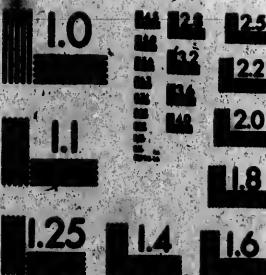


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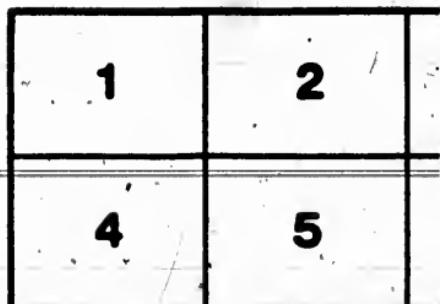
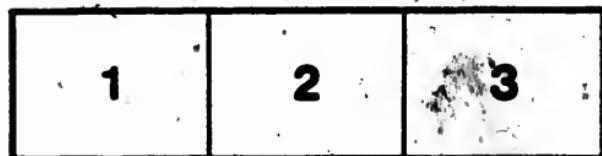
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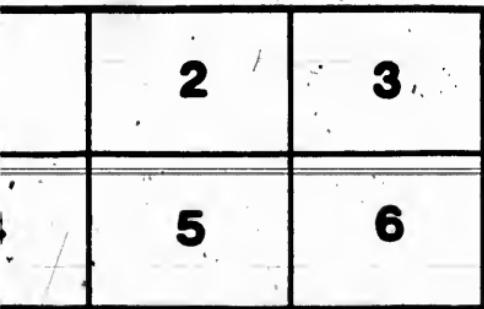
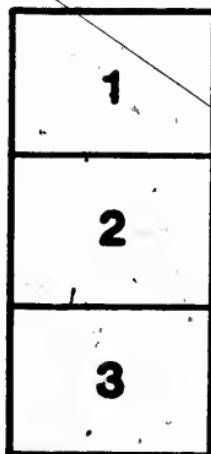
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1893 - - 1894

PRICE LIST

CANADIAN GENERAL ELECTRIC CO.

LIMITED

INSULATED WIRES . . .
CORDS, AND CABLES

. . . MANUFACTURERS OF . . .

EVERY DESCRIPTION OF INSULATED WIRE....

46 TO 71 FRONT ST.

TORONTO, ONT.



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BLACK WEATHERPROOF LINE WIRE

Double Braided and Compounded

A.A.S. No.	Price Per Pound.	Pounds per 1000 feet.
1000	725	
100	520	
80	520	
60	180	
40	300	
30	375	
20	307	
15	245	
12	795	
10	147	
8	121	
6	79	
5	52	
4	52	
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W. H. DODGE & CO.,
Manufacturers of
Forbes' Standard
Scales.

Sizes 0000 to 5000.

25	c. per lb.
24	" "
23	" "
22	" "
21 1/2	" "
20	" "
19	" "

NOTES.—
1/2 cent per lb. extra for
each scale.

Send orders to W. H. Dodge, 11, Ch. St., New Haven.

Or to any dealer in scales.

TREE WIRE

Triple Braided and Compounded

B. & S.	Per Pound.	Pounds per 1000 feet.
No. 0000		760
000		610
00		570
0		400
1		334
2		267
3		224
4		185
5		155
6		135
7		112
8		93
9		78
10		65
11		55
12		48
13		42
14		37
15		32
16		28
17		24
18		21

Write for latest quotations.

TREE WIRE

(Stranded)

B. B. & G.	Lbs. per 1000 feet.	Per 1000 feet.
No. 0000	858	\$323 10
000	682	258 16
00	552	213 16
0	455	179 20
1	364	150 18
2	298	121 77
3	220	86 00
4	175	74 59
5	151	62 42
6	130	52 68
7	107	44 32
8	80	37 24
9	69	34 20
10	63	29 96

Discount per cent.

"C.C."

(Canadian Core)

We beg to draw attention to the
merits of our

SOLID CORE RUBBER-COVERED WIRE

For Interior Wiring . . .
and use in Damp Locations

This wire has the purest and most homogeneous insulation of
rubber-covered wire in the market.

We do not aim to produce a cheap and consequently poor
insulation, but we have spared no expense towards the
production of a high grade of wire at a low price.
"Recovered" rubber or other refuse stock, but
rubber compound.

Send sample order and test the insulation. Prices lower
than any like grade.

CANADIAN CORE CO.

C.C. SOLID CORE

RUBBER COVERED WIRE

Price List subject to change without notice

No.	B. & S.	braided,	per 100 feet	\$	cent
1	"	"	"	29	40
2	"	"	"	21	00
3	"	"	"	16	25
4	"	"	"	13	35
5	"	"	"	11	55
6	"	"	"	10	25
7	"	"	"	8	77
8	"	"	"	5	43
9	"	"	"	4	60
10	"	"	"	3	40
11	"	"	"	2	25
12	"	"	"	1	83
13	"	"	"		72

SUBJECT TO THE FOLLOWING DISCOUNTS FOR CASH:

For any one order amounting to \$	15 00	%
" "	50 00	2
" "	100 00	5
" "	250 00	10
" "	500 00	5
12	1,000 00	2

C.C. means "Canadian Core."

FLEXIBLE CORDS

Cotton

No. 20 B. & S.

