

直焊性聚氨酯漆包铜圆线 Self-Solderable Polyurethane Series



QA(UEW)

产品主要特点及用途:

Products main features and application

- 能直焊, 易染色
- 高频下介质损耗低, 盐水针孔性能好
- 适用于继电器、微电机、变压器、仪器仪表, 和各类电子元器件及绕组用线圈
- Can be Soldered without removal of coating, and easy to be dyed
- Small dielectric loss under high frequency apparatus and good pinhole test performance
- Apply to replays, micro-motors, transformers, instrumentation and various kinds of electronic components and with for coils

热级 Thermal level		规格范围 Specifications range		适用标准 Standard			
代号 code	等级 level	mm	AWG	IEC	GB / T	NEMA	JIS
B	130	0.018-2.500	53#-10#*	60317-4	6109.4	MW75-C	C3202
F	155			60317-20	6109.10	MW79-C	
H	180	0.050-3.000	45#-9#*	60317-51	6109.23	MW82-C	C3202

注: “*” 为近似美国线规 Note: “*” for approximate American wire gage

尼龙复合涂层系列 Nylon Overcoating Series



QA/N(UEW/N)

产品主要特点及用途:

Products main features and application

- 尼龙复合漆包线除了保留单涂层漆包线原有特点外还具有表面摩擦系数小, 耐磨性佳, 弯折性能好等特点
- The polyamide overcoated wires demonstrate the same properties as the above wires without polyamide coating. What's more, because of the polyamide coating, these wires' mechanic properties are improved greatly in friction modulus, abrasive resistance, bending properties ect.

热级 Thermal level		规格范围 Specifications range		适用标准 Standard			
代号 code	等级 level	mm	AWG	IEC	GB / T	NEMA	JIS
B	130	0.018-2.500	53#-10#*	60317-19	6109.4	MW28-C	C3202
F	155			60317-21	6109.10	MW80-C	
H	180	0.050-3.000	45#-9#*	60317-51	6109.23	MW83-C	C3202

注: “*” 为近似美国线规 Note: “*” for approximate American wire gage

直焊性聚酯亚胺漆包铜圆线 Solderable Polyester-imide Series



QZYH(SEIW)

产品主要特点及用途:

Products main features and application

- 除具有优良的热稳定性,耐刮、耐溶剂性能外,还具有直焊性,不用去除漆膜,可直接焊锡
- 适用于大、中、小型H级电机、高温变压器、电动工具电机
- High thermostability under 150 °C working environment, good resistance to abrasion and solvent, solderability that can be soldered without removal of coating.
- Apply to all sizes of H Class motors, transformers and electric tools etc.

热级 Thermal level		规格范围 Specifications range		适用标准 Standard			
代号 code	等级 level	mm	AWG	IEC	GB / T	NEMA	JIS
H	180	0.050-3.000	45#-9#*	60317-23	6109.13	MW77-C	

注: "*" 为近似美国线规 Note: "*" for approximate American wire gage

聚酯亚胺/聚酰胺酰亚胺复合漆包铜圆线 Polyester-imide Over coated with Polyamide-imide



Q(ZY/XY)(EI/AIW)

产品主要特点及用途:

Products main features and application

- 耐高、低温、耐冷冻剂,耐辐射,耐热冲击,化学性能优良
- 适用于各类工作环境恶劣的C级电机、变压器、及制冷剂为R22/R410c/R600a/R134a的冰箱、空调用压缩机电机绕组
- Capable of working under extreme situations where strong resistibility against very high and low temperature, powerful cryogen, hard radiation and forceful heat shock are needed.
- Applied in C Class motors, transformers, electric refrigerator powered by Refrigerant R22/R410c/R600a/134a and windings in air-conditioner compressor.

热级 Thermal level		规格范围 Specifications range		适用标准 Standard			
代号 code	等级 level	mm	AWG	IEC	GB / T	NEMA	JIS
C	220	0.100-3.000	38#-9#*	60317-13	6109.20	MW73-C	

注: "*" 为近似美国线规 Note: "*" for approximate American wire gage

聚酯漆包铜圆线 Polyester Series



QZ(PEW)

产品主要特点及用途:

Products main features and application

- 耐刮性、耐溶剂性能优良
- 适用于B级电机、普通电器、仪器仪表，和各类电子元器件及绕组用线圈
- Good resistance to abrasion and solvent
- Apply to B Class motors, appliances, instrumentations, various types of electronic components and winding for coils

热级 Thermal level		规格范围 Specifications range		适用标准 Standard			
代号 code	等级 level	mm	AWG	IEC	GB / T	NEMA	JIS
B	130	0.018-2.800	53#-9#*	60317-34	6109.7		C3202
F	155			60317-3	6109.2	MW5-C	

