



一致、完美、持续、贡献…

*Consistency Perfection
Persistency Contribution*



白银一致长通超微线材有限公司

BAIYIN YIZHI CHANGTONG SUPER MICRO-WIRE CO.,LTD.

珠海分公司

ZHUHAI BRANCH

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一致长通
YIZHI CHANGTONG



营销中心拥用2,000平方仓库，依托粤港澳大湾区的地理优势，辐射东南亚及其它海外市场。同时在浙江宁波、山东青岛设置办事处和仓库，更好地服务长三角区域和环渤海区域市场。

我们会一直秉承『以客户为中心，与市场零距离』的服务理念，为客户提供真诚，优质，高效的服务。

The Marketing Center has 2,000 square meters warehouse. Taking advantage of its strategic location within the Guangdong-Hongkong-Macao bay area, it's easy for us to cover the sales to southeast Asia area and overseas market as well. In addition to that, wetting up regional offices & warehouses in Ningbo and Qingdao, makes it more convenient to serve the Yangtze River Delta market and Bohai Rim market.

Our service philosophy is Customer-centered, Zero-distance-to-market. We will always serving our clients with sincere, superior and highly efficient service.

About Us

公司简介

一致长通，中国五百强白银有色集团旗下（股票代码601212）长通线缆控股子公司，在白银设有大型生产基地，在珠海成立分公司，设置营销中心和研发中心。以研发引领市场，以市场带动生产，凭借白银有色强大的综合实力以及『一致』品牌的技术优势，一致长通已成为国内最大的微细及特种漆包线生产基地。

Yizhi Changtong is a holding subsidiary of Changtong Wire & Cable, who is a wholly-owned subsidiary of China Top 500 enterprises Baiyin Non-ferrous Group (Stock no. 601212). The manufacturing base is in Baiyin city, and the Zhuhai Branch Office has a Marketing Center and a R&D Center. Yizhi Changtong is leading the market by its superior R&D capability, the market leadership in turn powered the manufacturing. Yizhi Changtong is growing into China's largest manufacturing center of ultra-fine wires and special enameled wires based on the comprehensive strength of Baiyin Non-ferrous Group combined with the well-known of Yizhi brand plus its technical expertise.





公司具备高水平的漆包线机械性能分析、电性能分析、耐热性能分析、耐化学分析、应用分析的能力及其它性能分析的能力。公司的生产设备配置激光测径仪进行在线实时检测，实现漆包线的在线质量控制，使漆包线的质量管控有了质的飞跃。同时公司建立在线程序监控系统，对所有工艺参数及控制节点进行程序监控，实现质量 控的信息化及智能化。也为工艺数据的收集与分析，工艺标准的制定与改进，产品的各项性能的动态分析提供了理想的平台。

We are able to analyze the mechanical property, electrical property, heat resistance property, chemical resistance property and other physical properties of enameled copper wires. Our Laser Micrometer Gauge devices are measuring the enameled copper wires being made in the production lines on-time, which makes in-line quality control a reality and a big step forward in quality control. At the same time, our surveillance software is monitoring all the manufacturing specifications and control points on our enamel machines, and it makes quality control going digital and smart. Further more, the software turns into an ideal platform in collecting & analyzing manufacturing data, setting up and improving manufacturing standards, and dynamically analyzing wire properties.

Quality Certification

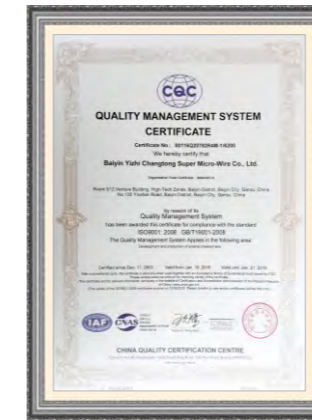
质量认证



公司通过ISO 9001, ISO 14001, OHSAS 18001, IATF 16949 认证。我们的产品有UL认证,并符合RoHS和REACH指令的要求。

We are ISO 9001, ISO 14001, OHSAS 18001, IATF 16949 certified.

