0.004mm-1.00mm UEHN overcoat polyamide enamelled wire UEHN Single Thermal class 180

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: PEWSC
- Certification: UL
- Model Number: 0.004mm-1.00mm
- 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: UEHN Single
- Warranty: 3 Years
- Rated Voltage: 2800V The Voltage Resistance Varies According To The Thickness Of The Film And The Size Of The Specification
- Thermal Class: 180
- Specification: AWG 46-18
- Certifications: CE, RoHS, UL
- Applications: For High Thermal Solderable Applications
- Colors: Could Be Customized
- Country Of Origin: China
- Highlight: **180 polyamide enamelled wire**, **UEHN polyamide enamelled wire**, **180 UEHN overcoat polyamide enamelled wire**

Product Description

Single refers to a thinner wire diameter for applications with high space requirements or low current loads.

1. Extremely high heat resistance: UEHN is heat resistant up to 180°C, making it stable and reliable for long term operation in high temperature environments. This makes it ideal for motor and transformer applications where extreme temperature conditions need to be tolerated.

2. Excellent Mechanical Properties: UEHN adopts a special polymer formulation and production process, which has extremely high tensile strength and wear resistance.
UEHN is able to withstand a wide range of mechanical stresses during the manufacture of motor stator windings.

3.Good chemical resistance: UEHN's polyimide insulation has excellent corrosion resistance to most chemicals and solvents, allowing it to work stably for a long time in harsh environments.

		NEMA---Single										Unit mm	
AWG	Diameter of Conduct	Conductor Control Benchmarks		OD Control Benchmarks			Specification Boundaries		Conductor Resistance 20 (Ω/KM)	Insulation breakdown voltage (v)	Min Elongation (%)	Max. Springiness (°)	Resistance to abrasion
		Lower Limit	Upper Limit	Lower Limit	Median	Upper Limit	Min. Increase in Diameter	Max. Finished overall Diameter					Average	Minimum
44	0.051	+0.002 -0.003	0.050	0.052	0.056	0.059	0.060	0.005	0.061	9527.95	500	14	--	--	--
43	0.056	+0.002 -0.003	0.055	0.057	0.063	-----	0.066	0.005	0.069	7815.03	550	15	--	--	--
42	0.064	+0.002 -0.003	0.063	0.065	0.071	0.073	0.075	0.005	0.076	5899.60	625	16	--	--	--
41	0.071	+0.003	0.070	0.072	0.079	0.081	0.083	0.008	0.084	4610.88	700	17	--	--	--

		-0.002												
40	0.079	+0.002 -0.003	0.078	0.080	0.087	0.090	0.093	0.008	0.094	3800.62	775	17	--	--
39	0.089	+0.002 -0.003	0.088	0.090	0.099	0.102	0.105	0.008	0.107	2968.15	850	18	--	--
38	0.102	+0.002 -0.003	0.101	0.103	0.111	0.114	0.117	0.008	0.118	2239.81	950	19	--	--
37	0.114	+0.003 -0.002	0.113	0.115	0.125	0.128	0.131	0.010	0.132	1750.03	1075	20	--	--
36	0.127	+0.003 -0.003	0.126	0.128	0.139	0.142	0.145	0.010	0.147	1427.71	1200	20	--	--
35	0.142	+0.003 -0.002	0.141	0.143	0.154	0.157	0.160	0.010	0.165	1120.02	1325	21	--	--

34	0.16	+0.003 -0.003	0.159	0.161	0.175	0.178	0.181	0.013	0.183	890.60	1500	22	--	--	--
33	0.18	+0.003 -0.002	0.179	0.181	0.195	0.199	0.203	0.013	0.206	692.85	1675	23	--	--	--
32	0.203	+0.003 -0.002	0.202	0.205	0.220	0.224	0.228	0.015	0.229	543.36	1850	24	--	--	--
31	0.226	+0.003 -0.002	0.225	0.228	0.243	0.247	0.251	0.015	0.254	437.51	2075	24	--	--	--
30	0.254	+0.002 -0.003	0.252	0.256	0.274	0.278	0.282	0.018	0.284	348.45	2300	25	66	295	250
29	0.287	+0.003 -0.003	0.285	0.289	0.308	0.312	0.316	0.018	0.320	272.17	2375	26	61	310	265
28	0.32	+0.003	0.31	0.322	0.34	0.3	0.35	0.020	0.356	217.0	2425	26	55	33	28

		-0.002	8		3	47	1			8				5	5
27	0.361	+0.002 -0.003	0.358	0.363	0.383	0.3887	0.391	0.020	0.396	171.28	2500	27	50	355	300
26	0.404	+0.002 -0.005	0.401	0.406	0.429	0.433	0.437	0.023	0.439	137.89	2550	27	76	380	325
25	0.455	+0.002 -0.005	0.452	0.457	0.480	0.485	0.490	0.023	0.493	108.41	2625	28	72	400	340
24	0.511	+0.002 -0.006	0.507	0.513	0.538	0.543	0.548	0.025	0.551	86.08	2700	28	67	430	365
23	0.574	+0.003 -0.005	0.570	0.576	0.601	0.606	0.611	0.025	0.617	67.8	2775	29	62	460	390
22	0.643	+0.002 -0.008	0.639	0.645	0.673	0.678	0.683	0.028	0.686	54.44	2850	29	58	490	415

21	0.724	+0.002 -0.008	0.720	0.726	0.754	0.760	0.766	0.028	0.770	42.82	2925	30	53	525 445
20	0.813	+0.005 -0.008	0.808	0.816	0.846	0.852	0.858	0.030	0.864	33.88	3000	30	66	560 475
19	0.912	+0.005 -0.01	0.907	0.915	0.945	0.951	0.957	0.030	0.963	26.98	3075	31	62	600 510
18	1.024	+0.005 -0.011	1.019	1.027	1.060	1.066	1.072	0.033	1.077	21.39	3175	32	58	645 550
17	1.151	+0.005 -0.013	1.145	1.154	1.190	1.196	1.202	0.036	1.207	16.95	3250	32	54	690 585
16	1.29	+0.008 -0.012	1.284	1.293	1.330	1.336	1.342	0.036	1.349	13.44	3325	33	50	735 625
15	1.45	+0.008	1.44	1.453	1.49	1.4	1.50	0.038	1.509	10.66	3425	33	46	78 66

		-0.015	4		2	98	5							0	5
14	1.628	+0.008 -0.015	1.621	1.631	1.673	1.680	1.687	0.041	1.692	8.44	3525	33	42	840	715
The above single wear resistance value is applicable to MW-5C 35C 30C 81C 80C 24C 28C 76C , voltage resistance is applicable to MW-5C 35C 30C 81C 79C 75C 77C 26C .															

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