COPPER FOIL
ALUMINUM FOIL
PAPER COVERED WIRE
FIBER GLASS COVERED WIRE
ENAMELED FLAT WINDING WIRE
ENAMELED ROUND WINDING WIRE
ENAMELED SQUARE WIRE

Zhengzhou LP Industry Co.,Ltd.

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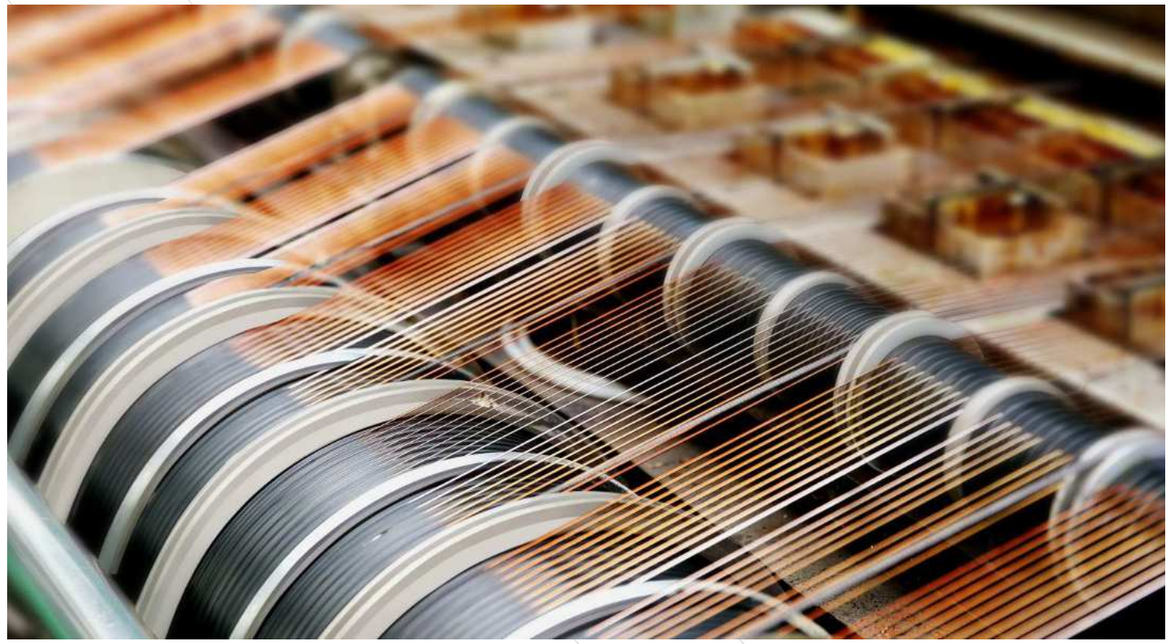

LANPU 蓝普

LANPU 蓝普

CORE MATERIAL
CREATING CAREFULLY
核心材料 精心制造

COPPER FOIL
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Enterprise Introduction 企业简介

郑州蓝普实业有限公司成立于1993年，公司总部位于中国最大的交通枢纽中心河南省郑州市，经过30多年的发展，公司目前已是中国北方最大的电磁线生产企业，年生产量10万余吨，公司占地面积300亩，拥有员工350余人，其中工程管理人员50余人，固定资产投资8亿元。生产和检测设备均引进意大利和法国。公司全面推行ISO9001质量管理体系和ISO14001环境管理体系认证。产品全部采用IEC、GB、JIS、NEMA生产标准，部分产品通过美国UL认证。

蓝普从成立至今一直致力于电磁线的研发和生产，是中国机械工业联合会与国家电网公司联合认证的国内变压器推荐用电磁线8家供货单位之一，参与了国家电磁线标准制定。公司选用优质的江西铜业和国外智利3C电解铜板以及中铝电工专用铝杆为原材料，熔炼—轧制—挤压—拉丝—漆包—绕包完善工艺，控制严谨，保证电磁线品质的稳定性与一致性。公司坚持：“品质第一”的质量理念。从原材料、半成品。成品均实行件件检测，出厂前再综合抽检同时建立了可追溯性生产质量记录。蓝普电磁线凭借优质的产品质量和完善的销售网络与ABB、西门子、国家电网、特变电工等国内外知名企业长期深度合作、配套、确立了行业内的优势地位。

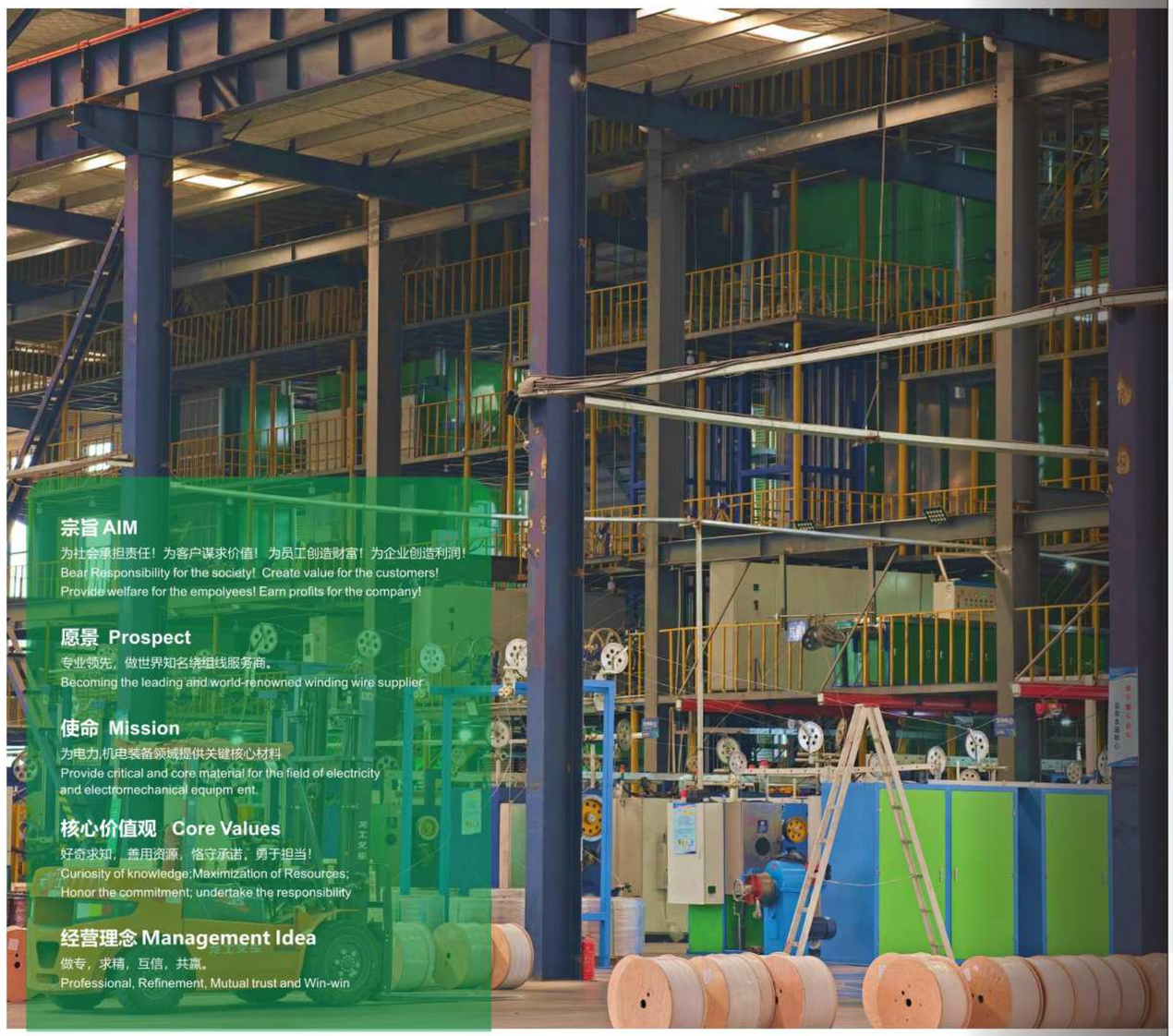
蓝普实业满足客户发展要求，不断研发新型电磁线产品，致力于为变压器、电机、新能源汽车等领域提供世界级的电磁线产品为目标而不懈努力。

