Since 1989
CELEBRATING TRUST

ENERGO
....Powering Ahead

Rebounding Networks, Building Stronger Connections for a Brighter Future

PRODUCT CATALOGUE

ISI | ELECTROLYTIC COPPER | DURABILITY | FLAME RETARDENT | FLEXIBILITY | ANTI RODENT | MADE IN INDIA

Rebounding in the currents of success, our wires and cables brand sparks innovation and lights the way to a connected future

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CONTENT

ABOUT US

Embarking on a fresh start, we, formerly known as **ENERGO** Engineering Projects Private Limited since our inception on **June 08, 1989**, have redefined our journey as "**ENERGO Engineering Projects Limited**" as public limited entity since August 22, 2005. Specializing in Engineering, Procurement, and Construction Services **(EPC)**, Our Commitment to excellence shines through in our tailored turnkey Solutions for Material Handling/Bulk Material conveying and Ash Handling from conceptualization to commissioning, we've played a pivotal role in delivering comprehensive services to **esteemed customers** such as **Madhya Pradesh Power Generating Company Limited (MPPGCL), Neyveli Lignite Corporation (NLC), Adani Power, Vedanta** and others. Besides, the Company has executed many turnkey projects related to transmission and distribution of electricity **partnering to North Bihar Power Distribution** Company Limited **(NBPDCL)**, South Bihar Power Distribution Company Limited **(SBPDCL)**, Madhya Pradesh Madhya Kshetra Vidyut Vitran Company Limited **(MPMKVVNL)**.

Beyond our legacy, this marks a renewed focus for us as we diversify our portfolio, delvingin to the manufacturing and supply of various cables. Our commitment to versatility is reflected in the cables we manufacture, including single core, multicore wire of Copper and Aluminum used in Automotive, Construction, Electronics and Communication.

OUR JOURNEY

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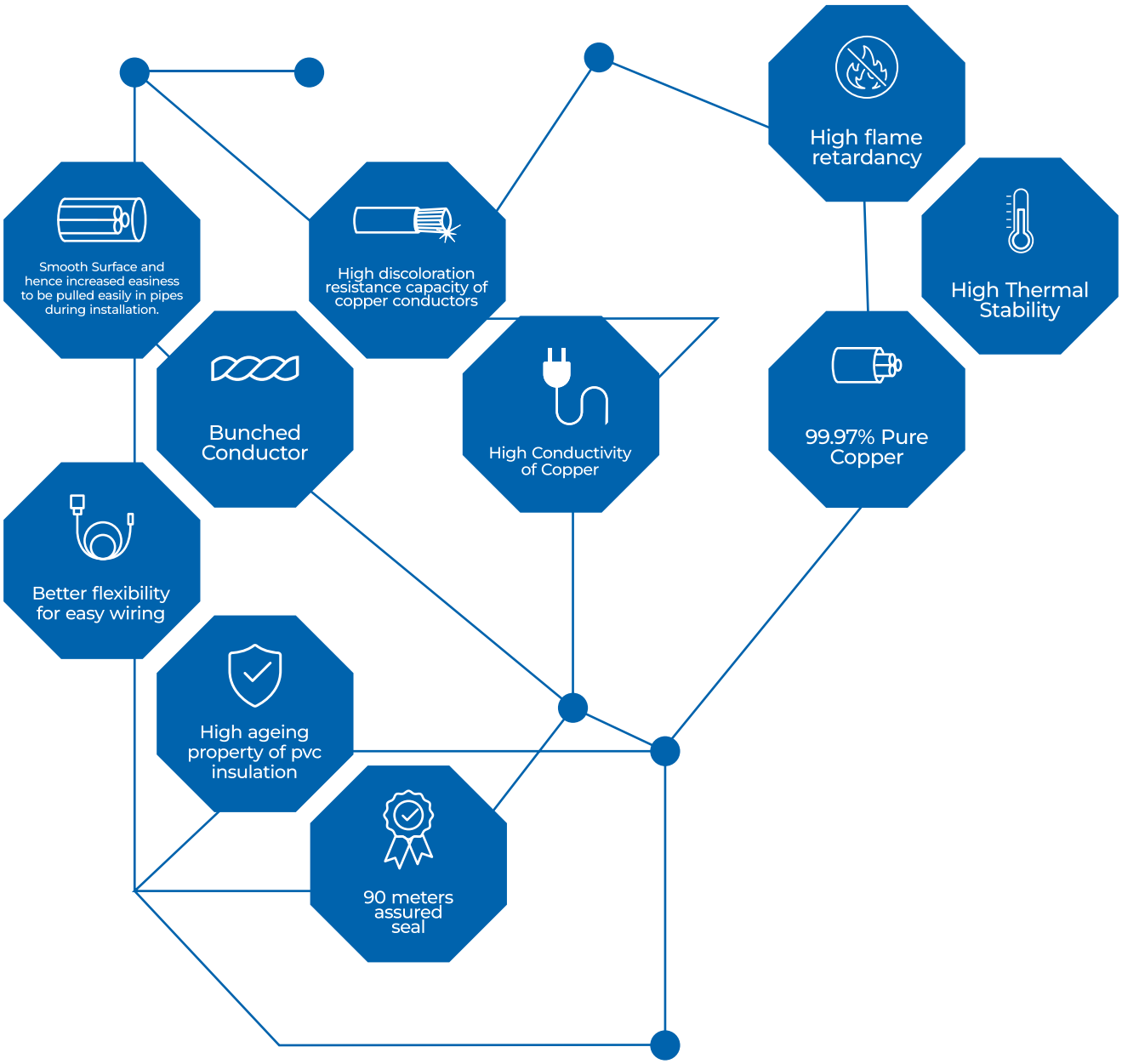
OUR GLORIOUS PAST

