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**TECHNICAL DATA**

NOMINAL CONDUCTOR DIA नगरे तार का साईज		CROSS SECTIONAL AREA OF CONDUCTOR IN mm <sup>2</sup>	CONDUCTOR WEIGHT OF 1000 METER LENGTH IN Kg.	CONDUCTOR RESISTANCE AT 20°C FOR 1 Mtr. IN (Ω) (ohms)	OVERALL DIA WITH VARNISH वार्निश करे तार का साईज गेज 2	
SWG	IN MM				MINIMUM (IN MM)	MAXIMUM (IN MM)
10	3.251	8.3042	74.15664	0.0020472	3.747	3.791
11	2.946	6.8164	60.89499	0.0024930	3.030	3.057
12	2.642	5.4822	48.97582	0.0030997	2.723	2.748
13	2.337	4.2895	38.32071	0.0039616	2.416	2.439
13½	2.185	3.7662	33.49801	0.0045319	2.263	2.285
14	2.032	3.2429	28.97100	0.0052401	2.109	2.129
14½	1.930	2.9351	26.13549	0.0058086	2.006	2.026
15	1.829	2.6274	23.47164	0.0064678	1.904	1.923
15½	1.727	2.3519	20.92670	0.0072544	1.802	1.820
16	1.626	2.0765	18.55057	0.0081836	1.699	1.716
16½	1.524	1.8323	16.29619	0.0093157	1.596	1.612
17	1.422	1.5881	14.18781	0.0107000	1.493	1.508
17½	1.320	1.3776	12.22543	0.0124176	1.390	1.404
18	1.219	1.1671	10.42614	0.0145605	1.286	1.301
18½	1.117	0.9889	8.75432	0.0173412	1.181	1.196
19	1.016	0.8107	7.24275	0.0209603	1.078	1.092
19½	0.965	0.7334	6.53387	0.0232343	1.022	1.035
20	0.914	0.6561	5.86150	0.0258995	0.977	0.990
20½	0.863	0.5876	5.22562	0.0290511	0.925	0.937
21	0.813	0.5191	4.63764	0.0327343	0.873	0.883
21½	0.762	0.4580	4.07405	0.0372627	0.820	0.830
22	0.711	0.3970	3.54695	0.0428001	0.767	0.777
22½	0.660	0.3446	3.05636	0.0496703	0.714	0.726
23	0.610	0.2923	2.61081	0.0581466	0.660	0.673
24	0.559	0.2454	2.19250	0.0692406	0.606	0.618
25	0.508	0.2027	1.81069	0.0838411	0.555	0.565
26	0.457	0.1640	1.46537	0.1035981	0.502	0.511
27	0.417	0.1366	1.22008	0.1244263	0.459	0.467
28	0.376	0.1110	0.99195	0.1530413	0.416	0.425
29	0.345	0.09348	0.83513	0.1817800	0.383	0.393
30	0.315	0.07793	0.69621	0.2180536	0.350	0.360
31	0.295	0.06835	0.61060	0.2486224	0.330	0.339
32	0.274	0.05896	0.52677	0.2881928	0.307	0.317
33	0.254	0.05067	0.45267	0.3353643	0.287	0.295
34	0.234	0.04301	0.38419	0.3951414	0.266	0.273
35	0.213	0.03563	0.31833	0.4768975	0.242	0.250
36	0.193	0.02926	0.26135	0.5808576	0.220	0.228
37	0.173	0.02351	0.20999	0.7229230	0.198	0.210
38	0.152	0.01815	0.16211	0.9364770	0.175	0.186
39	0.132	0.01368	0.12225	1.2417564	0.153	0.162
40	0.122	0.01169	0.10443	1.4536659	0.141	0.151
41	0.112	0.00985	0.08801	1.7248377	0.129	0.139
42	0.102	0.00817	0.07300	2.0796197	0.119	0.128
43	0.091	0.00650	0.05810	2.6127718	0.107	0.115
44	0.081	0.00515	0.04603	3.2977235	0.096	0.103
45	0.071	0.00396	0.03537	4.2920777	0.083	0.091

