PRANEETHA
ECOCABLES

POWERING TRUST THROUGH PURITY

Crafted with 100% primary copper for Purity, trust, safety and efficient performance.



PRANEETHA
ECOCABLES

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Know More

Join Us

Our Certifications

ISO 9001 | 14001 | 45001 | CE | RoHS | REACH

Our MD's Massage



We believe the quality of a cable begins with the quality of its conductor. That is why we use 100% primary, high-purity electrolytic copper across our product range. Its superior conductivity helps reduce transmission losses, improve energy efficiency and support a more sustainable future.

As copper prices continue to rise, higher conductivity also enables EPC contractors to explore a shift from conventional 4 sq.mm to 2.5 sq.mm solar cables wherever technically feasible. This can help optimise project costs while maintaining electrical performance.

Beyond conductivity, high-purity copper provides better thermal stability and mechanical strength, making our cables reliable in demanding environments. Our aim is simple—to deliver high-performance cable solutions that create lasting value for customers while contributing to a greener tomorrow.

About Praneetha EcoCables

We are a future-focused wire and cable manufacturer committed to advancing connectivity using electrolytic pure Grade-1 copper with 99.97% purity, backed by verified traceability and responsible production practices. Backed by its longstanding strategic association with Adani Group, the company secures 100% of its primary copper requirements through an integrated sourcing framework. ensuring exceptional consistency, purity and long-term performance across all products.

Headquartered in Gujarat, **Praneetha EcoCables** is building a modern, technology-driven manufacturing ecosystem designed to meet the demands of evolving infrastructure, industrial growth and next-generation urban development. Our solutions are engineered for customers who prioritize high performance, safety and sustainable manufacturing.

With advanced automated machinery imported from leading global machine suppliers and a fully digital production environment, we deliver unmatched precision, reliability and globally aligned quality standards. Our emphasis on sustainability, transparency and end-to-end traceability positions **Praneetha EcoCables** to set new benchmarks for purity, integrity, Safety, efficacy and durability leading to unparalleled customer delight in the wire and cable industry.

Our Mission

To revolutionize the energy sector by setting a gold standard in the use of primary copper across everything we do. We are committed to delivering uncompromised purity, integrity, safety, durability through fully traceable, transparent and responsible practices.

By embracing circularity and a net zero mindset, we ensure every connection delivers what is best for consumers-creating sustainable impact.

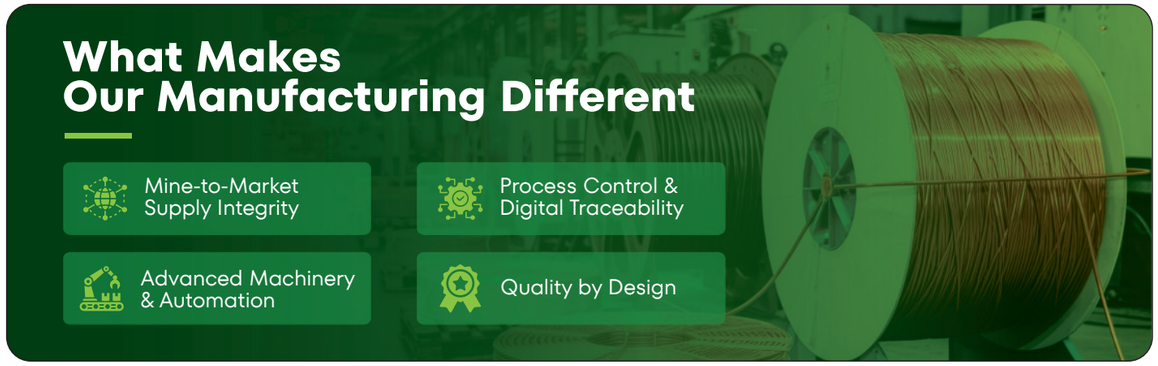
Our Vision

To be a disruptive global leader in sustainable connectivity, inspiring the Young generation. We aim to bridge every home and infrastructure with uncompromised purity, integrity, safety, durability and reliability, while acting as a responsible corporate citizen.