Since its establishment on June 08, 1989, as **ENERGO** Engineering Projects Private Limited,' the company underwent a strategic evolution, transforming into '**ENERGO** Engineering Projects Limited' on August 22, 2005. Specializing in EPC services, the company became a vital player in material handling/bulk material conveying, ash handling and transmission & distribution of electricity. The journey, marked by excellence, involved servicing notable customers like **MPPGCL, NLC, Adani Power, Vedanta, NBPDCL, SBPDCL, MPMKVVCL and others.**

REBOUNDING OF ENERGO

In this fresh start, **ENERGO** has embarked on a new trajectory by diversifying into cable manufacturing, introducing a comprehensive range of products, including **Single Core, Multicore wire of Copper and Aluminum** used in **Automotive, construction**, electronics and communication. This strategic expansion underlines the company's commitment to growth and innovation, showcasing a resolute determination to overcome challenges and embrace positive change. Drawing on valuable lessons from their journey, **ENERGO** has transformed adversity into a driving force for building a stronger and more resilient the current rebounding phase stands as a testament to their perseverance and ability to turn challenges into opportunities, positioning the brand for a promising and impactful future in the market.

FEATURES


Smooth Surface and hence increased easiness to be pulled easily in pipes during installation.
High discoloration resistance capacity of copper conductors
High flame retardancy
High Thermal Stability
Bunched Conductor
High Conductivity of Copper
99.97% Pure Copper
Better flexibility for easy wiring
High ageing property of pvc insulation
90 meters assured seal

QUALITY CONTROL

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*ENERGO takes pride in having in-house **dynamic Research and Development Department**, serving as a prolific source of knowledge and innovation. Our cables embark on a meticulous journey through rigorous quality control procedures, subject to regular scrutiny from **esteemed third-party inspection agencies. Independent NABL-accredited** test laboratories consistently validate their performance through comprehensive type testing. Furthermore, our reputation is strengthened as we are registered and approved by prominent public and private sector organizations and esteemed consultants.*

INSPECTION AND TESTING

*The Cables are inspected and tested as per the laid down procedure as specified scheme of inspection & Testing as per **Bureau of Indian Standards (IS: 694:2010)***

- Conductor Resistance Test
- Tensile Test for Copper & Aluminium
- Dimensional Test
- High Voltage Test
- Volume Resistivity Test (IR)
- Physical Test on Insulation & Sheath
- FRLS / FR Test on Cable
- Flammability Test on Bunch Cable
- Flame Retardent Test
- Flammability Test on Single Cable
- Water Immersion Test

OUR CERTIFICATION

BIS (Bureau Of Indian Standards) Certificate

The BIS (Bureau of Indian Standards) certificate is crucial for ensuring products meet specific quality and safety standards in India. It is not only a legal requirement for certain goods but also instills consumer confidence through a visible mark of conformity. Additionally, BIS certification facilitates market access, especially in government tenders, and enhances the credibility of products, making it a vital factor for businesses aiming for compliance and consumer trust in the Indian market.