		\$ 7.00 per 100 yards.
18	"	9.00 "
16	"	12.00 "
14	"	21.00 "
12	"	32.00 "

Worsted

No. 20 B. & S.

		\$ 7.00 per 100 yards.
18	"	9.00 "
16	"	12.00 "
14	"	21.00 "
12	"	32.00 "

Silk

No. 20 B. & S.

		\$12.00 per 100 yards.
18	"	16.00 "
16	"	19.00 "
14	"	29.00 "
12	"	40.00 "

Discount... 30... percent.

We can furnish Non-Inflammable Conductor Core Cord at above prices.

MAGNET WIRE

Cotton Covered

B. & S.	Single, per lb.	Double, per lb.
No. 0000 to 0	44c.	45 c.
1 to 4	43c.	45 c.
5 to 6	44c.	45 c.
7 to 8	44c.	47 c.
9 to 10	46c.	48½c.
11 to 12	48c.	52 c.
13 to 14	54c.	58 c.
15 to 16	56c.	60 c.
17 to 18	59c.	65½c.
19	64c.	71½c.

Discount... 10... per cent.

20	\$ 0 64	\$0 71½
21	0 70	0 88
22	0 76	0 95
23	0 83	1 05
24	0 90	1 14
25	1 00	1 27
26	1 10	1 36
27	1 25	1 57
28	1 35	1 69
29	1 50	1 89
30	1 65	2 07
31	1 80	2 23
32	1 95	2 38
	2 40	2 85
	2 85	3 42
	3 25	3 88
	4 37	4 93
	5 75	7 25
	9 00	9 50
	11 00	12 00
	13 00	15 00

MAGNET WIRE

Silk Covered

B. & S.	Single, per lb.	Double, per lb.
No. 16	\$ 1 12	\$ 1 53
17	1 42	1 53
18	1 15	1 57
19	1 15	1 57
20	1 18	1 61
21	1 20	1 63
22	1 30	1 70
23	1 42	1 93
24	1 66	2 13
25	1 81	2 20
26	2 10	2 26
27	2 25	3 07
28	2 38	3 43
29	2 75	3 70
30	2 95	4 04
31	3 25	4 40
32	3 45	4 53
33	3 90	5 10
34	4 10	5 20
35	5 85	7 18
36	7 00	7 35
37	11 00	11 62
38	13 00	12 80
39	15 00	16 00
40	20 00	

GERMAN SILVER WIRE

Double, per lb.

B. & S. G.	Bare •	Single, per lb. Cotton	Double, per lb. Cotton
14 to 19	\$1 34	\$ 1 40	\$ 1 70
20	1 58	1 42	1 74
21	1 64	1 44	1 75
22	1 80	1 52	1 83
23	1 80	1 62	1 98
24	1 90	1 71	2 09
25	2 00	1 84	2 26
26	2 45	2 05	2 48
27	2 60	2 25	2 73
28	2 80	2 45	2 98
29	3 10	2 60	3 13
30	3 50	2 84	3 38
31	3 90	3 09	3 66
32	4 70	3 59	4 81
33	5 20	3 96	4 64
34	5 90	4 61	5 44
35	7 30	5 01	5 69
36	13 00	8 09	8 88
37	23 00	13 00	13 75
38	36 00	24 00	27 00
39		27 00	30 00
40		30 00	33 00
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GERMAN SILVER WIRE

Silk Covered

B. & S. G.	Single, per lb.	Double, per lb.
14 to 19	\$ 1 85	\$ 2 35
20	1 88	2 43
21	1 93	2 48
22	2 05	2 64
23	2 21	2 87
24	2 37	3 08
25	2 65	3 48
26	3 02	3 93
27	3 23	4 29
28	3 42	4 43
29	3 85	5 00
30	4 14	5 33
31	4 52	5 81
32	4 94	6 23
33	5 46	6 80
34	5 84	7 39
35	7 52	9 45
36	10 00	11 71
37	18 50	24 75
38	28 00	36 00
39	30 00	38 00
40	45 00	55 00

Discount . . .

Per cent

**WHITE
DUPLEX FIXTURE WIRE**

Trade No.	B. & S.	Ampere Capacity	Outside Diameter	Per 100 feet
1200	14	15	.218	\$7 25
1201	16	10	.218	6 55
1202	18	5	.218	5 80
	20			7 25

Discount ~~20~~ per cent.

ANNUNCIATOR WIRE

B. & S. Gauge	Price per lb.	Approx. length per lb.
18 to 15	.90	40 to 60 feet
16 to 19	.94	105 to 150 feet
20 to 22	.98	225 to 250 feet
23 to 24	1.02	

Discount ~~50~~ per cent.

OFFICE WIRE

B. & S. Gauge	Price per lb.	Approx. length per lb.
18 to 15	.90	25 to 45 feet
16 to 19	.98	95 to 140 feet
20 to 22	1.02	155 to 200 feet

GALVANIZED IRON WIRE

Bare

No.	Imperial Gauge	per cwt.	\$5.60
"	8,	"	5.85
"	9,	"	6.10
"	10,	"	6.30
"	11,	"	6.70
"	12,	"	6.90
"	13,	"	7.30
"	14,	"	7.90
"	15,	"	8.25
"	16,	"	8.90
"	17,	"	9.30
"	18,	"	9.70
"	19,	"	10.00

Discount. 3D. per cent.