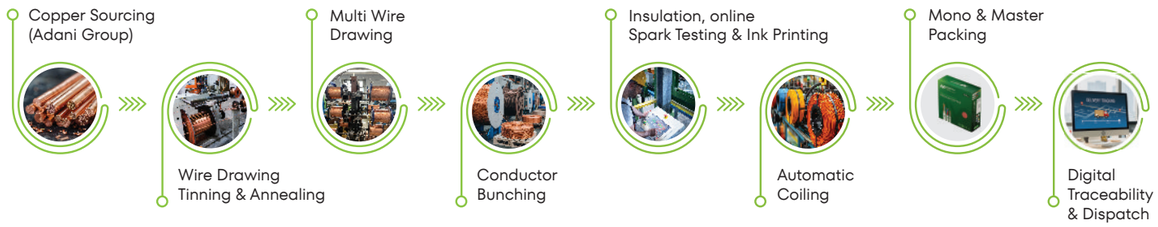
Our vision is to connect everyone with everyone-building a legacy where safety, innovation and sustainability are fundamentally "Good for You and Good for Earth".

Manufacturing Process

At **Praneetha EcoCables,** manufacturing is engineered around a single principle: purity must be controlled, traceable and repeatable. Our mine-to-market copper integration, advanced automation and quality-by-design approach ensure every cable delivers consistent performance, safety and long-term efficiency.



Manufacturing Process Flow





Machinery & Technology Stack

Praneetha Ecocables employs advanced, globally sourced machinery from Germany, Italy, Austria, India and other leading technology hubs, ensuring precision manufacturing, consistent quality and high operational efficiency.

- High-speed wire drawing and annealing lines
- Online spark, resistance, and dimensional testing
- Precision insulation and extrusion systems
- Automated coiling, packing, and identification systems

Why Choose Praneetha EcoCables

"Purity, Reliability, safety and support built into every coil we ship"

Safety You Can Rely On
"Purity, Reliability, safety and support built into every coil we ship"

"Consistent, Verified Quality"
"99.97% copper purity and 100% testing coverage on every batch, every time."

Technical Support On-Call
"Dedicated technical support for product queries, installation guidance and issue resolution."

Training & Product Knowledge
"Access to sessions on product specifications and best-practice installation."

Full Supply Chain Visibility
"Digitally traceable from copper rod to finished coil, know exactly what you're installing."

A Sustainable Choice
"Specify a manufacturer with a genuine circular, net-zero approach to production."



BUILDING WIRES

PRANEETHA ECOPPURE

HFFR

PEL Building Wires ensure safe, durable and efficient power flow for modern spaces.



Building Wire



Features

PEL Building Wires are engineered to set new industry benchmarks in safety, durability and performance. Manufactured using 100% primary copper, we ensure superior conductivity, lower resistance and consistent current flow for every installation.

Engineered with precision for building applications, our conductors ensure minimal voltage drop and consistent power flow. With a strong commitment to quality, reliability, and safety, Praneetha EcoCables Building Wires offer superior thermal endurance, dependable load performance, and long-lasting efficiency-powering homes, offices, and modern infrastructure with confidence.

Applications

Recommended for high-load residential circuits, commercial infrastructure, healthcare facilities, educational institutions and premium developments where elevated temperature performance and long-term electrical reliability are critical.

Features & Advantages

- Low Toxic Fumes & Halogen Free
- High Flexibility
- Zero PVC Safety Shield
- Anti Termite & Anti Rodent
- Heat Resistant

