

Data sheet of Enameled copper wire

Item	QA-3/155	QAN-2/155	QZY-2/180	QZY-3/180	QZY/XY-2/200
Size range(mm)	0.016~1.5	0.016~1.5	0.016~6.0	0.016~6.0	0.016~6.0
Thermal class(°C)	155	155	180	180	200
Insulation thickness	Grade 3	Grade 2	Grade 2	Grade 3	Grade 2
	(different sizes has different insulation thickness, please refer to below table 1)				
Standard	IEC60317-20/ GBT6109.11	IEC60317-21/ GBT6109.10	IEC60317-8/ GBT 6109.5	IEC60317-8/ GBT 6109.5	IEC60317-13/ GBT 6109.20
Main Features	1.can be soldered without removal of coating. 2.low dielectric loss under high frequency 3.good pinhole test performance etc.	1.can be soldered without removal of coating. 2.low dielectric loss under high frequency 3.good pinhole test performance. 4.Improved greatly in friction modulus, Abrasive resistance, bending properties etc.	1. Good thermostability under 180°C working environment 2. Good resistance to abrasion, solvent and heat shock	1. Good thermostability under 180°C working environment 2. Good resistance to abrasion, solvent and heat shock	1.Good Properties of resistance to high and low temperature. 2. Powerful cryogen, mechanical and radiation.
Application	Relays, micro-motors, transformers, instruments, metersand various types of electronic components	Relays, micro-motors, transformers, instruments, metersand various types of electronic components	All sizes of H class motors, transformers, instruments, meter and various types of electronic components	All sizes of H class motors, transformers, instruments, meter and various types of electronic components	Motor of compressor, transformer, high quality power tools and light fitting etc.

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
0.019		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

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		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
0.335	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	0.724
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