



# SWITCHBOARD WIRE AND SWITCHBOARD CABLE 1914

Printed in booklet form, 7.5 X 10 inches, gutter bound 8 pages on 20 pound coated stock using the letterpress method. This piece was two hole punched on the left side. Part of a catalog set containing 13 booklets and several single sheet brochures ranging in dates from 1914 to 1918 and bound under a separate hard cover using Chicago screws.

The last page of this PDF contains an un-restored version of the last catalog page. I have included it to show the condition of some of the material that is receive to scan and restore. This booklet was in such poor condition that it could not be placed in the automatic feeder of the scanner. Through the miracle of PhotoShop, presto a clean restored page.

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# KELLOGG

SWITCHBOARD & SUPPLY CO. CHICAGO.

Main Office and Factory : Chicago

Branches

Kansas City, Mo.  
407 Broadway

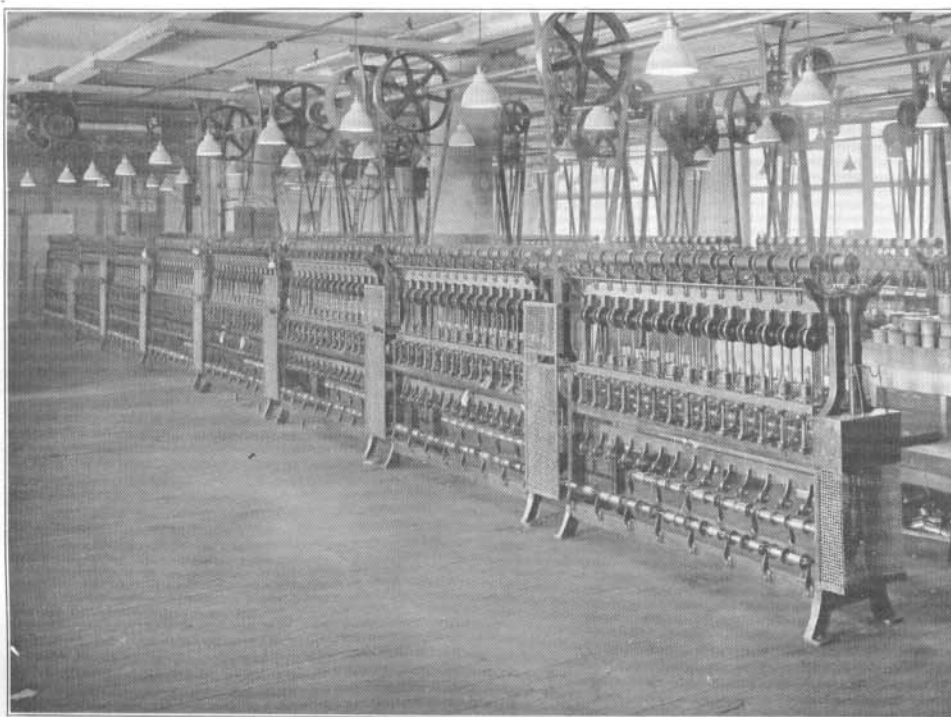
Canada West Elect., Ltd.  
Regina, Can.

San Francisco, Calif.  
86 Third Street

BULLETIN No. 78

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## Switchboard Cable *and* Switchboard Wire



View of one end of the Winding Room showing Silk Magnet Wire Machines. A corner of our well equipped department where we make good Switchboard Wire and Cable.

CABLE & WIRE

### Switchboard Cable

In Kellogg Switchboard Cables the twisted pairs of silk and cotton insulated wires are formed spirally into a cable and the whole covered with two reverse wrappings of very heavy dry Manila paper. Cables Nos. 39, 41, 42 and 43 are covered with a braiding of white cotton, which is beeswaxed and saturated with lead-colored fire-proof paint. All other cables are covered with a braiding of red and white cotton, which is saturated with beeswax and polished. The beeswax makes the covering moisture-proof. Cables Nos. 27, 28 and 44 are flat, and are made up of two oval cables laid side by side and braided over all.

The table on switchboard cable, page 4, needs little explanation. In the column "Insulation of Conductors," "S" stands for silk and "C" for cotton; thus "1s-1c" means one (inner) insulation of silk and one (outer) insulation of cotton. In all cables except Nos. 11, 12, 16 and 25 a color scheme is followed in the outer or cotton insulation of the wires which enables the workman to distinguish the different conductors at each end of the cable without testing. In the case of wires twisted together in pairs throughout the length of the cable, it is necessary that only one wire of the two bears a distinctive color. The wire bearing the distinctive color is usually taken as the sleeve wire; its mate as the tip.

