listed are our more popular constructions. Other constructions are available on a special order basis.

Extra Flexible Rope-Lay Stranded Copper Cables

Recommended for motor brush leads, circuit breaker shunts and other inter-connect applications.

New England Part Number	AWG Size	Cross Sect'l. Area		Number of Wires	Construction	Nominal Outside Diameter	Pounds per 1000'
		Cir. Mil Area	Sq. MM				
NER1976436B	4/0	212,800	107.8	8512	19x7x64/36	.613	702.
NER1974034B	4/0	211,151	107.0	5320	19x7x40/34	.610	697.
NER774330B	4/0	210,700	106.8	2107	7x7x43/30	.636	689.
NER1975136B	3/0	169,575	85.9	6783	19x7x51/36	.547	560.
NER1973234B	3/0	168,921	85.6	4256	19x7x32/34	.546	557.
NER773430B	3/0	166,600	84.4	1666	7x7x34/30	.566	545.
NER772730B	2/0	132,300	67.0	1323	7x7x27/30	.504	433.
NER7710836B	2/0	132,300	67.0	5292	7x7x108/36	.504	433.
NER776834B	2/0	132,247	67.0	3332	7x7x68/34	.504	432.
NER772230B	1/0	107,800	54.6	1078	7x7x22/30	.455	352.
NER778636B	1/0	105,350	53.4	4214	7x7x86/36	.450	344.
NER775434B	1/0	105,020	53.2	2646	7x7x54/34	.449	343.
NER774334B	1	83,627	42.4	2107	7x7x43/34	.401	273.
NER776836N	1	83,300	42.2	3332	7x7x68/36	.400	272.
NER194430B	1	83,600	42.4	836	19x44/30	.367	266.
NER775436B	2	66,150	33.5	2646	7x7x54/36	.356	216.
NER773434B	2	66,124	33.5	1666	7x7x34/34	.356	216.
NER79530B	2	66,500	33.7	665	7x95/30	.328	209.
NER774336B	3	52,675	26.7	2107	7x7x43/36	.318	172.
NER773734B	3	52,510	26.6	1323	7x7x27/34	.318	172.
NER77530B	3	52,500	26.6	525	7x75/30	.291	165.
NER772234B	4	42,786	21.7	1078	7x7x22/34	.287	140.
NER773436B	4	41,650	21.1	1666	7x7x34/36	.283	136.
NER75930B	4	41,300	20.9	413	7x59/30	.258	130.
NER772736B	5	33,075	16.8	1323	7x7x27/36	.252	108.
NER711934B	5	33,062	16.8	833	7x119/34	.231	104.
NER74730B	5	32,900	16.8	329	7x47/30	.230	104.
NER79534B	6	26,394	13.4	665	7x95/34	.206	83.1
NER715036B	6	26,250	13.3	1050	7x150/36	.206	82.6
NER73730B	6	25,900	13.1	259	7x37/30	.204	81.5
NER73030B	7	21,000	10.6	210	7x30/30	.184	66.1
NER77534B	7	20,837	10.6	525	7x75/34	.183	65.6
NER711936B	7	20,825	10.6	833	7x119/36	.183	65.6
NER774440B	7	20,719	10.5	2156	7x7x44/40	.200	67.7
NER72430B	8	16,800	8.5	168	7x24/30	.165	52.9
NER79536B	8	16,625	8.4	665	7x95/36	.164	52.3
NER773540B	8	16,481	8.4	1715	7x7x35/40	.178	53.9
NER75934B	8	16,392	8.3	413	7x59/34	.163	51.6