注: “*” 为近似美国线规 Note: “*” for approximate American wire gage

聚酯亚胺漆包铜圆线 Polyester-imide Series



QZY(EIW)

产品主要特点及用途:

Products main features and application

- 优良的热稳定性, 耐刮、耐溶剂性能好
- 适用于大、中、小型H级电机、高温变压器、仪器仪表, 和各类电子元器件及绕组用线圈
- Good Thermostability under 150℃ working environment, good resistance to abrasion and solvent
- Applied in all sizes of H Class motors, transformers, instrumentations, various types of electronic components and winding for coils

热级 Thermal level		规格范围 Specifications range		适用标准 Standard			
代号 code	等级 level	mm	AWG	IEC	GB / T	NEMA	JIS
H	180	0.050-3.000	45#-9#*	60317-8	6109.5	MW30-C	C3202

注: “*” 为近似美国线规 Note: “*” for approximate American wire gage

常规生产控制参数表
Reference to Parameters for Normal Production

体标称 直径 Diameter	公差 Tolerance	最大外径 Max Diameter(mm)			最小漆膜厚度 Min Film Thickness(mm)			最小击穿电压(20° C) Min breakdown voltage(20° C)			导体电阻 ohm/m (20° C) Conductor resistance (20° C)	
		1级	2级	3级	1级	2级	3级	1级	2级	3级	Min	Max
0.028	--	0.034	0.038	--	--	--	--	170	325	--	24.99	30.54
0.032	--	0.039	0.043	--	--	--	--	190	375	--	19.13	23.38
0.036	--	0.044	0.049	--	--	--	--	225	425	--	15.16	18.42
0.040	--	0.049	0.054	--	--	--	--	250	475	--	12.28	14.92
0.045	--	0.055	0.061	--	--	--	--	275	550	--	9.705	11.79
0.050	--	0.06	0.066	--	--	--	--	300	600	--	7.922	9.489
0.056	--	0.067	0.074	--	--	--	--	325	650	--	6.316	7.565
0.063	0.002	0.076	0.083	--	0.007	0.012	0.018	375	700	--	5.045	5.922
0.071	0.003	0.084	0.091	0.097	0.007	0.012	0.018	425	700	--	3.941	4.747
0.080	0.003	0.094	0.101	0.108	0.007	0.014	0.020	425	850	1200	3.133	3.703
0.090	0.003	0.105	0.113	0.12	0.008	0.015	0.022	500	900	1300	2.495	2.900
0.100	0.003	0.117	0.125	0.132	0.008	0.016	0.023	500	950	1400	2.034	2.333
0.112	0.003	0.13	0.139	0.147	0.009	0.017	0.026	1300	2700	3900	1.632	1.848
0.125	0.003	0.144	0.154	0.163	0.010	0.019	0.028	1500	2800	4100	1.317	1.475
0.140	0.003	0.16	0.171	0.181	0.011	0.021	0.030	1600	3000	4200	1.055	1.17
0.160	0.003	0.182	0.194	0.205	0.012	0.023	0.033	1700	3200	4400	0.8122	0.8906
0.180	0.003	0.204	0.217	0.229	0.013	0.025	0.036	1700	3300	4700	0.6444	0.7007
0.200	0.003	0.226	0.239	0.252	0.014	0.027	0.039	1800	3500	5100	0.5237	0.5657
0.224	0.003	0.252	0.266	0.28	0.015	0.029	0.043	1900	3700	5200	0.4188	0.4495
0.250	0.004	0.281	0.297	0.312	0.017	0.032	0.048	2100	3900	5500	0.3345	0.3628
0.280	0.004	0.312	0.329	0.345	0.018	0.033	0.050	2200	4000	5800	0.2676	0.2882
0.315	0.004	0.349	0.367	0.384	0.019	0.035	0.053	2200	4100	6100	0.2121	0.227
0.355	0.004	0.392	0.411	0.428	0.020	0.038	0.057	2300	4300	6400	0.1674	0.1782
0.40	0.005	0.439	0.459	0.478	0.021	0.040	0.060	2300	4400	6600	0.1316	0.1407
0.45	0.005	0.491	0.513	0.533	0.022	0.042	0.064	2300	4400	6800	0.1042	0.1109
0.50	0.005	0.544	0.566	0.587	0.024	0.045	0.067	2400	4600	7000	0.08462	0.08959
0.56	0.006	0.606	0.630	0.653	0.025	0.047	0.071	2500	4600	7100	0.06736	0.07153
0.63	0.006	0.679	0.704	0.728	0.027	0.050	0.075	2600	4800	7100	0.05335	0.05638
0.71	0.007	0.762	0.789	0.814	0.028	0.053	0.080	2600	4800	7200	0.04198	0.04442
0.80	0.008	0.855	0.884	0.911	0.030	0.056	0.085	2600	4900	7400	0.03305	0.03500
0.90	0.009	0.959	0.989	1.018	0.032	0.060	0.090	2700	5000	7600	0.02612	0.02765
1.00	0.010	1.062	1.094	1.124	0.034	0.063	0.095	2700	5000	7600	0.02116	0.0224
1.12	0.011	1.184	1.217	1.248	0.034	0.065	0.098	2700	5000	7600	0.01687	0.01785
1.25	0.013	1.316	1.349	1.381	0.035	0.067	0.100	2700	5000	7600	0.01353	0.01435
1.40	0.014	1.468	1.502	1.535	0.036	0.069	0.103	2700	5000	7600	0.01079	0.01143
1.60	0.016	1.67	1.706	1.74	0.038	0.071	0.107	2700	5000	7600	0.008264	0.008749
1.80	0.018	1.872	1.909	1.944	0.039	0.073	0.110	2700	5000	7600	0.006529	0.006913
2.00	0.020	2.074	2.112	2.148	0.040	0.075	0.113	2700	5000	7600	0.005289	0.005600
2.24	0.022	2.316	2.355	2.392	0.041	0.077	0.116	2700	5000	7600	0.004218	0.004465
2.50	0.025	2.578	2.618	2.656	0.042	0.079	0.119	2700	5000	7600	0.003385	0.003584
2.65	0.027	2.731	2.772	2.811	0.043	0.081	0.123	1300	2500	3800	0.003014	0.003190
2.80	0.028	2.88	2.922	2.961	0.043	0.081	0.123	1300	2500	3800	0.002698	0.002857
3.00	0.03	3.083	3.126	3.166	0.045	0.084	0.127	1300	2500	3800	0.002351	0.002488
3.15	0.032	3.233	3.276	3.316	0.045	0.084	0.127	1300	2500	3800	0.002131	0.002258
3.35	0.034	3.436	3.479	3.521	0.046	0.086	0.130	1300	2500	3800	0.001885	0.001996