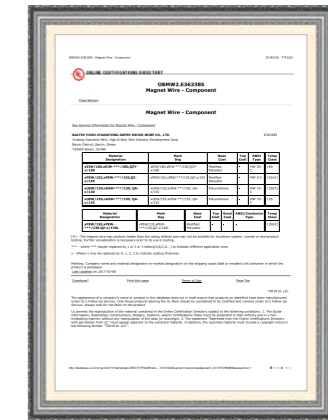
Our wires are UL registered, and are compliant with RoHS / REACH directives.



ISO9001



ISO14001



UL 认证



RoHS检测报告



REACH检测报告



IATF 16949

產品類別 PRODUCT TYPE

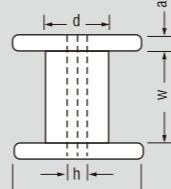
名稱 Description	130級聚氨酯漆包銅圓綫 Polyurethane Enamelled Round Copper Wire, Class 130	155級聚氨酯漆包銅圓綫 Polyurethane Enamelled Round Copper Wire, Class 155	180級聚氨酯漆包銅圓綫 Polyurethane Enamelled Round Copper Wire, Class 180	超微細漆包銅圓綫 Ultra-fine Enamelled Round Copper Wire
型號 Type	UEW/130 [QA/130]	UEW/155 [QA/155]	UEW/180 [QA/180]	客戶定制型號 Custom-made
規格 Size (mm)	0.020~1.000	0.020~1.000	0.020~1.000	0.012~0.019
溫度指數 Thermal Class(°C)	130	155	180	按客戶要求定制 As per Customer Requirements
軟化擊穿 Cut Through Temperature(°C)	170	200	230	
熱衝 Heat Shock(°C)	155	175	200	按客戶要求定制 As per Customer Requirements
焊錫溫度 Solderability Temperature(°C)	375 ± 5	390 ± 5	390 ± 5	
適用標準 Applicable Standards	IEC60317-4 NEMA MW 75C JIS 3202	IEC 60317-20 NEMA MW 79C JIS 3202	IEC 60317-51 NEMA MW 82C JIS 3202	IEC 60317 NEMA 1000 JIS 3202
特性 Properties	直焊性; 容易染色 耐潮; 針孔性能優良 適用於高繞綫 Solderability; Dyeability Moisture Resistance; Limited Pinholes Low Dielectric Loss in High Frequency Suitable for High Speed Winding			容易染色; 耐潮 針孔性能優良 高頻下低介質損耗 適用於高速繞綫 Dyeability; Moisture Proof Limited Pinholes Low Dielectric Loss in High Frequency Suitable for High Speed Winding
應用 Applications	微型變壓器 綫性馬達 繼電器、螺綫管 微型電機、鐘表綫圈 磁頭、儀表綫圈 Micro transformer linear motor, relays, solenoid, micro motors, watch coils, magnet head, instruments coils	微型電機 微型變壓器 汽車用綫圈 Micro motors Transformers Automobile coils	微型電機 微型變壓器 汽車用綫圈 Micro motors Transformers Automobile coils	按客戶應用 As per Customer Application