TELEGRAPH AND TELEPHONE WIRE

No. Imperial Gauge	B. B. B. per 100 lbs.	B. B. per 100 lbs.	Wood per 100 lbs.
4 to 6	\$17.00	\$10.60	\$6.00
7 to 9	11.40	10.42	5.60
10	11.70	10.70	5.80
11	12.00	11.00	6.00
12	12.00	11.00	6.00

DISCOUNT.

TROLLEY WIRE

Hard and Soft Drawn Copper.

B. & S. Gauge, Nos. 0 to 8..... price per lb. \$0.29
" " 9 to 12..... " 30

FUSE WIRE

Our fuse wire is manufactured expressly for us, is guaranteed accurate, and is submitted to a series of careful tests before being offered to the public.

Ampere	Price per lb.	Price per ft.
1	\$2.40	\$0.01
" 2	2.40	1 $\frac{1}{4}$
" 4	2.40	2
" 5	2.40	2 $\frac{1}{2}$
" 6	2.40	3
" 8	2.40	3 $\frac{1}{4}$
" 10	2.00	4
" 12	2.00	5 $\frac{1}{2}$
" 15	2.00	6
" 20	2.00	8
" 25	2.00	10
" 30	2.00	15
" 40	2.00	20
" 50	2.00	25
" 60	2.00	30
" 75	2.00	35
" 100	2.00	45
" 125	1.80	60
" 150	1.80	70
" 175	1.80	80
" 200	1.80	90

ELECTRIC LIGHT AND

S. & S. C. No.	Area Circular Mils.	Appross. Diam. Wire Gauge No.	Length in Feet	Diameter of Cable Mils.	Approx. Lbs. per 1000 feet.	Price per 100 ft. one copper cable
20	1021	21—	96	145	69	74.80
12	1252	20+	96	150	73	4.80
18	1624	19+	31	180	98	5.50
17	2048	18½ +	31	185	108	6.25
16	2588	18+	38	235	170	6.72
15	3257	17—	38	240	180	7.68
14	4107	16—	47	270	212	8.64
13	5178	15—	47	275	222	9.00
12	6350	14—	47	300	270	11.52
11	8224	13½ +	47	310	290	12.75
10	10381	12½ +	63	365	345	14.40
9	13094	11½ +	63	380	390	16.32
8	16509	10½ +	70	425	340	19.20
7	20816	9—	94	490	685	24.00
6	26250	8—	94	565	818	28.88
5	33102	7—	94	595	891	31.20
4	41742	6+	94	625	969	34.80
3	50634	4—	94	655	1053	38.92
2	66471	3—	94	690	1196	44.00
1	83004	2+	94	720	1281	50.40

On account of the fluctuation in the market prices

POWER CABLE

For Low Tension Currents

Lined Enclosed

B. & S. C. No.	Area Circular Miles.	Nearest Approx. Birnbaum Wire Gauge No.	Approx. Diameter in. in. mm.	Approx. Diameter of Cable in. in. mm.	Approx. Lbs. per 100 ft. 100 ft.	Price per 100 ft. of one conductor cable.
80	0	105594	0 1/4 +	94	815	1772
80	00	133079	00 1/2 +	94	860	1911
50	000	167805	000 1/2 +	94	940	2194
25	0000	211600	0000 +	94	985	2410
72		250000	.....	94	1030	2611
68		300000	.....	94	1065	2857
64		350000	.....	94	1095	3083
60		400000	.....	94	1125	3300
52		450000	.....	94	1160	3554
75		500000	.....	94	1220	3830
40		550000	.....	94	1250	4075
32		600000	.....	94	1315	4333
20		650000	.....	94	1375	4575
20		700000	.....	94	1410	4818
20		750000	.....	94	1440	5060
30		800000	.....	94	1470	5340
30		850000	.....	94	1530	5630
30		900000	.....	94	1550	5775
40		950000	.....	94	1600	6070
40		1000000	.....	94	1630	6260

ELECTRIC LIGHT AND

B. & S. C.	Area Circular Mls.	Dimension of Bare Copper Mls.	Insulation for 400 to 500 Volts.		
			Weight 1000 ft. lbs.	Diameter Mils	Price per 100 feet
14	4107	64	303	463	\$13.44
13	5178	72	416	473	13.98
12	6330	81	536	497	14.50
11	8234	91	656	522	15.50
10	10381	102	782	566	19.00
9	13094	114	610	535	20.62
8	16509	126	699	551	22.00
7	20815	138	777	569	23.45
6	26620	150	923	625	26.70
5	33102	219	992	656	28.60
4	41732	250	1066	698	32.20
3	52634	281	1146	719	34.10
2	66333	313	1238	750	36.40
1	83024	344	1340	761	38.70
0	106562	375	1888	874	67.30
50	133879	422	2070	923	76.82
100	167805	500	2320	1006	88.74
200	221608	547	2563	1047	109.48
300	290000	591	2708	1090	119.10
400	300000	625	3001	1125	132.00
500	330000	656	3240	1156	146.00
600	400000	688	3457	1188	159.00
700	450000	719	3731	1220	177.40
800	500000	751	3933	1251	195.00
900	560000	823	4200	1286	212.00
1000	640000	875	4453	1373	224.00
1100	730000	933	4650	1402	241.00
1200	830000	993	4946	1470	258.00
1300	1045	1045	5223	1545	275.00
1400	1260	1090	5508	1600	292.00
1500	1475	1125	5793	1662	309.00
1600	1700	1156	6078	1723	326.00

POWER CABLE

For High Tension Currents

Lead Encased

For Double Conductor Cable Double List Prices

5-36 in. Insulation for 1000 to 1800 Volts.

