



Polyamide Imide Enameled Copper Wire AIW Grade One AWG 38-8 GB IEC Standard

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: PEWSC
- Certification: UL
- Model Number: AIW Grade one
- Minimum Order Quantity: The MOQ varies according to the size of the specification
- Price: Copper price plus processing fee plus freight
- Packaging Details: Box
- Delivery Time: 3-5 work days
- Payment Terms: T/T 100% payment before shipment
- Supply Ability: Delivery 10-15 days after next order



Product Specification

- Product Name: AIW Grade One
- Hierarchy Type: Grade One
- Material: Copper
- Specification: AWG 38-8
- Rated Voltage: 2800V The Voltage Resistance Varies According To The Thickness Of The Film And The Size Of The Specification
- Color Options: Could Be Customized
- Thermal Grade: 220
- Application: For Power Tools And Motorcycles
- Certification: UL,ROHS
- Standard: GB、 IEC
- Highlight: **Polyamide Imide Enameled Copper Wire, IEC Enameled Copper Wire**



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Grade 1 is the thinnest insulation grade, suitable for applications with strict requirements on space and weight. The following are some of the features of this product:

Flexible and easy to install: The flexibility of the copper wire itself, combined with the fine manufacturing process, makes the enameled copper wire AIW easy to wire and install, and maintains the integrity of the insulation layer even in narrow or complex spaces.

High safety performance: the tightly wrapped insulation layer effectively prevents current leakage, providing a safe electrical environment.

Environmentally friendly materials: the selection of environmentally friendly materials for production, in line with modern environmental requirements, both energy saving and emission reduction.

Technical Support: We have a professional technical team to provide customers with a full range of technical support and consulting services to ensure that customers choose the right product and apply it correctly.

GB ---Grade1 Unit mm																			
Diam eter of Conduct	Con duct or Tol erance	Conduc tor Control Bench marks		OD Control Bench marks		Specificatio n Boundaries		Conduct or Resist ance 20 (Ω/K M)	Min Elon gation (%)	Max. Sprin giness (°)	Insula tion break down voltage (v)								
		Lo wer Lim it	Up per Lim it	Lo wer Lim it	Up per Lim it	Min. Incre ase in Diam eter	Max. Finis hed over all Diam eter												
0.040	±0.002	0.039	0.041	0.045	0.049	0.004	0.049	15202	9		250								
0.045	±0.003	0.044	0.046	0.051	0.055	0.005	0.055	12445	9		275								
0.050	±0.003	0.049	0.051	0.056	0.060	0.005	0.060	9938	10		300								
0.056	±0.003	0.055	0.057	0.063	0.067	0.006	0.067	7815	10		325								
0.063	±0.003	0.062	0.064	0.071	0.076	0.007	0.076	6098	12		375								
0.071	±0.003	0.070	0.072	0.079	0.084	0.007	0.084	4747	13		425								
0.080	±0.003	0.079	0.081	0.088	0.094	0.007	0.094	3703	14	70	425								
0.090	±0.003	0.089	0.091	0.099	0.105	0.008	0.105	2900	15	67	500								
0.100	±0.003	0.099	0.101	0.109	0.116	0.008	0.117	2333	16	64	500								
0.112	±0.003	0.111	0.114	0.122	0.129	0.009	0.130	1848	17	64	1300								
0.125	±0.003	0.124	0.127	0.136	0.143	0.010	0.144	1475	17	62	1500								
0.140	±0.003	0.139	0.142	0.152	0.159	0.011	0.160	1170	18	59	1600								
0.160	±0.003	0.159	0.162	0.173	0.180	0.012	0.182	8906	19	59	1700								
0.180	±0.003	0.179	0.182	0.195	0.202	0.013	0.204	7007	20	57	1700								
0.200	±0.003	0.199	0.202	0.216	0.224	0.014	0.226	5657	21	54	1800								
0.224	±0.003	0.223	0.226	0.241	0.249	0.015	0.252	4495	21	51	1900								
0.250	±0.004	0.249	0.253	0.270	0.278	0.017	0.281	3628	22	49	2100								
0.280	±0.004	0.279	0.283	0.301	0.309	0.018	0.312	2882	22	47	2200								
0.315	±0.004	0.314	0.317	0.337	0.346	0.019	0.349	2270	23	50	2200								
0.355	±0.004	0.354	0.357	0.378	0.387	0.020	0.392	1782	23	48	2300								

0.40 0	±0.0 05	0.3 98	0.4 03	0.4 25	0.4 35	0.02 1	0.439	140. 7	24	45	2300							
0.45 0	±0.0 05	0.4 48	0.4 53	0.4 76	0.4 86	0.02 2	0.491	110. 9	25	44	2300							
0.50 0	±0.0 05	0.4 98	0.5 03	0.5 28	0.5 38	0.02 4	0.544	89.5 9	25	43	2400							
0.56 0	±0.0 06	0.5 57	0.5 63	0.5 89	0.5 99	0.02 5	0.606	71.5 3	26	41	2500							
0.63 0	±0.0 06	0.6 27	0.6 33	0.6 61	0.6 73	0.02 7	0.679	56.3 8	27	46	2600							
0.71 0	±0.0 07	0.7 07	0.7 14	0.7 43	0.7 55	0.02 8	0.672	44.4 2	28	44	2600							
0.80 0	±0.0 08	0.7 97	0.8 04	0.8 35	0.8 47	0.03 0	0.855	35.0 0	28	41	2600							
0.90 0	±0.0 09	0.8 97	0.9 04	0.9 37	0.9 49	0.03 2	0.959	27.6 5	29	45	2700							
1.00 0	±0.0 10	0.9 97	1.0 04	1.0 39	1.0 53	0.03 4	1.062	22.4 0	30	42	2700							
1.12 0	±0.0 11	1.1 16	1.1 24	1.1 59	1.1 93	0.03 4	1.184	17.8 5	30	39	2700							
1.25 0	±0.0 13	1.2 46	1.2 54	1.2 90	1.3 04	0.03 5	1.316	14.3 5	31	35	2700							
1.40 0	±0.0 14	1.3 96	1.4 06	1.4 43	1.4 58	0.03 6	1.468	11.4 3	32	32	2700							
1.60 0	±0.0 16	1.5 96	1.6 06	1.6 45	1.6 60	0.03 8	1.670	8.75	32	28	2700							





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