Nominal Cross-Sectional Area	Nominal Insulation Thickness	Approx. overall diameter	Max. DC conductor resistance at 20°C	Current Carrying Capacity	
				Conduit wiring (Method-B)	Clipped Direct / Tray (Method-C)
mm^2	mm	mm	ohm / km	Amp.	Amp.
0.50	0.6	2.20	39.00	6	7
0.75	0.6	2.40	26.00	8	9
1.00	0.6	2.50	19.50	11	13
1.50	0.6	2.80	13.30	15	17
2.50	0.7	3.40	7.98	21	24
4.00	0.8	4.20	4.95	28	32
6.00	0.8	4.70	3.30	36	41
10.00	1.0	6.00	1.91	50	57
16.00	1.0	6.90	1.21	68	76
25.00	1.2	8.50	0.780	89	96
35.00	1.2	9.70	0.554	110	119
50.00	1.4	11.50	0.386	134	144

LENGTH: 45 mtr, 90 mtr, 180 mtr, 200 mtr, 300 mtr (Also available in custom sizes)
COLOURS: Red, Yellow, Blue, Black, Grey, Green, White (Also available in custom colours)
REACH | RoHS | CE | CPR (Fca) Compliant



BUILDING WIRES

PRANEETHA ECOPPURE GOLD

HFFR (EBXL)

PEL Building Wires ensure safe, durable and efficient power flow for modern spaces.



Building Wire



Features

Praneetha EcoCables (PEL) Building Wires are manufactured using 100% virgin electrolytic grade copper and insulated with advanced EBXL-HFFR (Cross-Linked Polyolefin) technology, further enhanced through Electron Beam (E-Beam) irradiation. This innovative combination delivers exceptional thermal stability, mechanical strength, and electrical performance, making PEL wires a reliable choice for modern buildings and critical installations.

The E-Beam cross-linking process transforms the insulation structure at the molecular level, enabling the wires to withstand temperatures up to 120°C while offering superior resistance to heat, abrasion, moisture, and ageing. The high-conductivity copper conductor ensures minimal voltage drop, lower power losses, and efficient current flow, resulting in enhanced energy efficiency and dependable performance.

Applications

Designed for modern electrical installations, PEL EBXL-HFFR Building Wires are the preferred choice for homes, commercial buildings, healthcare facilities, educational institutions, hospitality projects, and large-scale infrastructure developments. Their advanced EBXL-HFFR insulation and Electron Beam Technology ensure exceptional thermal performance, making them ideal for applications that demand enhanced safety, higher operating temperatures, dependable power distribution, and long service life. Built to perform under demanding conditions, they provide reliable and efficient electrical connectivity for critical and high-load environments.

Features & Advantages

- Ideal For Premium Installations
- Low Toxic Fumes & Halogen Free
- Moisture/ Chemical Resistance
- Anti Termite & Anti Rodent
- Operating Temperature -40°C to 120°C

Nominal Cross-Sectional Area	Nominal Insulation Thickness	Approx. overall diameter	Max. DC conductor resistance at 20°C	Current Carrying Capacity	
				Conduit wiring (Method-B)	Clipped Direct / Tray (Method-C)
mm^2	mm	mm	ohm / km	Amp.	Amp.
1.00	0.7	2.70	18.1	22	25
1.50	0.7	2.90	12.1	26	32
2.50	0.8	3.50	7.41	33	41
4.00	0.8	4.00	4.61	42	52
6.00	0.8	4.50	3.08	55	69
10.0	1.0	6.20	1.83	89	97
16.0	1.0	7.20	1.15	118	123

LENGTH: 90 mtr, 200 mtr, 300 mtr (Also available in custom sizes)
COLOURS: Red, Yellow, Blue, Black, Grey, Green, White (Also available in custom colours)
REACH | RoHS | CE | CPR Compliant



SOLAR CABLE

SOLAR AC & SOLAR DC, EARTHING CABLE

Solar Cables ensure efficient and weather-resistant power transmission for solar systems.



Solar Cable



Features

Praneetha Solar Cables are purpose-engineered for photovoltaic applications using high-conductivity tinned copper conductors and UV-stabilized insulation compounds. Designed to withstand prolonged outdoor exposure, it demonstrate strong resistance to sunlight, ozone, moisture and temperature variations, ensuring stable DC power transmission across solar installations.

Applications

Suitable for interconnection between PV modules, combiner boxes and inverters in rooftop solar systems, ground-mounted plants and utility-scale photovoltaic projects.

