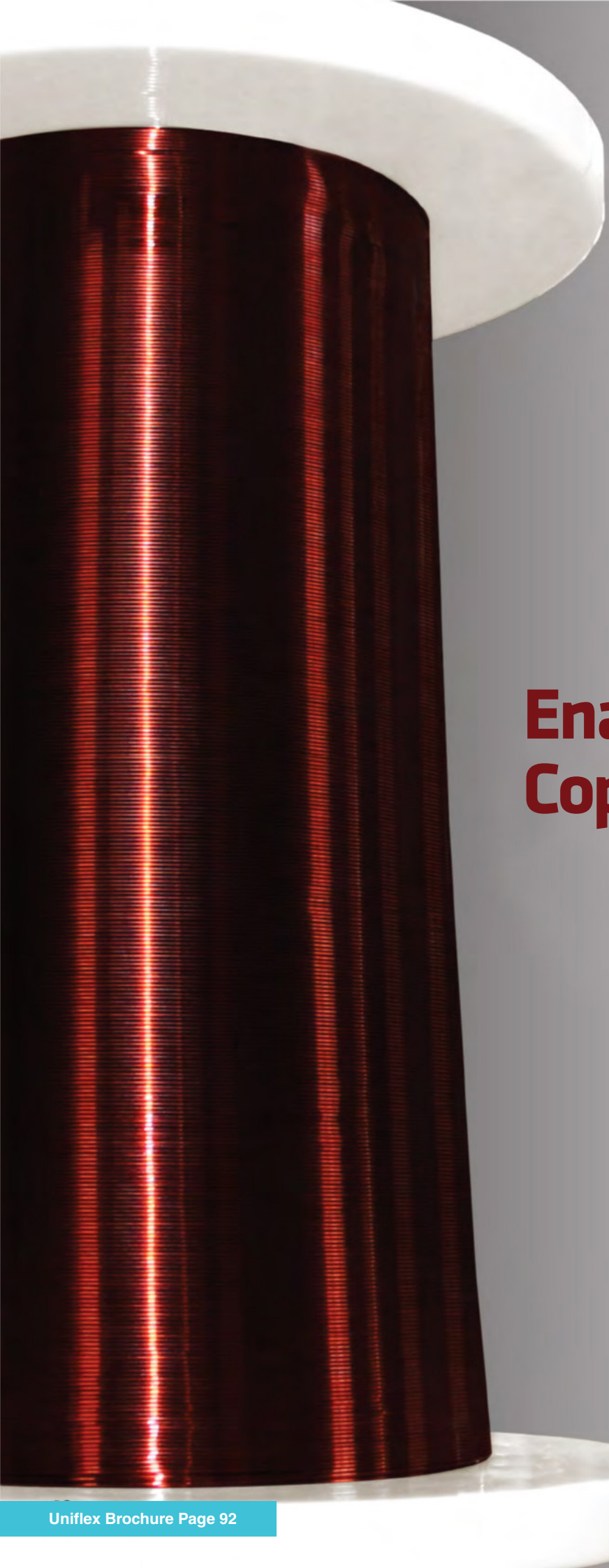


Enamelled Round Copper Wires

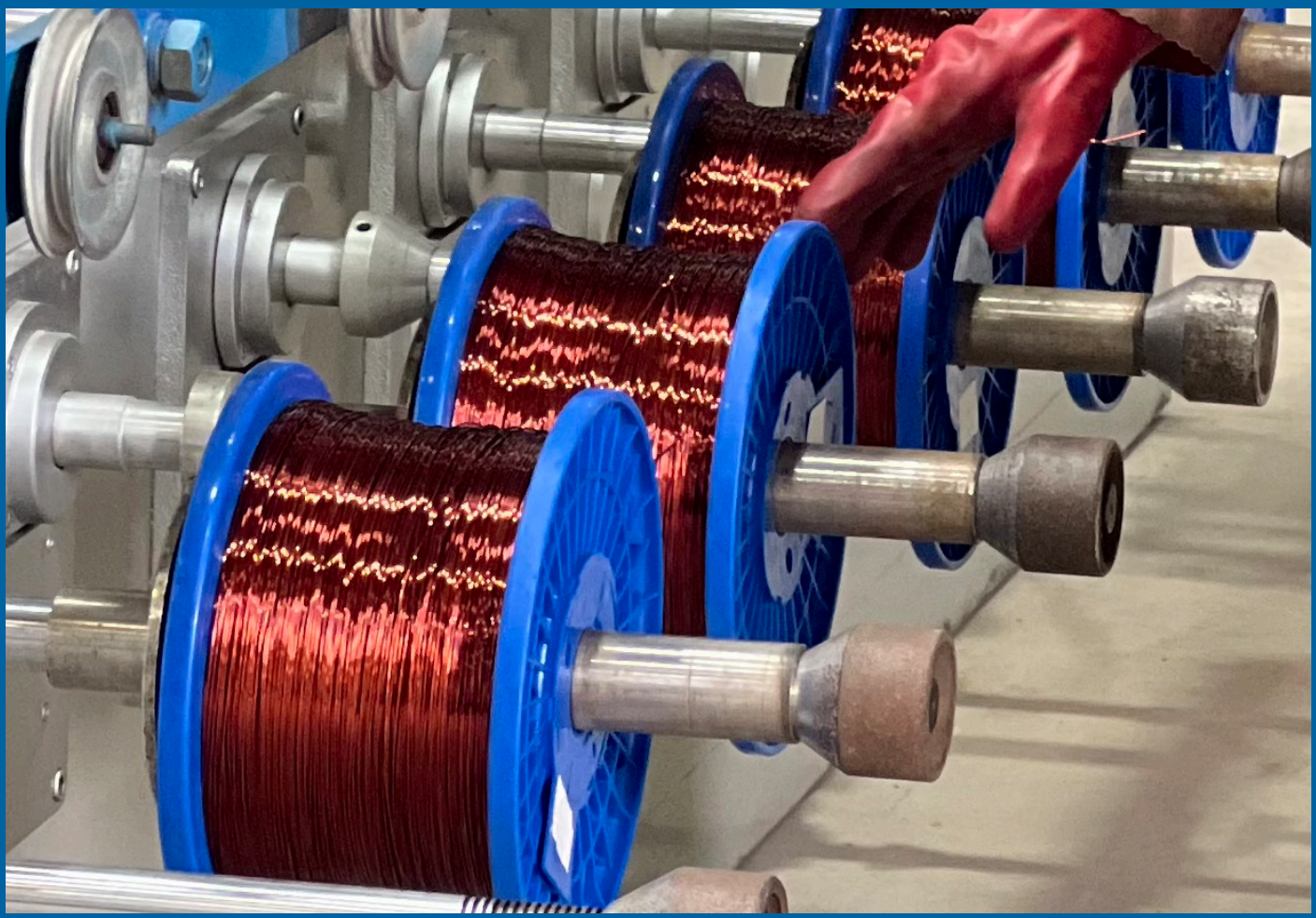
Enamelled Wires

Uniflex Wires and Cables Limited (“UNIFLEX”) an ISO 9001:2018, ISO 14001:2015 and ISO 45001:2018 **certified company**, was established in 2022 as a privately-owned greenfield manufacturing project in Lusaka with a vision to **manufacture** and **distribute** the best-in-class **Energy Efficient Wires & Cables** along with other Copper Products in Zambia & its neighbouring countries and thereby contribute critically in expanding the national Industrial capacity.

Since its inception, **UNIFLEX** has continuously expanded its Production Capacity and Product Range and thereby has emerged as one of the **most Reliable & Preferred** brands of Copper Products in Zambia.

As a part of its continuous endeavour & vision to expand its Product Portfolio, **UNIFLEX** has commissioned its state-of-the-art manufacturing facility for **ENAMELLED** Round Copper Winding Wires in Lusaka and thereby has become the first company in Zambia to manufacture the **Copper Enamelled Wire** locally. The latest PC-based equipment for measurement of Dielectric Dissipation Factor (Tan d), and well-equipped quality testing laboratory, ensure consistent wire quality during production.

UNIFLEX now offers an extensive range of **Enamelled Wires** and Copper strip profiles which are suitable for application in Transformers, Motors, Alternators, Contactors, Relays and Auto electricals. Moreover, the Winding Wires are also suitable for use in high-speed coil winding machines. **UNIFLEX** Enamelled Wires are **manufactured** strictly as per discrete International Standards IEC and NEMA. The Copper Conductors are manufactured from **99.997%** of pure ETP grade copper and insulated with high thermal class engineered insulation material, which provides excellent dielectric **properties** and excellent resistance to cracking.