Weight 1000 ft. lbs.	Diameter Mils.	Price per 100 ft.
438	525	\$15 40
450	535	16 10
610	550	18 24
632	555	19 20
652	568	20 64
670	580	22 40
741	594	24 00
777	603	26 60
1032	628	33 10
1103	719	36 00
1140	730	39 60
1263	761	43 70
1338	813	49 00
1466	844	57 60
2031	928	70 40
2068	944	80 90
2155	1053	92 50
2169	1120	106 90
2170	1140	118 90
3153	1182	124 40
3297	1220	130 40
3375	1250	135 60
3376	1300	140 80
3377	1344	145 80
3378	1366	211 20
3379	1416	228 90
3380	1446	244 80
3381	1456	252 60
3382	1476	257 80
3383	1578	282 80
		307 20
		324 00
		338 40
		357 20

6-36 in. Insulation for 2000 to 3000 Volts.

Weight 1000 ft. lbs.	Diameter Mils.	Price per 100 ft.
520	590	\$15 90
	600	17 60
	612	20 50
	620	21 45
746	630	22 60
	645	24 32
	656	26 12
	725	31 00
	750	36 00
1144	781	38 90
1218	813	42 72
	813	42 72
	844	46 40
	873	51 70
	906	60 00
2188	1050	73 92
	1047	83 52
	1125	96 00
	1172	110 40
	1215	122 40
	1250	128 10
	1260	134 60
	1313	170 00
	1360	185 00
	1406	208 00
3318	1463	218 00
	1500	234 00
	1550	250 00
	1595	267 00
	1642	284 00
	1670	298 00
5603	1670	298 00
	1715	312 00
	1750	329 00
	1780	346 10
	1810	354 00

BUNCHED

19 Wire Telegraph

Price pr 100 ft. of Cable

HEAVY LEAD FOR UNDERGROUND USE.

No. of Conductors and Form of Cable.	BROWN AND SHARPE GAUGE NO.					
	12	14	16	18	20	22
2 Flat.....	20 00	15 00	12 50	10 65	9 50	9 00
3 ".....	26 25	21 25	17 50	15 65	13 75	12 50
3 Clover Leaf.	26 25	21 25	17 50	15 65	13 75	12 50
3 Round.....	26 25	21 25	17 50	15 65	13 75	12 50
4 Square.....	31 25	26 25	21 25	18 75	16 25	15 00
4 Flat.....	31 25	26 25	21 25	18 75	16 25	15 00
4 Round.....	31 25	26 25	21 25	18 75	16 25	15 00
5 Square.....	36 25	32 00	25 00	21 25	18 75	17 50
5 Flat.....	36 25	32 00	25 00	21 25	18 75	17 50
5 Round.....	36 25	32 00	25 00	21 25	18 75	17 50
6 Flat.....	41 25	32 50	27 50	24 00	21 25	18 75
6 Round.....	41 25	32 30	27 50	24 00	21 25	18 75
7 Flat.....	46 25	35 00	32 00	26 25	22 50	20 00
7 Round.....	46 25	35 00	32 00	26 25	22 50	20 00
8 "	51 25	37 50	32 50	29 00	24 00	21 25
10 "	65 75	52 50	36 25	31 25	26 25	24 00
15 "	90 00	69 00	51 25	45 00	34 00	31 25
20 "	110 00	84 00	66 00	56 00	40 00	36 25
25 "	130 00	99 00	80 00	65 00	46 00	41 25
30 "	148 00	114 00	93 00	71 00	52 50	46 25
35 "	167 00	129 00	105 00	77 00	59 00	51 25
50 "	218 00	178 00	140 00	102 00	75 00	65 00
75 "	224 00	187 50	134 00	103 00	89 00	
100 "	270 00	225 00	161 00	133 00	124 00	
125 "				195 00	157 00	133 00
150 "				178 00	151 00	
175 "				195 00	170 00	
200 "				215 00	188 00	

CABLE

Price per 100 ft. of Cable

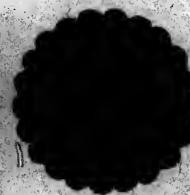
50 Wire Telephone

LIGHT LEAD, FOR AERIAL OR HOUSE USE.