Features & Advantages

- Cu — Made with 100% Primary Copper
- Withstands temperatures up to 120°C
- Rated 1500 V DC (1.8 kV max)
- Anti Termite & Anti Rodent
- UV & Weather Resistance

Nominal Cross-Sectional Area	Insulation Thickness	Outer Sheath Thickness	Mean Overall Diameter*	Current carrying capacity according to method of installation			Maximum Resistance of Conductor at 20°C
				Single cable free in air (A)	Single cable on a surface (A)	Two loaded cables Touching, on a surface (A)	
sqmm	mm	mm	mm	amps	amp	amps	ohm/km
1.50	0.70	0.80	5.4	28	27	22	13.7
2.50	0.70	0.80	5.9	38	36	30	8.21
4.00	0.70	0.80	6.6	52	49	41	5.09
6.00	0.70	0.80	7.2	66	63	53	3.39
10.0	0.70	0.80	8.3	89	87	73	1.95
16.0	0.70	0.90	9.8	120	118	97	1.24
25.0	0.90	1.00	12.2	167	158	126	0.795
35.0	0.90	1.10	14	207	196	156	0.565
50.0	1.00	1.20	16.3	261	248	190	0.393

INSULATION: Sheath-XLPO

LENGTH: 100 mtr and 500 mtr in Coil Form | 1000 mtr, 2000 mtr, 4000 mtr in Drums Form (Also available in custom sizes)

COLOUR: Black, Black with Red strip (Also available in custom colours)

REACH | RoHS | CE | CPR Compliant



SINGLE AND MULTI-CORE FLEXIBLE

ROUND CABLES

Multi-Core Flexible Round Cables provide safe, durable and highly flexible power connections.



Single and Multi-Core Flexible Round Cable

Features

Flexible Round Cables are manufactured with finely stranded annealed copper conductors to ensure flexibility and consistent electrical performance. Combined with durable FR/FRLSH insulation and reinforced outer sheathing, these cables are designed to perform reliably under vibration, mechanical stress and continuous operational loads.



Applications

Widely deployed in control panels, motors, HVAC systems, automation lines and industrial machinery requiring dependable and flexible power connectivity.

Features & Advantages

- Low Resistance
- Extra Flexibility
- High Thermal Stability
- FR | FRLSH Sheath
- Good Heat Dissipation

SINGLE CORE CABLE (FOR SOLAR AC APPLICATION)

Nominal Cross-Sectional Area	Nominal Insulation Thickness	Approx. overall diameter	Max. DC conductor resistance at 20°C	Current Carrying Capacity	
				Conduit wiring (Method-B)	Clipped Direct / Tray (Method-C)
mm^2	mm	mm	ohm / km	Amp.	Amp.
0.50	0.6	2.20	39.00	4	4
0.75	0.6	2.40	26.00	7	7
1.00	0.6	2.60	19.50	11	12
1.50	0.6	3.10	13.30	13	16
2.50	0.7	3.70	7.98	18	22
4.00	0.8	4.20	4.95	24	29
6.00	0.8	4.80	3.30	31	37
10.0	1.0	6.20	1.91	42	51
16.0	1.0	7.20	1.21	57	68
25.0	1.2	8.50	0.780	71	86
35.0	1.2	9.70	0.554	91	110
50.0	1.4	11.50	0.386	120	145

