PT SUCACO Tbk.

PT SUPREME CABLE MANUFACTURING & COMMERCE Tbk.

Cert. No. : ID03/00168 Cert. No. : ID05/66527 Cert. No. : ID14/02708

Enamelled Wire

CATALOGUE

COMPANY BACKGROUND

Specializing in the cable business since 1970, PT. SUPREME CABLE MANUFACTURING & COMMERCE Tbk. (PT. SUCACO Tbk) has grown steadly to become a largest and leading cable manufacturer, with international reputation for quality and reliablity. Established in 1970, PT SUCACO Tbk. is a pioneer in the modern industry. Enamelled wire production since 1978. With technical assistance from Furukawa Electric Co Ltd Japan and International Executives Service Corp, USA, the company began commercial operations in 1972.

We produce and markets power cable up to 150 kV, optical and telecommunication cables, control cables, instrumentation cables, coaxial cables and enamelled wires under brand name of " SUPREME ". The Company is also involved through its affiliated companies, in various line of business. The company has a Quality Assurance Program and ISO 9001 and ISO 14001 certificate from SGS international certification body of quality management system. Today, PT SUCACO Tbk. has grown to become a reliable partner in infrastructures, buildings and various projects.




OUR PRODUCTS

SUPREME CABLE

Your Partner for Quality and Reliability

*For each product's detail, please found on our product catalogue

Enamelled Wire

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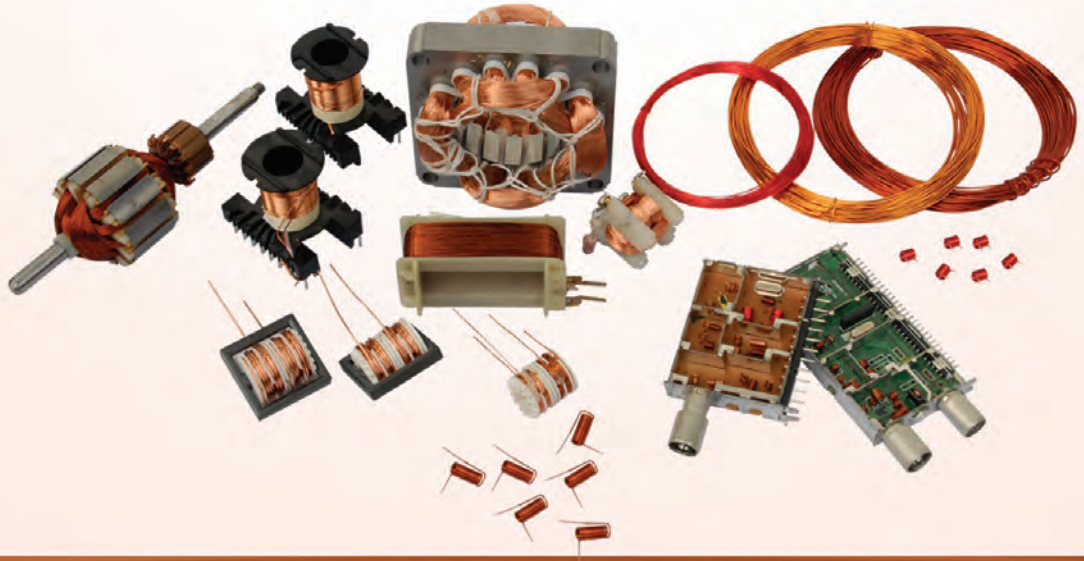

Major features and application of enamelled wire

Type of Product		PVF	UEW	SBUEW	UEWN
Description		Polyvinyl Formal	Polyurethane	Polyurethane Self Bonding	Polyurethane Nylon
Thermal Class (°C)		105	155	155	155
Major Features		Excellent oil resistant	Can be soldered without stripping off insulation	Self bonding Polyamide with boundable without solvent or alcohol	Can be soldered without stripping off insulation
		Excellent Windability	Free to colour		Free to colour
		Good Abrasion Resistance			Lower coeficient of friction
Application					
Household Appliance	TV, Computer		O	●	O
	VCD , DVD		O	O	O
	Fan		O		O
	Water pump				
	Blender				
	Mixer				
	Compressor of refrigerator, AC				
Motor	Small motor		O		O
	Power tool				
	Hermetic motor				
	Industrial motor				
	High performance motor				
Transformator	Oil filled transformer	●			
	Dry type transformer				
	Welding transformer				
	Ballast		O		O
	Small transformer		O		O
Others	Starter motor				
	Alternator				
	Wiper Motor				
	Horn		O		O
	Speedometer		O		O
	Ignition coils				
	Magnetic coils		O		O
	Electricity meter	O	O		O
	Relay		O		O