Founded in 1993, Zhengzhou LP Industry Co., Ltd. is headquartered in the largest transportation center city Zhengzhou,Henan in China. After the development of over 30 years, now LP Industry has become the biggest magnet wire manufacturer in North China with an annual output of over 100,000 tons. The company occupies an area of 200,000 square meters,employs over 350 staff members， including 50 in management team and is with a total asset value of 800,000,000RMB. Equipped with imported manufacturing facilities from Italy and France, LP comprehensively performs ISO 9001 and ISO 14001 management systems. All products comply with IEC, JIS, NEMA and GB standards, and main items are UL certified too.

Since its inception, LP Industry has specialized in the R&D and production of magnet winding wires, being one of the 8 designated magnet wire suppliers for domestic transformer industry, which is certified by China Machinery Industry Federation and the State Grid, and participating in the national magnet wire standards making.LP Industry takes the 3C Electrolytic copper panel and aluminum rod of high quality from Jiangxi, Chile and China Aluminum Corporation as the raw material, integrating the art: smelting -- rolling -- extruding -- drawing -- enameling and spooling in strict control to keep the quality of magnet wire stable and consistent. The company insists on the value “Quality Comes First”, and performs inspection on raw material, semi-finished products and finished products in 100%. Before shipment, we will carry out sampling inspection again and build traceable quality record. Taking the advantage of perfect quality and complete sales channel, LP Industry has established long-term partnership with famous brands all over the world such as ABB, Siemens, the State Grid and TBEA etc., ranking top in the industry all the time.

Devoting itself to meeting customers' evolving demands, LP Industry will continuously fight for researching, developing and providing world-class magnet wires for the industries including transformers, motors and new energy vehicles etc.

Enterprise Culture 企业文化



宗旨 AIM

为社会承担责任！为客户谋求价值！ 为员工创造财富！为企业创造利润！
Bear Responsibility for the society! Create value for the customers!
Provide welfare for the empolyees! Earn profits for the company!

愿景 Prospect

专业领先，做世界知名绕组线服务商。
Becoming the leading and world-renowned winding wire supplier

使命 Mission

为电力,机电装备领域提供关键核心材料
Provide critical and core material for the field of electricity and electromechanical equipm ent.

核心价值观 Core Values

好奇求知，善用资源，恪守承诺，勇于担当！
Curiosity of knowledge;Maximization of Resources;
Honor the commitment; undertake the responsibility

经营理念 Management Idea

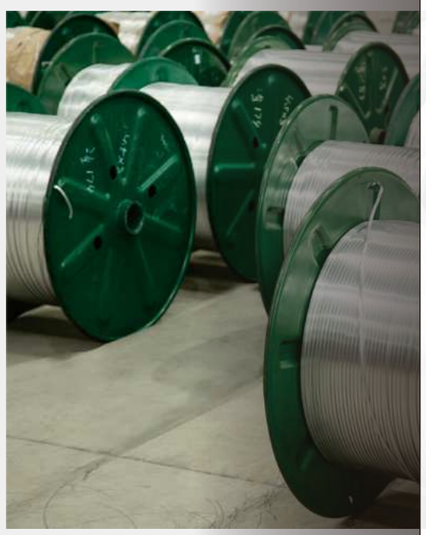
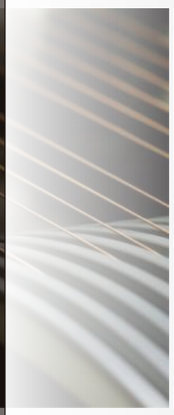
做专，求精，互信，共赢。
Professional, Refinement, Mutual trust and Win-win

Quality Control and Certificates 质量管控及认证

Entire staff participation of inspection and online test equipment to ensure the performance of the magnet wire

Material Suppliers 主要原材料供应商





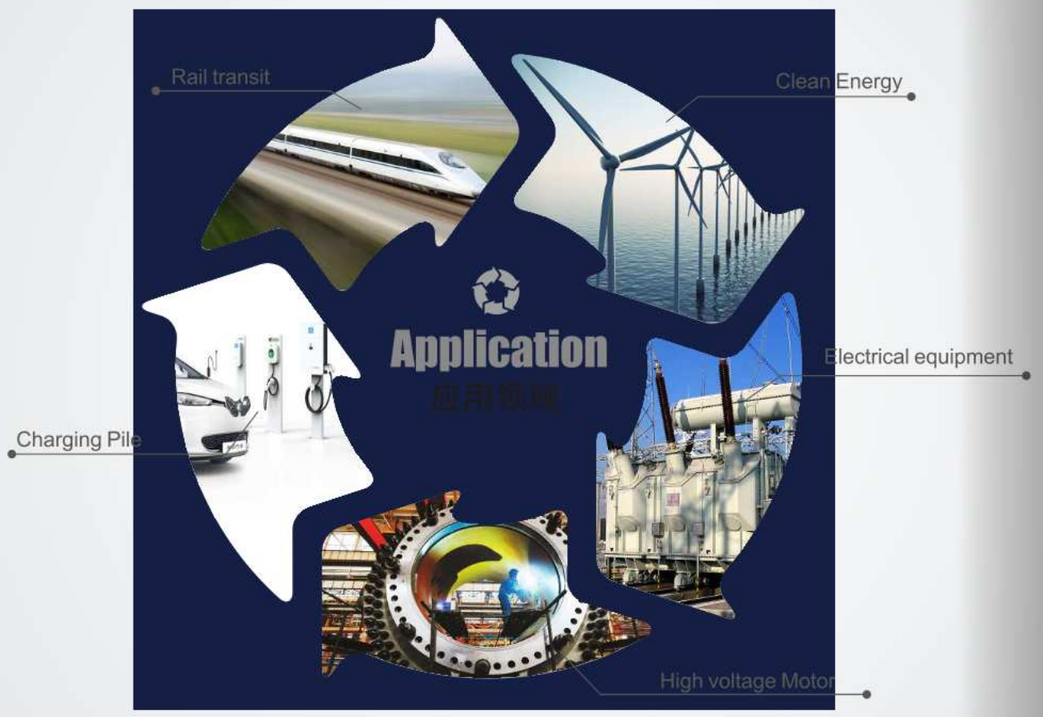
AXALTA · ELANTAS Electrical Insulation · DUPONT · JINCHUAN 金川 · CHALCO 中国铝业