Enamelled Round Winding Wires - Product Range

	1	2	3	4	5	6
Type of enamelled wire	**High mechanical strength**	**Sell solderable & bondable**	**General purpose**	**Self solderable**	**High Thermal & Mechanical/ strength**	**High temperature**
SPECIFICATION STANDARD*	IS : 13730-1/ IEC-60317-1/ NEMA MW-15C/ JIS C 3202	IS: 13730-2/ 1 EC-60317-2	IS : 13730-3/ IEC-60317-3/ NEMA MW-5C	IS : 13730-4/ IEC-60317-4/ NEMA MW-75C/ JIS C 3202	IS: 13730-7/ IEC-60317-7	IS: 13730-8/ IEC-60317-8/ NEMA MW-30C/ JIS C 3202
THERMAL CLASS	130(B)	130 (B)	155 (F)	130 (B)	200	180(B)
Chemical base of base coat	Modified Polyvinyl Acetal	Polyurethanel	Modified Polyester	Polyurethane	Polyimide	Polyesterimide
Chemical base of top coat	Not applicable	Polyvinyl butyral/ Polyamide	Not applicable	Not Applicable	Not Applicable	Not Applicable
Range of Wire (Diameter)	5.000-0.500 mm	2.000-0-050 mm	5.000-0.050 mm	2.000-0.050 mm	5.000-0.200 mm	5.000-0.050 mm
Insulation Range	Grade 1,2 & 3 as per IEC (Single, Heavy & Triple as per NEMA)	Grade 1,2 8.3 as per IEC (Single. Heavy & Triple as per NEMA)	Grade 1,28 3 as per IEC (Single, Heavy & Triple as per NEMA)	Grade 1,2 & 3 as per IEC (Single, Heavy & Triple as per NEMA)	Grade 1 & 2 as per IEC (Single, Heavy & Triple as per NEMA)	Grade 1,2 & 3 as per IEC (Single, Heavy & Triple as per NEMA)
Standard colour	Golden Yellow to Light Orange	As per requirement	Light Brown/ Medium Drown	As per requirement	Golden Yellow to Light Orange	Light Brown/ Medium Drown
UL Listed	File No.: None	File No. : None	File No. : None	File No. : None	File No.: None	File No. : None
TECHNICAL PROPERTIES AS PER IS:13730-0-1 / IEC-60317-0-1						
Heat shock (°C)	155	155	175	155	240	200
Cut through (°C)	170	170	240	170	400	300
Solderable temperature (°C)	Not applicable	375	Not applicable	375	Not applicable	Not applicable
Resistance to Abrasion for 1.00mm dia grade 2 wire (n)	>11.3	>9.3	>10.4	>9.3	>6.6	>10.9
Resistance to refrigerants	Very good	Not applicable	Not applicable	Not applicable	Very Good	Good
Flexibility & Adherence	Very good	Good	Good	Good	Very Good	Good
Bonding Temperature (°C)	Not applicable	170/200 depending on overcoat	Not applicable	Not applicable	Not applicable	Not applicable
SPECIAL CHARACTERISTICS & APPLICATION	High mechanical properties, good transformer oil resistance, suitable for 130°C Hermetic applications, used in oil filled transformers & equipments requiring high mechanical properties such as auto electricals.	Solderable, thermoplastic bonded by heat or solvent, used for all self supported coils for television, small motors, relays, magnets, telephones & voice coils of all kinds can be bonded in forms by heating at 170/180°C	Upgraded thermo mechanical properties compared to ordinary polyesters, used in ignition coils. oil filled transformers, relays, contactors, fhp motors. This version can also be made for upgraded abrasion.	Self solderable property with good insulation resistance, high flexibility used in all communication equipments, relays, magnetic spools, universal 8 non-impregnated winding of all kinds of transformers.	Designed for using of wire for product with maximum value of the thermal and mechanical characteristics	Good resistance against refrigerants, transformer oil. high burnout resistance, used in fhp motors, hermetic application and thermal class 180°C equipments.
Special Notes	Can be supplied with Polyamide (Nylon) topcoated for improved high¬ speed windability, if required.		Can be supplied with Polyamide (Nylon) topcoated tor improved high¬ speed windability. if required.	Can be supplied with Polyamide (Nylon) topcoated for improved high-speed windability, if required.		Can be supplied with Polyamide (Nylon) topcoated for improved high¬ speed windability, if required.