O = Common Application

● = Preferred Application

Major features and application of enamelled wire

Type of Product		PEW	PEWN	EIW	EIWN	EIW AI
Description		Polyester	Polyester Nylon	Polyesterimide	Polyesterimide Nylon	Polyesterimide Polyamideimide
Thermal Class (°C)		155	155	180	180	200
Major Features		Superior Dielectric characteristics	Excellent heat Windability	Excellent heat resistance	Excellent heat resistance	Excellent refrigerant resistance
			Good abrasion resistance	Excellent dielectric & overload capacity	Excellent dielectric & overload capacity	High resistance to overload & cut through
			Lower coeficient of friction		Lower coeficient of friction	Outstanding thermal stability
Application						
Household Appliance	TV, Computer					
	VCD , DVD					
	Fan	O				
	Water pump	O	O			
	Blender			O	O	O
	Mixer			O	O	
	Compressor of refrigerator, AC					●
Motor	Small motor	O	O	O	O	
	Power tool			O	O	O
	Hermetic motor			O	O	●
	Industrial motor	O	O	O	O	O
	High performance motor					●
Transformator	Oil filled transformer					
	Dry type transformer	O		O		O
	Welding transformer			O	O	O
	Ballast	O	O	O	O	O
	Small transformer	O	O	O	O	
Others	Starter motor					●
	Alternator					●
	Wiper Motor					●
	Horn	O	O			
	Speedometer					
	Ignition coils			O	O	O
	Magnetic coils	O	O	O	O	
	Electricity meter					
	Relay	O	O			

O = Common Application

● = Preferred Application

ENAMELLED WIRE


PT SUCACO
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Synthetic Enamelled Wire
JIS 3202

Dimensional & Electrical data

CONDUCTOR		CLASS 0		CLASS 1		Conductor resistance at 20°C , maximum
Diameter	Tolerance	Film thickness minimum	Overall diameter maximum	Film thickness minimum	Overall diameter maximum	
(mm)						(Ω/km)
0.10	± 0.008	0.016	0.156	0.009	0.140	2,647
0.11	± 0.008	0.016	0.166	0.009	0.150	2,153
0.12	± 0.008	0.017	0.180	0.010	0.162	1,786
0.13	± 0.008	0.017	0.190	0.010	0.172	1,505
0.14	± 0.008	0.017	0.200	0.010	0.182	1,286
0.15	± 0.008	0.017	0.210	0.010	0.192	1,111
0.16	± 0.008	0.018	0.222	0.011	0.204	969.5
0.17	± 0.008	0.018	0.232	0.011	0.214	853.5
0.18	± 0.008	0.019	0.246	0.012	0.226	757.2
0.19	± 0.008	0.019	0.256	0.012	0.236	676.2
0.20	± 0.008	0.019	0.266	0.012	0.246	607.6
0.21	± 0.008	0.019	0.276	0.012	0.256	549.0
0.22	± 0.008	0.019	0.286	0.012	0.266	498.4
0.23	± 0.008	0.020	0.298	0.013	0.278	454.5
0.24	± 0.008	0.020	0.308	0.013	0.288	416.2
0.25	± 0.008	0.020	0.318	0.013	0.298	382.5
0.26	± 0.010	0.020	0.330	0.013	0.310	358.4
0.27	± 0.010	0.020	0.340	0.013	0.320	331.4
0.28	± 0.010	0.020	0.350	0.013	0.330	307.3
0.29	± 0.010	0.020	0.360	0.013	0.340	285.7
0.30	± 0.010	0.021	0.374	0.014	0.352	262.9
0.32	± 0.010	0.021	0.394	0.014	0.372	230.0
0.35	± 0.010	0.021	0.424	0.014	0.402	191.2
0.37	± 0.010	0.022	0.446	0.014	0.424	170.6
0.40	± 0.010	0.023	0.480	0.015	0.456	145.3
0.45	± 0.010	0.024	0.532	0.016	0.508	114.2
0.50	± 0.010	0.025	0.586	0.017	0.560	91.43
0.55	± 0.020	0.025	0.646	0.017	0.620	78.15
0.60	± 0.020	0.026	0.698	0.017	0.672	65.26