江铜集团 · 玖龍紙業 · IVA 中国 · 梅达 · TSEM

Workshop & Equipment 车间&设备

- ●33 Energy saving enameled wire production lines
- ●35 Intermediate wire drawing machines
- ●4 New-type flat wire machines
- ●4 Breakdown wire drawing machines
- ●13 Fine wire drawing machines
- ●4 New-type high speed extruding machines
- ●24 Finish wire drawing machines
- ●9 Flat wire production devices
- ●4 New-type round wire machines
- ●2 Extrusion machines
- ●4 Oxygen-free rod production lines
- ●4 Rolling mills

Application
应用领域



LP products are mainly used in the application of power transmission and distribution as well as rail transit,
and constantly expands to environment friendly wind power generation,
photovoltaic, medical equipment,
hybrid electric vehicles and other fields

Cooperative partner
合作伙伴

Except for domestic market, LP products are widely exported to Asia-Pacific,
Europe and Americas,
acting as the qualified supplier of ABB, SIEMENS, WEG etc.

LP product

蓝普产品

Enameled Round Wire

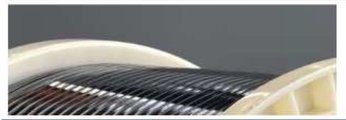
漆包圆线

技术参数
Technical Parameter

Name	Enameled Round Wire	
Conductor	Copper and Aluminum	
Dimension	Copper	0.016 ~ 7.0mm
	Aluminum	0.16 ~ 10.0mm
Thermal Class (°C)	120(Class E), 180(Class H), 200(Class C), 220 (Class C+), 240 (Class HC)	
Insulation thickness	G1, G2, G3	
Certificate	UL	
Standard	IEC,NEMA,GB,JIS	
Packing	Copper	PT-4~PT-200 or ply-wood spool
	Aluminum	PT-15~PT-270 or ply-wood spool
Application	Transformer, motor, generator, modern instrument, welding machine, etc.	

Enameled Rectangular Wire

漆包扁线

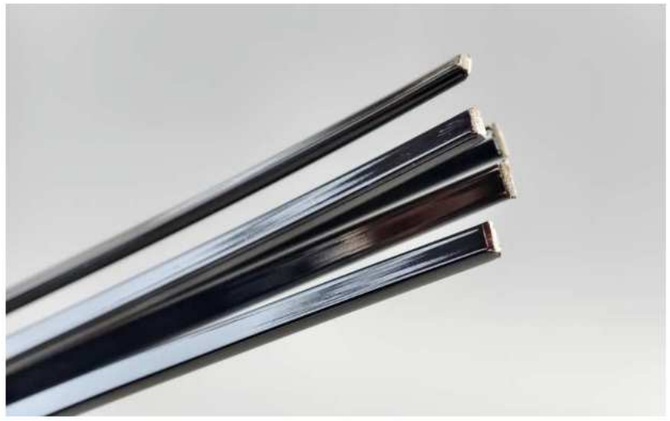


技术参数
Technical Parameter

Name	Enameled Rectangular Wire
Conductor	Copper and Aluminum
Dimension	Copper Thickness(a) 0.3 ~ 10.0mm Width(b) 1.0~22mm
	Aluminum Thickness(a) 0.8 ~ 10.0mm Width(b) 2.0-25mm
Thermal Class (°C)	120(Class E), 180(Class H), 200(Class C), 220 (Class C+), 240 (Class HC)
Insulation thickness	Single, Heavy
Certificate	UL
Standard	IEC,NEMA,GB,JIS
Packing	30kg ~150kg ply-wood spool (250*400 /250*500/ 250*600 / 250*730)
Application	Transformer, motor, generator, modern instrument, welding machine, etc.

Enameled Square Wire

漆包方线

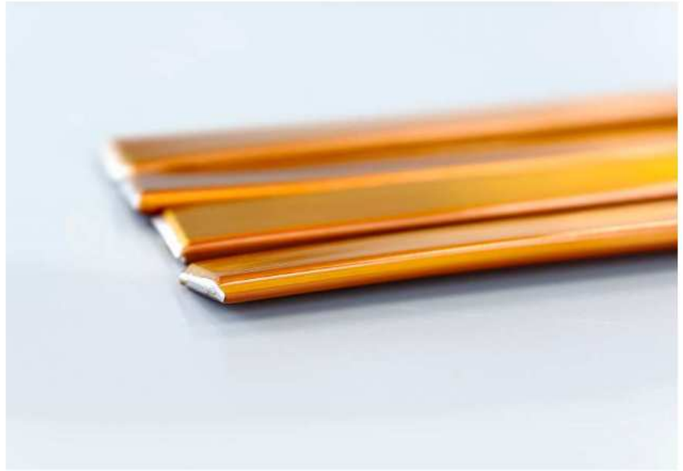


技术参数
Technical Parameter

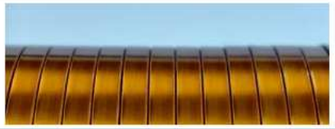
Name	Enameled Square Wire	
Conductor	Copper and Aluminum	
Dimension	Copper	Thickness(Width)/a(b) 0.45-6.0mm
	Aluminum	Thickness(Width)/a(b) 1.2-9.1mm
Thermal class(℃)	180(Class H),200(Class C), 220(Class C+),240(Class HC)	
Insulation thickness	Single, Heavy	
Certificate	UL	
Standard	IEC,NEMA,GB,JIS	
Packing	30kg ~150kg ply-wood spool (250*400/250*500/250*600/250*730)	
Application	Transformer, generator, refrigeration system, Class C generators, UPS power supply, electronic transformer, etc.	