### Office Cables

These cables are made up with from 10 to 100 conductors of any size bare copper wire from No. 16 to No. 24 B. & S. gauge; each conductor is covered with a double wrap of cotton and saturated with paraffine. The cables can be made up with a color scheme. They are covered with a braiding of red and white cotton, which is saturated with paraffine and polished. List Price, per pound..... \$0.50

### Jumper Wire

This wire is made up of tinned copper wire with one silk wrapping and one cotton braiding; it is given a beeswax finish. Furnished single or in twisted pairs or in triples. The standard color combination for twisted pairs is red with white mate; for three conductors, red, white and blue. Sizes No. 22 and No. 24 carried in stock.

This wire is extensively used on cross-connecting boards, as it is superior to and cheaper than rubber-covered wire. We recommend it to our customers.

- |   |                                   |
|---|-----------------------------------|
| No. 22 twisted pair runs about 170 feet to the pound.     | } List price, per pound... \$0.94 |
| No. 22 triple conductor runs about 110 feet to the pound. |                                   |
| No. 24 twisted pair runs about 240 feet to the pound.     | } List price, per pound.. \$1.10  |
| No. 24 triple conductor runs about 160 feet to the pound. |                                   |

### Annunciator Wire

This is made up of either bare or tinned copper, insulated with two firm wrappings of cotton applied in reverse directions; saturated in paraffine and polished. Standard colors are white, red, blue, brown, blue-white and red-white. Sizes 18, 20 and 22, copper or tinned, carried in stock.

- No. 18 tinned, about 170 feet per pound. Price quoted on application.
- No. 20 tinned, about 238 feet per pound. Price quoted on application.

**Cable Reels**

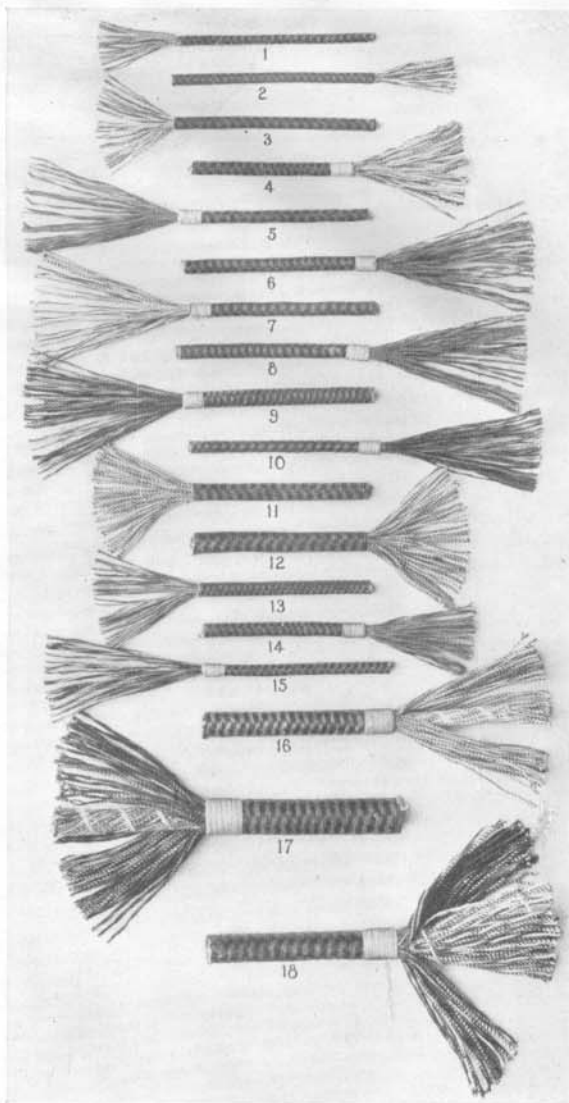
No. 1 reel, diameter 30 inches, between flanges 8 inches, approximate capacity for cable 150 pounds, charged at \$2.00 each.

No. 2 reel, diameter 30 inches, between flanges 12 inches, approximate capacity for cable 300 pounds, charged at \$2.00 each.

No. 3 reel, diameter 36 inches, between flanges 18 inches, approximate capacity for cable 500 pounds, charged at \$2.00 each.

**Switchboard Wire**

The conductor is of the same quality of copper as that used in Kellogg Magnet Wire, and is smoothly and evenly coated with tin. Furnished single conductor, duplex or triplex. The several insulations are wound in reverse directions. Made in almost any desired color or combination of colors (see Color Schemes under Switchboard Cable). It is beeswaxed and is used principally for making keyboard and other special cables. All the No. 18, No. 22, and No. 24 wires listed are carried in stock.



Samples of Switchboard Cable

PRICES ARE PER POUND.