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Synthetic Enamelled Wire
JIS 3202

Dimensional & Electrical data

CONDUCTOR		CLASS 0		CLASS 1		Conductor resistance at 20°C , maximum
Diameter	Tolerance	Film thickness minimum	Overall diameter maximum	Film thickness minimum	Overall diameter maximum	
(mm)						(Ω/km)
0.65	± 0.02	0.027	0.752	0.018	0.724	55.31
0.70	± 0.02	0.028	0.804	0.019	0.776	47.47
0.75	± 0.02	0.030	0.860	0.020	0.830	41.19
0.80	± 0.02	0.031	0.914	0.021	0.882	36.08
0.85	± 0.02	0.032	0.966	0.022	0.934	31.87
0.90	± 0.02	0.033	1.020	0.023	0.986	28.35
0.95	± 0.02	0.034	1.072	0.024	1.038	25.38
1.0	± 0.03	0.036	1.138	0.025	1.102	23.33
1.1	± 0.03	0.037	1.242	0.026	1.204	19.17
1.2	± 0.03	0.037	1.342	0.026	1.304	16.04
1.3	± 0.03	0.039	1.448	0.027	1.408	13.61
1.4	± 0.03	0.039	1.548	0.027	1.508	11.70
1.5	± 0.03	0.041	1.654	0.028	1.612	10.16
1.6	± 0.03	0.041	1.754	0.028	1.712	8.906
1.7	± 0.03	0.042	1.856	0.029	1.814	7.871
1.8	± 0.03	0.042	1.956	0.029	1.914	7.007
1.9	± 0.03	0.044	2.062	0.030	2.018	6.278
2.0	± 0.03	0.044	2.162	0.030	2.118	5.656
2.1	± 0.03	0.045	2.266	0.031	2.220	5.123
2.2	± 0.03	0.046	2.368	0.032	2.322	4.662
2.3	± 0.03	0.046	2.468	0.032	2.422	4.260
2.4	± 0.03	0.048	2.574	0.033	2.526	3.908
2.5	± 0.03	0.049	2.678	0.034	2.628	3.598
2.6	± 0.03	0.049	2.778	0.034	2.728	3.324
2.7	± 0.03	0.049	2.878	0.034	2.828	3.079
2.8	± 0.03	0.049	2.978	0.034	2.928	2.861
2.9	± 0.03	0.049	3.078	0.034	3.028	2.665
3.0	± 0.03	0.049	3.178	0.034	3.128	2.489
3.2	± 0.04	0.049	3.388	0.034	3.338	2.198

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Synthetic Enamelled Wire
JIS 3202