MULTI CORE CABLE

Nominal Cross-Sectional Area	Max. DC conductor resistance at 20°C	Current Carrying Capacity	Nominal Insulation Thickness	Sheath Thickness						Max. Overall Diameter of Cable					
				2C	3C	4C	5C	6C	7C	2C	3C	4C	5C	6C	7C
mm^2	Ohm / km	Amp.	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
0.5	39.00	4	0.6	0.9	0.9	0.9	0.9	0.9	0.9	6.2	6.5	7.1	7.7	8.5	8.5
0.75	26.00	7	0.6	0.9	0.9	0.9	0.9	1.0	1.0	6.6	7.0	7.6	8.2	9.2	9.2
1.00	19.50	11	0.6	0.9	0.9	0.9	1.0	1.0	1.0	6.9	7.3	8.0	8.9	9.7	9.7
1.50	13.30	14	0.6	0.9	0.9	1.0	1.0	1.0	1.0	7.4	7.9	8.8	9.6	10.5	10.5
2.50	7.98	19	0.7	1.0	1.0	1.0	1.0	1.1	1.1	8.9	9.4	10.3	11.3	12.6	12.6
4.0	4.95	26	0.8	1.0	1.0	1.0	1.1	-	-	10.3	11	12.0	13.3	-	-
6.0	3.30	35	0.8	1.1	1.2	1.2	-	-	-	11.6	12.5	13.7	-	-	-

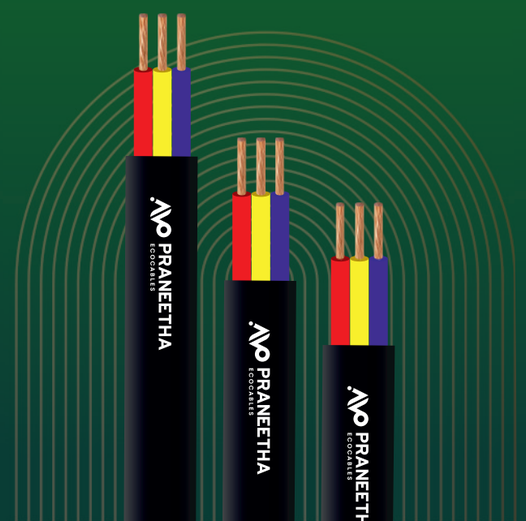
CORE: 1C / 2C / 3C / 4C / 5C / 6C / 7C **COLOUR:** Black, (Also available in custom colours)
LENGTH: 100 mtr to 500 mtr in Coil Form & Higher lengths in Drum Form
REACH | RoHS | CE | CPR Compliant



SUBMERSIBLE

FLAT CABLES

Submersible Flat Cables ensure reliable power supply for underwater pump systems.



Submersible Flat Cables



Features

Submersible Flat Cables are engineered with electrolytic-grade copper conductors and specially formulated installation stability within borewel and pump assemblies while maintaining consistent electrical performan under continuous submersion conditions.

Applications

Ideal for submersible pumps in borewells, agricultural irrigation systems, domestic water supply installations and underground motor applications.

Features & Advantages

- Low Resistance
- High Flexibility
- Extended Service Life
- Water Resistant
- Abrasion Resistant

Nominal Cross-Sectional Area	Nominal Thickness of Insulation	Nominal Thickness of Sheath	Overall Dimension, Max (W X H) 2Core	Overall Dimension, Max (W X H) 3Core
mm^2	mm	mm	mm	mm
1.0	0.6	0.9	8.0 X 5.4	11.0 X 5.4
1.5	0.6	0.9	8.6 X 5.6	10.7 X 5.3
2.5	0.7	1.0	10.5 X 6.6	13.0 X 6.2
4.0	0.8	1.0	12.0 X 7.4	15.3 X 7.1
6.0	0.8	1.1	13.0 X 8.0	19.2 X 8.4
10.0	1.0	1.4	16.0 X 9.6	24.2 X 10.4
16.0	1.0	1.4	18.5 X 11.0	29.0 X 12.4
25.0	1.2	2.0	22.5 X 13.0	36.5 X 15.7
35.0	1.2	2.0	25.5 X 14.5	40.5 X 17.2
50.0	1.4	2.2	29.0 X 16.5	46.5 X 19.3