No. of Conductors and Form of Cable.	BROWN AND SHARPE GAUGE NO.					
	12	14	16	18	20	22
2 Flat.....	18 75	13 75	11 25	9 50	9 00	9 00
3 ".....	23 75	18 75	15 00	13 75	12 50	11 25
3 Clover Leaf.....	23 75	18 75	15 00	13 75	12 50	11 25
3 Round.....	23 75	18 75	15 00	13 75	12 50	11 25
4 Square.....	28 75	22 50	18 75	16 25	15 00	13 75
4 Flat.....	28 75	22 50	18 75	16 25	15 00	13 75
4 Round.....	28 75	22 50	18 75	16 25	15 00	13 75
5 Square.....	33 75	28 75	23 75	20 00	17 50	16 25
5 Flat.....	33 75	28 75	23 75	20 00	17 50	16 25
5 Round.....	33 75	28 75	23 75	20 00	17 50	16 25
6 Flat.....	40 00	31 25	26 25	22 50	20 00	17 50
6 Round.....	40 00	31 25	26 25	22 50	20 00	17 50
7 Flat.....	42 50	31 25	27 50	23 75	21 25	18 75
7 Round.....	47 50	31 25	27 50	23 75	21 25	18 75
8 "	61 25	34 00	28 75	25 00	21 25	20 00
10 "	85 00	47 50	31 25	27 50	22 50	21 25
15 "	101 00	64 00	46 25	40 00	30 00	27 50
20 "	116 00	79 00	61 25	51 00	35 00	32 50
25 "	135 00	93 00	74 00	59 00	41 25	37 50
30 "	153 00	106 00	85 00	66 00	47 50	42 50
35 "	202 50	120 00	96 50	74 00	54 00	47 50
50 "	218 00	128 00	96 00	70 00	61 25	50 00
75 "	210 00	175 00	123 00	99 00	84 00	75 00
100 "	250 00	210 00	148 00	122 00	102 50	90 00
125 "	250 00	210 00	179 00	143 00	118 00	105 00
150 "	250 00	210 00	179 00	167 50	138 00	125 00
175 "	250 00	210 00	179 00	180 00	155 00	135 00
200 "	250 00	210 00	179 00	196 90	171 00	150 00

ELECTRIC LIGHT CABLE

With Armor Wire Covering



To ascertain price of Armor Cables, add the following price per foot for Armoring to the regular price of Cable catalogued in previous pages.

Diameter of cable to be Armored. Mils.	Size of Armor Wire. B. & S. G. No.	Price per foot for Armoring.
300	12	26 cents
400	12	28 "
500	12	30 "
600	10	36 "
700	10	40 "
800	9	44 "
900	9	48 "
1000	9	52 "

Discount.....per cent.

GALVANIZED STEEL WIRE STRAND



Size on Wire Gauge.	Diameter in inches.	Weight per 1000 ft.	Breaking Strain in lbs.	Price per lb.
8	1-2	580	9520	\$0 12
9	7-16	425	7910	12
10	13-32	310	6475	12
11	11-32	240	5300	12
12	5-16	200	4250	12 $\frac{1}{2}$
13	9-32	180	3311	13 $\frac{1}{2}$
14	15-64	120	2500	14
15	7-32	100	1960	15
16	3-16	75	1540	16
17	5-32	55	1155	17 $\frac{1}{2}$
18	9-64	42	889	18 $\frac{1}{2}$
19	1-8	33	720	20
20	7-64	25	560	21 $\frac{1}{2}$
21	3-32	20	...	23

Discount per cent.

**TABLE OF
DIMENSIONS AND RESISTANCES**

-- OF --

COPPER WIRE

No. B. & S.	Diameter Mils.	Circular Mils.	Lbs. per 1000 ft. Uninsulated	Ohms per 1000 ft.	Safe Current Capacity Amperes
0000	460.000	211600.0	800.	.04904	229.
000	409.640	167805.0	666.	.06184	189.
00	364.800	133079.9	500.	.07797	160.
0	324.950	105592.5	363.	.09827	130.
1	289.300	83694.5	313.	.12398	110.
2	257.630	66373.2	250.	.15633	94.
3	229.420	52633.5	200.	.19714	76.
4	204.310	41742.6	144.	.24858	63.
5	181.940	33102.2	125.	.31346	52.
6	162.020	26250.5	105.	.39628	43.
7	144.280	20816.7	87.	.49045	35.
8	128.490	16508.7	69.	.62849	30.
9	114.430	13004.2	..	.79242	25.
10	101.890	10381.6	50.	.99948	21.
11	90.742	8234.11	..	1.2608	19.
12	80.808	6520.94	31.	1.5890	15.
13	71.961	5176.39	..	2.0037	12.
14	64.084	4106.76	22.	2.5266	11.
15	57.068	3256.76	..	3.1860	9.
16	50.820	2582.67	14.	4.0176	8.
17	45.257	2048.20	..	5.0000	6.
18	40.303	1624.33	11.	6.3330	5.

EQUIVALENTS OF WIRES

BROWN & SHARPE'S GAUGE

No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
0002	04	02	08	06	16	09	32	12	64
0002	"	14	"	48	"	7	16	"	16
002	"	24	"	58	"	8	16	"	17
02	"	34	"	68	"	9	16	"	18
12	"	44	"	78	"	10	16	"	19
22	"	54	"	88	"	11	16	"	20
32	"	64	"	98	"	12	16	"	21
42	"	74	"	108	"	13	16	"	22
52	"	84	"	118	"	14	16	"	23
62	"	94	"	128	"	15	16	"	24
72	"	104	"	138	"	16	16	"	25
82	"	114	"	148	"	17	16	"	26
92	"	124	"	158	"	18	16	"	27
102	"	134	"	16	.....	19	16	"	28
112	"	144	"	17	.....	20	16	"	29
122	"	154	"	18	.....	21	16	"	30
132	"	16	.....	.....	.....	22	16	"	31
142	"	17	.....	.....	.....	23	16	"	32
152	"	18	.....	.....	.....	24	16	"	33