Extra Flexible Rope-Lay Stranded Copper Cables

New England Part Number	AWG Size	Cross Sect'l. Area		Number of Wires	Construction	Nominal Outside Diameter	Pounds per 1000'
		Cir. Mil Area	Sq. MM				
NER71930B	9	13,300	6.7	133	7x19/30	.147	41.9
NER736540B	9	13,118	6.6	1365	7x3x65/40	.152	41.7
NER77536B	9	13,125	6.7	525	7x75/36	.146	41.3
NER74734B	9	13,058	6.6	329	7x47/34	.145	41.1
NER735240B	10	10,494	5.3	1092	7x3x52/40	.136	33.4
NER71530B	10	10,500	5.3	105	7x15/30	.130	33.1
NER75936B	10	10,325	5.2	413	7x59/36	.129	32.5
NER73734B	10	10,280	5.2	259	7x37/34	.129	32.4
NER774244B	11	8,232	4.2	2058	7x7x42/44	.126	26.9
NER734140B	11	8,274	4.2	861	7x3x41/40	.121	26.3
NER73034B	11	8,355	4.2	210	7x30/34	.116	26.2
NER74736B	11	8,225	4.2	329	7x47/36	.115	25.9
NER773444B	12	6,664	3.4	1666	7x7x34/44	.113	21.8
NER72434B	12	6,668	3.4	168	7x24/34	.104	21.0
NER73736B	12	6,475	3.3	259	7x37/36	.102	20.4
NER79640B	12	6458	3.3	672	7x96/40	.102	20.3
NER772744B	13	5,292	2.7	1323	7x7x27/44	.101	17.3
NER732640B	13	5,247	2.7	546	7x3x26/40	.096	16.7
NER71934B	13	5,279	2.7	133	7x19/34	.092	16.6
NER73036B	13	5,250	2.7	210	7x30/36	.092	16.5
NER732140B	14	4,238	2.1	441	7x3x21/40	.086	13.5
NER735044B	14	4,200	2.1	1050	7x3x50/44	.086	13.4
NER72436B	14	4,200	2.1	168	7x24/36	.082	13.2
NER71534B	14	4,167	2.1	105	7x15/34	.082	13.1
NER75040B	15	3,364	1.7	350	7x50/40	.074	10.8
NER71936B	15	3,325	1.7	133	7x19/36	.073	10.6
NER711544B	15	3,220	1.6	805	7x115/44	.072	10.1
NER74040B	16	2,691	1.4	280	7x40/40	.066	8.47
NER79544B	16	2,660	1.3	665	7x95/44	.066	8.37
NER71536B	16	2,625	1.3	105	7x15/36	.065	8.26
NER71236B	17	2,100	1.1	84	7x12/36	.058	6.61
NER73140B	17	2,085	1.1	217	7x31/40	.058	6.57
NER77344B	17	2,044	1.0	511	7x73/44	.057	6.44
NER75944B	18	1,652	0.8	413	7x59/44	.053	5.20
NER72440B	18	1,614	0.8	168	7x24/40	.051	5.08
NER7936B	18	1,575	0.8	63	7x9/36	.050	4.96
NER72140B	19	1,413	0.7	147	7x21/40	.048	4.45
NER75044B	19	1,400	0.7	350	7x50/44	.048	4.41
NER73744B	20	1,036	0.5	259	7x37/44	.041	3.26
NER71540B	20	1,009	0.5	105	7x15/40	.040	3.18
NER72244B	22	672	.34	168	7x24/44	.033	2.12
NER32240B	22	634	.32	66	3x22/40	.032	2.00
NER35044B	23	600	.30	150	3x50/44	.031	1.89
NER33544B	24	420	.21	105	3x35/44	.026	1.32
NER71544B	24	420	.21	105	7x15/44	.026	1.32
NER32244B	26	264	.13	66	3x22/44	.021	.831
NER33546B	26	259	.13	105	3x35/46	.021	.815

19 Strand Concentric Copper Cables

New England Part Number	AWG Size	Cross Sect'l. Area		Number of Wires	Construction	Nominal Outside Diameter	Pounds per 1000'
		Cir. Mil Area	Sq. MM				
Recommended for motor brush leads, circuit breaker shunts and other inter-connect applications.							
NEC1929	16	2426.	1.229	19	29	.0565	7.50
NEC1930	18	1900.	.963	19	30	.0500	5.86
NEC1932	20	1216.	.616	19	32	.0400	3.75
NEC1934	22	754.	.382	19	34	.0315	2.32
NEC1936	24	475.	.241	19	36	.0250	1.47
NEC1938	26	304.	.154	19	38	.0200	.939
NEC1940	28	183.	.093	19	40	.0155	.564
NEC1942	30	119.	.060	19	42	.0125	.367
NEC1944	32	76.0	.039	19	44	.0100	.234
NEC1946	34	47.0	.024	19	46	.0080	.146