Quality Management System

ENERGO is ISO 9001-2015 certified, aligning with the latest international Quality Management System standards. Our cables undergo successful type-testing in our in-house laboratory as well as at independent NABL Accredited Test Laboratories, including CPRI, ERDA, NTH, and the MSME Test Lab of the Government of India

Environmental Management System

ENERGO is proudly ISO 14001-2015 certified, meeting the latest international standards for environmental sustainability. This certification highlights our commitment to effective environmental management and signifies our dedication to minimizing our ecological footprint.

OUR CUSTOMERS

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Public Sector:

NB तमसो मा ज्योतिर्गमय

SB SOUTH BIHAR POWER DISTRIBUTION COMPANY LTD. SBPDCL

MPMKVVCL
मध्य प्रदेश मध्य क्षेत्र विद्युत वितरण कंपनी लि

Madhya Pradesh Power Generating Co. Ltd.

एनटीपीसी NTPC

NLC INDIA
CREATING WEALTH FOR WELLBEING

MAHAGENCO
Maharashtra State Power Generation Co. Ltd.

आर.आइ.एन.एल. RINL VIZAG STEEL Pride of Steel

सेल SAIL

APGENCO

GSECL

NALCO

Private Sector:

JINDAL STEEL & POWER

Technip

L&T Power

vedanta

HATCH

adani

LANCO
Always Inspiring

ADANI

RELIANCE Power
Anil Dhirubhai Ambani Group

ESSAR

ANSALDO CALDAIE S.p.A.

OUR VISION AND MISSION

Vision :

As we relaunch, our vision is clear to lead as a premier integrated Power & Engineering Solutions Company. Prioritizing innovation, global expansion, and customer-centricity, we aim to adapt, excel, and contribute sustainably. Through talent development and community engagement, we are committed to continuous improvement, solidifying our position as a top industry player.

Mission :

In our business revival, our mission is concise: lead the integrated Power & Engineering Solutions Sector. Pursue perfection with integrity, commit to innovation, sustainability, and comprehensive services to strengthen our industry foothold. With a global mindset, we focus on customer satisfaction, talent development, and community engagement, underlining our dedication to excellence. Continuous improvement remains at our core, marking our journey with unwavering integrity and a commitment to perfection.

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OUR CORE VALUES

In our pursuit of excellence, we prioritize Transparency, fostering open communication; Universality,Celebrating diversity; Progressiveness, driving innovation; and Timelessness, grounding our actions in enduring principles. These core values define our identity, shaping a culture of honesty, inclusivity, innovation, and unwavering principles.

1

Transparency :

Transparency refers to the quality of being open, honest, and easily understood. In an organizational context, it involves clear and straightforward communication, sharing information openly, and fostering an environment where actions and decisions are visible and accountable.

2

Universal :

Universality means recognizing and embracing diversity, valuing unique perspectives, backgrounds, and contributions. This approach promotes inclusivity and equality, ensuring everyone feels welcomed and appreciated within the organization.

3

Progressive :

Progressiveness signifies a commitment to continuous improvement, innovation, and adaptability. It involves staying at the forefront of industry advancements, encouraging a forward-thinking mindset, and embracing positive changes to drive growth and success.

4

Timeless :

Timelessness encapsulates enduring principles and values that provide stability over the long term. Grounding organizational actions in unchanging values, it ensures consistency and resilience against evolving trends and challenges.

OUR PRODUCTS

AUTOMOTIVE CABLES

EEPL is specialized in manufacturing of various types of PVC insulated cables widely used in automotive wiring harness with continuous heat application @80° C. These cables offer high electrical, mechanical and chemical properties during operation. These cables are suitable under extreme wheather conditions and offer high flexibility.