155級聚酯漆包銅圓綫 Polyester Enamelled Round Copper Wire, Class 155	180級聚酯亞胺漆包銅圓綫 Polyester-imide Enamelled Round Copper Wire, Class 180	180級可焊聚酯亞胺漆包銅圓綫 Solderable Polyester-imide Enamelled Round Copper Wire, Class 180	200級聚酰胺酰亞胺復合聚酯亞胺漆包銅圓綫 Polyester-imide Overcoated with Polyamide-imide Enamelled Round Copper Wire, Class 200	220級聚酰胺酰亞胺漆包銅圓綫 Polyamide-imide Enamelled Round Copper Wire, Class 220
PEW/155 [QZ/155]	EIW/180 [QZY/180]	SEIW/180 [QZYH/180]	EI/AIW200 [Q (ZY/XY) 200]	AIW220 [QXY220]
0.020~1.000	0.020~1.000	0.020~1.000	0.020~1.000	0.020~1.000
155	180	180	200	220
270	300	265	320	350
175	200	200	220	240
不適用 Not solderable	不適用 Not solderable	490 ± 5	不適用 Not solderable	不適用 Not solderable
IEC 60317-3 NEMA MW 5C JIS 3202	IEC 60317-8 NEMA MW 30C JIS 3202	IEC 60317-23 NEMA MW 77C JIS 3202	IEC 60317-13 MW 35C 73C JIS 3202	IEC 60317-26 MW 81C JIS 3202
優良的耐化學品性 耐刮性較好 耐水解性不佳 Excellent chemical resistance Good abrasion resistance Poor hydrolytic resistance	耐熱性能高 優良的抗化學品性 高熱衝 高軟化擊穿 Heat-resistant Excellent chemical resistance High heat shock temp. High cut-through temp.	高溫下可焊 耐熱性能高 優良的抗化學品性 Solderable at high temp. Heat resistance Excellent chemical resistance	高耐熱性 熱穩定性 耐冷冷媒 高軟化擊穿 高熱衝 High temperature resistance Thermal stability Coolant resistance High cut-through temp. High heat shock temp.	高耐熱性 熱穩定性 耐冷冷媒 高軟化擊穿 高熱衝 High temperature resistance Thermal stability Coolant resistance High cut-through temp. High heat shock temp.
普通電機 中型變壓器 Motors Medium-sized transformer	油浸變壓器 小型電機 高功率馬達 耐高溫變壓器 耐熱元氣件 Oil immersed transformer Small motors High power motor High temperature resistance transformer Heat resistance component	小型電機 高功率馬達 耐熱元氣件 電磁綫圈 Small motors High power motor Heat resistance component Solenoid coil	油浸變壓器 高功率馬達 耐高溫變壓器 耐熱元氣件 密封電機 Oil immersed transformer High power motor High temperature resistance transformer Heat resistance component Sealed motor	油浸變壓器 高功率馬達 耐高溫變壓器 耐熱元氣件 密封電機 Oil immersed transformer High power motor High temperature resistance transformer Heat resistance component Sealed motor