7	8	9	10	11	12	13	14	15
High temperature	**Self solderable**	**Self**	**General purpose**	**Self solderable**	**High Thermal & Mechanical/ strength**	**High temperature**	**High Thermal & Mechanical/ strength**	**High Thermal & Mechanical/ strength**
IS : 13730-13/ IEC- 60317-13/ NEMA MW-35C/ 73C(Hermetic)	IS: 13730-19/ IEC-60317-19 NEMA MW-28C	IS : 13730-20/ IEC-60317-20/ NEMA MW-79C	IS : 13730-21/ IEC-60317-21 NEMA MW-80C	IS : 13730-22/ IEC-60317-22/ NEMA MW-76C	IS : 13730-23/ IEC-60317-23	NEMA MW-24C	IS : 13730-26/ IEC-60317-26/ NEMA MW-81C	IS : 13730-34/ IEC-60317-34/ JIS C 3202-PEW
NEMA MW-35C/ 73C(Hermetic)	IS: 13730-19/ IEC-60317-19 NEMA MW-28C	IS : 13730-20/ IEC-60317-20/ NEMA MW-79C	IS : 13730-21/ IEC-60317-21 NEMA MW-80C	IS : 13730-22/ IEC-60317-22/ NEMA MW-76C	IS : 13730-23/ IEC-60317-23	NEMA MW-24C	IS : 13730-26/ IEC-60317-26/	200
200 (C)	130 (B)	155(F)	155 (F)	180(H)	180(H)	155(F)	200 (C)	130(B)
Theicpolyester / Polyesterimide	Polyurethane	Polyurethane	Polyurethane	Polyester/ Polyesterimide	Polyesterimide	Polyester	Polyamideimide	Polyester
Polyamideimide	Nylon	Not applicable	Nylon	Nylon	Not applicable	Polyamide	Not applicable	Not applicable
5.000-0.050 mm	2.000-0.050 mm	0.800-0.050 mm	1.600-0.050 mm	5.000-0.050 mm	1.600-0.050 mm	1.600-0.254 mm	1.600-0.071 mm	5.000-0.050 mm
Grade 1,28 3 as per IEC (Single, Heavy & Triple	Golden Yellow to Light Orange	As per requirement	Light Brown/ Medium Drown	As per requirement	Golden Yellow to Light Orange	Light Brown/ Medium Drown	Golden Yellow to Light Orange	Golden Yellow to Light Orange
Light Brown Medium Bruwu	As per requirements	As per requirements	As per requirements	Medium Brown to Dark Bruwn	Light Brown	As per requirement	Light Brown	Medium Brown
File No.: El 74288 Thermal Class 200 and 220	File No.: None	File No.: El 74288 Thermal Class 155	File No.: None	File No.: El 74288 Thermal Class 180	File No.: None	File No.: El 74288 Thermal Class 155	File No.: None	File No.: None
200	155	175	175	200	200	175	220	155
320	170	200	200	265	265	240	350	240
Not applicable	375	390	390	Not applicable	470	Not applicable	Not applicable	Not applicable
>11.3	>9.3	>8.1 (0.8 mm)	>9.3	>10.9	>10.9	>10.0	>7.05 (forgr.1)	>10.4
Very good	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Very good	Not applicable
Very good	Good	Good	Good	Good	Good	Good	Good	Good
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Very good resistance for refrigerants & chemicals, high burnout resistance, excellent windability, low coefficient of friction, high slotfill factor, used in special motors including Hermetic motors, Armatures, Alternators, Power Tools and high HP motors, suitable for high speed coil winding.	Low coefficient of friction, besides properties of general purpose polyurethane. It is suitable for winding in small size motors, coils of electrical instruments, especially of high speed winding.	Self solderable property with its low dielectric dissipation factor under high frequency. It can be widely used in electrical instruments of machine tools, motors which have special requirements of this type of enamel.	Low coefficient of friction, besides properties of polyurethane, suitable for winding in small and medium electrical instruments, for high speed winding.	Used in all 180°C class equipment requiring high speed machine winding, low coefficient of friction.	Self solderable with high potential both under the dry and humid conditions, good properties in heat shock and cut through, it is suitable for the coils of various motor appliances, instruments and telephone equipments.	Good mechanical, electrical 8 chemical resistance properties. Improved for high speed winding. FHP motors, coils 8 relays, audio 8 instrument coils.	High burnout resistance, excellent windability. low coefficient of friction, high slot fill factor, used in special types of motors 8 electromotive tools.	Good thermal 8 electrical properties, used in general purpose rotating 8 static electrical equipments, oil transformers, control coils

