



**PiNANK**  
WIRES AND CABLES LLP



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Collaboration of indo german Technology of MAG





For more than two decade - Maruti Wiretech Pvt. Ltd is the manufacturer & Exporter of submersible winding wires

In pursuit of achieving Excellence quality product business excellence and supply products offer services that exceeds the expectation of our customers now we start new company **Pinank Wires & Cables LLP** which is manufacturing ENAMELED ROUND COPPER WINDING WIRES & CORE PVC FLAT SUBMERSIBLE CABLES

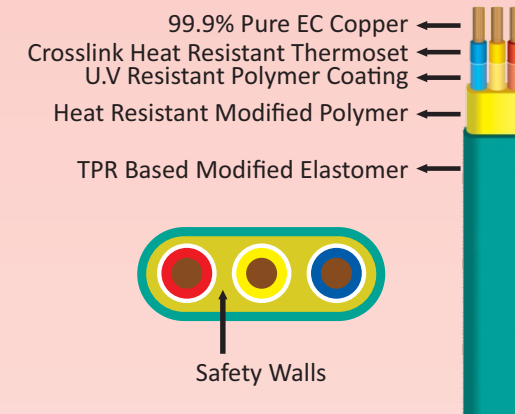
The Factory is situated at padadhari Rajkot (Gujarat) about 700 kms from Mumbai. The Largest Metro City and Commercial Capital of India and 40 kms from Rajkot on National highway . It is connected to all part of the country by road & railways and also connected to mundra & kandla port of Gujarat which are just 200 kms away

The Company is an ISO 9001:2015 Certified Company by international Standards Certification and accredited by the joint accreditation system of germany & Austria and is amongst the very few manufacturers of these product having this quality management system certification.

The Consistent quality of our products competitive pricing and timely deliveries have helped **Pinank Wires & Cables LLP** build a wide client base that includes discerning multinational corporations.

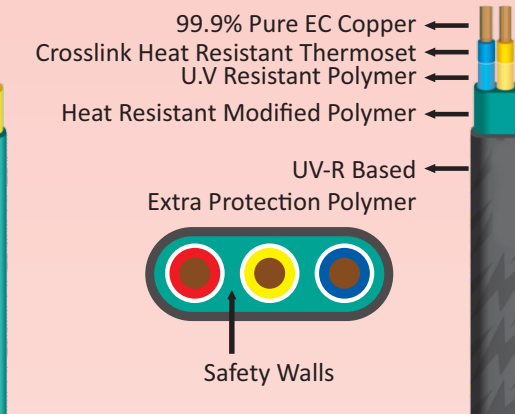
## Submersible Cables

### Maruti Platinum



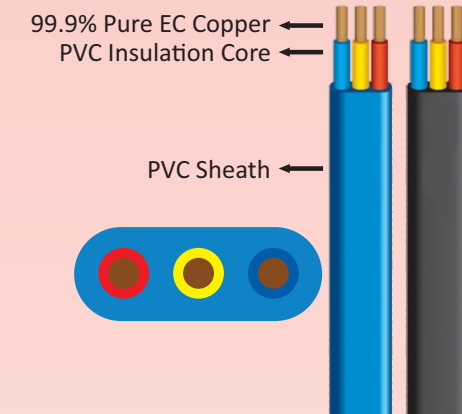
- TPR Based Three core flat cables with modified Poly-Elastomer Sheathed.
- Operates in temperature ranging -40 to +95 C
- Used 99.9% pure EC Grade copper
- Maruti Platinum cable with High-Life performing insulation & sheath with low water absorption rate.
- Good weathering stability. TPR Insulated cable which is resistant to Ozone and U.V. rays.
- It has high current carrying capacity.
- Twin coated inner core for protection against U.V. Heat & Voltage Fluctuation
- Double sheathed. Fully protected inner core with safety walls to prevent water penetration and heat transfer to another core.