非自粘漆包圓銅綫數據 NON-BONDING ENAMELED ROUND COPPER WIRE DATA SHEET

Nominal Diameter 標稱直徑 mm	Tolerance 極限偏差	Class 3 3種		Class 2 2種		Class 1 1種		Class 0 0種		Class 3 3種		Class 2 2種		Class 1 1種		Class 0 0種		Class 3 3種		Class 2 2種		Class 1 1種		Class 0 0種		Resistance 電阻		Nominal Diameter 標稱直徑 mm		
		Min. Insu. 最小漆膜	Max. Overall 最大外徑	Min. Insu. 最小漆膜	Max. Overall 最大外徑	Min. Insu. 最小漆膜	Max. Overall 最大外徑	Min. Insu. 最小漆膜	Max. Overall 最大外徑	Min. Insu. 最小漆膜	Max. Overall 最大外徑	Cyl. 圓棒法	Twist 扭絞法	Cyl. 圓棒法	Twist 扭絞法	Cyl. 圓棒法	Twist 扭絞法	Cyl. 圓棒法	Twist 扭絞法	Elongation 伸長率 ≥%	Pinhole 鹽水針孔 ≤Fault/5m			Min. 最小	Max. 最大					
		Breakdown 擊穿電壓 ≥V																				Ω/km (20℃)								
0.020	±0.001	0.003	0.025	0.004	0.027						130	----	250	----		----			7	7			8	5	3		48935	60810	0.020	
0.022	±0.001	0.003	0.027	0.004	0.029						130	----	250	----		----			7	7			8	5	3		40795	49778	0.022	
0.025	±0.001	0.003	0.032	0.005	0.034	0.06	0.036				190	----	275	----	325	----	1500	----	9	9	9		8	5	3		31924	38112	0.025	
0.028	±0.001	0.003	0.035	0.005	0.038						250	----	275	----		----			9	9			8	5	3		25660	30113	0.028	
0.030	±0.001	0.004	0.038	0.005	0.04	0.09	0.044	0.014	0.053		250	----	275	----	500	----	2000	----	10	10	10	10	8	5	3	1	22456	26103	0.030	
0.032	±0.001	0.004	0.04	0.005	0.042						250	----	275	----		----			10	10			8	5	3		19817	22843	0.032	
0.035	±0.001	0.004	0.043	0.005	0.045	0.09	0.049	0.016	0.059		250	----	300	----	600	----	2500	----	10	10	10	10	8	5	3	1	16651	18990	0.035	
0.038	±0.001	0.004	0.046	0.005	0.048						250	----	300	----		----			11	11			8	5	3		14188	16035	0.038	
0.040	±0.001	0.005	0.049	0.006	0.051	0.01	0.055	0.02	0.068		250	----	325	----	650	----	2500	----	11	11	11	11	8	5	3	1	12838	14433	0.040	
0.042	±0.001	0.005	0.051	0.006	0.053						275	----	325	1000		----			11	11			8	5	3		11671	13059	0.042	
0.045	±0.001	0.005	0.054	0.006	0.056	0.01	0.062	0.02	0.076		275	----	350	1000	700	----	3000	----	11	11	11	11	8	5	3	1	10199	11339	0.045	
0.048	±0.001	0.005	0.058	0.007	0.06						275	----	350	1000		----			11	11			8	5	3		8988	9938	0.048	
0.050	±0.002	0.005	0.06	0.007	0.062	0.011	0.067	0.02	0.081		275	----	400	1200	800	----	3200	----	12	12	12	12	8	5	3	1	7981	9528	0.050	
0.053	±0.002	0.005	0.063	0.007	0.066						300	----	400	1200		----			12	12			8	5	3		7134	8440	0.053	
0.055	±0.002	0.005	0.065	0.007	0.068	0.011	0.073	0.022	0.089		300	----	400	1200	800	----	3300	----	12	12	12	12	8	5	3	1	6642	7815	0.055	
0.058	±0.002	0.005	0.068	0.007	0.071						300	----	400	1200		----			12	12			8	5	3		5995	6757	0.058	
0.060	±0.002	0.005	0.07	0.007	0.073	0.013	0.08	0.022	0.094		300	----	500	1200	1000	----	3400	----	14	14	14	14	8	5	3	1	5614	6526	0.060	
0.063	±0.002	0.005	0.073	0.007	0.076						300	----	500	1200		----			14	14			8	5	3		5108	5900	0.063	
0.065	±0.002	0.005	0.075	0.007	0.078	0.014	0.086	0.024	0.103		350	----	500	1200	1000	----	3500	----	14	14	14	14	8	5	3	1	4807	5531	0.065	
0.068	±0.002	0.005	0.078	0.007	0.081						350	----	500	1200		----			15	15			8	5	3		4404	5040	0.068	
0.070	±0.002	0.005	0.08	0.007	0.083	0.015	0.091	0.024	0.108		350	----	500	1200	1000	----	3500	----	15	15	15	15	8	5	3	1	4163	4747	0.070	
0.075	±0.002	0.005	0.085	0.007	0.088	0.015	0.096	0.025	0.112		350	----	550	1200	1100	----			15	15	15	15	8	5	3	1	3640	4119	0.075	
0.080	±0.002	0.005	0.091	0.008	0.094	0.015	0.103	0.025	0.117		350	----	550	1200	1100	----			16	16	16	16	8	5	3	1	3209	3608	0.080	