	16	17	18	19	20	21
Type of enamelled wire	**Self solderable/ Self bonding**	**Self solderable/ Self bonding**	**Self bonding**	**General purpose**	**General purpose**	**Self solderable High Temperature**
SPECIFICATION STANDARD*	IS : 13730-35/ IEC-60317-35 JIS C 3202-SBUEW	IS : 13730-36/ IEC-60317-36 JIS C 3202-SBUEW	IS : 13730-37/ IEC-60317-37	IS : 13730-45/ IEC-60317-45	IS : 13730-54/ IEC-60317-54	IS: 13730-51/ IEC-60317-51/ NEMA MW-82C
THERMAL CLASS	155 (F)	180(H)	180 (H)	130 (B)	155 (F)	180 (H)
Chemical base of base coat	Polyurethane	Polyesterimide	Polyesterimide	Polyester	Polyester	Polyurethane
Chemical base of top coat	Polyvinyl Polyvinyl butyral/Polyamide butyral/ Polyamide		Polyvinyl butyraVPolyamide Not applicable		Not Applicable	Not Applicable
Range of Wire (Diameter)	0.800-0.050 mm	1.600-0.050 mm	1.600-0.050 mm	5.000-0.050 mm	5.000-0.050 mm	1.000-0.050 mm
Insulation Range	Grade 1b, 2b & 3b as per IEC (Single, Heavy & Triple as per NEMA)	Grade 1b, 2b & 3b as per IEC (Single, Heavy & Triple as per NEMA)	Grade 1b, 2b & 3b as per IEC (Single, Heavy & Triple as per NEMA)	Grade 1,2 8 3 as per IEC (Single, Heavy & Triple as per NEMA)	Grade 1.2& 3 as per IEC (Single, Heavy & Triple as per NEMA)	Grade 1,2 & 3 as per IEC (Single, Heavy & Triple as per NEMA)
Standard colour	As per requirements	Light Brown / Medium Brown	Light Brown/ Medium Brown	Light Brown/ Medium Brown	Light Brown/ Medium Brown	As per requirements
UL Listed	File No.: None	File No.: None	File No.: None	File No.: None	File No.: None	File No.: None
TECHNICAL PROPERTIES AS PER IS:13730-0-1 / IEC-60317-0-1						
Heat shock (°C)	175	200	200	155	175	200
Cut through (°C)	200	265	300	240	240	240
Solderable temperature (°C)	390	470	Not applicable	Not applicable	Not applicable	Not applicable
Resistance to Abrasion for 1.00mm dia grade 2 wire (n)	>8.1	>10.9	>10.9	>10.4	>10.4	>7.8
Resistance to refrigerants	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
Flexibility & Adherence	Good	Good	Good	Good	Good	Good
Bonding Temperature (°C)	170/200 depending	170/200 depending	170/200 depending on overcoat	on overcoat	Not applicable	Not applicable
SPECIAL CHARACTERISTICS & APPLICATION	Solderable, thermoplastic bonded by heat or solvent, used for all self supported coils for television, electronics, small motors, relays, magnets, telephones & volve coils of all kinds can be bonded in forms by heating at 170/180°C	Solderable, thermoplastic bonded by heat or solvent, used for all self supported coils for television, electronics, small motors, relays, magnets, telephones & volve coils of all kinds can be bonded in forms by heating at 170/180'C	Class 180°C with self bonding property and all other properties of Polyesterimide.	General purpose 130°C polyester Good thermal 8 electrical properties, used in general purpose rotating & static electrical equipments, oil transformers, control coils.	General purpose 155°C polyester with heat shock at higher mandrel diameter. Good thermal & electrical properties, used in general purpose rotating & static electrical equipments, oil transformers, control coils.	Good mechanical, electrical & chemical resistant properties. Improved thermal resistance. Fast solderability. Fractional & integral horsepower motors Class 155. Coils & relays. Instrument 8 audio coils.