Dimensional & Electrical data

CONDUCTOR		CLASS 2		CLASS 3		Conductor resistance at 20 °C , maximum
Diameter	Tolerance	Film thickness minimum	Overall diameter maximum	Film thickness minimum	Overall diameter maximum	
(mm)						(Ω/km)
0.10	± 0.003	0.005	0.125	0.003	0.118	2,381
0.11	± 0.003	0.005	0.135	0.003	0.128	1,957
0.12	± 0.003	0.006	0.147	0.004	0.139	1,636
0.13	± 0.003	0.006	0.157	0.004	0.149	1,389
0.14	± 0.003	0.006	0.167	0.004	0.159	1,193
0.15	± 0.003	0.006	0.177	0.004	0.169	1,037
0.16	± 0.003	0.007	0.189	0.005	0.181	908.8
0.17	± 0.003	0.007	0.199	0.005	0.191	803.2
0.18	± 0.003	0.008	0.211	0.005	0.202	715.0
0.19	± 0.003	0.008	0.221	0.005	0.212	640.6
0.20	± 0.003	0.008	0.231	0.005	0.222	577.2
0.21	± 0.003	0.008	0.241	0.005	0.232	522.8
0.22	± 0.004	0.008	0.252	0.005	0.243	480.1
0.23	± 0.004	0.009	0.264	0.006	0.255	438.6
0.24	± 0.004	0.009	0.274	0.006	0.265	402.2
0.25	± 0.004	0.009	0.284	0.006	0.275	370.2
0.26	± 0.004	0.009	0.294	0.006	0.285	341.8
0.27	± 0.004	0.009	0.304	0.006	0.295	316.6
0.28	± 0.004	0.009	0.314	0.006	0.305	294.1
0.29	± 0.004	0.009	0.324	0.006	0.315	273.9
0.30	± 0.005	0.010	0.337	0.007	0.327	254.0
0.32	± 0.005	0.010	0.357	0.007	0.347	222.8
0.35	± 0.005	0.010	0.387	0.007	0.377	185.7
0.37	± 0.005	0.010	0.407	0.007	0.397	165.9
0.40	± 0.005	0.011	0.439	0.007	0.429	141.7
0.45	± 0.006	0.011	0.490	0.007	0.479	112.1
0.50	± 0.006	0.012	0.542	0.008	0.531	89.95
0.55	± 0.006	0.012	0.592	0.008	0.581	74.18
0.60	± 0.008	0.012	0.644	0.008	0.632	62.64
0.65	± 0.008	0.012	0.694	-	-	53.26
0.70	± 0.008	0.013	0.746	-	-	45.84
0.75	± 0.008	0.014	0.798	-	-	39.87
0.80	± 0.010	0.015	0.852	-	-	35.17
0.85	± 0.010	0.015	0.904	-	-	31.11
0.90	± 0.010	0.016	0.956	-	-	27.71
0.95	± 0.010	0.017	1.008	-	-	24.84
1.00	± 0.012	0.017	1.062	-	-	22.49

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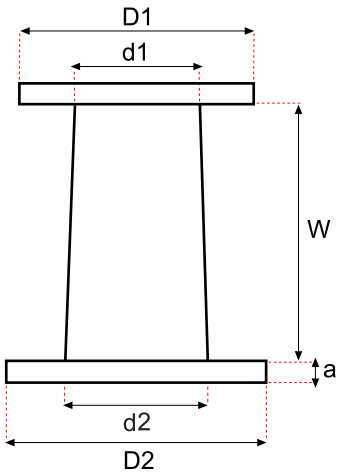
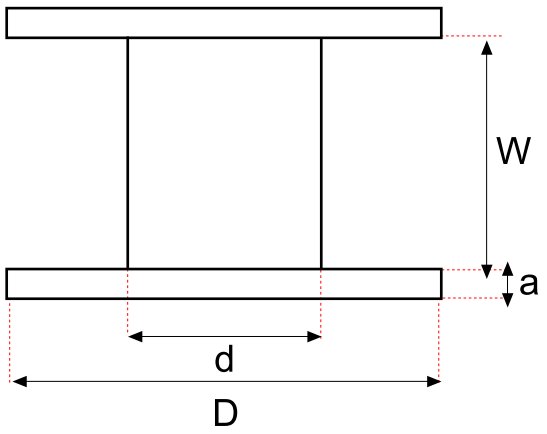
Type of Plastic Bobbins



PT - type

Type	Flange			Barrel diameter		Inner width	Approximately	
	Thickness	Diameter					Enamel weight	Spool weight
	a	D1	D2	d1	d2	W		
	(mm)						(Kg)	(gr)
PT - 10	15 ± 0.2	160 ± 0.5	180 ± 0.5	96 ± 0.5	110 ± 0.5	200 ± 0.4	10	620 ± 10
PT -15	15 ± 0.2	180 ± 0.5	200 ± 0.5	96 ± 0.5	110 ± 0.5	200 ± 0.4	15	740 ± 10
PT - 25	15 ± 0.2	215 ± 0.5	230 ± 0.5	110 ± 0.5	130 ± 0.5	250 ± 0.4	25	1,000 ± 20
PT - 60	25 ± 0.3	270 ± 0.8	300 ± 0.8	150 ± 0.8	175 ± 0.8	350 ± 1.0	60	2,300 ± 40



P - type

Type	Flange		Barrel diameter	Inner width	Approximately	
	Thickness	Diameter			Enamel weight	Spool weight
	a	D	d	W		
	(mm)				(Kg)	(gr)
P - 5	12 ± 0.2	160 ± 0.5	70 ± 0.5	90 ± 0.3	5	300 ± 5
P - 10	12 ± 0.2	200 ± 0.5	90 ± 0.5	110 ± 0.3	10	500 ± 10
P - 30	15 ± 0.2	300 ± 0.5	130 ± 0.5	130 ± 0.5	30	1,300 ± 30

