



Overcoat Polyamide Imide Enameled Copper Winding Wire Round For Power Tools

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: PEWSC
- Certification: UL,ROHS
- Model Number: HAI Grade three
- 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: HAI Grade Three
- Coating Type: Polyamide-imide
- Insulation Material: Enamelled
- Conductor Material: Copper
- Voltage Rating: 2800V The Voltage Resistance Varies According To The Thickness Of The Film And The Size Of The Specification
- Temperature Grade: 180°C
- Applications: For Power Tools
- Color Option: Could Be Customized
- Specification: AWG 38-8
- Standard: GB IEC
- Insulation Thickness: Grade Three
- Shape: Round
- Package: Box

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Product Description

Grade 3 is the thinnest insulation level, suitable for applications with strict requirements on space and weight.

High Conductivity: The conductor portion of HAI enameled wire is made of highly conductive copper material, which ensures good current transfer capability and low resistance loss. This high conductivity enables HAI enameled wire to transmit current efficiently in electrical equipment such as motors and transformers, thus improving the overall performance and efficiency of the equipment.

Outstanding Heat Resistance: HAI enameled wire utilizes specially modified insulating coatings and advanced manufacturing processes to ensure outstanding heat resistance. This outstanding heat resistance enables HAI enameled wire to work stably in high temperature environments, thus ensuring the performance and reliability of electrical equipment under high temperature conditions.

Excellent Physical Abrasion Resistance: A key feature of HAI products is their highly uniform and continuous coating, which has been specially designed to provide not only excellent electrical insulation, but also enhanced physical abrasion resistance and aging resistance. This excellent physical abrasion and aging resistance makes HAI enameled wires more resistant to external influences during use, thus extending their service life.

Wide range of applications: HAI enameled wire is widely used in high-performance motors, transformers, household appliances, and electrical installations in automotive and aerospace systems. In these applications, it not only enhances the overall effectiveness and efficiency of the system, but also effectively extends the service life of the equipment and reduces maintenance costs.

In addition to the features mentioned above, HAI enameled wire has the following advantages:

Environmentally friendly: HAI enameled wire is made of environmentally friendly materials and meets international environmental standards, making it safer to use and minimizing the impact on the environment.

In conclusion, HAI enameled wire is a very reliable and high-performance electromagnetic wire solution on the market due to its high electrical conductivity, good flexibility, excellent heat resistance, excellent physical abrasion resistance and wide range of applications. Choosing HAI is choosing a guarantee of high quality and long-term stable electrical performance.

GB ---Grade3											Unit mm
Diameter of Conductor	Conductor Tolerance	Conductor Control Benchmarks		OD Control Benchmarks		Specification Boundaries		Conductor Resistance 20°C (Ω/KM)	Min Elongation (%)	Max. Springiness (°)	Insulation breakdown voltage (V)
		Lower Limit	Upper Limit	Lower Limit	Upper Limit	Min. Increase in Diameter	Max. Finished overall Diameter				
0.071	±0.003	0.070	0.072	0.09	0.095	0.018	0.097	4747	13	--	1100
0.080	±0.003	0.079	0.081	0.101	0.107	0.020	0.108	3703	14	100	1200
0.090	±0.003	0.089	0.091	0.113	0.119	0.022	0.120	2900	15	94	1300
0.100	±0.003	0.099	0.101	0.124	0.131	0.023	0.132	2333	16	90	1400
0.112	±0.003	0.111	0.114	0.139	0.146	0.026	0.147	1848	17	88	3900
0.125	±0.003	0.124	0.127	0.154	0.161	0.028	0.163	1475	17	84	4100
0.140	±0.003	0.139	0.142	0.171	0.178	0.030	0.181	1170	18	79	4200
0.160	±0.003	0.159	0.162	0.194	0.201	0.033	0.205	890.6	19	78	4400
0.180	±0.003	0.179	0.182	0.218	0.225	0.036	0.229	700.7	20	75	4700
0.200	±0.003	0.199	0.202	0.241	0.249	0.039	0.252	565.7	21	72	5100
0.224	±0.003	0.223	0.226	0.269	0.277	0.043	0.280	449.5	21	68	5200
0.250	±0.004	0.249	0.253	0.301	0.309	0.048	0.312	362.8	22	65	5500
0.280	±0.004	0.279	0.283	0.333	0.341	0.050	0.345	288.2	22	61	5800
0.315	±0.004	0.314	0.317	0.371	0.38	0.053	0.384	227.0	23	62	6100
0.355	±0.004	0.354	0.357	0.415	0.423	0.057	0.428	178.2	23	59	6400
0.400	±0.005	0.398	0.403	0.464	0.474	0.060	0.478	140.7	24	55	6600
0.450	±0.005	0.448	0.453	0.518	0.528	0.064	0.533	110.9	25	53	6800

0.500	±0.005	0.498	0.503	0.571	0.581	0.067	0.587	89.59	25	51	7000
0.560	±0.006	0.557	0.563	0.635	0.645	0.071	0.653	71.53	26	48	7100
0.630	±0.006	0.627	0.633	0.709	0.721	0.075	0.728	56.38	27	53	7100
0.710	±0.007	0.707	0.714	0.795	0.807	0.080	0.814	44.42	28	50	7200
0.800	±0.008	0.797	0.804	0.89	0.902	0.085	0.911	35.00	28	46	7400
0.900	±0.009	0.897	0.904	0.995	1.007	0.090	1.018	27.65	29	51	7600
1.000	±0.010	0.997	1.004	1.1	1.114	0.095	1.124	22.40	30	47	7600
1.120	±0.011	1.116	1.124	1.223	1.237	0.098	1.248	17.85	30	34	7600
1.250	±0.013	1.246	1.254	1.355	1.369	0.100	1.381	14.35	31	39	7600
1.400	±0.014	1.396	1.406	1.509	1.523	0.103	1.535	11.43	32	36	7600
1.600	±0.016	1.596	1.606	1.714	1.73	0.107	1.740	8.75	32	32	7600
1.800	±0.018	1.796	1.806	1.917	1.933	0.110	1.944	6.91	32		7600
2.000	±0.020	1.994	2.006	2.12	2.136	0.113	2.148	5.60	33		7600
2.240	±0.022	2.234	2.246	2.363	2.381	0.116	2.392	4.46	33		7600
2.500	±0.025	2.494	2.506	2.626	2.644	0.119	2.656	3.58	33		7600
2.800	±0.028	2.794	2.808	2.932	2.95	0.123	2.961	2.86	34		3800
3.150	±0.032	3.144	3.158	3.286	3.306	0.127	3.316	2.26	34		3800



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