Diameters And Increase In Diameters Of Enamelled Round Winding Wires (Metric Sizes)
Basis: IEC 60317-0-1

Physical Parameters

Conductor Diameter	Conductor Tolerance	Grade 1		Grade 2		Grade 3	
		Minimum Increase	Maximum Overall Dia	Minimum Increase	Minimum Overall Dia	Minimum Increase	Maximum Overall Dia
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
0.040	-	-	0.049	-	0.054	-	-
0.045	-	-	0.055	-	0.061	-	-
0.050	-	-	0.060	-	0.066	-	-
0.056	-	-	0.067	-	0.074	-	-
0.063	-	-	0.076	-	0.083	-	-
0.071	0.003	0.007	0.084	0.012	0.091	0.018	0.097
0.080	0.003	0.008	0.094	0.014	0.101	0.020	0.108
0.090	0.003	0.008	0.105	0.015	0.113	0.022	0.120
0.100	0.003	0.008	0.117	0.016	0.125	0.023	0.132
0.112	0.003	0.009	0.130	0.017	0.139	0.026	0.147
0.125	0.003	0.010	0.144	0.019	0.154	0.028	0.163
0.140	0.003	0.011	0.160	0.021	0.171	0.030	0.181
0.160	0.003	0.012	0.182	0.023	0.194	0.033	0.205
0.180	0.003	0.013	0.204	0.025	0.217	0.036	0.229
0.200	0.003	0.014	0.226	0.027	0.239	0.039	0.252
0.224	0.003	0.015	0.252	0.029	0.266	0.043	0.280
0.250	0.004	0.017	0.281	0.032	0.297	0.048	0.312
0.280	0.004	0.018	0.312	0.033	0.329	0.050	0.345
0.315	0.004	0.019	0.349	0.035	0.367	0.053	0.384
0.355	0.004	0.020	0.392	0.038	0.411	0.057	0.428
0.400	0.005	0.021	0.439	0.040	0.459	0.060	0.478
0.450	0.005	0.022	0.491	0.042	0.513	0.064	0.533
0.500	0.005	0.024	0.544	0.045	0.566	0.067	0.587
0.560	0.006	0.025	0.606	0.047	0.630	0.071	0.653
0.630	0.006	0.027	0.679	0.050	0.704	0.075	0.728
0.710	0.007	0.028	0.762	0.053	0.789	0.080	0.814
0.800	0.008	0.030	0.855	0.056	0.884	0.085	0.911
0.900	0.009	0.032	0.959	0.060	0.989	0.090	1.018
1.000	0.010	0.034	1.062	0.063	1.094	0.095	1.124
1.120	0.011	0.034	1.184	0.065	1.217	0.098	1.248
1.250	0.013	0.035	1.316	0.067	1.349	0.100	1.381
1.400	0.014	0.036	1.468	0.069	1.502	0.103	1.535
1.600	0.016	0.038	1.670	0.071	1.706	0.107	1.740
1.800	0.018	0.039	1.872	0.073	1.909	0.110	1.944
2.000	0.020	0.040	2.074	0.075	2.112	0.113	2.148
2.240	0.022	0.041	2.316	0.077	2.355	0.116	2.392
2.500	0.025	0.042	2.578	0.079	2.618	0.119	2.656
2.800	0.028	0.043	2.880	0.081	2.922	0.123	2.961
3.150	0.032	0.045	3.233	0.084	3.276	0.127	3.316
3.550	0.036	0.046	3.635	0.086	3.679	0.130	3.721
4.000	0.040	0:047	4.088	0.089	4.133	0.134	4.176
4.500	0.045	0.049	4.591	0.092	4.637	0.138	4.681
5.000	0.050	0.050	5.093	0.094	5.141	0.142	5.186

Diameters And Increase In Diameters Of Enamelled Round Winding Wires (Metric Intermediate Sizes)