Polyvinyl Acetal Enameled Rectangular Wire

缩醛漆包扁线



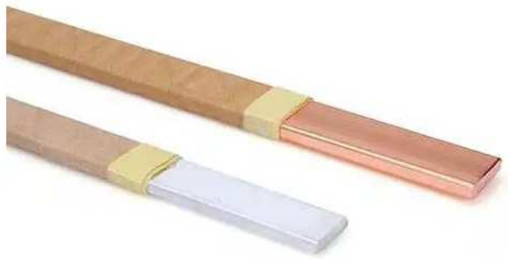
技术参数
Technical Parameter



Name	Polyvinyl Acetal Enameled Rectangular Wire
Conductor	Copper and Aluminum
Dimension	Aluminum Thickness(a) 0.8 ~ 10mm Width(b) 2.0 ~ 25mm
	Copper Thickness(a) 0.3 ~ 10mm Width(b) 1.0 ~ 22mm
Thermal Class (℃)	105(Class A), 120(Class E)
Standard	NEMA MW 18-A,NEMA MW 18-C
Certificate	UL
Insulation Thickness	Heavy, Quad
Application	Oil transformer, oil filled voltage regulator, etc.

Insulated Winding Wire

绕包线



技术参数
Technical Parameter

Name	Insulated Winding Wire	
Conductor	Copper and Aluminum	
Dimension	Round	1.0 ~ 7.0mm
	Rectangular	Thickness(a) 0.9 ~ 10mm Width(b) 3.0 ~ 25mm
Insulation materials	Kraft paper/Thermally upgraded kraft paper / Nomex paper / Polyester film/ Polyimide film	
Insulation thickness	Single,double or according to your requirement	
Standard	IEC,NEMA,GB,JIS	
Packing	30kg~150kg Ply-wood spool (250*500/ 250*600)	
Application	Oil-immersed transformer windings, medium and large electrical motors and power substations, etc.	

Insulated Winding Wire

玻璃丝包线

技术参数
Technical Parameter

Name	Insulation Fiber Glass Winding Wire	
Conductor	Copper and Aluminum wire	
Dimension	Round	1.0 ~ 7.0mm
	Rectangular	Thickness(a) 1.0~ 10.0mm Width(b) 3.0 ~ 35.0mm
Insulation material type	Fiber Glass, Fiber-glass+ Varnish, Fiber-glass+Film,etc	
Insulation thickness	Single, double or according to your requirement	
Standard	IEC,NEMA,GB,JIS	
Packing	30kg~150kg Ply-wood spool (250*500/ 250*600)	
Application	Transformer windings, medium and large electrical motors and power substations, etc.	

Copper Foil / Coil

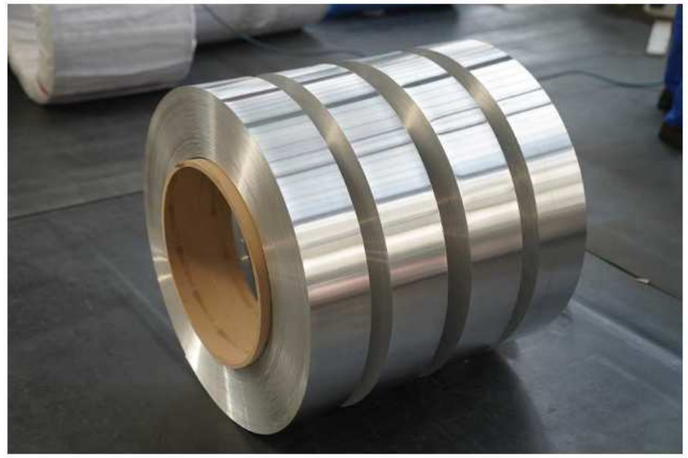
铜带

技术参数
Technical Parameter

Name	Copper Foil/Coil	
Grade	Cu-ETP/C-11000/E-Cu58	
Temper	Soft(O), Hard (H)	
Dimension	Thickness	0.1 ~ 4.0mm
	Width	20 ~ 1500mm
Standard	ASTM, EN 13599,GB-T 18813-2002	
Packing	In coil, inner diameter 300mm, 400mm, 500mm, etc.	
Appication	Winding of transformers, large scale motors, generators and stators, etc.	