### Maruti Gold



- Thermoset insulated, sheathed UV-R Three core flat submersible cable
- Operates in temperature ranging -40 to +95C
- Used 99.9% pure EC Grade copper
- Maruti Platinum cable with High-Life performing insulation & sheath with low water absorption rate.
- Good weathering stability. TPR Insulated cable which is resistant to Ozone and U.V. rays.
- It has high current carrying capacity.
- Twin coated inner core for protection against U.V. Heat & Voltage Fluctuation
- Double sheathed. Fully protected inner core with safety walls to prevent water penetration and heat transfer to another core.

### Maruti Standard



- Finely stranded bare flexible copper conductors having PVC insulation and PVC sheath
- Operates in temperature ranging -15 to +70C
- Used 99.9% pure EC Grade copper
- Maruti Standard cable have excellent resistant to moisture, abrasion, greace, oil.
- Excellent mechanical & electrical properties.
- Copper EC Grade with high conductivity annealed and bunched copper.

### Maruti Platinum and Maruti Gold (International Standard) (Maruti Standard Cable) 3 Core Flat Cable (IS 694)

Conductor Area sq. mm.	No. of Standards/Dia. mm.	Insulation Thickness (Nom) mm.	Sheath Thickness (Nom) mm.	Conductor Resistance @20C (max) ohms/km.	W x H
1.0	14/0.3	0.6	0.9	18.1	10.80 x 4.60
1.5	22/0.3	0.6	0.9	12.1	11.40 x 4.90
2.5	36/0.3	0.7	1.0	7.41	14.20 x 5.90
4.0	56/0.3	0.8	1.1	4.95	16.20 x 6.60
6.0	84/0.3	0.8	1.1	3.30	18.50 x 7.60
8.0	112/0.3	1.0	1.2	-	20.60 x 8.40
10.0	140/0.3	1.0	1.2	1.91	22.90 x 9.20
16.0	226/0.3	1.2	1.3	1.21	30.0 x 11.40
25.0	354/0.3	1.2	1.5	0.780	37.50 x 14.70
35.0	495/0.3	1.2	1.6	0.554	41.50 x 16.20

Conductor Area sq. mm.	No. of Standards/Dia. mm.	Insulation Thickness (Nom) mm.	Sheath Thickness (Nom) mm.	Conductor Resistance @20C (max) ohms/km.	W x H
1.0	14/0.30*	0.60	0.90	18.10	10.0 x 4.70
1.5	22/0.30*	0.60	0.90	12.10	10.40 x 5.20
2.5	36/0.30*	0.70	1.00	7.41	12.90 x 6.10
4.0	56/0.30*	0.80	1.00	4.95	15.20 x 6.80
6.0	84/0.30*	0.80	1.10	3.30	17.40 x 7.60
10.0	140/0.30*	1.00	1.40	1.91	22.20 x 9.30
16.0	1224/0.30*	1.00	1.40	1.21	28.0 x 11.40
25.0	350/0.30*	1.20	2.00	0.780	35.50 x 14.70
35.0	490/0.30*	1.20	2.00	0.554	39.50 x 16.20



Size Sq. mm.	1.5	2.5	4.0	6.0	10.0	16.0	25.0	35.0
<b>PVC Standard</b>	14	18	26	31	42	57	72	90
<b>Gold</b>	18	24	32	43	60	75	92	120
<b>Platinum</b>	19	27	35	43	60	75	92	120





## Leading Through a Passion for Innovation

At **Pinank Wires & Cables LLP** we want to offer our customers the best Enamelled Copper & Aluminum wire and service all time. Therefore, we are constantly on the look-out innovative new solutions. In the way we fulfill the promise to our customers that we will always be a step ahead.

By opting for Pinank Wires & Cables LLP Enamelled Copper and Aluminum Wire you are choosing:

Maximum diversity of products and dimensions  
 Flexible machinery that is constantly being upgraded  
 Customized Solutions  
 A highly qualified workforce  
 Optimising the use of materials  
 Moderate volumes, competitively priced  
 Extremely customer service oriented

Integrated Production  
 More than 30 years of experience  
 Quality that will exceed expectations  
 Using new material qualities and alloys  
 Improving business and technological processes  
 Order specific packaging  
 Environmentally friendly