Physical Parameters

Conductor Diameter	Conductor Tolerance	Grade 1		Grade 2		Grade 3	
		Minimum Increase	Maximum Overall Dia	Minimum Increase	Minimum Overall Dia	Minimum Increase	Maximum Overall Dia
(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
0.043	-	-	0.052	-	0.058	-	-
0.048	-	-	0.059	-	0.065	-	-
0.053	-	-	0.064	-	0.070	-	-
0.063	-	-	0.072	-	0.079	-	-
0.067	0.003	0.007	0.080	0.012	0.088	0.018	
0.075	0.003	0.007	0.089	0.014	0.095	0.020	0.102
0.085	0.003	0.008	0.100	0.015	0.107	0.022	0.114
0.095	0.003	0.008	0.111	0.016	0.119	0.023	0.126
0.106	0.003	0.009	0.123	0.017	0.132	0.026	0.140
0.118	0.003	0.010	0.136	0.019	0.145	0.028	0.154
0.132	0.003	0.011	0.152	0.021	0.162	0.030	0.171
0.150	0.003	0.012	0.171	0.023	0.182	0.033	0.193
0.170	0.003	0.013	0.194	0.025	0.205	0.036	0.217
0.190	0.003	0.014	0.216	0.027	0.228	0.039	0.240
0.212	0.003	0.015	0.240	0.029	0.254	0.043	0.268
0.236	0.004	0.017	0.267	0.032	0.283	0.048	0.298
0.265	0.004	0.018	0.297	0.033	0.314	0.050	0.330
0.300	0.004	0.019	0.334	0.035	0.352	0.053	0.369
0.335	0.004	0.020	0.372	0.038	0.391	0.057	0.408
0.375	0.005	0.021	0.414	0.040	0.434	0.060	0.453
0.425	0.005	0.022	0.466	0.042	0.488	0.064	0.508
0.475	0.005	0.024	0.519	0.045	0.541	0.067	0.582
0.530	0.006	0.025	0.576	0.047	0.600	0.071	0.623
0.600	0.006	0.027	0.649	0.050	0.674	0.075	0.698
0.670	0.007	0.028	0.722	0.053	0.749	0.080	0.774
0.750	0.008	0.030	0.805	0.056	0.834	0.085	0.861
0.850	0.009	0.032	0.909	0.060	0.939	0.090	0.968
0.950	0.010	0.034	1.012	0.063	1.044	0.095	1.074
1.060	0.011	0.034	1.124	0.065	1.157	0.098	1.188
1.180	0.012	0.035	1.246	0.067	1.279	0.100	1.311
1.320	0.013	0.036	1.388	0.069	1.422	0.103	1.455
1.500	0.015	0.038	1.570	0.071	1.606	0.107	1.640
1.700	0.017	0.039	1.772	0.073	1.809	0.110	1.844
1.900	0.019	0.040	1.974	0.075	2.012	0.113	2.048
2.120	0.021	0.041	2.196	0.077	2.235	0.116	2.272
2.360	0.024	0.042	2.438	0.079	2.478	0.119	2.516
2.650	0.027	0.043	2.730	0.081	2.772	0.123	2.811
3.000	0.030	0.045	3.083	0.084	3.126	0.127	3.166
3.350	0.034	0.046	3.435	0.086	3.479	0.130	3.521
3.750	0.038	0.047	3.838	0.089	3.883	0.134	3.926
4.250	0.043	0.049	4.341	0.092	4.387	0.138	4.431
4.750	0.048	0.050	4.843	0.094	4.891	0.142	4.936

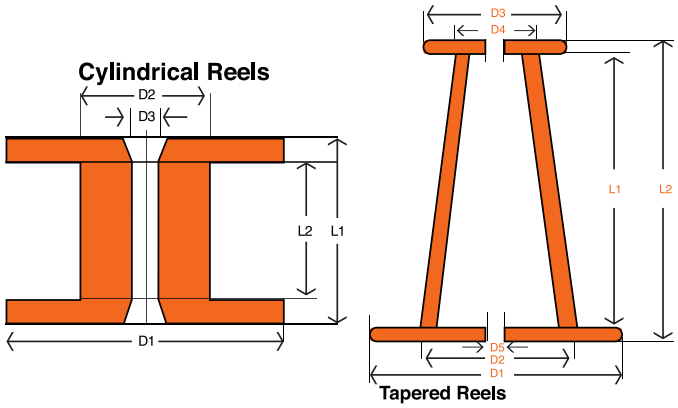
Diameters And Increase In Diameters Of Enamelled Round Winding Wires (Swg Sizes)