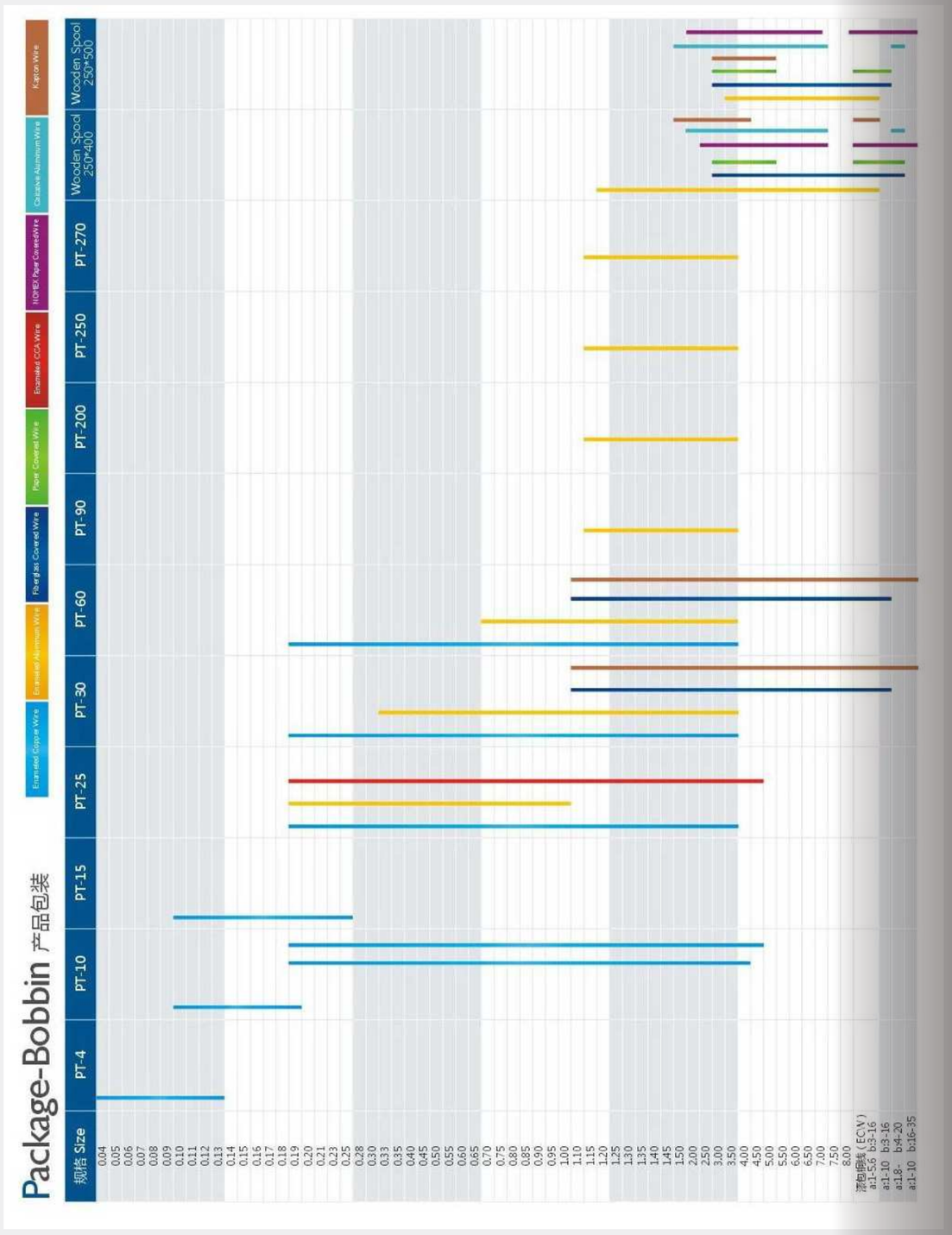
Aluminum Foil / Coil

铝带



技术参数
Technical Parameter

Name	Aluminum foil/coil	
Grade	1050,1060,1070,1350,etc.	
Temper	Soft(O), Hard (H)	
Dimension	Thickness	0.2 ~ 3.0mm
	Width	20 ~ 1500mm
Standard	ASTM, GB/T 3880 2-2006, EN 485-4	
Packing	In coil, inner diameter 300mm, 400mm, 500mm, etc.	
Application	Winding of transformers, large scale motors, generators and stators, etc.	



Technical Data

Specification of Enameled Aluminum Wire-IEC

导体标称直径 Diameter of Conductor (mm)	导体公差 Tolerance of Conductor (mm)	最小绝缘厚度 Mini. Increase Diameter(mm)			最大外径 Max. Finished Overall Diameter(mm)		
		1级 Class One	2级 Class Two	3级 Class Three	1级 Class One	2级 Class Two	3级 Class Three
0.250	±0.004	0.017	0.032	0.048	0.281	0.297	0.312
0.265	±0.004	0.018	0.033	0.050	0.297	0.314	0.330
0.280	±0.004	0.018	0.033	0.050	0.312	0.329	0.345
0.300	±0.004	0.019	0.035	0.053	0.334	0.352	0.369
0.315	±0.004	0.019	0.035	0.053	0.349	0.367	0.384
0.335	±0.004	0.020	0.038	0.057	0.372	0.391	0.408
0.355	±0.004	0.020	0.038	0.057	0.392	0.411	0.428
0.375	±0.005	0.021	0.040	0.060	0.414	0.434	0.453
0.400	±0.005	0.021	0.040	0.060	0.439	0.459	0.478
0.425	±0.005	0.022	0.042	0.064	0.466	0.488	0.508
0.450	±0.005	0.022	0.042	0.064	0.491	0.513	0.533
0.475	±0.005	0.024	0.045	0.067	0.519	0.541	0.562
0.500	±0.005	0.024	0.045	0.067	0.544	0.566	0.587
0.530	±0.006	0.025	0.047	0.071	0.576	0.600	0.623
0.560	±0.006	0.025	0.047	0.071	0.606	0.630	0.653
0.600	±0.006	0.027	0.050	0.075	0.649	0.674	0.698
0.630	±0.006	0.027	0.050	0.075	0.679	0.704	0.728
0.670	±0.007	0.028	0.053	0.080	0.722	0.749	0.774
0.710	±0.007	0.028	0.053	0.080	0.762	0.789	0.814
0.750	±0.008	0.030	0.056	0.085	0.805	0.834	0.861
0.800	±0.008	0.030	0.056	0.085	0.855	0.884	0.911
0.850	±0.009	0.032	0.060	0.090	0.909	0.939	0.968
0.900	±0.009	0.032	0.060	0.090	0.959	0.989	1.018
0.950	±0.010	0.034	0.063	0.095	1.012	1.044	1.074
1.000	±0.010	0.034	0.063	0.095	1.062	1.094	1.124
1.060	±0.011	0.034	0.065	0.098	1.124	1.157	1.188
1.120	±0.011	0.034	0.065	0.098	1.184	1.217	1.248
1.180	±0.012	0.035	0.067	0.100	1.246	1.279	1.311
1.250	±0.013	0.035	0.067	0.100	1.316	1.349	1.381
1.320	±0.013	0.036	0.069	0.103	1.388	1.422	1.455
1.400	±0.014	0.036	0.069	0.103	1.468	1.502	1.535
1.500	±0.015	0.038	0.071	0.107	1.570	1.606	1.640
1.600	±0.016	0.038	0.071	0.107	1.670	1.706	1.740
1.700	±0.017	0.039	0.073	0.110	1.772	1.809	1.844
1.800	±0.018	0.039	0.073	0.110	1.872	1.909	1.944
1.900	±0.019	0.040	0.075	0.113	1.974	2.012	2.048
2.000	±0.020	0.040	0.075	0.113	2.074	2.112	2.148
2.120	±0.021	0.041	0.075	0.116	2.196	2.235	2.272
2.240	±0.022	0.041	0.077	0.116	2.316	2.355	2.392
2.360	±0.024	0.042	0.079	0.119	2.438	2.478	2.516
2.500	±0.025	0.042	0.079	0.119	2.578	2.618	2.656
2.650	±0.027	0.043	0.081	0.123	2.730	2.772	2.811
2.800	±0.028	0.043	0.081	0.123	2.880	2.922	2.961
3.000	±0.030	0.045	0.084	0.127	3.083	3.126	3.166
3.150	±0.032	0.045	0.084	0.127	3.233	3.276	3.316
3.350	±0.034	0.046	0.086	0.130	3.435	3.479	3.521
3.550	±0.036	0.046	0.086	0.130	3.635	3.679	3.721
3.750	±0.038	0.047	0.089	0.134	3.838	3.883	3.926
4.000	±0.040	0.047	0.089	0.134	4.088	4.133	4.176
4.250	±0.043	0.049	0.092	0.138	4.341	4.387	4.431
4.500	±0.045	0.049	0.092	0.138	4.591	4.637	4.681
4.750	±0.048	0.050	0.094	0.142	4.843	4.891	4.936
5.000	±0.005	0.050	0.094	0.142	5.093	5.141	5.186