No. B. & S. Gauge	INSULATION		Approx. Feet per Lb., Single	List Price	No. B. & S. Gauge	INSULATION		Approx. Feet per Lb., Single	List Price	No. B. & S. Gauge	INSULATION		Approx. Feet per Lb., Single	List Price
	Silk	Cotton				Silk	Cotton				Silk	Cotton		
18	2	1	200	\$0.70	22	1	1	466	\$0.65	24	1	1	700	\$0.78
20	1	1	292	.58	22	1	2	412	.72	24	1	2	583	.90
20	1	2	269	.64	22	2	1	437	.88	24	2	1	636	1.08
20	2	1	280	.82										

Switchboard Cable

Code Number	NUMBER OF CONDUCTORS		SHAPE AND SIZE		Size of Conductors, B. & S. Gauge.	Insulation of Conductors	Color Scheme	Approximate Weight per Foot in Pounds	Price, per Foot
	Twisted Pairs	Single Conductors	Round Diameter	Oval or Flat, Dimensions					
1	11	.....	$\frac{1}{16}$ "	.....	24	1s-1c	A	.051	\$0.040
2	11	.....	$\frac{1}{8}$ "	.....	22	1s-1c	A	.066	.045
3	13	.....	$\frac{3}{16}$ "	.....	24	1s-1c	B	.055	.045
4	16	.....	$\frac{1}{4}$ "	.....	24	1s-1c	C	.066	.055
5	21	.....	$\frac{5}{16}$ "	.....	24	1s-1c	D	.082	.065
6	21	.....	$\frac{3}{8}$ "	.....	22	1s-1c	D	.113	.075
7	21	.....	.....	$\frac{7}{16}$ "x $\frac{1}{8}$ "	24	1s-1c	D	.082	.065
8	26	.....	$\frac{3}{8}$ "	.....	22	1s-1c	F	.141	.095
9	41	.....	$\frac{1}{2}$ "	.....	24	1s-1c	J	.152	.120
11	51	.....	$\frac{5}{8}$ "	.....	24	1s-1c	P	.188	.150
12	51	.....	$\frac{3}{4}$ "	.....	22	1s-1c	P	.281	.185
13	21	11	$\frac{3}{8}$ "	.....	24	1s-1c	H	.066	.095
15	21	21	.....	$\frac{1}{2}$ "x $\frac{3}{16}$ "	24	1s-1c	K	.117	.095
16	102	.....	$\frac{3}{8}$ "	.....	24	1s-1c	Q	.355	.280
17	102	.....	1 $\frac{3}{8}$ "	.....	22	1s-2c	R	.625	.450
21	21	21	$\frac{3}{8}$ "	.....	24	1s-1c	K	.117	.095
22	21	21	$\frac{3}{16}$ "	.....	22	1s-1c	K	.168	.110
23	21	21	$\frac{3}{16}$ "	.....	22	2s-1c	K	.133	.120
24	21	.....	$\frac{3}{16}$ "	.....	22	2s-1c	D	.129	.115
26	26	.....	$\frac{1}{2}$ "	.....	24	1s-1c	F	.156	.125
27	42	.....	.....	$.26$ "x $1$ "	24	1s-1c	2D	.160	.125
28	21	.....	.....	$.26$ "x $\frac{1}{2}$ "	24	1s-1c	D	.082	.065
29	51	.....	$\frac{1}{2}$ "	.....	22	1s-1c	L	.262	.175
30	11	11	$\frac{1}{4}$ "	.....	24	1s-1c	E	.059	.050
31	11	.....	$\frac{1}{8}$ "	.....	19	1s-2c	A	.125	.080
32	21	.....	$\frac{3}{8}$ "	.....	19	1s-2c	D	.246	.160
37	51	.....	$\frac{1}{2}$ "	.....	24	1s-1c	L	.188	.150
38	102	.....	$\frac{3}{8}$ "	.....	24	1s-1c	R	.355	.280
39	26	.....	.....	$\frac{3}{8}$ "x $\frac{1}{4}$ "	24	2s-1c	F	.117	.130
41	21	21	$\frac{3}{16}$ "	.....	22	2s-1c	K	.191	.170
42	21	.....	$\frac{1}{2}$ "	.....	22	2s-1c	D	.129	.115
43	11	.....	$\frac{3}{16}$ "	.....	22	2s-1c	A	.074	.070
44	21	.....	.....	$.2$ "x $\frac{1}{4}$ "	24	1s-1c	D	.086	.070
45	102	.....	$\frac{1}{4}$ "	.....	22	1s-1c	R	.523	.340
47	21	.....	.....	$\frac{1}{4}$ "x $\frac{1}{4}$ "	19	1s-1c	D	.235	.125
49	21	.....	.....	$\frac{1}{4}$ "x $\frac{1}{8}$ "	22	1s-1c	D	.084	.080
50	21	21	.....	$\frac{1}{4}$ "x $\frac{3}{16}$ "	22	1s-1c	K	.181	.115
53	102	.....	$\frac{1}{4}$ "	.....	22	1s-1c	V	.523	.340
55	13	.....	$\frac{1}{8}$ "	.....	22	1s-1c	B	.....	.050
61	21	21	$\frac{1}{4}$ "	.....	19	1s-2c	K	.367	.195
64	21	.....	.....	$\frac{1}{4}$ "x $\frac{3}{16}$ "	22	2s-1c	D	.135	.105
65	11	.....	$\frac{3}{16}$ "	.....	22	2s-1c	A	.....	.055
76	26	.....	$\frac{1}{8}$ "	.....	24	1s-1c	F	.110	.080
100	16	.....	$\frac{3}{16}$ "	.....	22	1s-1c	C	.....	.0675
107	21	.....	$\frac{3}{16}$ "	.....	22	1s-1c	D	.140	.090
108	21	21	.....	$\frac{1}{4}$ "x $\frac{1}{4}$ "	22	1s-1c	K	.178	.110
109	41	.....	$\frac{1}{4}$ "	.....	22	1s-1c	J	.227	.145
113	21	21	$\frac{1}{8}$ "	.....	22	1s-1c	K	.179	.115
114	11	.....	$\frac{1}{4}$ "	.....	22	1s-1c	A	.182	.060
116	21	Quadruple Twist	$\frac{3}{16}$ "	.....	22	2s-1c	N No. 2	.279	.210