## Product Profile

Enamel Base	Polyester	Modified Polyester	Polyester Imide	Dual Coat (Lmide-Amide)
Temperature Index	130°	155°	180°	200°
Thermal Class	B	F	H	H+
Colour	Light Brown to Brown	Brown	Brown	Light Brown
Range	0.122mm to 4.0mm	0.122mm to 4.0mm	0.122mm to 4.0mm	0.5mm to 2.0mm
I.S. Specification	I.S. 13730 PT-34	I.S. 13730 PT-3	I.S. 13730 PT-8	I.S. 13730 PT-13
Cut Through	240°C	270°C	300°C	320°C
Heat Stock	155°C	175°C	200°C	220°C
Abrasion Resistance	Good	Good	Very Good	Excellent
Flexibility Solvent Resistance				
Application	All General Electric Equipment	General Purpose Rotating and Static Electrical Equipment	For FHP Motors, Hand Tool, Electromagnetic Coils	Special Motors including hermetic Motors, High speed winding machines
Special	Ideal for Rewinders	Balanced Electrical & Mechanical Properties Good for O.E.Ms	Higher Thermal Endurance Excels in Thermoplastic Flow Abrasion & Heat Shock	Very High Thermal Property, Excellent for Hermetic Use

**Product :**  
Enamelled / Magnet Copper Wire  
Enamelled / Magnet Aluminium Wire

**Product Range :**  
Minium 0.15 to maximum 4.0mm

**Packing Details :**  
Taper Spools : PT-4 to PT-180

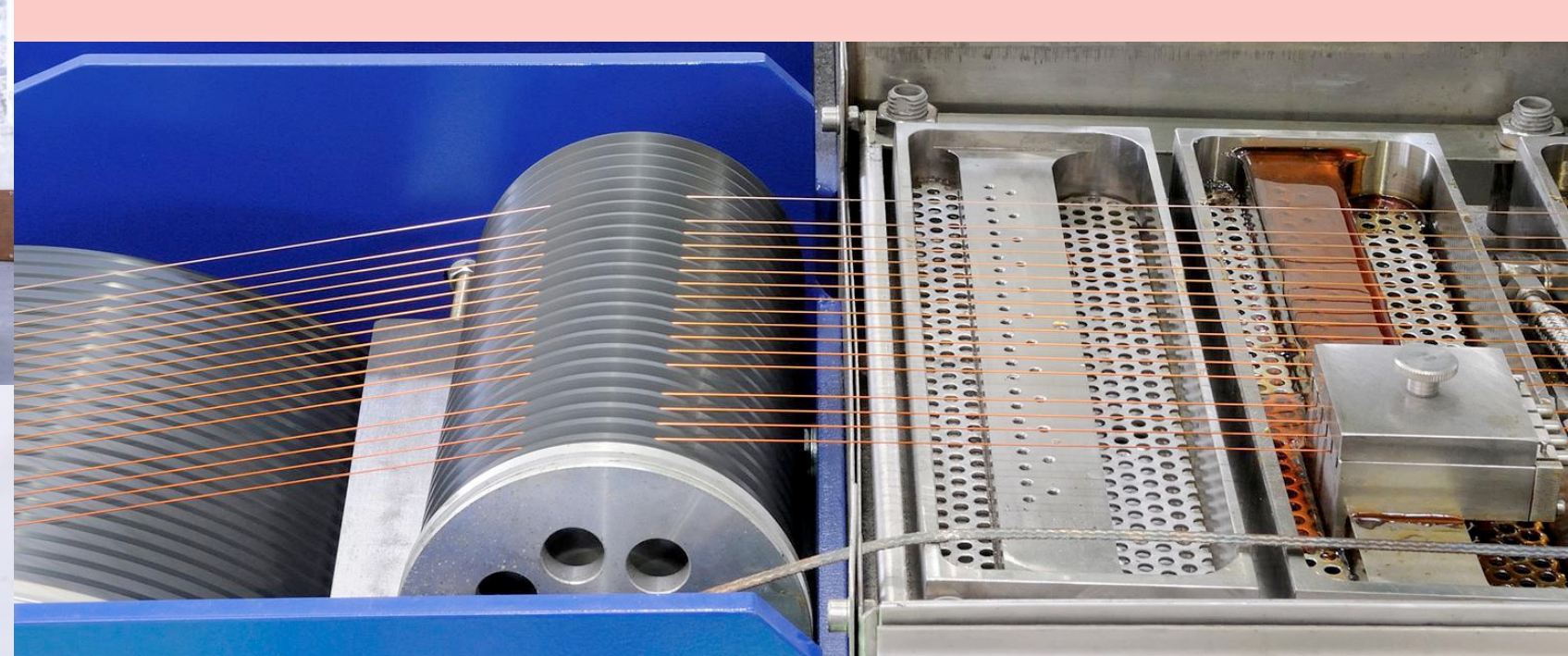
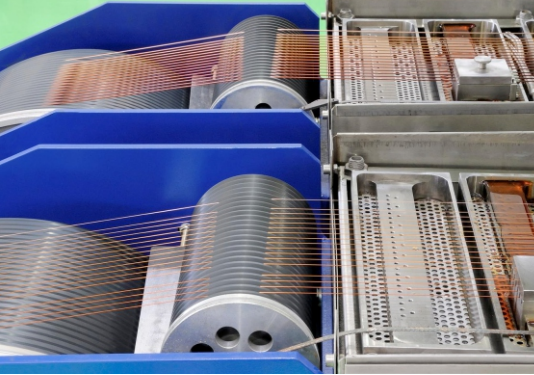
**Class of Insulation :**  
Modified Polyester : Class 155  
Polyester Lmide : Class 180  
Dual Coat (Lmide-Amide) : Class 200



