



## AWG 46-10 UEWN Grade One Overcoat Polyamide Enamelled Wire For General Motor Thermal Class 130

Our Product Introduction

### Basic Information

- Place of Origin: China
- Brand Name: PEWSC
- Certification: UL,ROHS
- Model Number: UEWN Grade one
- Minimum Order Quantity: 300Kg-500Kg
- 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: Three to five days after the order is placed



### Product Specification

- Conductor Material: Copper
- Type: Grade One
- Insulation Material: Copper
- Application: For High Speed Coiling Processing, general Motor
- Conductor Type: Grade One
- Color: Could Be Customized
- Diameter: AWG 46-10
- Certification: UL,ROHS
- Shape: Round
- Sample: Free
- Highlight: **General Motor Polyamide Enamelled Wire, AWG 46-10 Polyamide Enamelled Wire**



### More Images



## Product Description

**The characteristics of UEWN enameled wire are mainly reflected in the following aspects:**

**Insulation properties:** The insulation layer of UEWN enameled wire is composed of polyurethane resin, which has good electrical insulation properties and heat resistance, which can ensure stable electrical performance in high temperature environments.

**Mechanical strength:** The enameled wire has a certain mechanical strength, which can withstand certain tensile and bending stresses during the production process, and is not easy to break or deform.

**Chemical Resistance:** Due to its special insulating material, UEWN enameled wire has strong corrosion resistance to a wide range of chemicals and is suitable for a variety of harsh environments.

**Low dielectric loss at high frequencies:** These enamelled wires operate at high frequencies with low dielectric losses, helping to improve the overall performance of electronic devices.

**Dyeing performance:** UEWN enameled wire is easy to dye, and can be made into different colors of coils as needed to meet specific design requirements.

**Salt water pinhole:** This enameled wire has no salt water pinhole, which means that there are no salt due insulation defects during the manufacturing process, further improving the stability and reliability of the product.

In general, UEWN enameled wire has been widely used in motors, electrical appliances, electronic components and other fields due to its excellent insulation properties, mechanical strength, chemical corrosion resistance and low dielectric loss at high frequencies. At the same time, its easy dyeing and saltwater-free pinhole properties further enhance the product's suitability and reliability.





GB ---Grade1 Unit mm											
Diameter of Conduct	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				
0.040	±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	890.6	19	59	1700
0.180	±0.003	0.179	0.182	0.195	0.202	0.013	0.204	700.7	20	57	1700
0.200	±0.003	0.199	0.202	0.216	0.224	0.014	0.226	565.7	21	54	1800
0.224	±0.003	0.223	0.226	0.241	0.249	0.015	0.252	449.5	21	51	1900
0.250	±0.004	0.249	0.253	0.270	0.278	0.017	0.281	362.8	22	49	2100
0.280	±0.004	0.279	0.283	0.301	0.309	0.018	0.312	288.2	22	47	2200
0.315	±0.004	0.314	0.317	0.337	0.346	0.019	0.349	227.0	23	50	2200
0.355	±0.004	0.354	0.357	0.378	0.387	0.020	0.392	178.2	23	48	2300
0.400	±0.005	0.398	0.403	0.425	0.435	0.021	0.439	140.7	24	45	2300
0.450	±0.005	0.448	0.453	0.476	0.486	0.022	0.491	110.9	25	44	2300
0.500	±0.005	0.498	0.503	0.528	0.538	0.024	0.544	89.59	25	43	2400
0.560	±0.006	0.557	0.563	0.589	0.599	0.025	0.606	71.53	26	41	2500
0.630	±0.006	0.627	0.633	0.661	0.673	0.027	0.679	56.38	27	46	2600

0.710	±0.007	0.707	0.714	0.743	0.755	0.028	0.672	44.42	28	44	2600
0.800	±0.008	0.797	0.804	0.835	0.847	0.030	0.855	35.00	28	41	2600
0.900	±0.009	0.897	0.904	0.937	0.949	0.032	0.959	27.65	29	45	2700
1.000	±0.010	0.997	1.004	1.039	1.053	0.034	1.062	22.40	30	42	2700
1.120	±0.011	1.116	1.124	1.159	1.193	0.034	1.184	17.85	30	39	2700
1.250	±0.013	1.246	1.254	1.290	1.304	0.035	1.316	14.35	31	35	2700
1.400	±0.014	1.396	1.406	1.443	1.458	0.036	1.468	11.43	32	32	2700
1.600	±0.016	1.596	1.606	1.645	1.660	0.038	1.670	8.75	32	28	2700



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