Codes in heavy type signify cable is carried in stock.  
 In small lots the price per foot is net. Discounts for quantity upon application.

**Cable Color Schemes**

<b>"Standard Twenty"</b>	<b>Scheme "A"</b>	<b>Scheme "B"</b>	<b>Scheme "C"</b>
<p>1 Blue 2 Orange 3 Green 4 Black 5 Slate 6 Blue and White 7 Blue and Orange 8 Blue and Green 9 Blue and Black 10 Blue and Slate 11 Orange and White 12 Orange and Green 13 Orange and Black 14 Orange and Slate 15 Green and White 16 Green and Black 17 Green and Slate 18 Black and White 19 Black and Slate 20 Slate and White</p>	<p>Each of the following is twisted with a white mate to form a twisted pair: 1 Blue 2 Orange 3 Green 4 Black 5 Slate 6 Blue and White 7 Blue and Orange 8 Blue and Green 9 Blue and Black 10 Blue and Slate 11 Blue, Orange and White (Spare pair.)</p>	<p>Each of the following is twisted with a white mate to form a twisted pair: 1 Blue 2 Orange 3 Green 4 Black 5 Slate 6 Blue and White 7 Blue and Orange 8 Blue and Green 9 Blue and Black 10 Blue and Slate 11 Orange and White 12 Orange and Green 13 Blue, Orange and White (Spare pair.)</p>	<p>Each of the following is twisted with a white mate to form a twisted pair: 1 Blue 2 Orange 3 Green 4 Black 5 Slate 6 Blue and White 7 Blue and Orange 8 Blue and Green 9 Blue and Black 10 Blue and Slate 11 Orange and White 12 Orange and Green 13 Orange and Black 14 Orange and Slate 15 Green and White 16 Blue, Orange and White (Spare pair.)</p>
<p><b>Scheme "D"</b> Each of the following is twisted with a white mate to form a twisted pair: 1 Blue 2 Orange 3 Green 4 Black 5 Slate 6 Blue and White 7 Blue and Orange 8 Blue and Green 9 Blue and Black 10 Blue and Slate 11 Orange and White 12 Orange and Green 13 Orange and Black 14 Orange and Slate 15 Green and White 16 Green and Black 17 Green and Slate 18 Black and White 19 Black and Slate 20 Slate and White 21 Blue, Orange and White (Spare pair.)</p>	<p><b>Scheme "E"</b> Each of the following is twisted with a white mate to form a twisted pair: 1 Blue 2 Orange 3 Green 4 Black 5 Slate 6 Blue and White 7 Blue and Orange 8 Blue and Green 9 Blue and Black 10 Blue and Slate 11 Blue, Orange and White (Spare pair.)  Each of the following is a single conductor: 1 Blue and Red 2 Orange and Red 3 Green and Red 4 Black and Red 5 Slate and Red 6 Blue, White and Red 7 Blue, Orange and Red 8 Blue, Green and Red 9 Blue, Black and Red 10 Blue, Slate and Red 11 Orange, Black and White (Spare wire.)</p>	<p><b>Scheme "F"</b> Each of the following is twisted with a white mate to form a twisted pair: 1 Blue 2 Orange 3 Green 4 Black 5 Slate 6 Blue and White 7 Blue and Orange 8 Blue and Green 9 Blue and Black 10 Blue and Slate 11 Orange and White 12 Orange and Green 13 Orange and Black 14 Orange and Slate 15 Green and White 16 Green and Black 17 Green and Slate 18 Black and White 19 Black and Slate 20 Slate and White 21 Blue and Red 22 Orange and Red 23 Green and Red 24 Black and Red 25 Slate and Red 26 Blue, Orange and White (Spare pair.)</p>	<p><b>Scheme "G"</b> Each of the following is twisted with a white mate to form a twisted pair: 1 Blue 2 Orange 3 Green 4 Brown 5 Slate 6 Red 7 Blue and White 8 Blue and Orange 9 Blue and Green 10 Blue and Brown 11 Blue and Slate 12 Blue and Red 13 Orange and White 14 Orange and Green 15 Orange and Brown 16 Orange and Slate 17 Orange and Red 18 Green and White 19 Green and Brown 20 Green and Slate 21 Green and Red 22 Brown and White 23 Brown and Slate 24 Brown and Red 25 Slate and White 26 Slate and Red (Spare pair.)</p>