## Specification Table

Size (SWG)	Size (mm)	Conductor Tolerance (mm)	Resistance of 20 c (ohm/mtr)	Grade 1 Fine Covering		Grade 2 Medium		Grade Thick		For Grade 2 Wire			Weight of Enamelled wire in 1000 mtrs. in kg	Size (SWG)
				Increase Dia-meter (min)	Over-all Dia-meter (max)	Increase Dia-meter (min)	Over-all Dia-meter (max)	Increase Dia-meter (min)	Increase Dia-meter (max)	Gain in %	BDV in KV (min)	Back in Degree (max)		
8	4.064	0.041	0.001318	0.060	4.152	0.088	4.186	0.122	4.265	35	2500	5	116.31	8
9	3.657	0.037	0.001641	0.059	3.743	0.086	3.775	0.118	3.8491	35	2500	5	94.228	9
10	3.251	0.033	0.00206	0.057	3.335	0.084	3.367	0.116	3.435	35	2500	5	74.54	10
11	2.946	0.030	0.002505	0.045	3.029	0.084	3.072	0.127	3.112	34	2500	5	61.241	11
12	2.642	0.027	0.003118	0.043	2.722	0.081	2.764	0.123	2.803	34	2500	5	49.304	12
12.5	2.489	0.025	0.003551	0.042	2.569	0.080	2.609	0.121	2.653	34	2500	5	43.759	12.5
13	2.337	0.024	0.003985	0.041	2.415	0.079	2.455	0.119	2.493	33	5000	5	38.617	13
13.5	2.184	0.022	0.00456	0.041	2.262	0.078	2.301	0.117	2.338	33	5000	5	33.726	13.5
14	2.032	0.020	0.005271	0.041	2.108	0.077	2.147	0.116	2.184	33	5000	5	29.224	14
14.5	1.930	0.019	0.005891	0.040	2.005	0.076	2.044	0.114	2.080	33	5000	5	26.363	14.5
15	1.829	0.019	0.006506	0.040	1.903	0.075	1.941	0.113	1.977	33	5000	5	23.7	15
15.5	1.727	0.018	0.0073	0.039	1.800	0.074	1.838	0.112	1.873	33	5000	5	21.131	15.5
16	1.626	0.017	0.008232	0.039	1.698	0.073	1.735	0.110	1.770	32	5000	5	18.75	16
16.5	1.524	0.017	0.00938	0.038	1.595	0.072	1.631	0.108	1.666	32	5000	5	16.472	16.5
17	1.422	0.015	0.01076	0.038	1.492	0.071	1.528	0.107	1.562	32	5000	30	14.37	17
17.5	1.320	0.014	0.12590	0.038	1.388	0.069	1.413	0.103	1.456	32	5000	30	12.382	17.5
18	1.219	0.013	0.01465	0.035	1.285	0.067	1.318	0.100	1.350	31	5000	37	10.581	18
18.5	1.117	0.011	0.01742	0.035	1.182	0.066	1.215	0.099	1.247	31	5000	37	8.884	18.5
19	1.016	0.011	0.02108	0.034	1.080	0.065	1.113	0.098	1.144	30	5000	41	7.372	19
19.5	0.965	0.011	0.02356	0.034	1.028	0.064	1.060	0.096	1.091	30	5000	41	6.651	19.5
20	0.914	0.010	0.02605	0.034	0.976	0.063	1.008	0.095	1.038	30	5000	45	5.973	20