INCANDESCENT

Sixteen Candle Power Lamps

52 Volt Lamps	75 Volt Lamps	110 Volt Lamps	220 Volt Lamps	Distance in Feet to Centre of Distribution							
				20'	25'	30'	35'	40'	45'	50'	60'
1.	1.3	1.5	3	16	16	16	16	16	16	16	16
1.5	2.	2.5	5	16	16	16	16	16	16	16	16
2.	2.6	3.1	6	16	16	16	16	16	16	16	16
3.	4.	5.	10	16	16	16	16	16	15	15	14
4.	5.	7.	13	16	16	16	15	15	14	13	13
5.	6.	8.	16	16	16	15	14	13	13	13	12
6.	8.	10.	20	16	15	14	13	13	12	12	11
7.	9.	11.	23	15	14	13	13	12	12	11	11
8.	10.	13.	26	15	14	13	12	12	11	11	10
9.	12.	15.	30	14	13	12	12	11	11	10	9
10.	13.	16.	33	14	13	12	11	11	10	10	9
12.	16.	20.	40	13	12	11	11	10	10	9	8
14.	18.	23.	46	12	11	10	10	9	9	8	7
16.	20.	26.	53	12	11	10	9	9	8	8	7
18.	23.	30.	60	11	10	9	8	8	7	7	6
20.	27.	33.	66	11	10	9	8	8	7	7	6
25.	33.	41.	83	10	9	8	7	7	6	6	5
30.	40.	50.	100	9	8	7	7	6	5	5	4
35.	46.	58.	116	8	7	7	6	5	5	4	4
40.	52.	66.	133	8	7	6	5	5	4	4	3
45.	59.	75.	150	7	6	5	5	4	4	3	2
50.	65.	83.	166	6	6	5	4	4	3	3	2
55.	72.	91.	183	6	5	5	4	3	3	2	2
60.	79.	100.	200	5	5	4	4	3	3	2	1
65.	85.	108.	216	5	5	4	3	3	2	2	1
70.	92.	116.	233	4	4	4	3	2	2	1	0
75.	98.	125.	250	4	4	3	3	2	1	1	0
80.	105.	133.	266	3	3	3	2	2	1	0	0
90.	118.	150.	300	3	3	2	2	1	1	0	0
100.	131.	166.	333	2	2	2	1	1	0	0	0

EXAMPLE : Distribution of 16 lamps of 110 volts at a distance
in column headed 110 volt lamp, find the number to place
You will see No. 9 in 2 & 3 wire.

WIRING TABLE

Loss, One Volt

With a voltage over 1 volt.

Move to the right until the column 100 is reached.

GALVANIZED IRON WIRE

Table indicating Size, Weight,
and Length by Washburn & Moen Gauge

W. & M. Wire Gauge No.	Diameter Inches.	Weight of 100 feet. Lbs.	Weight of 1 mile. Lbs.	W. & M. Wire Gauge No.	Diameter Inches.	Weight of 100 feet. Lbs.	Weight of 1 mile. Lbs.
3-0	.362	34.73	1834	18	.047	.58	31
2-0	.331	29.04	1533	19	.041	.45	24
1-0	.307	27.66	1460	20	.035	.32	17
1	.283	21.23	1081	21	.032	.27	14
2	.263	18.34	968	22	.028	.21	11
3	.244	15.78	833	23	.025	.175	9.34
4	.225	13.39	707	24	.023	.140	7.39
5	.207	11.35	599	25	.020	.116	6.124
6	.192	9.73	514	26	.018	.093	4.91
7	.177	8.03	439	27	.017	.083	4.382
8	.162	6.96	367	28	.016	.074	3.907
9	.148	5.08	306	29	.015	.061	3.322
10	.135	4.83	255	30	.014	.054	2.851
11	.120	3.82	202	31	.0135	.050	2.64
12	.105	2.92	154	32	.013	.046	2.428
13	.092	2.24	118	33	.011	.037	1.953
14	.080	1.69	89	34	.010	.030	1.524
15	.072	1.37	72	35	.0095	.025	1.32
16	.063	1.05	55	36	.009	.021	1.051
17	.054	.77	41				

PLATINUM WIRE

One inch of No. 12..... weighs about 24 grains

"	"	14.....	"	17	"
---	---	---------	---	----	---

"	"	16.....	"	10	"
---	---	---------	---	----	---

"	"	18.....	"	8	"
---	---	---------	---	---	---

"	"	20.....	"	3	"
---	---	---------	---	---	---

One foot of No. 22.....

"	"	26.....	"	26	"
---	---	---------	---	----	---

"	"	24.....	"	20	"
---	---	---------	---	----	---

"	"	26.....	"	14	"
---	---	---------	---	----	---

"	"	28.....	"	8	"
---	---	---------	---	---	---

"	"	30.....	"	6	"
---	---	---------	---	---	---

"	"	32.....	"	4	"
---	---	---------	---	---	---

"	"	34.....	"	2	"
---	---	---------	---	---	---

"	"	36.....	"	1½	"
---	---	---------	---	----	---

Discount....., per cent.

GERMAN SILVER WIRE

Is employed for rheostats, resistance coils, and other parts of apparatus in which high resistance is required. It possesses great permanence, and the variations in its resistance due to changes of temperature is small. Its co-efficient is 0.0004, copper being 0.0038—that is ten times less. Its resistance per metergramme is 1.85 ohm, while copper is 0.144 ohm.