Continued on next page

Scheme "H"	Scheme "I"	Scheme "J"	Scheme "K"
<p>Each of the following is twisted with a white mate to form a twisted pair:</p>	<p>Each of the following is twisted with a white mate to form a twisted pair:</p>	<p>Each of the following is twisted with a white mate to form a twisted pair:</p>	<p>Each of the following is twisted with a white mate to form a twisted pair:</p>
<ol style="list-style-type: none"> <li>1 Blue</li> <li>2 Orange</li> <li>3 Green</li> <li>4 Black</li> <li>5 Slate</li> <li>6 Blue and White</li> <li>7 Blue and Orange</li> <li>8 Blue and Green</li> <li>9 Blue and Black</li> <li>10 Blue and Slate</li> <li>11 Orange and White</li> <li>12 Orange and Green</li> <li>13 Orange and Black</li> <li>14 Orange and Slate</li> <li>15 Green and White</li> <li>16 Green and Black</li> <li>17 Green and Slate</li> <li>18 Black and White</li> <li>19 Black and Slate</li> <li>20 Slate and White</li> <li>21 Blue, Orange and White (Spare pair.)</li> </ol>	<ol style="list-style-type: none"> <li>1 Blue</li> <li>2 Orange</li> <li>3 Green</li> <li>4 Black</li> <li>5 Slate</li> <li>6 Blue and White</li> <li>7 Blue and Orange</li> <li>8 Blue and Green</li> <li>9 Blue and Black</li> <li>10 Blue and Slate</li> <li>11 Orange, Blue and White (Spare pair.)</li> </ol> <p>Each of the following is twisted with a red mate to form a twisted pair.</p> <ol style="list-style-type: none"> <li>1 Orange and White</li> <li>2 Orange and Green</li> <li>3 Orange and Black</li> <li>4 Orange and Slate</li> <li>5 Green and White</li> <li>6 Green and Black</li> <li>7 Green and Slate</li> <li>8 Black and White</li> <li>9 Black and Slate</li> <li>10 Slate and White</li> <li>11 Red, Blue and Orange (Spare pair.)</li> </ol>	<ol style="list-style-type: none"> <li>1 Blue</li> <li>2 Orange</li> <li>3 Green</li> <li>4 Black</li> <li>5 Slate</li> <li>6 Blue and White</li> <li>7 Blue and Orange</li> <li>8 Blue and Green</li> <li>9 Blue and Black</li> <li>10 Blue and Slate</li> <li>11 Orange and White</li> <li>12 Orange and Green</li> <li>13 Orange and Black</li> <li>14 Orange and Slate</li> <li>15 Green and White</li> <li>16 Green and Black</li> <li>17 Green and Slate</li> <li>18 Black and White</li> <li>19 Black and Slate</li> <li>20 Slate and White</li> </ol> <p>Each of the following is twisted with a red mate to form a twisted pair:</p> <ol style="list-style-type: none"> <li>21 Red and Blue</li> <li>22 Red and Orange</li> <li>23 Red and Green</li> <li>24 Red and Black</li> <li>25 Red and Slate</li> <li>26 Red, Blue and White</li> <li>27 Red, Blue and Orange</li> <li>28 Red, Blue and Green</li> <li>29 Red, Blue and Black</li> <li>30 Red, Blue and Slate</li> <li>31 Red, Ora'e and White</li> <li>32 Red, Ora'e and Green</li> <li>33 Red, Ora'e and Black</li> <li>34 Red, Ora'e and Slate</li> <li>35 Red, Green and White</li> <li>36 Red, Green and Black</li> <li>37 Red, Green and Slate</li> <li>38 Red, Black and White</li> <li>39 Red, Black and Slate</li> <li>40 Red, Slate and White</li> <li>41 Blue, Ora'e and White (Spare pair)</li> </ol>	<ol style="list-style-type: none"> <li>1 Blue</li> <li>2 Orange</li> <li>3 Green</li> <li>4 Black</li> <li>5 Slate</li> <li>6 Blue and White</li> <li>7 Blue and Orange</li> <li>8 Blue and Green</li> <li>9 Blue and Black</li> <li>10 Blue and Slate</li> <li>11 Orange and White</li> <li>12 Orange and Green</li> <li>13 Orange and Black</li> <li>14 Orange and Slate</li> <li>15 Green and White</li> <li>16 Green and Black</li> <li>17 Green and Slate</li> <li>18 Black and White</li> <li>19 Black and Slate</li> <li>20 Slate and White</li> <li>21 Blue, Ora'e and White (Spare pair.)</li> </ol> <p>Each of the following is a single conductor:</p> <ol style="list-style-type: none"> <li>1 Blue and Red</li> <li>2 Orange and Red</li> <li>3 Green and Red</li> <li>4 Black and Red</li> <li>5 Slate and Red</li> <li>6 Blue, White and Red</li> <li>7 Blue, Orange and Red</li> <li>8 Blue, Green and Red</li> <li>9 Blue, Black and Red</li> <li>10 Blue, Slate and Red</li> <li>11 Ora'e, White and Red</li> <li>12 Ora'e, Green and Red</li> <li>13 Ora'e, Black and Red</li> <li>14 Ora'e, Slate and Red</li> <li>15 Green, White and Red</li> <li>16 Green, Black and Red</li> <li>17 Green, Slate and Red</li> <li>18 Black, White and Red</li> <li>19 Black, Slate and Red</li> <li>20 Slate, White and Red</li> <li>21 Orange, Black and White (Spare wire)</li> </ol>
<p>Each of the following is a single conductor:</p> <ol style="list-style-type: none"> <li>1 Blue and Red</li> <li>2 Orange and Red</li> <li>3 Green and Red</li> <li>4 Black and Red</li> <li>5 Slate and Red</li> <li>6 Blue, White and Red</li> <li>7 Blue, Orange and Red</li> <li>8 Blue, Green and Red</li> <li>9 Blue, Black and Red</li> <li>10 Blue, Slate and Red</li> <li>11 Orange, Black and White (Spare wire)</li> </ol>	<p>Each of the following is a single conductor:</p> <ol style="list-style-type: none"> <li>1 Red and Blue</li> <li>2 Red and Orange</li> <li>3 Red and Green</li> <li>4 Red and Black</li> <li>5 Red and Slate</li> <li>6 Red, Blue and White</li> <li>7 Red, Blue and Orange</li> <li>8 Red, Blue and Green</li> <li>9 Red, Blue and Black</li> <li>10 Red, Blue and Slate</li> <li>11 Orange, Black and White (Spare wire)</li> </ol>		