0.085	±0.002	0.005	0.096	0.008	0.099	0.017	0.11				350	----	550	1200	1200	----			16	16	16	16	8	5	3		2851	3187	0.085	
0.090	±0.002	0.006	0.101	0.01	0.106	0.017	0.114				350	----	650	1200	1200	----			16	16	16	16	8	5	3		2550	2835	0.090	
0.095	±0.002	0.006	0.106	0.01	0.111	0.017	0.12				350	----	650	1200	1200	----			17	17	17	17	8	5	3		2294	2538	0.095	
0.100	±0.002	0.007	0.112	0.011	0.118	0.017	0.127				350	----	650	1200	1200	----			17	17	17	17	8	5	3		2074	2286	0.100	
0.110	±0.002	0.007	0.122	0.011	0.129	0.017	0.139				----	1000	----	1300	----	2800	----			17	17	17	17	8	5	3		1720	1882	0.110
0.120	±0.002	0.007	0.133	0.011	0.139	0.017	0.149				----	1200	----	1500	----	2800	----			17	17	17	17	8	5	3		1450	1577	0.120
0.130	±0.002	0.007	0.143	0.011	0.149	0.019	0.159				----	1200	----	1500	----	2800	----			18	18	18	18	8	5	3		1239	1340	0.130
0.140	±0.002	0.008	0.154	0.011	0.159	0.019	0.171				----	1200	----	1600	----	3000	----			19	19	19	19	8	5	3		1070	1153	0.140
0.150	±0.002	0.008	0.165	0.011	0.169	0.019	0.181				----	1200	----	1700	----	3000	----			19	19	19	19	8	5	3		934	1002	0.150
0.160	±0.002	0.008	0.176	0.012	0.182	0.021	0.194				----	1200	----	1700	----	3000	----			19	19	19	19	8	5	3		822	879	0.160
0.170	±0.003	0.009	0.187	0.013	0.194	0.022	0.204				----	1300	----	2000	----	3200	----			20	20	20	20	8	5	3		721	787	0.170
0.180	±0.003	0.009	0.197	0.014	0.206	0.022	0.214				----	1300	----	2000	----	3200	----			20	20	20	20	8	5	3		644	701	0.180
0.190	±0.003	0.01	0.208	0.014	0.216	0.022	0.224				----	1300	----	2000	----	3200	----			21	21	21	21	8	5	3		579	628	0.190
0.200	±0.003	0.01	0.218	0.014	0.226	0.022	0.234				----	1300	----	2000	----	3200	----			21	21	21	21	8	5	3		523	566	0.200
0.210	±0.003	0.01	0.228	0.014	0.236	0.027	0.251				----	1300	----	2000	----	3300	----			21	21	21	21	8	5	3		475	512	0.210
0.220	±0.003	0.01	0.238	0.014	0.247	0.027	0.261				----	1300	----	2200	----	3300	----			21	21	21	21	8	5	3		433	466	0.220
0.224	±0.003				0.265	0.027	0.265				----		----		----	3300	----					22								0.224
0.230	±0.003	0.01	0.25	0.016	0.259	0.03	0.274				----	1300	----	2200	----	3500	----			22	22	22	22	8	5	3		397	426	0.230
0.240	±0.003	0.01	0.26	0.016	0.269	0.03	0.284				----	1300	----	2200	----	3500	----			22	22	22	22	8	5	3		365	391	0.240
0.250	±0.003	0.01	0.27	0.016	0.279	0.03	0.294				----	1300	----	2300	----	3500	----			22	22	22	22	8	5	3		337	360	0.250
0.260	±0.004	0.01	0.28	0.018	0.289	0.031	0.306				----	1300	----	2300	----	3600	----			22	22	22	22	8	5	3		309	335	0.260
0.270	±0.004	0.01	0.29	0.018	0.299	0.031	0.316				----	1300	----	2300	----	3600	----			22	22	22	22	8	5	3		287	310	0.270
0.280	±0.004	0.01	0.3	0.022	0.315	0.031	0.326				----	1300	----	2300	----	3600	----			23	23	23	23	8	5	3		267	288	0.280
0.290	±0.004	0.01	0.31	0.022	0.325	0.033	0.338				----	1300	----	2500	----	3700	----			23	23	23	23	8	5	3		249	268	0.290
0.300	±0.004	0.01	0.322	0.022	0.336	0.033	0.348				----	1500	----	2500	----	3700	----			23	23	23	23	8	5	3		233	251	0.300
0.310	±0.004	0.01	0.333	0.022	0.346	0.033	0.358				----	1500	----	2500	----	3700	----			23	23	23	23	8	5	3		218	234	0.310
0.315	±0.004			0.022	0.351	0.033	0.363				----		----	2500	----	3700	----					23	23	8	5	3				0.315
0.320	±0.004			0.023	0.357	0.036	0.371				----		----	2700	----	4000	----					23	23	8	5	3				0.320
0.330	±0.004			0.023	0.367	0.036	0.381				----		----	2700	----	4000	----													