Table of Weight and Resistance per 1000
feet of 18% (commercial) German
Silver Wire.

No.	DIA.METER.	WEIGHT.	RESISTANCE.
13	.072 in.	15.800 lbs,	200 ohms.
14	.064 "	12.464 "	257 "
15	.057 "	9.900 "	40.2 "
16	.050 "	7.619 "	60.1 "
17	.045 "	6.171 "	74.2 "
18	.040 "	4.876 "	93.9 "
19	.036 "	3.950 "	116.0 "
20	.032 "	3.121 "	146.8 "
21	.028 "	2.389 "	191.7 "
22	.0253 "	1.951 "	234.8 "
23	.0225 "	1.543 "	296.9 "
24	.0201 "	1.231 "	372.2 "
25	.0179 "	.976 "	469.4 "
26	.0159 "	.770 "	595.0 "
27	.0142 "	.614 "	740.2 "
28	.0120 "	.4838 "	947.0 "
29	.0112 "	.3823 "	1198.5 "
30	.010 "	.3047 "	1503.7 "

Discount per cent.

AMPERES PER LAMP

Volts.....	52	75	110	220	330	440	1000	2000
Watts per C.P.	3.6	3.6	4.2	4.2	4.2	4.2	3.6	3.6
10 C.P....	.69	.48	.38	.19	.127	.095	.036	.018
16 C.P....	1.10	.76	.61	.30	.20	.15	.0576	.0288
25 C.P....	1.38	.96	.76	.38	.253	.19	.072	.036
35 C.P....	1.73	1.2	.95	.475	.32	.24	.09	.045
50 C.P....	2.21	1.53	1.22	.61	.41	.305	.115	.0575
100 C.P....	3.46	2.4	1.9	.95	.63	.47	.18	.09
150 C.P....	6.92	4.8	3.8	1.90	1.26	.94	.36	.18
	10.38	7.2	5.7	2.85	1.89	1.41	.54	.27

Lamps are made of higher efficiency, but
data is good for wire estimates.

VOLTS LOST AT DIFF.

Volts.....	VOLTAGE AT LAMP ON				
	52	75	100	110	220
1%	.261	.376	.502	.552	1.10
1%	.525	.757	1.01	1.11	2.22
1½%	.2918	1.14	1.52	1.67	3.35
2%	1.06	1.53	2.04	2.24	4.48
2½%	1.33	1.92	2.56	2.82	5.64
3%	1.61	2.31	3.09	3.40	6.87
4%	2.16	3.12	4.16	4.58	9.16
5%	2.73	3.94	5.26	5.78	11.57
6%	3.31	4.78	6.38	7.02	14.04
7%	3.91	5.64	7.52	8.27	16.53
8%	4.52	6.52	8.69	9.56	19.13
9%	5.14	7.41	9.89	10.87	21.75
10%	5.77	8.33	11.11	12.22	24.44
11%	6.42	9.26	12.35	13.59	27.19
12%	7.09	10.22	13.63	14.99	30.92
13%	7.76	11.10	14.94	16.43	32.71
14%	8.46	12.20	16.27	17.02	35.51
15%	9.17	13.23	17.64	19.41	38.35
16%	9.88	18.75	25	27.75	41
17%	17.33	25	33.33	36.66	71

RENT PER CENT. DROP

DISTRIBUTION POINT, TOP ROW.

	400	500	600	800	1000	1200	2000
.10	2.01	2.51	3.01	4.02	5.02	6.03	10.05
.22	4.04	5.05	6.06	8.08	10.10	12.12	20.2
.35	6.09	7.61	9.13	12.1	15.2	18.2	30.4
.48	8.16	10.2	12.2	16.3	20.4	24.4	40.8
.61	10.25	12.8	15.3	20.5	25.6	30.7	51.2
.74	12.37	15.4	18.5	24.7	30.9	37.1	61.8
.87	15.66	20.8	24.9	32.3	41.6	49.9	83.3
.16	21.05	26.3	31.5	42.1	52.6	63.1	105.
.57	25.53	31.9	38.2	51.	63.8	76.5	127.
.70	30.10	37.6	45.1	60.2	75.2	90.3	150.
.83	34.78	43.4	52.1	69.3	86.9	104.	173.
.96	39.55	49.4	59.3	79.1	98.9	118.	197.
.11	44.44	53.5	66.6	88.8	111.	133.	222.
.24	49.43	61.7	74.1	98.8	123.	148.	247.
.37	54.54	68.1	81.8	109.	136.	163.	272.
.50	59.70	74.7	89.6	119.	149.	179.	298.
.63	65.1	81.3	97.6	130.	162.	195.	325.
.76	70.5	88.2	105.	141.	176.	211.	352.
.90	100.	125.	150.	200.	250.	300.	400.
.93	133.	160.	200.	266.	333.	400.	666.