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Synthetic Enamelled Wire
IEC 60317

Dimensional & Electrical data

CONDUCTOR		Grade 1		Grade 2		Grade 3		Conductor resistance at 20 ºC , maximum
Diameter	Tolerance	Increase in diameter	Overall diameter	Increase in diameter	Overall diameter	Increase in diameter	Overall diameter	
		Min.	Max.	Min.	Max.	Min.	Max.	(Ω/km)
(mm)								
0.100	± 0.003	0.008	0.117	0.016	0.125	0.023	0.132	2,332.190
0.106	± 0.003	0.009	0.123	0.017	0.132	0.026	0.140	2,068.392
0.112	± 0.003	0.009	0.130	0.017	0.139	0.026	0.147	1,846.947
0.118	± 0.003	0.010	0.136	0.019	0.145	0.028	0.154	1,659.349
0.125	± 0.003	0.010	0.144	0.019	0.154	0.028	0.163	1,474.306
0.132	± 0.003	0.011	0.152	0.021	0.162	0.030	0.171	1,318.645
0.140	± 0.003	0.011	0.160	0.021	0.171	0.030	0.181	1,169.139
0.150	± 0.003	0.012	0.171	0.023	0.182	0.033	0.193	1,015.483
0.160	± 0.003	0.012	0.182	0.023	0.194	0.033	0.205	890.242
0.170	± 0.003	0.013	0.194	0.025	0.205	0.036	0.217	786.818
0.180	± 0.003	0.013	0.204	0.025	0.217	0.036	0.229	700.424
0.190	± 0.003	0.014	0.216	0.027	0.228	0.039	0.240	627.515
0.200	± 0.003	0.014	0.226	0.027	0.239	0.039	0.252	565.425
0.212	± 0.003	0.015	0.240	0.029	0.254	0.043	0.268	502.360
0.224	± 0.003	0.015	0.252	0.029	0.266	0.043	0.280	449.286
0.236	± 0.004	0.017	0.267	0.032	0.283	0.048	0.298	407.691
0.250	± 0.004	0.017	0.281	0.032	0.297	0.048	0.312	362.608
0.265	± 0.004	0.018	0.297	0.033	0.314	0.050	0.330	322.126
0.280	± 0.004	0.018	0.312	0.033	0.329	0.050	0.345	288.064
0.300	± 0.004	0.019	0.334	0.035	0.352	0.053	0.360	250.452
0.315	± 0.004	0.019	0.349	0.035	0.367	0.053	0.384	226.875
0.335	± 0.004	0.02	0.372	0.038	0.391	0.057	0.408	200.286
0.355	± 0.004	0.020	0.392	0.038	0.411	0.057	0.428	178.112
0.375	± 0.005	0.021	0.414	0.040	0.434	0.060	0.453	160.289
0.400	± 0.005	0.021	0.439	0.040	0.459	0.060	0.478	140.641
0.425	± 0.005	0.022	0.466	0.042	0.488	0.064	0.508	124.397
0.450	± 0.005	0.022	0.491	0.042	0.513	0.064	0.533	110.812
0.475	± 0.005	0.024	0.519	0.045	0.541	0.067	0.562	99.337
0.500	± 0.005	0.024	0.544	0.045	0.566	0.067	0.587	89.556
0.530	± 0.006	0.025	0.576	0.047	0.600	0.071	0.623	49.918
0.560	± 0.006	0.025	0.606	0.047	0.630	0.071	0.653	71.497
0.600	± 0.006	0.027	0.649	0.050	0.674	0.075	0.698	62.192
0.630	± 0.006	0.027	0.679	0.05	0.704	0.075	0.728	56.356

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Synthetic Enamelled Wire
IEC 60317