包装信息 Package Information

线盘 Spool Type	绕线范围 Sizes Applicable (mm)	线盘自重 Net Weight of Spool (kg)	容线近似重量 Approximate Weight of Wires Applicable (kg)	每箱箱数 Spools per Carton
PL-2S	Φ0.020-0.050	0.13	12	16
PT-2	Φ0.020-0.050	0.17	2	12
PT-4	Φ0.050-0.30	0.20	7	4
PT-10	Φ0.10 - 0.30	0.40	12	2
PT-15	Φ0.30 - 0.60	0.52	18	1
PT-25	Φ0.40 - 2.50	0.78	30	1
PT-45	Φ0.36 - 3.20	2.15	45	-
PT-60	Φ0.36 - 3.35	2.25	70	-
PT-90	Φ0.50 - 3.20	3.90	90	-
PT-200	Φ0.50 - 3.20	7.30	200	-
PC220*200	Φ0.50 - 2.50	0.65	28	-
PC355*180	Φ2.00 - 3.35	2.50	60	-

线盘信息 Spool Information

线盘型号 Type	侧板直径(mm) Reel Diameter		筒体直径(mm) Inner Diameter		内宽 (mm) H1	盘体 总高 (mm) H2	轴孔直径 (mm)	重量 (kg)	备注
	小头 直径 d1	大头 直径 D1	小头 直径 d2	大头 直径 D2					
PT4	125±0.5	140±0.5	70±0.5	80±0.5	170±1	195±1	27±0.5	0.2±0.005	
PT10	160±0.5	180±0.5	97±0.5	110±0.5	200±1	230±1	30.5±0.5	0.4±0.005	
PT15	179±0.5	200±0.5	96±0.5	107±0.5	200±1	230±1	31±0.5	0.52±0.010	
PT25	214±0.5	230±0.5	110±0.5	129.5±0.5	250±1	280±1	31±0.5	0.78±0.015	
PT45	236±0.5	250±0.5	139±0.5	159±0.5	335±1	400±1	100±0.5	2.15±0.02	
PT60	270±0.8	300±0.8	150±0.8	175±0.8	350±1	400±2	45±0.5	2.25±0.02	平角
PT60	270±0.8	300±0.8	150±0.8	175±0.8	350±1	400±2	45±0.5	2.08±0.02	圆角
PT90	300±0.5	315±0.5	180±0.5	200±0.5	424±1	499±1	100±0.5	3.9±0.05	
PT200	375±0.5	400±0.5	224±0.5	250±0.5	530±1	630±1	100±0.5	7.3±0.1	
220*200	219±0.5	219±0.5	108±0.5	108±0.5	198±1	232±1	32±0.5	0.62±0.01	
木盘线盘	355±0.5	355±0.5	150.4±0.5	150.4±0.5	180±1	210±1	40±1	/	