綫盤一覽表 SPOOL TYPE LIST

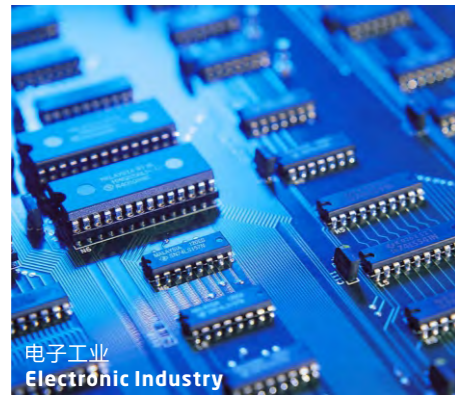
類型 Type	型號 Model	h (mm)	D ₁ (D) (mm)	D ₂ (mm)	d ₁ (d) (mm)	d ₂ (mm)	W (mm)	a (mm)	綫軸重量 Spool Weight (g)	綫淨重 Net Wire Weight (kg)	適用綫徑 Wire Size (mm)	每箱軸數 Spool per Carton	綫盤結構圖 Spool Design Illustration
雙錐形 Biconical	PL-4S	22	135	-	80	-	110	32.5	320	4	0.035-0.070	4	 HK型
	PL-600S	20	106	-	75	-	75	18.5	165	1.5	0.020-0.040	4	
	HK76/45	16	63	-	44	-	60	-	62	0.3	0.012-0.024	6	
	HK79/45	16	80	-	55	-	70	-	85	0.6	0.020-0.028	4	
	HK125/45	16	125	-	71	-	65	-	165	2.5	0.030-0.044	4	
	HK160/45	22	160	-	90	-	85	37.5	315	6	0.045-0.080	4	
	HK199/45	22	200	-	112	-	106	47	600	10	0.050-0.100	1	
圓柱形 Cylindrical	PL-1	20	80	-	60	-	100	10	86	1	0.025-0.03	10	 PL型
	PL-2	20	100	-	65	-	125	10	160	2	0.03-0.06	8	
	PL-4	26	125	-	80	-	160	15	270	4	0.04-0.20	4	
	PL-8	30	160	-	100	-	200	15	470	8	0.05-0.07	2	
圓錐形 Tapered	PT-4	26	124	140	74	86	170	15	270	5	0.06-0.20	4	 PT型
	PT-10	30	160	180	96	110	200	15	420	10	0.13-0.55	2	
	PT-15	30	180	200	96	110	200	15	560	15	0.16-0.55	1	
	PT-25	30	215	230	110	130	250	15	780	25	0.20-0.80	1	

漆包綫張力表 TENSILE STRENGTH FOR WINDING

導體直徑 Bare wire dia. (mm)	張力 Tension (g)	導體直徑 Bare wire dia. (mm)	張力 Tension (g)	導體直徑 Bare wire dia. (mm)	張力 Tension (g)
0.020	3.5	0.140	143.0	0.270	470.0
0.025	5.5	0.150	161.0	0.280	505.0
0.030	9.0	0.160	181.0	0.290	535.0
0.040	13.5	0.170	203.0	0.300	565.0
0.050	20.3	0.180	225.0	0.320	635.0
0.060	29.0	0.190	248.0	0.350	746.0
0.070	40.6	0.200	272.0	0.370	820.0
0.080	50.0	0.210	298.0	0.400	950.0
0.090	62.6	0.220	323.0	0.450	1160.0
0.100	78.0	0.230	350.0	0.500	1400.0
0.110	93.0	0.240	380.0	0.550	1650.0
0.120	108.0	0.250	410.0	0.600	1930.0
0.130	125.0	0.260	438.0	0.800	3200.0