WIRING TABLE FOR

Determination for the Transformer

PERCENTAGE OF LOSS.					CURRENT				
2	3	4	5	6	2	4	6	8	10
					513,450	256,725	171,150	128,362	108,696
					406,875	203,100	136,607	101,850	81,375
					323,400	161,700	107,782	80,850	64,000
					256,725	128,310	85,575	61,155	51,345
					204,225	102,060	68,040	51,030	40,845
					162,225	78,750	54,075	46,530	32,445
					128,625	64,260	42,071	32,130	23,775
					101,850	50,925	33,915	25,402	20,375
					80,850	40,525	27,052	20,212	16,370
					64,050	31,980	21,346	15,960	12,310
					50,925	25,410	16,978	12,705	10,185
					40,375	20,181	13,445	10,090	8,074
					32,025	15,960	10,637	7,980	6,405
					25,410	11,705	8,468	6,352	5,000
					20,160	10,050	6,720	5,090	4,032
					15,960	7,980	5,318	3,990	3,194
					12,705	6,352	4,215	3,160	2,638
					10,050	5,000	3,360	2,320	2,084
					7,980	3,990	2,661	1,995	1,525
					6,352	2,176	1,315	1,097	1,076
					5,040	2,520	1,680	1,300	1,200
					3,993	1,997	1,333	996	996
					3,171	1,383	1,053	840	840
					2,520	1,260	840	640	640

PRIMARY DISTRIBUTION

System of Incandescent Lighting.

IN AMPERES.

12	14	16	18	20	22½	25	30	37½	50
FEET TO CENTRE OF DISTRIBUTION.									
102,696	85,375	73,342	64,181	57,015	51,345	46,210	41,076	35,266	28,213
81,375	67,802	58,117	50,925	45,208	40,607	36,618	32,350	28,313	22,570
64,000	53,981	46,000	40,445	35,910	38,340	29,106	25,872	22,218	17,777
51,845	44,979	36,877	32,877	26,507	23,672	23,105	20,335	17,633	14,107
40,845	36,000	30,109	25,315	22,000	20,522	18,430	16,338	14,107	11,285
32,445	27,957	23,767	20,365	18,007	16,222	13,296	13,290	11,187	8,930
25,793	21,433	18,375	16,005	14,260	12,862	11,396	10,290	8,816	7,053
20,370	16,957	14,533	12,731	11,340	10,183	9,163	8,148	7,053	5,640
16,370	13,400	11,350	10,100	8,977	8,005	7,280	6,468	5,593	4,474
12,810	10,673	9,161	7,900	7,140	6,405	5,864	5,124	4,436	3,530
10,185	8,400	7,471	6,332	5,670	5,092	4,528	4,074	3,517	2,813
8,074	6,747	5,764	5,045	4,483	4,071	3,623	3,229	2,790	2,238
6,405	5,300	4,467	3,990	3,554	3,202	2,832	2,562	2,212	1,770
5,000	4,213	3,567	3,176	2,724	2,341	2,261	2,062	1,754	1,404
4,032	3,300	2,877	2,300	2,241	2,017	1,814	1,612	1,391	1,113
3,194	2,668	2,285	1,995	1,772	1,596	1,386	1,276	1,103	883
2,530	2,107	1,806	1,500	1,407	1,320	1,121	1,012	875	700
2,006	1,600	1,438	1,200	1,119	1,003	904	806	694	554
1,506	1,233	1,139	997	887	798	715	638	550	
1,176	1,007	907	798	703	635	571	508		
1,000	800	780	630	539	504	458			
750	607	571	468	443	399				
625	507	456	395	376					
500	400	350	315						

STRANDED WIRE

C.C. Solid Core, Best Rubber Covered
(BRAIDED)

No. 0000 B. & S.	\$800.00	per 1000 feet.
" 000 "	680.00	" "
" 00 "	510.00	" "
" 0 "	430.00	" "
" 1 "	330.00	" "
" 2 "	290.00	" "
" 3 "	230.00	" "
" 4 "	190.00	" "
" 5 "	160.00	" "
" 6 "	130.00	" "
" 8 "	100.00	" "
" 10 "	70.00	" "
" 12 "	50.00	" "
" 14 "	40.00	" "

Discount .30 per cent.

TWIN FIXTURE WIRE

Two Solid Core "C.C." Rubber Covered Wires
laid parallel, and taped with best black Para tape,
making a superior twin wire for use inside metallic
tubes.

Two, No. 10, B. & S. Gauge.....\$13.00 per 100 feet.

"	"	12	"	"	....	10.00	"	"
"	"	14	"	"	....	7.25	"	"
"	"	16	"	"	....	6.55	"	"
"	"	18	"	"	....	5.80	"	"
"	"	20	"	"	....	7.35	"	"

Discount.....**30** per cent.

INDEX

- Annunciator Wire
Armored Cable
Braided Wire
Cable for Light and Power
" Telegraph and Telephone
C.C. Rubber Covered Wire
Duplex Wire (white)
Fixture Wire
Fuse Wire
Flexible Cord
Galvanized Iron Wire
German Silver Wire
Iron Wire, Insulated
" Galvanized
Line Wire (black weatherproof)
Magnet Wire
Office Wire
Platinum Wire
Rubber Covered Wire
Stranded Wire
Steel Cable
Solid Core Wire
Table of Amperes per I
" Dimensions and D
" Equivalents of Wires
" Volts lost at
" Weights, etc., Iron
" " Copper
" " German Silver
" Wiring Primary
" " Interiors
Tree Wire
Telegraph Wire
Telephone
Trolley
Twist Fixture Wire
Twist Lamp Wire

