of visiting card thickness, or if the current to be carried is comparatively large, two thicknesses may be used. The combined gaps should, if possible, be computed to equal the amount given in the table.

these stampings is 2 5-16 by fin., and allowing for spool ends, centre, and taping, a space measuring 2 by \(\frac{1}{2} \) is available for the winding, and this will be taken as 1\(\frac{1}{2} \) sq. in. This space will accommodate turns of enamelled

passing round each side of the coil, stand the pressure of the turns. with the "core" pattern with only one window, the "shell" is slightly better The dimension of the window in for a transformer, but the difference is sees stampings is 2 5-16 by §in., and small. The stampings are sold in lots llowing for spool ends, centre, and of half a gross of each, T's and U's, and this quantity allows of the core apping, a space measuring 2 by § is and this quantity allows of the core. being built to 1 1-8in., so that it may then be used for choke purposes as a one-inch square core. For the pro-

Choke Coils with Gaps—Stalloy Cores												
	Core 1/2 × 1/2			34×34			/×/			1/4 × 1/4		
Henrys			Mils	Turns	Gap	Mils	Turns	Бар	Mils	Turns	Gap	
15	10000	.05 .03		5900 5300	05 03	80 55	5200 4000	:05 :03	110 85	4200 3150	05 03	
20	12000	05	48	7900 6200	05	70 48	6250 4700	:05 :03	90 70	4800 3750	05 03	120 90
30	14600	05	-	10000 7500	05 03	57 45	7400 5 <i>7</i> 00	:05 :03	75 50	5800 4500	05 03	100 70
50	19000 15000	05	30	12700 9800	05 03	45 35	9500 7300	05 03	60 45	7500 5900	05	58
100	21000	03	+	17500 13400	05 03		13400 10400	05 03	42 37	10200 8200	05 03	1
Carrying Capacity of Wire (s.w.g.)												
mi. Ga	ls 200 uge 28		130 30	100 32		80 34	50 36		32 38	20 40	mi. Gai	

wii foll	e acco	ording	to	the	gauge	as	cess
	s.w.g.	Turns.	S.	W.G.	Turns.		by a
	26	3,100		34	13,000		this
	28	5,000		36	19,000		ends
	30	6,300		38	34,500		ends
	32	9,400		40	54,000		be of
Or	d.c.c.		ly i				
		Turns.	S	W.G.	Turns.	+	wire

a.c.c. v	vire as	TOHOWS:-	
s.w.g.	Turns.	s.w.g.	Turns.
18	420	26	1,600
20	550	28	2,160
22	840	30	2,500
24	1,190		

of winding, a wooden former uld be made 2½in. long and 1 1-8 a shade over 15-16in, to allow the re strips to slip in easily. former a spool is built with 1-8in. s, and 2in, wide inside. The spool s will be 21in. square, and should f strong material, as in choke windnot in layers, there is a continualincreasing outward pressure as the e is wound on, and the heavier the gauge, the greater is this outward presgauge, the greater is this outwards any sure, which will curve outwards any the strongest material. therefore necessary when winding any

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passing round each side of the compared square of wood with a hole to slip 1-64th in each. D.C. resistance, 250 over the spindle and small nails in ohms.

These stampings are what is known chokes to support the outer ends of 30's can be put upon this core to make as "shell," as the core is divided, half the spool in some way that will with- a 20 henry smoothing choke with one-as "shell," as the core side of the coil, stand the pressure of the turns. A third of .05 in each gap, which is

the latter will answer the purpose. When using these stampings it is 'Upon referring to the table of gap best to see that the window was fairly chokes, we find that 6250 turns of well filled if possible and in some

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