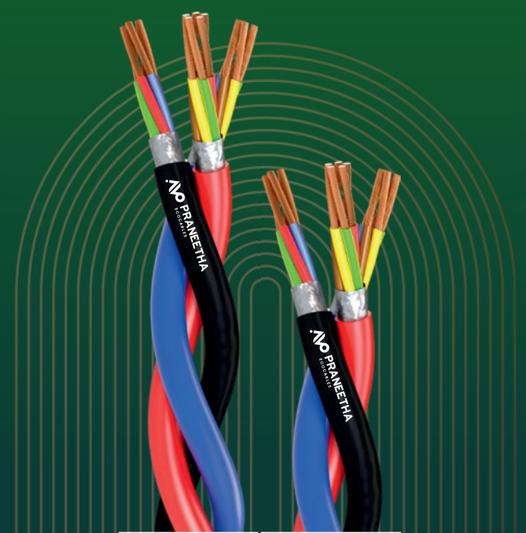
INSULATION: XLPE / PVC Insulated, PVC outer shealted
COLOUR: Black, (Also available in custom colours)
LENGTH: 500/1000 mtr (Also available in custom sizes)
REACH | RoHS | CE | CPR Compliant



AUTOMOTIVE CABLE

FLY, FLRY-B, FLRY-C

Automotive Cables deliver stable, flexible and durable wiring for vehicles.



Automotive Cable



Features

Automotive cables are manufactured using high-conductivity electrolytic copper under strict quality controls for consistent performance. Advanced extrusion ensures precise thin-wall insulation, supporting compact routing and reliability in high-vibration environments, with strong resistance to heat, oil, abrasion, and mechanical stress for long-term durability.

Applications

Suitable for automotive wiring harnesses, battery connections, lighting circuits, dashboard systems and electrical assemblies in passenger and commercial vehicles.

Features & Advantages

- Low Resistance
- High Flexibility
- Extended Service Life
- Chemical & Fuel Resistant
- Heat Resistant 125°C

Conductor Construction				Insulation Wall Thickness Nominal	Overall Diameter		Weight Approx	Max. Conductor Resistance per km @20°C	Current Rating at 40°C
Nominal Cross-Sectional	No. of Strands	Diameter of Single wire Max.	Conductor Diameter Max.		Min.	Max.			
Sq.mm	Nos.	mm	mm	mm	mm	mm	kg/km	ohm/km	amps
0.22	7	0.21	0.7	0.20	1.1	1.2	4	84.8	9
0.35	12	0.21	0.9	0.20	1.2	1.4	5	54.4	10
0.50	16	0.21	1.1	0.22	1.4	1.6	7	37.1	13
0.75	24	0.21	1.3	0.24	1.7	1.9	9	24.7	17
1.00	32	0.21	1.5	0.24	1.9	2.1	12	18.5	20
1.25	16	0.33	1.7	0.24	2.1	2.3	15	14.9	23
1.50	30	0.26	1.8	0.24	2.2	2.4	17	12.7	26
2.00	28	0.31	2.0	0.28	2.5	2.8	23	9.42	32
2.50	50	0.26	2.2	0.28	2.7	3.0	27	7.60	37
3.00	44	0.31	2.4	0.32	3.1	3.4	34	6.15	42
4.00	56	0.31	2.8	0.32	3.4	3.7	43	4.71	50
5.00	65	0.33	3.1	0.32	3.9	4.2	53	3.94	57
6.00	84	0.31	3.4	0.32	4.0	4.3	63	3.14	65
8.00	50	0.46	4.3	0.32	4.6	5.0	82	2.38	79
10.0	80	0.41	4.5	0.48	5.3	6.0	110	1.82	93
16.0	126	0.41	5.2	0.52	6.4	7.2	170	1.16	124
20.0	152	0.41	6.9	0.52	7.0	7.8	209	0.95	142
25.0	196	0.41	7.2	0.52	7.9	8.7	258	0.74	164
35.0	276	0.41	8.5	0.64	9.4	10.4	360	0.52	200

INSULATION: PVC Insulated **LENGTH:** 100 mtr, 500 mtr, 1000 mtr (Also available in custom sizes)
COLOUR: Red, Black, White, Yellow, Green, Blue, Brown, Orange, Purple/Pink, Off White (Also available in custom colours)
REACH | RoHS | CE | CPR Compliant