CLIENTS & MARKETS

客户和市场



使用注意事項 USAGE NOTICE

一般注意事項:

- (1) 使用前規格型號的確認
使用前，應認真檢查漆包綫的外觀、型號和規格，避免因誤用而導致不良品的發生。
- (2) 運輸移動過程中的碰傷
漆包綫表面的漆膜很薄，極易被外力碰傷，在運輸或移動過程中，要特別注意小心輕放，避免傾倒碰撞，保證綫材不受損傷。
- (3) 儲存
漆包綫應儲存在乾燥通風的庫房裏，遠離塵埃（含金屬粉末），避免高溫潮濕，禁止陽光直射。

繞綫注意事項:

- (1) 繞綫作業時漆包綫漆膜很易被金屬邊緣刮傷，在繞綫過程中應密切注意機械和漆包綫接觸的部分及減少施加在漆包綫上的外力。
- (2) 繞綫的張力
爲了避免漆包綫的品質劣化，在繞綫過程中張力應參考“漆包綫張力表”。
- (3) 端末漆膜的去除
以下三種去漆方法可供選擇：
①火焰燒除法；②機械剝離法；③脫漆劑法

General cautions:

- 1) Double check the wire information on the lable before using;
- 2) Care should be taken not to damage the wire surface;
- 3) Keep away from metallic dust, high temperature, high humidity, direct sunlight;

Using the wires:

- 1) The film insulation is easy to be damaged by metal. Pay close attention to the contact part between the machine and the wire while winding a coil, and the tension applied on the wire;
- 2) Apply the tension as per the chart "TENSILE STRENGTH FOR WINDING";
- 3) To remove the film insulation by way of burning, using a peeling machine, or immersing into solvent.

包裝標準 STANDARD PACKAGING



尺寸對照表 DIMENSION COMPARISON CHART

英標 SWG		綫號 Wire Number	美標 AWG	
英寸/in.	毫米/mm	(Gauge)	英寸/in.	毫米/mm
0.04800	1.21900	18	0.04030	1.02360
0.04000	1.01600	19	0.03590	0.91190
0.03600	0.91400	20	0.03200	0.81280
0.03200	0.81300	21	0.02850	0.72390
0.02800	0.71100	22	0.02530	0.64260
0.02400	0.61000	23	0.02260	0.57400
0.02200	0.59900	24	0.02010	0.51050
0.02000	0.50800	25	0.01790	0.45470
0.01800	0.45700	26	0.01590	0.40390
0.01640	0.41700	27	0.01420	0.36070
0.01480	0.37600	28	0.01260	0.32000
0.01360	0.34500	29	0.01130	0.28700
0.01240	0.31500	30	0.01000	0.25400
0.01160	0.29500	31	0.00890	0.22610
0.01080	0.27400	32	0.00800	0.20320
0.01000	0.25400	33	0.00710	0.18030
0.00920	0.23400	34	0.00630	0.16000
0.00840	0.21300	35	0.00560	0.14220
0.00760	0.19300	36	0.00500	0.12700
0.00680	0.17300	37	0.00450	0.11430
0.00600	0.15200	38	0.00400	0.10160
0.00520	0.13200	39	0.00350	0.08890
0.00480	0.12200	40	0.00310	0.07870
0.00440	0.11200	41	0.00280	0.07110
0.00400	0.10200	42	0.00250	0.06350
0.00360	0.09140	43	0.00220	0.05590
0.00320	0.08130	44	0.00200	0.05080
0.00280	0.07110	45	0.00180	0.04570
0.00240	0.06100	46	0.00160	0.04060
0.00200	0.05080	47	0.00140	0.03560
0.00160	0.04060	48	0.00120	0.03050
0.00120	0.03050	49	0.00110	0.02790
0.00100	0.02540	50	0.00100	0.02540
-	-	51	0.00088	0.02235
-	-	52	0.00078	0.01980
-	-	53	0.00070	0.01780
-	-	54	0.00062	0.01570
-	-	55	0.00055	0.01400
-	-	56	0.00049	0.01245