20.5	0.863	0.009	0.02946	0.033	0.924	0.061	0.955	0.093	0.984	30	5000	45	5.324	20.5
21	0.813	0.009	0.03293	0.032	0.872	0.06	0.902	0.090	0.931	29	5000	48	4.735	21
21.5	0.762	0.008	0.0375	0.031	0.819	0.058	0.848	0.087	0.876	29	5000	48	4.16	21.5
22	0.711	0.008	0.04305	0.030	0.766	0.056	0.795	0.085	0.822	28	4900	43	3.63	22
22.5	0.661	0.007	0.04983	0.028	0.712	0.052	0.739	0.080	0.765	28	4900	43	3.137	22.5
23	0.610	0.006	0.05848	0.027	0.659	0.050	0.684	0.075	0.708	27	4800	50	2.68	23
23.5	0.584	0.006	0.06384	0.026	0.632	0.048	0.656	0.073	0.680	27	4800	50	2.457	23.5
24	0.559	0.006	0.06965	0.025	0.605	0.047	0.629	0.073	0.652	26	4600	44	2.256	24
25	0.508	0.006	0.08434	0.025	0.554	0.047	0.578	0.071	0.601	26	4600	44	1.866	25
26	0.457	0.005	0.1042	0.024	0.501	0.045	0.523	0.071	0.544	25	4600	47	1.512	26
27	0.417	0.005	0.1252	0.022	0.458	0.042	0.480	0.067	0.500	25	4400	48	1.26	27
28	0.376	0.005	0.1539	0.021	0.417	0.040	0.435	0.064	0.454	24	4400	50	1.027	28
29	0.345	0.005	0.1829	0.020	0.382	0.038	0.401	0.060	0.418	23	4300	53	0.867	29
30	0.315	0.004	0.2193	0.019	0.349	0.035	0.367	0.057	0.384	23	4100	55	0.725	30
31	0.295	0.004	0.2501	0.019	0.329	0.035	0.347	0.053	0.364	23	4100	55	0.637	31
32	0.274	0.004	0.2899	0.018	0.306	0.033	0.323	0.050	0.339	22	4000	53	0.55	32
33	0.254	0.004	0.3374	0.018	0.286	0.033	0.303	0.050	0.319	22	4000	53	0.474	33
34	0.234	0.004	0.3974	0.017	0.265	0.032	0.281	0.048	0.296	22	3900	56	0.403	34
35	0.213	0.003	0.4798	0.015	0.241	0.029	0.255	0.043	0.269	21	3700	59	0.335	35
36	0.193	0.003	0.5842	0.014	0.219	0.027	0.232	0.039	0.245	21	3500	62	0.275	36
37	0.173	0.003	0.7271	0.013	0.197	0.025	0.210	0.036	0.222	20	3300	65	0.222	37
38	0.152	0.003	0.9418	0.012	0.174	0.023	0.186	0.033	0.197	19	3200	67	0.173	38
39	0.132	0.003	1.2496	0.011	0.152	0.021	0.162	0.030	0.171	18	3000	67	0.131	39
40	0.122	0.003	1.4623	0.010	0.141	0.019	0.151	0.028	0.160	17	2800	70	0.112	40





**Conductor**

Conductor are drawn from electrolytic grade Copper & Aluminum manufactured by using best raw material directly purchased from manufacturers to ensure compliance with global standards.