TESTED AS PER ISI SPECIFICATIONS IS 13730 (PART 34) IEC 317-34

**(तार को सिंगल या डबल करने का तरीका)**

मोटर वाइंडिंग करते समय यदि तार के नंबर को बदलने की जरूरत पड़े तो नीचे दिये कारपुले के अनुसार आर तार के नंबर की बदल सकते है।  
 विधि : यदि किसी मोटर में 15% नंबर की तार लगी हुई है और उसका नंबर 42% है उस समय आप मोटर में 18 नंबर की दो तार मिलाकर लग सकते है क्योंकि इस तार का नंबर 21.28 है जो दुगुने करने पर 42.52 होता है जो कि 15% नंबर तार के लगभग बराबर है।

8	9	10	11	12	13	14
234	190	150	124	99	78	59
14%	15	15½	16	16½	17	17½
53	47.66	42.50	37.68	33.13	28.88	24.93
18	18½	19	19½	20	20½	21
21.26	17.884	14.795	13.365	12.007	10.710	9.496
21%	22	22½	23	23½	24	24½
8.355	7.285	6.87	5.388	4.935	4.515	4.118

**APPROXIMATE EQUIVALENT COMBINATION GAUGES**

SWG	(Tot. +/- 0.05% mm/kg.)			SWG	(Tot. +/- 0.05% mm/kg.)			
11	15+15+17,	14+16+17½,	16½+16½+17+17	18	20+21,	20½+20½,	23+23+23+23	
12	15+15,	16½+16½+16½,	17½+17½+17½+17½	18½	21+21½,	22+23+23,	22½+22½+23	
13	16+16,	17½+17½+17½,	17+17+18½	19	21½+22½,	21+23,	23+23+22+22	
13½	16½+16½,	16+17,	17½+18+18	19½	22+22½,	23+24+25,	24+24+24	
14	17+17,	16+18,	19+19+19+19	20	22+24,	22½+23,	25+25+25	
14½	18½+18½+18½,	19½+19½+19½+19½,	17+17½	20½	23+23,	22½+24,	24+26+26	
15	17½+17½,	17+18,	20+20+20+20	21	24+24,	22½+25,	26+26+26	
15½	18+18,	19+19+20,	19+19½+19½	21½	24+25,	23+26,	28+28+28+28	
16	18+19,	18½+18½,	19½+20+20,	21+21+21+21	22	25+26,	26+27+27,	24+27
16½	18½+19,	19½+20½+21½,	21½+21½+21½+21½	22½	25+27,	27+28+29,	28+28+28	
17	19+19½,	21+21+21,	20+21+22	23	26+28,	27+27,	29+29+29	
17½	19+21,	19½+20,	21½+21½+21½	24	27+28,	29+30+31		

# Electric Motor Winding Data

**A Gutmann**



## **Electric Motor Winding Data :**

Three Phase Motor Winding Data from Simple Measurements Samuel Heller,1961-01-01      **Electrical Review and Industrial Engineer** ,1922      *Popular Mechanics* ,1939-11 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle

Automobile Lighting and Rewinding Data International Correspondence Schools,Warren Prescott Loudon,1924      The Electric Journal ,1919      Industrial Engineer ,1922      **The Industrial Arts Index** ,1930      **Electrical Installation Record** ,1926      **Electrical World** ,1908      **The Electrical Journal** ,1912      *Electrical Record and Buyer's Reference* ,1920      Alternating-current Armature Winding Terrell Croft,1924      *The Engineer's Year-book of Formulae, Rules, Tables, Data, and Memoranda in Civil, Mechanical, Electrical, Marine, and Mine Engineering* ,1921      **Electrical West** ,1921

**Electrical Engineers' Data Books: Onslow, D.V. Lighting, traction, and power distribution** Edmund Basil Wedmore,1925      Electrical Journal ,1921      **Popular Mechanics** ,1940-02 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle      The National Electrical Contractor ,1924      **Radio News** ,1921 Some issues 1943 July 1948 include separately paged and numbered section called Radio electronic engineering edition called Radionics edition in 1943

*Radio & TV News* ,1921 Some issues Aug 1943 Apr 1954 are called Radio electronic engineering ed called in 1943 Radionics ed which include a separately paged section Radio electronic engineering varies v 1 no 2 v 22 no 7 issued separately Aug 1954 May 1955

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