Continued on next page

We manufacture high quality reliable enamel insulated wire cable, having one of the most completely equipped plants for this purpose in this country, or abroad.

Write our Enamel Wire Department for complete information, samples and prices.

Scheme "L"	Scheme "M"	Scheme "N"	Scheme "O"
<p>Each of the following is twisted with a white mate to form a twisted pair:</p>	<p>Each of the following is twisted with a white mate to form a twisted pair:</p>	<p>Each of the following is twisted with a white mate to form a twisted pair:</p>	<p>Each of the following is twisted with a white mate to form a twisted pair:</p>
<ol style="list-style-type: none"> <li>1 Blue</li> <li>2 Orange</li> <li>3 Green</li> <li>4 Black</li> <li>5 Slate</li> <li>6 Blue and White</li> <li>7 Blue and Orange</li> <li>8 Blue and Green</li> <li>9 Blue and Black</li> <li>10 Blue and Slate</li> <li>11 Orange and White</li> <li>12 Orange and Green</li> <li>13 Orange and Black</li> <li>14 Orange and Slate</li> <li>15 Green and White</li> <li>16 Green and Black</li> <li>17 Green and Slate</li> <li>18 Black and White</li> <li>19 Blue and Slate</li> <li>20 Slate and White</li> </ol>	<ol style="list-style-type: none"> <li>1 Blue</li> <li>2 Orange</li> <li>3 Green</li> <li>4 Brown</li> <li>5 Slate</li> <li>6 Red</li> <li>7 Blue and White</li> <li>8 Blue and Orange</li> <li>9 Blue and Green</li> <li>10 Blue and Brown</li> <li>11 Blue and Slate</li> <li>12 Blue and Red</li> <li>13 Orange and White</li> <li>14 Orange and Green</li> <li>15 Orange and Brown</li> <li>16 Orange and Slate</li> <li>17 Orange and Red</li> <li>18 Green and White</li> <li>19 Green and Brown</li> <li>20 Green and Slate</li> <li>21 Green and Red</li> <li>22 Brown and White</li> <li>23 Brown and Slate</li> <li>24 Brown and Red</li> <li>25 Slate and White</li> </ol>	<ol style="list-style-type: none"> <li>1 Blue</li> <li>2 Orange</li> <li>3 Green</li> <li>4 Brown</li> <li>5 Slate</li> <li>6 Red</li> <li>7 Blue and White</li> <li>8 Blue and Orange</li> <li>9 Blue and Green</li> <li>10 Blue and Brown</li> <li>11 Blue and Slate</li> <li>12 Blue and Red</li> <li>13 Orange and White</li> <li>14 Orange and Green</li> <li>15 Orange and Brown</li> <li>16 Orange and Slate</li> <li>17 Orange and Red</li> <li>18 Green and White</li> <li>19 Green and Brown</li> <li>20 Green and Slate</li> <li>21 Green and Red</li> <li>22 Brown and White</li> <li>23 Brown and Slate</li> <li>24 Brown and Red</li> <li>25 Slate and White</li> <li>26 Slate and Red</li> </ol> <p style="text-align: center;">(Spare pair)</p>	<ol style="list-style-type: none"> <li>1 Blue</li> <li>2 Orange</li> <li>3 Green</li> <li>4 Black</li> <li>5 Slate</li> <li>6 Red</li> <li>7 Blue and White</li> <li>8 Blue and Orange</li> <li>9 Blue and Green</li> <li>10 Blue and Black</li> <li>11 Blue and Slate</li> <li>12 Blue and Red</li> <li>13 Orange and White</li> <li>14 Orange and Green</li> <li>15 Orange and Black</li> <li>16 Orange and Slate</li> <li>17 Orange and Red</li> <li>18 Green and White</li> <li>19 Green and Black</li> <li>20 Green and Slate</li> <li>21 Green and Red</li> <li>22 Black and White</li> <li>23 Black and Slate</li> <li>24 Black and Red</li> <li>25 Slate and White</li> <li>26 Slate and Red</li> </ol> <p style="text-align: center;">(Spare pair.)</p>