Technical Data

Specification of Enameled Copper Wire-IEC

导体标称直径 Diameter of Conductor (mm)	导体公差 Tolerance of Conductor (mm)	最小绝缘厚度 Mini. Increase Diameter(mm)			最大外径 Max. Finished Overall Diameter(mm)		
		1级 Class One	2级 Class Two	3级 Class Three	1级 Class One	2级 Class Two	3级 Class Three
0.018		0.002	0.004		0.022	0.024	
0.019		0.002	0.004		0.023	0.026	
0.02		0.002	0.004		0.024	0.027	
0.021		0.002	0.004		0.026	0.028	
0.022		0.002	0.005		0.027	0.03	
0.024		0.002	0.005		0.029	0.032	
0.025		0.003	0.005		0.031	0.034	
0.027		0.003	0.005		0.033	0.036	
0.028		0.003	0.006		0.034	0.038	
0.03		0.003	0.006		0.037	0.041	
0.032		0.003	0.007		0.039	0.046	
0.034		0.003	0.006		0.041	0.043	
0.036		0.004	0.008		0.044	0.049	
0.038		0.004	0.008		0.046	0.051	
0.04		0.004	0.008		0.049	0.054	
0.043		0.004	0.009		0.052	0.058	
0.045		0.005	0.01		0.055	0.061	
0.048		0.005	0.01		0.059	0.065	
0.05		0.005	0.01		0.06	0.066	
0.053		0.005	0.011		0.064	0.07	
0.056		0.006	0.011		0.067	0.074	
0.06		0.006	0.012		0.072	0.079	
0.063		0.006	0.012		0.076	0.083	
0.067	0.003	0.007	0.012	0.018	0.08	0.088	
0.071	0.003	0.007	0.012	0.018	0.084	0.091	0.097
0.075	0.003	0.007	0.014	0.02	0.089	0.095	0.102
0.08	0.003	0.007	0.014	0.02	0.094	0.101	0.108
0.085	0.003	0.008	0.015	0.022	0.1	0.107	0.114
0.09	0.003	0.008	0.015	0.022	0.105	0.113	0.12
0.095	0.003	0.008	0.016	0.023	0.111	0.119	0.126
0.1	0.003	0.008	0.016	0.023	0.117	0.125	0.132
0.106	0.003	0.009	0.017	0.026	0.123	0.132	0.14
0.112	0.003	0.009	0.017	0.026	0.13	0.139	0.147
0.118	0.003	0.01	0.019	0.028	0.136	0.145	0.154
0.125	0.003	0.01	0.019	0.028	0.144	0.154	0.163
0.132	0.003	0.011	0.021	0.03	0.152	0.162	0.171
0.14	0.003	0.011	0.021	0.03	0.16	0.171	0.181
0.15	0.003	0.012	0.023	0.033	0.171	0.182	0.193
0.16	0.003	0.012	0.023	0.033	0.182	0.194	0.205
0.17	0.003	0.013	0.025	0.036	0.194	0.205	0.217
0.18	0.003	0.013	0.025	0.036	0.204	0.217	0.229
0.19	0.003	0.014	0.027	0.039	0.216	0.228	0.24
0.2	0.003	0.014	0.027	0.039	0.226	0.239	0.252
0.212	0.003	0.015	0.029	0.043	0.24	0.254	0.268
0.224	0.003	0.015	0.029	0.043	0.252	0.266	0.28
0.236	0.004	0.017	0.032	0.048	0.267	0.283	0.298
0.25	0.004	0.017	0.032	0.048	0.281	0.297	0.312
0.265	0.004	0.018	0.033	0.05	0.297	0.314	0.33
0.28	0.004	0.018	0.033	0.05	0.312	0.329	0.345
0.3	0.004	0.019	0.035	0.053	0.334	0.352	0.369

Technical Data

Specification of Enameled Copper Wire-IEC

导体标称直径 Diameter of Conductor (mm)	导体公差 Tolerance of Conductor (mm)	最小绝缘厚度 Mini. Increase Diameter(mm)			最大外径 Max. Finished Overall Diameter(mm)		
		1级 Class One	2级 Class Two	3级 Class Three	1级 Class One	2级 Class Two	3级 Class Three
0.315	0.004	0.019	0.035	0.053	0.349	0.367	0.384
0.335	0.004	0.02	0.038	0.057	0.372	0.391	0.408
0.355	0.004	0.02	0.038	0.057	0.392	0.411	0.428
0.375	0.005	0.021	0.04	0.06	0.414	0.434	0.453
0.4	0.005	0.021	0.04	0.06	0.439	0.459	0.478
0.425	0.005	0.022	0.042	0.064	0.466	0.488	0.508
0.45	0.005	0.022	0.042	0.064	0.491	0.513	0.533
0.475	0.005	0.024	0.045	0.067	0.519	0.541	0.562
0.5	0.005	0.024	0.045	0.067	0.544	0.566	0.587
0.53	0.006	0.025	0.047	0.071	0.576	0.6	0.623
0.56	0.006	0.025	0.047	0.071	0.606	0.63	0.653
0.6	0.006	0.027	0.05	0.075	0.649	0.674	0.698
0.63	0.006	0.027	0.05	0.075	0.679	0.704	0.774
0.67	0.007	0.028	0.053	0.08	0.722	0.749	0.728
0.71	0.007	0.028	0.053	0.08	0.762	0.789	0.814
0.75	0.008	0.03	0.056	0.085	0.805	0.834	0.861
0.8	0.008	0.03	0.056	0.085	0.855	0.884	0.911
0.85	0.009	0.032	0.06	0.09	0.909	0.939	0.968
0.9	0.009	0.032	0.06	0.09	0.959	0.989	1.018
0.95	0.01	0.034	0.063	0.095	1.012	1.044	1.074
1	0.01	0.034	0.063	0.095	1.062	1.094	1.124
1.06	0.011	0.034	0.065	0.098	1.124	1.157	1.188
1.12	0.011	0.034	0.065	0.098	1.184	1.217	1.248
1.18	0.012	0.035	0.067	0.1	1.246	1.279	1.311
1.25	0.013	0.035	0.067	0.1	1.316	1.349	1.381
1.32	0.013	0.036	0.069	0.103	1.388	1.422	1.455
1.4	0.014	0.036	0.069	0.103	1.468	1.502	1.535
1.5	0.015	0.038	0.071	0.107	1.57	1.606	1.64
1.6	0.016	0.038	0.071	0.107	1.67	1.706	1.74
1.7	0.017	0.039	0.073	0.11	1.772	1.809	1.844
1.8	0.018	0.039	0.073	0.11	1.872	1.909	1.944
1.9	0.019	0.04	0.075	0.113	1.974	2.012	2.048
2	0.02	0.04	0.075	0.113	2.074	2.112	2.148
2.12	0.021	0.041	0.075	0.116	2.196	2.235	2.272
2.24	0.022	0.041	0.077	0.116	2.316	2.355	2.392
2.36	0.024	0.042	0.079	0.119	2.438	2.478	2.516
2.5	0.025	0.042	0.079	0.119	2.578	2.618	2.656
2.65	0.027	0.043	0.081	0.123	2.73	2.772	2.811
2.8	0.028	0.043	0.081	0.123	2.88	2.922	3.166
3	0.03	0.045	0.084	0.127	3.083	3.126	2.961
3.15	0.032	0.045	0.084	0.127	3.233	3.276	3.316
3.35	0.034	0.046	0.086	0.13	3.435	3.479	3.521
3.55	0.036	0.046	0.086	0.13	3.635	3.679	3.721
3.75	0.038	0.047	0.089	0.134	3.838	3.883	3.926
4	0.04	0.047	0.089	0.134	4.088	4.133	4.176
4.25	0.043	0.049	0.092	0.138	4.341	4.387	4.431
4.5	0.045	0.049	0.092	0.138	4.591	4.637	4.681
4.75	0.048	0.05	0.094	0.142	4.843	4.891	4.936
5	0.05	0.05	0.094	0.142	5.093	5.141	5.188