**Enamelling Process**

In Enamelling Copper Wire process, a wire coated with a thin layer of enamel insulation is applied on top of the drawn bare copper wire or any combination as per standards of customer requirements. It is ensured that enamel application is very scientific and every care is taken to give a concentric coat of properly baked coating.

During processing on the enamelling machine, the diameter of the conductor, its surface, size of covering etc. are checked at each stage.

The advantage of enamelled copper round winding wire : it takes up less space in coil formation, use less energy and is resistant to corrosion.

Standard Packing : On Plastic Spool.

Standard Length : As per customer requirements.



**DELIVERY SPOOLS**

Our enamelled wires are supplied on spools, both cylindrical barrelled and taper barrelled as per customer requirement.

130mm	160mm	8"(200mm)	10"(250mm)	260mm
11"(266mm)	325mm	PT-4	PT-5	PT-10
PT-20	PT-25	PT-45	PT-60	PT-90
				PT-120







**TAN DELTA TESTER**

**PORTABLE MILLI OHM METER**

**ELONGATION TESTER (MOTORISED)**

**SPRINGINESS TESTER (UPTO 1.600MM)**

**SPRINGINESS TESTER (ABOVE 1.600MM)**

**PEEL TESTER**

**ELECTRICAL HEATED FORCED AIR CIRCULATED OVEN**

**ELONGATION TESTER (MOTORISED)**

**CUT THROUGH TESTER**

**UNI-DIRECTIONAL SCRAP TESTER**

**BREAKDOWN VOLTAGE TESTER**

**DC PIN HOLE TESTER (HIGH VOLTAGE CONNECTIVITY TEST)**

**ENAMEL TESTING**

**ELECTRICAL RESISTANCE**

**ELONGATION**

**SPRINGINESS**

**SPRINGINESS**

**PEEL TEST**

**HEAT SHOCK**

**HEAT SHOCK**

**CUT THROUGH**

**RESISTANCE TO ABRASION**

**BREAK DOWN VOLTAGE**

**CONTINUITY OF INSULATION**

As an **ISO 9001:2015** certified company, you have the assurance of professionalism and expertise in the development and manufacture of the highest quality Enamelled Copper & Aluminum wires.

At **Pinank Wires & Cables LLP** we are dedicated to quality, customer service and the continual improvement of our business. We are constantly reviewing our product and services and welcome your suggestions for improvement.

### Our Mission

Our mission is to provide quality and excellent service to our customers professionally and exclusively. We strive for honesty and integrity in all our endeavours as we provide opportunities for growth and enrichment to our employees, our business partners and the communities in which we operate. We strive to be incessantly on the path of innovation for eco-friendly products and try to make less environmentally hazardous raw materials. We maintain high standards of technology by providing safe, reliable and comfortable and value for money products.

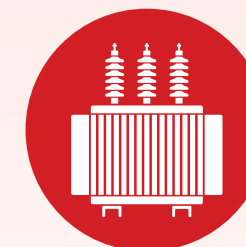
### Safety Policy

At **Pinank Wires & Cables LLP**, We will provide a safe and healthy environment for associates around the world by working together to eliminate or control all conditions and behaviors that could lead to personal injury or occupational illness.

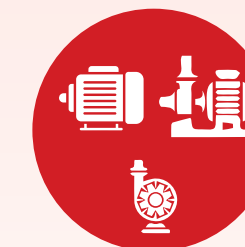
Safety is the core value that leads our management performance. We are responsible for maintaining an outstanding safety level and providing the resources, education, training and tools needed to achieve our goal.

We encourage all associates to take individual responsibility for themselves and to be role models of safety excellence for co-workers, families and communities.

## APPLICATIONS



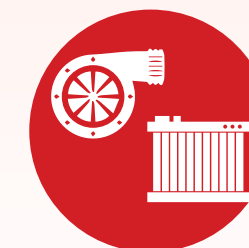
**TRANSFORMERS**



**MOTORS**



**APPLIANCES**



**AUTOMOTIVE**



**SWITCHGEARS**