<p>Each of the following is twisted with a red mate to form a twisted pair:</p> <ol style="list-style-type: none"> <li>21 Blue</li> <li>22 Orange</li> <li>23 Green</li> <li>24 Black</li> <li>25 Slate</li> <li>26 Blue and White</li> <li>27 Blue and Orange</li> <li>28 Blue and Green</li> <li>29 Blue and Black</li> <li>30 Blue and Slate</li> <li>31 Orange and White</li> <li>32 Orange and Green</li> <li>33 Orange and Black</li> <li>34 Orange and Slate</li> <li>35 Green and White</li> <li>36 Green and Black</li> <li>37 Green and Slate</li> <li>38 Black and White</li> <li>39 Black and Slate</li> <li>40 Slate and White</li> </ol>	<p>Each of the following is twisted with a black mate to form a twisted pair:</p> <ol style="list-style-type: none"> <li>26 Blue</li> <li>27 Orange</li> <li>28 Green</li> <li>29 Brown</li> <li>30 Slate</li> <li>31 Red</li> <li>32 Blue and White</li> <li>33 Blue and Orange</li> <li>34 Blue and Green</li> <li>35 Blue and Brown</li> <li>36 Blue and Slate</li> <li>37 Blue and Red</li> <li>38 Orange and White</li> <li>39 Orange and Green</li> <li>40 Orange and Brown</li> <li>41 Orange and Slate</li> <li>42 Orange and Red</li> <li>43 Green and White</li> <li>44 Green and Brown</li> <li>45 Green and Slate</li> <li>46 Green and Red</li> <li>47 Brown and White</li> <li>48 Brown and Slate</li> <li>49 Brown and Red</li> <li>50 Slate and White</li> <li>51 White</li> <li>52 Slate and Red</li> </ol> <p style="text-align: center;">(Spare pair.)</p>	<p>Each of the following is a single conductor:</p> <ol style="list-style-type: none"> <li>1 Blue and Black</li> <li>2 Orange and Black</li> <li>3 Green and Black</li> <li>4 Brown and Black</li> <li>5 Slate and Black</li> <li>6 Red and Black</li> <li>7 Blue, White and Black</li> <li>8 Blue, Ora'e and Black</li> <li>9 Blue, Green and Black</li> <li>10 Blue, Brown and Black</li> <li>11 Blue, Slate and Black</li> <li>12 Blue, Red and Black</li> <li>13 Ora'e, White and Blk.</li> <li>14 Ora'e, Green and Blk.</li> <li>15 Ora'e, Brown and Blk.</li> <li>16 Ora'e, Slate and Black</li> <li>17 Ora'e, Red and Black</li> <li>18 Green, White and Blk.</li> <li>19 Green, Brown and Blk</li> <li>20 Green, Slate and Blk.</li> <li>21 Green, Red and Black</li> <li>22 Brown, White and Blk</li> <li>23 Brown, Slate and Blk.</li> <li>24 Brown, Red and Blk.</li> <li>25 Slate, White and Blk.</li> <li>26 Slate, Red and Black</li> </ol> <p style="text-align: center;">(Spare wire.)</p>	<p>Each of the following is a single conductor:</p> <ol style="list-style-type: none"> <li>1 Blue and Brown</li> <li>2 Orange and Brown</li> <li>3 Green and Brown</li> <li>4 Black and Brown</li> <li>5 Slate and Brown</li> <li>6 Red and Brown</li> <li>7 Blue, White and B'wn</li> <li>8 Blue, Ora'e and B'wn</li> <li>9 Blue, Green and B'wn</li> <li>10 Blue, Black and B'wn</li> <li>11 Blue, Slate and Brown</li> <li>12 Blue, Red and Brown</li> <li>13 Orange, White and Brown</li> <li>14 Ora'e, Green and B'wn</li> <li>15 Ora'e, Blk. and Brown</li> <li>16 Ora'e, Slate and B'wn</li> <li>17 Ora'e, Red and B'wn</li> <li>18 Green, White and Brown</li> <li>19 Green, Blk. and B'wn</li> <li>20 Green, Slate and B'wn</li> <li>21 Green, Red and B'wn</li> <li>22 Blk., White and B'wn</li> <li>23 Blk., Slate and Brown</li> <li>24 Blk., Red and Brown</li> <li>25 Slate, White and B'wn</li> <li>26 Slate, Red and B'wn</li> </ol> <p style="text-align: center;">(Spare wire.)</p>
<p>Each of the following is twisted with a red and white mate to form a twisted pair:</p> <ol style="list-style-type: none"> <li>41 Blue</li> <li>42 Orange</li> <li>43 Green</li> <li>44 Black</li> <li>45 Slate</li> <li>46 Blue and White</li> <li>47 Blue and Orange</li> <li>48 Blue and Green</li> <li>49 Blue and Black</li> <li>50 Blue and Slate</li> <li>51 Blue, Ora'e and White</li> </ol> <p style="text-align: center;">(Spare pair.)</p>			