Dimensional & Electrical data

CONDUCTOR		Grade 1		Grade 2		Grade 3		Conductor resistance at 20°C , maximum
Diameter	Tolerance	Increase in diameter	Overall diameter	Increase in diameter	Overall diameter	Increase in diameter	Overall diameter	
		Min.	Max.	Min.	Max.	Min.	Max.	(½/km)
(mm)								
0.670	± 0.007	0.028	0.722	0.053	0.749	0.080	0.774	49.921
0.710		0.028	0.762	0.053	0.789	0.080	0.814	44.401
0.750	± 0.008	0.030	0.805	0.056	0.834	0.085	0.861	39.857
0.800		0.030	0.855	0.056	0.884	0.085	0.911	34.983
0.850	± 0.009	0.032	0.909	0.060	0.939	0.090	0.968	31.025
0.900		0.032	0.959	0.060	0.989	0.090	1.018	27.641
0.950	± 0.010	0.034	1.012	0.063	1.044	0.095	1.074	24.834
1.000		0.034	1.062	0.063	1.094	0.095	1.124	22.389
1.060	± 0.011	0.034	1.124	0.065	1.157	0.098	1.188	19.949
1.120		0.034	1.184	0.065	1.217	0.098	1.248	17.849
1.180	± 0.012	0.035	1.246	0.067	1.279	0.100	1.311	16.091
1.250	± 0.013	0.035	1.316	0.067	1.349	0.100	1.381	14.346
1.320	± 0.0	0.036	1.388	0.069	1.422	0.103	1.455	12.851
1.400	± 0.014	0.036	1.468	0.069	1.502	0.103	1.535	11.428
1.500	± 0.015	0.038	1.570	0.071	1.606	0.107	1.640	9.955
1.600	± 0.016	0.038	1.670	0.071	1.706	0.107	1.740	8.749
1.700	± 0.017	0.039	1.772	0.073	1.809	0.110	1.844	7.750
1.800	± 0.018	0.039	1.872	0.073	1.909	0.110	1.944	6.913
1.900	± 0.019	0.040	1.974	0.075	2.012	0.113	2.048	6.204
2.000	± 0.020	0.040	2.074	0.075	2.112	0.113	2.148	5.599
2.120	± 0.021	0.041	2.196	0.077	2.235	0.116	2.272	4.983
2.240	± 0.022	0.041	2.316	0.077	2.355	0.116	2.392	4.462
2.360	± 0.024	0.042	2.438	0.079	2.478	0.119	2.516	4.023
2.500	± 0.025	0.042	2.578	0.079	2.618	0.119	2.656	3.584
2.650	± 0.027	0.043	2.730	0.081	2.772	0.123	2.811	3.191
2.800	± 0.028	0.043	2.880	0.081	2.922	0.123	2.961	2.857
3.000	± 0.030	0.045	3.083	0.084	3.126	0.127	3.166	2.489
3.150	± 0.032	0.045	3.233	0.084	3.276	0.127	3.316	2.258
3.350	± 0.034	0.046	3.435	0.086	3.479	0.130	3.521	1.996
3.550	± 0.036	0.046	3.635	0.086	3.679	0.130	3.721	1.778
3.750	± 0.038	0.047	3.838	0.089	3.883	0.134	3.926	1.593
4.000	± 0.040	0.047	4.088	0.890	4.133	0.134	4.176	1.399