Physical Parameters

Nominal Conductor Diameter		Conductor Tolerance +/-	Grade 1		Grade 2		Grade 3	
			Minimum Increase	Maximum Overall Dia	Minimum Increase	Minimum Overall Dia	Minimum Increase	Maximum Overall Dia
(SWG)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
11	2.946	0.030	0.045	3.029	0.084	3.072	0.127	3.112
12	2.642	0.027	0.043	2.722	0.081	2.764	0.123	2.803
13	2.337	0.024	0.042	2.415	0.079	2.455	0.119	2.493
14	2.032	0.020	0.041	2.108	0.077	2.147	0.116	2.184
15	1.829	0.019	0.040	1.903	0.075	1.941	0.113	1.977
16	1.626	0.017	0.039	1.698	0.073	1.735	0.110	1.770
17	1.422	0.015	0.038	1.492	0.071	1.528	0.107	1.562
18	1.219	0.013	0.035	1.285	0.067	1.318	0.100	1.350
19	1.016	0.011	0.034	1.080	0.065	1.113	0.098	1.144
20	0.914	0.010	0.034	0.976	0.063	1.008	.095	1.038
21	0.813	0.009	0.032	0.872	0.060	0.902	.090	0.931
22	0.711	0.008	0.030	0.766	0.056	0.795	.085	0.822
23	0.610	0.006	0.027	0.659	0.050	0.684	0.075	0.708
24	0.559	0.006	0.025	0.605	0.047	0.629	0.071	0.652
25	0.508	0.006	0.025	0.554	0.047	0.578	0.071	0.602
26	0.457	0.005	0.024	0.501	0.045	0.523	0.067	0.544
27	0.417	0.005	0.022	0.458	0.042	0.480	0.064	0.500
28	0.376	0.005	0.021	0.417	0.040	0.435	0.060	0.454
29	0.345	0.005	0.020	0.382	0.038	0.401	0.057	0.418
30	0.315	0.004	0.019	0.349	0.035	0.367	0.053	0.384
31	0.295	0.004	0.019	0.329	0.035	0.347	0.053	0.364
32	0.274	0.004	0.018	0.306	0.033	0.323	0.050	0.339
33	0.254	0.004	0.018	0.286	0.033	0.303	0.050	0.319
34	0.234	0.004	0.017	0.265	0.032	0.281	0.048	0.296
35	0.213	0.003	0.015	0.241	0.029	0.255	0.043	0.269
36	0.193	0.003	0.014	0.219	0.027	0.232	0.039	0.245
37	0.173	0.003	0.013	0.197	0.025	0.210	0.036	0.222
38	0.152	0.003	0.012	0.174	0.023	0.186	0.033	0.197
39	0.132	0.003	0.011	0.152	0.021	0.162	0.030	0.171
40	0.122	0.003	0.010	0.141	0.019	0.151	0.028	0.160
41	0.112	0.003	0.009	0.130	0.017	0.139	0.026	0.147
42	0.102	0.003	0.009	0.119	0.017	0.128	0.026	0.136
43	0.091	0.003	0.008	0.107	0.016	0.115	0.023	0.122
44	0.081	0.003	0.008	0.096	0.015	0.103	0.022	0.110
45	0.071	0.003	0.007	0.084	0.012	0.091	0.018	0.097

Packaging Details and Reel Dimensions

Cylindrical Type As Per BS1489								
Parallel Barrel Reels	Wire Range in mm.	Dimension in mm.					Reel Capacity (Kg)	Weight
		D1	D2	D3	L1	L2		
IN 24	0.125-0.250	160	85	36	125	100	3	0.24
IN 34	0.280-0.800	200	100	38	155	125	8	0.45
IN 42	0.800-2.240	245	110	40	150	120	18	0.65



Tapered Type As Per DIN 4683 (IEC 60264 - 3)										
Parallel Barrel Reels	Wire Range in mm.	Dimension in mm.							Reel Capacity (Kg)	Weight
		Flange Diameter	Barrel Diameter	Bore Diameter	Traverse Length	Flange Diameter	Flange Diameter	Overall Length		
		D1	D3	D2	D4	D5	L1	L2		
PT - 01	0.125 - 0.150	105	95	58	53	22	100	120	1	0.10
PT - 04	0.190 - 0.250	140	125	84	73	25	170	198	4	0.25
PT - 10	0.100 - 0.315	180	160	110	95	30	200	227	10	0.56
PT - 15	0.100 - 0.315	200	180	108	95	30	200	227	15	0.62
PT - 20	0.200 - 0.500	225	210	150	132	32	248	278	20	0.74
PT - 25	0.500 - 1.120	225	210	128	108	32	248	278	25	0.74
PT - 45	0.355 - 2.000	250	236	160	140	100	335	400	45	2.00
PT - 90	1.400 - 2.000	315	300	200	180	100	425	550	90	3.90

Bare Copper Wire / Copper Strip And Copper Profile

Specification	Size Range
Bare Copper wires for general engineering purposes	Conductor Size: 0.4 mm to 6.00 mm
Bare copper Strip for electrical purposes	Cross Sectional area: 4 to 75 Sq mm Width: 4 to 15 mm, Thick :1 to 5 mm

Application: Cable, Imitation, Plating, Switch gears, pump and motors, Electrical control panel, Other types of Electrical & Electronic Equipments