Technical Data

Specification of Enameled Copper/Aluminum Wire-NEMA-(mm)

线规 [AWG]	导体直径 Diameter of Conductor			薄漆膜 Single Build		厚漆膜 Heavy Build		加厚漆膜 Triple Build		线规 [AWG]
	最小直径 Mini	标称直径 Normal	最大直径 Max	最小厚度 Mini. Increase	最大外径 Max. Finished Overall Diameter	最小厚度 Mini. Increase	最大外径 Max. Finished Overall Diameter	最小厚度 Mini. Increase	最大外径 MaxFinished Overall Diameter	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	
56	0.0119	0.0124	0.0130	0.0013	0.0165	0.0025	0.0206			56
55	0.0135	0.0140	0.0145	0.0013	0.0178	0.0025	0.0221			55
54	0.0152	0.0157	0.0165	0.0013	0.0191	0.0025	0.0241			54
53	0.0170	0.0178	0.0185	0.0013	0.0216	0.0025	0.0262			53
52	0.0191	0.0198	0.0206	0.0025	0.0254	0.0051	0.0292	0.0076	0.0356	52
51	0.0216	0.0224	0.0234	0.0025	0.0279	0.0051	0.0330	0.0076	0.0381	51
50	0.0241	0.0251	0.0262	0.0025	0.0305	0.0051	0.0356	0.0076	0.0406	50
49	0.0272	0.0282	0.0295	0.0025	0.0330	0.0051	0.0381	0.0089	0.0432	49
48	0.0302	0.0315	0.0328	0.0025	0.0381	0.0051	0.0432	0.0102	0.0483	48
47	0.0343	0.0356	0.0371	0.0025	0.0432	0.0076	0.0483	0.0127	0.0533	47
46	0.0384	0.0399	0.0417	0.0025	0.0470	0.0076	0.0533	0.014	0.0597	46
45	0.0429	0.0447	0.0464	0.0025	0.0521	0.0076	0.0584	0.014	0.0648	45
44	0.048	0.051	0.053	0.005	0.320	0.010	0.069	0.015	0.074	44
43	0.053	0.056	0.058	0.005	0.066	0.010	0.074	0.015	0.081	43
42	0.061	0.064	0.066	0.005	0.076	0.010	0.081	0.018	0.089	42
41	0.069	0.071	0.074	0.005	0.084	0.013	0.091	0.018	0.099	41
40	0.076	0.079	0.081	0.005	0.094	0.015	0.102	0.020	0.109	40
39	0.086	0.089	0.091	0.005	0.104	0.015	0.114	0.020	0.122	39
38	0.099	0.102	0.104	0.008	0.119	0.018	0.130	0.023	0.137	38
37	0.112	0.114	0.117	0.008	0.132	0.020	0.145	0.025	0.152	37
36	0.124	0.127	0.130	0.010	0.147	0.020	0.160	0.028	0.170	36
35	0.140	0.142	0.145	0.010	0.163	0.023	0.178	0.030	0.188	35
34	0.157	0.160	0.163	0.013	0.183	0.025	0.198	0.033	0.208	34
33	0.178	0.180	0.183	0.013	0.206	0.029	0.224	0.036	0.234	33
32	0.201	0.203	0.206	0.015	0.231	0.030	0.249	0.041	0.262	32
31	0.224	0.226	0.229	0.015	0.254	0.033	0.274	0.043	0.290	31
30	0.251	0.254	0.257	0.018	0.284	0.036	0.302	0.053	0.325	30
29	0.284	0.287	0.290	0.018	0.061	0.038	0.338	0.056	0.358	29

线规 [AWG]	导体直径 Diameter of Conductor			薄漆膜 Single Build		厚漆膜 Heavy Build		加厚漆膜 Triple Build		线规 [AWG]
	最小直径 Mini.	标称直径 Normal	最大直径 Max.	最小厚度 Mini. Increase	最大外径 Max. Finished Overall Diameter	最小厚度 Mini. Increase	最大外径 Max. Finished Overall Diameter	最小厚度 Mini. Increase	最大外径 MaxFinished Overall Diameter	
	mm	mm	mm	mm	mm	mm	mm	mm	mm	
28	0.318	0.320	0.323	0.020	0.356	0.041	0.373	0.058	0.394	28
27	0.358	0.361	0.363	0.020	0.396	0.041	0.417	0.061	0.439	27
26	0.399	0.404	0.409	0.023	0.439	0.043	0.462	0.066	0.485	26
25	0.450	0.455	0.460	0.023	0.493	0.046	0.516	0.069	0.538	25
24	0.505	0.511	0.516	0.025	0.551	0.048	0.577	0.074	0.599	24
23	0.569	0.574	0.579	0.025	0.617	0.051	0.643	0.076	0.668	23
22	0.635	0.643	0.650	0.028	0.686	0.053	0.714	0.081	0.742	22
21	0.716	0.724	0.732	0.028	0.770	0.056	0.800	0.086	0.082	21
20	0.805	0.813	0.820	0.030	0.864	0.061	0.892	0.089	0.922	20
19	0.902	0.912	0.922	0.030	0.963	0.064	0.993	0.094	1.026	19
18	1.013	1.024	1.034	0.033	1.077	0.066	1.110	0.099	1.143	18
17	1.138	1.151	1.163	0.036	1.207	0.071	1.240	0.104	1.275	17
16	1.278	1.290	1.303	0.036	1.349	0.074	1.384	0.109	1.422	16
15	1.435	1.450	1.466	0.038	1.509	0.076	1.549	0.117	1.588	15
14	1.613	1.628	1.643	0.041	1.692	0.081	1.732	0.122	1.773	14
13	1.811	1.829	1.847			0.081	1.935			13
12	2.032	2.052	2.073			0.081	2.159			12
11	2.281	2.304	2.327			0.084	2.416			11
10	2.563	2.588	2.614			0.086	2.703			10
9	2.878	2.906	2.934			0.086	3.023			9
8	3.231	3.264	3.297			0.089	3.383			8
7	3.630	3.665	3.701			0.089	3.787			7
6	4.074	4.115	4.155			0.091	4.244			6
5	4.575	4.620	4.666			0.094	4.755			5
4	5.138	5.189	5.240			0.094	5.329			4
3	5.768	5.827	5.885							3
2	6.477	6.543	6.609							2
1	7.275	7.348	7.422							1

Technical Data

Specification of Enameled Copper/Aluminum Wire-NEMA-(mm)

Technical Data

Specification of Enameled Copper/Aluminum Wire-NEMA-(inch)