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123 KG

Synthetic Enamelled Wire

NEMA

Dimensional & Electrical data

SIZE	CONDUCTOR DIAMETER			Single build		Heavy build		Tripple build	
				Increase in diameter	Overall diameter	Increase in diameter	Overall diameter	Increase in diameter	Overall diameter
AWG	Min.	Nom.	Max.	Min.	Max.	Min.	Max.	Min.	Max.
	(mm)								
6	4.047	4.115	4.135	-	_	0.089	4.244	-	_
7	3.630	3.665	3.683	-	-	0.086	3.727	-	_
8	3.231	3.264	3.282	-	_	0.084	3.383	-	_
9	2.878	2.906	2.921	-	-	0.081	3.020	-	_
10	2.563	2.588	2.601	-	-	0.079	2.695	-	_
11	2.281	2.304	2.316	-	-	0.076	2.408	-	_
12	2.032	2.052	2.062	-	_	0.074	2.151	-	_
13	1.811	1.829	1.839	-	_	0.071	1.923	-	_
14	1.613	1.628	1.636	0.041	1.692	0.081	1.732	0.122	1.778
15	1.435	1.450	1.458	0.038	1.509	0.076	1.547	0.114	1.593
16	1.278	1.290	1.298	0.036	1.349	0.074	1.384	0.109	1.427
17	1.138	1.151	1.156	0.036	1.203	0.071	1.240	0.104	1.280
18	1.013	1.024	1.029	0.033	1.077	0.066	1.110	0.099	1.148
19	0.902	0.912	0.917	0.030	0.963	0.064	0.993	0.094	1.031
20	0.805	0.813	0.818	0.030	0.861	0.058	0.892	0.089	0.925
21	0.716	0.724	0.726	0.028	0.770	0.056	0.798	0.084	0.828
22	0.635	0.643	0.645	0.028	0.686	0.053	0.714	0.081	0.744
23	0.569	0.574	0.577	0.025	0.617	0.051	0.643	0.076	0.671
24	0.505	0.511	0.513	0.025	0.551	0.048	0.577	0.074	0.605
25	0.450	0.455	0.457	0.023	0.493	0.046	0.516	0.069	0.544
26	0.399	0.404	0.406	0.023	0.439	0.043	0.462	0.066	0.490
27	0.358	0.361	0.363	0.020	0.396	0.041	0.417	0.061	0.439
28	0.318	0.320	0.323	0.020	0.356	0.041	0.373	0.058	0.396
29	0.284	0.287	0.290	0.018	0.320	0.038	0.338	0.056	0.361
30	0.251	0.254	0.257	0.018	0.284	0.036	0.302	0.053	0.325
31	0.224	0.226	0.229	0.015	0.254	0.033	0.274	0.043	0.289
32	0.201	0.203	0.206	0.015	0.231	0.030	0.249	0.039	0.261
33	0.178	0.180	0.183	0.013	0.206	0.028	0.224	0.036	0.234
34	0.157	0.160	0.163	0.013	0.183	0.025	0.198	0.033	0.209
35	0.140	0.142	0.145	0.010	0.163	0.023	0.178	0.030	0.188
36	0.124	0.127	0.130	0.010	0.147	0.020	0.160	0.028	0.169
37	0.112	0.114	0.117	0.008	0.132	0.020	0.145	0.026	0.153
38	0.099	0.102	0.104	0.008	0.119	0.018	0.130	0.023	0.137

Note : This is only general information. For other specific requirement, please contact our marketing

Comparison Table of Product Standards

Code	Shape	JIS	IEC	NEMA
PVF	Round	C 3202-2	60317-1	MW 15-C
UEW		-	60317-20	MW 79-C
SBUEW		-	60317-35	-
UEWN		-	60317-21	MW 80-C
PEW		C 3202-5	60317-3	MW 5-C
PEWN		-	-	MW 24-C
EIW		C 3202-8	60317-8	MW 30-C
EIWN		-	60317-22	MW 76-C
EIW AI		-	60317-13	MW 35-C

Note : This is only general information. For other specific requirement, please contact our marketing