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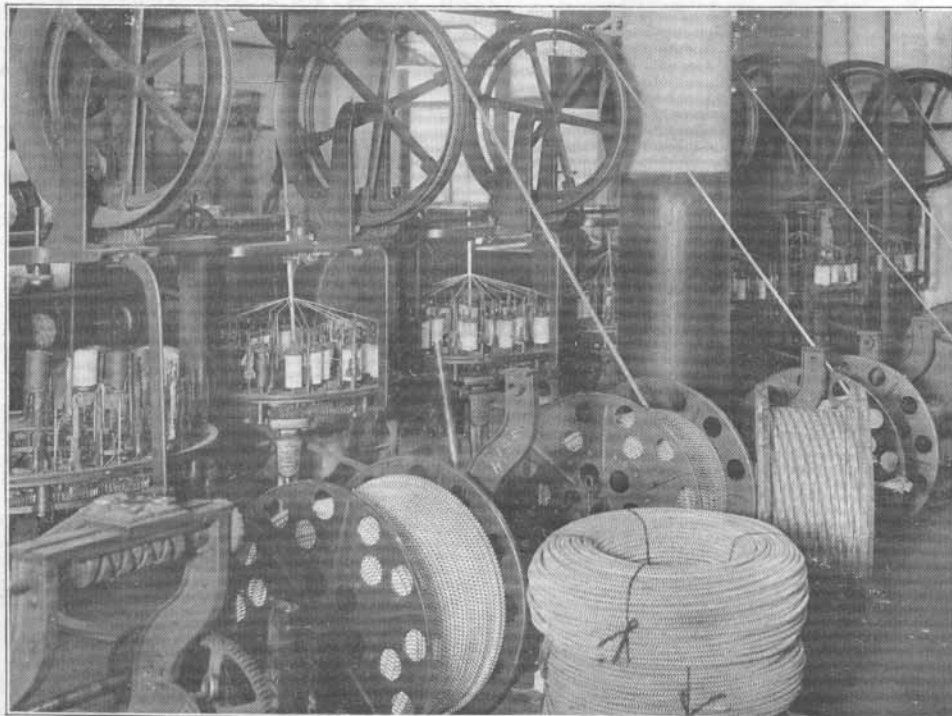
*Scheme "P"*—Fifty-one (51) red and white wires, each twisted with a white mate.

*Scheme "Q"*—One hundred and two (102) red and white wires, each twisted with a white mate.

*Scheme "R"*—The Scheme consists of five groups, of twenty pairs, in each of which wires appear bearing the "Standard Twenty" colors shown in table on page 5. The several groups are distinguished by the color of the tip or mate wire. In the first, second, third, fourth and fifth groups the tip wires are white, red and white, brown and white, brown, and red, respectively. The two spare pairs are: Blue, orange and white with white mate, and red with white mate.

*Scheme "S"*—The Scheme consists of seven groups of twenty triples, in each of which wires appear bearing the "Standard Twenty" colors, and one group of ten triples, in which wires appear bearing the first ten of the "Standard Twenty." The tip wire is white in all the triples. The several groups are distinguished by the color of the third wire in the triples. This wire in the first group is red; second group, red and white; third group, brown; fourth group, brown and white; fifth group, brown and red; sixth group, black and red; seventh group, black, white and red; eighth group, black and brown.

## Cable Braiding Machines



"Use Is The Test"