线规 [AWG]	导体直径 Diameter of Conductor			薄漆膜 Single Build		厚漆膜 Heavy Build		加厚漆膜 Triple Build		线规 [AWG]
	最小直径 Mini.	标称直径 Normal	最大直径 Max.	最小厚度 Mini. Increase	最大外径 Max. Finished Overall Diameter	最小厚度 Mini. Increase	最大外径 Max. Finished Overall Diameter	最小厚度 Mini. Increase	最大外径 MaxFinished Overall Diameter	
	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch	
56	0.00047	0.00049	0.00051	0.00005	0.00065	0.0001	0.00081			56
55	0.00053	0.00055	0.00057	0.00005	0.0007	0.0001	0.00087			55
54	0.0006	0.00062	0.00065	0.00005	0.00075	0.0001	0.00095			54
53	0.00067	0.0007	0.00073	0.00005	0.00085	0.0001	0.00103			53
52	0.00075	0.00078	0.00081	0.0001	0.001	0.0002	0.00115	0.0003	0.0014	52
51	0.00085	0.00088	0.00092	0.0001	0.0011	0.0002	0.0013	0.0003	0.0015	51
50	0.00095	0.00099	0.00103	0.0001	0.0012	0.0002	0.0014	0.0003	0.0016	50
49	0.00107	0.00111	0.00116	0.0001	0.0013	0.0002	0.0015	0.0004	0.0017	49
48	0.00119	0.00124	0.00129	0.0001	0.0015	0.0002	0.0017	0.0004	0.0019	48
47	0.00135	0.0014	0.00146	0.0001	0.0017	0.0003	0.0019	0.0005	0.0021	47
46	0.00151	0.00157	0.00164	0.0001	0.00185	0.0006	0.0021	0.0006	0.00235	46
45	0.00169	0.00176	0.00183	0.0001	0.00205	0.0003	0.0023	0.0006	0.00255	45
44	0.0019	0.002	0.0021	0.0002	0.0024	0.0004	0.0027	0.0006	0.0029	44
43	0.0021	0.0022	0.0023	0.0002	0.0026	0.0004	0.0029	0.0006	0.0032	43
42	0.0024	0.0025	0.0026	0.0002	0.003	0.0004	0.0032	0.0007	0.0035	42
41	0.0027	0.0028	0.0029	0.0002	0.0033	0.0005	0.0036	0.0007	0.0039	41
40	0.003	0.0031	0.0032	0.0002	0.0037	0.0006	0.004	0.0008	0.0043	40
39	0.0034	0.0035	0.0036	0.0002	0.0041	0.0006	0.0045	0.0008	0.0048	39
38	0.0039	0.004	0.0041	0.0003	0.0047	0.0007	0.0051	0.0009	0.0054	38
37	0.0044	0.0045	0.0046	0.0003	0.0052	0.0008	0.0057	0.001	0.006	37
36	0.0049	0.005	0.0051	0.0004	0.0058	0.0008	0.0063	0.0011	0.0067	36
35	0.0055	0.0056	0.0057	0.0004	0.0064	0.0009	0.007	0.0012	0.0074	35
34	0.0062	0.0063	0.0064	0.0005	0.0072	0.001	0.0078	0.0013	0.0082	34
33	0.007	0.0071	0.0072	0.0005	0.0081	0.0011	0.0088	0.0014	0.0092	33
32	0.0079	0.008	0.0081	0.0006	0.0091	0.0012	0.0098	0.0016	0.0103	32
31	0.0088	0.0089	0.009	0.0006	0.01	0.0013	0.0108	0.0017	0.0114	31
30	0.0099	0.01	0.0101	0.0007	0.0112	0.0014	0.0119	0.0021	0.0128	30
29	0.0112	0.0113	0.0114	0.0007	0.0126	0.0015	0.0133	0.0022	0.0141	29

线规 [AWG]	导体直径 Diameter of Conductor			薄漆膜 Single Build		厚漆膜 Heavy Build		加厚漆膜 Triple Build		线规 [AWG]
	最小直径 Mini	标称直径 Normal	最大直径 Max	最小厚度 Mini. Increase	最大外径 Max. Finished Overall Diameter	最小厚度 Mini. Increase	最大外径 Max. Finished Overall Diameter	最小厚度 Mini. Increase	最大外径 MaxFinished Overall Diameter	
	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch	Inch	
28	0.0125	0.0126	0.0127	0.0008	0.014	0.0016	0.0147	0.0023	0.0155	28
27	0.0141	0.0142	0.0143	0.0008	0.0156	0.0016	0.0164	0.0024	0.0173	27
26	0.0157	0.0159	0.0161	0.0009	0.0173	0.0017	0.0182	0.0026	0.0191	26
25	0.0177	0.0179	0.0181	0.0009	0.0194	0.0018	0.0203	0.0027	0.0212	25
24	0.0199	0.0201	0.0203	0.001	0.0217	0.0019	0.0227	0.0029	0.0236	24
23	0.0224	0.0226	0.0228	0.001	0.0243	0.02	0.0253	0.003	0.0263	23
22	0.025	0.0253	0.0256	0.0011	0.027	0.0021	0.0281	0.0032	0.0292	22
21	0.0282	0.0285	0.0288	0.0011	0.0303	0.0022	0.0315	0.0034	0.0326	21
20	0.0317	0.032	0.0323	0.0012	0.034	0.0024	0.0351	0.0035	0.0363	20
19	0.0355	0.0359	0.0363	0.0012	0.0379	0.0025	0.0391	0.0037	0.0404	19
18	0.0399	0.0403	0.0407	0.0013	0.0424	0.0026	0.0437	0.0039	0.045	18
17	0.0448	0.0453	0.0458	0.0014	0.0475	0.0028	0.0488	0.0041	0.0502	17
16	0.0503	0.0508	0.0513	0.0014	0.0531	0.0829	0.0545	0.0843	0.056	16
15	0.0565	0.0571	0.0577	0.0815	0.0594	0.083	0.061	0.0046	0.0625	15
14	0.0835	0.0041	0.0647	0.0816	0.0666	0.0032	0.0882	0.0848	0.0898	14
13	0.0713	0.072	0.0727			0.0032	0.0762			13
12	0.08	0.0808	0.0815			0.0032	0.085			12
11	0.0898	0.0907	0.0915			0.0033	0.0951			11
10	0.1009	0.1019	0.1027			0.0034	0.1064			10
9	0.1133	0.1144	0.1153			0.0034	0.119			9
8	0.1272	0.1285	0.1294			0.0035	0.1332			8
7	0.1429	0.1443	0.1453			0.0035	0.1491			7
6	0.1604	0.162	0.1632			0.0036	0.1671			6
5	0.1801	0.1819	0.1832			0.0037	0.1872			5
4	0.2023	0.2043	0.2058			0.0037	0.2098			4
3	0.2271	0.2294	0.2317							3
2	0.255	0.2576	0.2602							2
1	0.2864	0.2893	0.2922							1

Technical Data

Specification of Enameled Copper/Aluminum Wire-NEMA-(inch)