7 Strand Concentric Copper Cables

New England Part Number	AWG Size	Cross Sect'l. Area		Number of Wires	Construction	Nominal Outside Diameter	Pounds per 1000'
		Cir. Mil Area	Sq. MM				
NEC724	16	2828.	1.433	7	24	.0600	8.73
NEC726	18	1770.	.897	7	26	.0477	5.46
NEC728	20	1112.	.563	7	28	.0378	3.36
NEC730	22	700.	.355	7	30	.0300	2.16
NEC732	24	448.	.227	7	32	.0240	1.38
NEC734	26	278.	.141	7	34	.0189	.858
NEC736	28	175.	.089	7	36	.0150	.540
NEC738	30	112.	.057	7	38	.0120	.346
NEC740	32	67.3	.034	7	40	.0093	.208
NEC742	34	43.8	.022	7	42	.0075	.135
NEC744	36	28.0	.014	7	44	.0060	.086
NEC746	38	17.3	.009	7	46	.0048	.054
NEC750	42	6.86	.003	7	50	.003	.021

The concentric cables shown on this page are most commonly produced in either bare copper or tin-plated copper. Cables made with silver-plated or nickel-plated copper are also offered, but may be subject to higher minimum orders depending on the availability of the single-end wire.
Tin-plated copper and nickel-plated copper are not available for constructions using 50 AWG wire.

Bunched Strands for Maximum Flexibiilty

New England Part Number	Cross Sect'l. Area		Number of Wires	AWG Size	Nominal Outside Diameter	Pounds per 1000'
	Cir. Mil Area	Sq. MM				
18	1625.	.823	65	36	.047”	4.92
20	1050.	.532	42	36	.037”	3.18
22	650.	.330	26	36	.029”	1.97
22	634.3	.321	66	40	.029”	1.92
24	403.6	.205	42	40	.023”’	1.22
26	249.9	.127	26	40	.018”	.757
26	260.	.132	65	44	.019”	.787
28	160.	.081	40	44	.015”	.484
28	160.6	.081	65	46	.015”	.484
30	105.7	.054	11	40	.012”	.320
30	100.	.053	25	44	.012”	.303
30	101.3	.051	41	46	.012”	.305
32	64.	.032	16	44	.009”	.194
32	64.2	.033	26	46	.009”	.193
32	63.7	.032	65	50	.009”	.191
34	39.5	.020	16	46	.007”	.119
34	40.	.020	10	44	.007”	.121
34	39.2	.020	40	50	.007”	.118
36	24.7	.013	10	46	.006”	.074
36	24.5	.012	25	50	.006”	.074
38	15.7	.008	16	50	.005”	.047
40	9.8	.005	10	50	.004”	.029

Tin-plated copper and nickel-plated copper are not available for constructions using 50 AWG wire.

Rely on us for all your high quality specialty wire needs.

Included among the typical conductor base materials and extruded insulations we can offer are:

Conductor Materials

- Bare Copper
- Gold, Silver, Nickel, or Tin-plated Copper
- Stainless Steel
- Tinsel Wire
- Various high-strength alloys

Extruded Insulations

- FEP
- PFA
- PVC
- ETFE
- TPE
- Nylon
- Polyester
- Polyethylene
- Polypropylene
- Polyurethane
- Silicone Rubber

Development Assistance

New England Electric Wire Corporation welcomes all opportunities to assist in the design, development, testing and manufacture of specialty wire products. If your requirements include materials that are not listed above, please contact us to review your specific needs.

Product Information

For more information on our range of specialty manufacturing products and capabilities, please consult our other product sheets.

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New England
Electric Wire Corporation
130 North Main Street
Lisbon, NH 03585
USA
Tel: 603.838.6625
Fax: 603.838.6160
Fax: 603.838.2805
sales@neewc.com
www.neewc.com

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