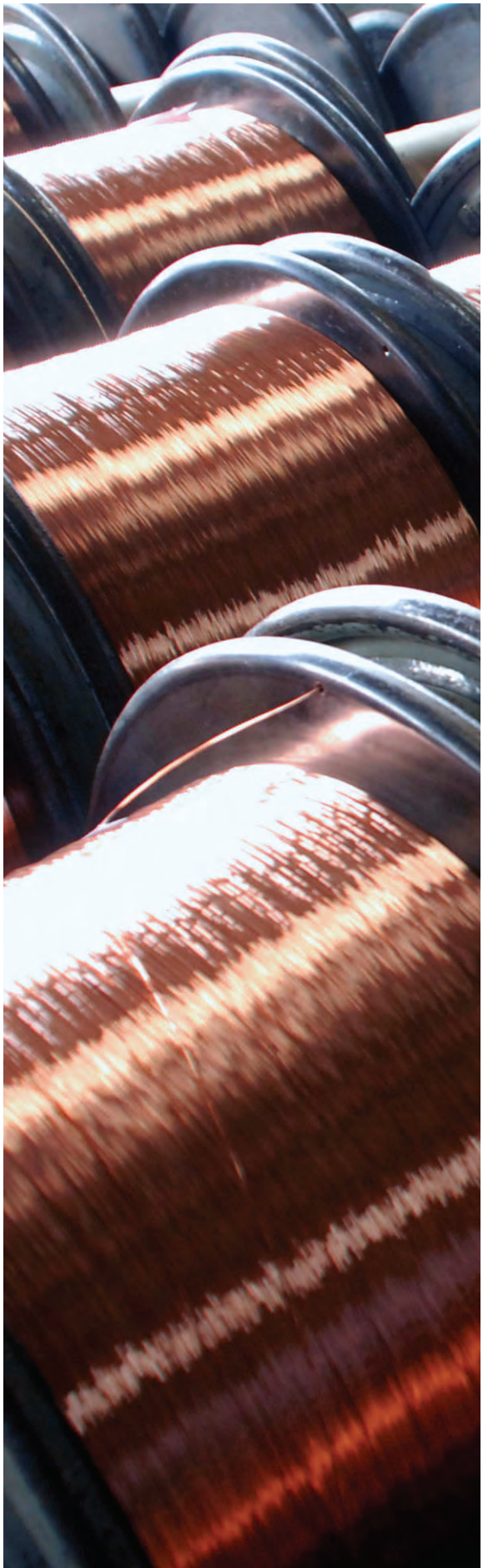
Conversion Table

Size	Conductor Diameter		
	Minimum	Nominal	Maximum
AWG	(mm)	(mm)	(mm)
6	4.074	4.115	4.155
7	3.630	3.665	3.701
8	3.231	3.264	3.297
9	2.878	2.906	2.934
10	2.563	2.588	2.614
11	2.281	2.304	2.327
12	2.032	2.052	2.073
13	1.811	1.829	1.847
14	1.613	1.628	1.643
15	1.435	1.450	1.466
16	1.278	1.290	1.303
17	1.138	1.151	1.163
18	1.013	1.024	1.034
19	0.902	0.912	0.922
20	0.805	0.813	0.820
21	0.716	0.724	0.732
22	0.635	0.643	0.650
23	0.569	0.574	0.579
24	0.505	0.511	0.516
25	0.450	0.455	0.460
26	0.399	0.404	0.409
27	0.358	0.361	0.363
28	0.318	0.320	0.323
29	0.284	0.287	0.290
30	0.251	0.254	0.257
31	0.224	0.226	0.229
32	0.201	0.203	0.206
33	0.178	0.180	0.183
34	0.157	0.160	0.163
35	0.140	0.142	0.145
36	0.124	0.127	0.130
37	0.112	0.114	0.117
38	0.099	0.102	0.104
39	0.086	0.089	0.091
40	0.076	0.079	0.081

Size	Conductor Diameter		
	Minimum	Nominal	Maximum
SWG	(mm)	(mm)	(mm)
8	4.023	4.064	4.104
9	3.622	3.658	3.693
10	3.218	3.251	3.284
11	2.916	2.946	2.976
12	2.616	2.642	2.667
13	2.314	2.337	2.359
14	2.012	2.032	2.052
15	1.811	1.829	1.846
16	1.610	1.626	1.640
17	1.407	1.422	1.437
18	1.207	1.219	1.231
19	1.006	1.016	1.026
20	0.904	0.914	0.924
21	0.804	0.813	0.822
22	0.703	0.711	0.719
23	0.604	0.610	0.616
24	0.553	0.559	0.565
25	0.502	0.508	0.514
26	0.452	0.457	0.462
27	0.412	0.417	0.422
28	0.371	0.376	0.381
29	0.341	0.345	0.349
30	0.311	0.315	0.319
31	0.291	0.295	0.299
32	0.270	0.274	0.278
33	0.250	0.254	0.258
34	0.230	0.234	0.238
35	0.210	0.213	0.216
36	0.190	0.193	0.196
37	0.170	0.173	0.176
38	0.149	0.152	0.155
39	0.129	0.132	0.135
40	0.119	0.122	0.125
41	0.109	0.112	0.115
42	0.099	0.102	0.105
43	0.088	0.091	0.094
44	0.078	0.081	0.084

Note : This is only general information. For other specific requirement, please contact our marketing

Enamelled wire testing



1 Appearance

2 Dimensions

3 Adherence and flexibility

4 Elongation

5 Heat shock

6 Springback

7 Dielectric breakdown

8 Continuity

9 Solderability

10 Thermoplastic flow

11 Conductor resistance

12 Mandrel Wrap

13 Scrape resistance

14 Bond strength - room temperature

15 Completeness of cure