EEPL offers following type of Automotive Cables:

A. FLRY-B (DIN 72551 Part 5 & 6)
These are automotive low volatge wires with reduced thickness of insulation
Made of PVC, with irregulary stranded conductor

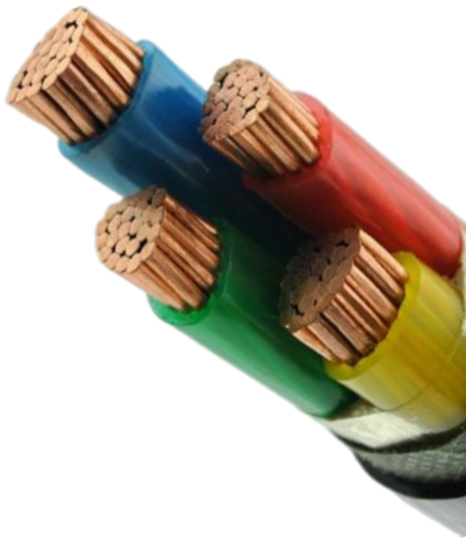
B. AVSS (JASO D 611:2014)
These are PVC insulated low volatge super slim auto vinyl (avss) copper cables

C. AVS (JASO D 611:2014)
These are PVC insulated low volatge slim auto vinyl (avs) copper cables

C. AV (JIS C 3406:1993)
These are PVC insulated low volatge auto vinyl (av) copper cables

Technical Specification :

Cable Type	:	FLRY-B, AVSS, AVS, AV
Reference Specification	:	DIN 72551, JASO D 611, JIS C 3406
Conductor Material	:	Soft Annealed Electrolytic Copper Cu Purity : > 99.97 & Conductivity : > 101%
Insulation Material	:	HR PVC (Lead Free)
Voltage	:	60 V DC
Temperature Range	:	-40° C to +105° C
Special Properties	:	Heat Ageing at 120 hrs.
Product Safety	:	RoHS & Reach Compliant
Colour	:	Cables are available in various single & dual stripe colour as per customer requirement



A. FLRY-B (DIN 72551 Part 5 & 6)

Cross Section Area (sqm)	No. of Strands	Diameter of Single Wire - Max. (sqm)	Bunch Diameter (Max) (sqm)	Electrical Resistance @20° C (Max) MQ/m	Insulation Thickness (Std) (mm)	Overall Diameter (mm)	
						(min)	(max)
0.35	12	0.20	0.90	47.8 - 52	0.20	1.20	1.40
0.50	16	0.20	1.00	34.1 - 37.1	0.22	1.40	1.60
0.75	24	0.20	1.20	22.7 - 24.7	0.24	1.70	1.90
1.00	32	0.20	1.35	17.0 - 18.5	0.24	1.90	2.10
1.50	30	0.25	1.70	11.7 - 12.7	0.24	2.20	2.40
2.50	50	0.25	2.20	7.0 - 7.6	0.28	2.70	3.00
4.00	56	0.30	2.75	4.32 - 4.70	0.32	3.40	3.70
6.00	84	0.30	3.30	2.85 - 3.10	0.32	4.00	4.30
10.00	80	0.40	4.40	1.82 (Max)	0.48	5.50	6.00
16.00	126	0.40	5.50	1.16 (Max)	0.48	7.00	7.50

B. AVSS (JASO D 611:2014)

Cross Section Area (sqm)	No. of Strands	Diameter of Single Wire - Max. (sqm)	Bunch Diameter (Max) (sqm)	Electrical Resistance @20° C (Max) MQ/m	Insulation Thickness (Std) (mm)	Overall Diameter (mm)	
						(min)	(max)
0.35	7	0.26	0.80	50.20	0.24	1.40	1.50
0.50	7	0.30	1.00	32.70	0.24	1.60	1.70
0.50f	19	0.18	1.00	34.60	0.24	1.60	1.70
0.75	7	0.37	1.80	22.30	0.24	1.70	1.80
0.75f	19	0.23	1.20	23.60	0.24	1.80	1.90
0.85	7	0.39	1.10	20.80	0.24	1.80	1.90
1.25	19	0.29	1.50	14.90	0.24	2.10	2.20
2.00	19	0.37	1.90	9.00	0.32	2.70	2.80
2.00f	37	0.26	1.80	9.50	0.32	2.60	2.70

OUR Products

C. AVS (JASO D 611:2014)

Cross Section Area (sqm)	No. of Strands	Diameter of Single Wire - Max. (sqm)	Bunch Diameter (Max)	Electrical Resistance @20° C	Insulation Thickness (Std) (mm)	Overall Diameter (mm)	
						(min)	(max)
0.50	7	0.30	1.00	32.70	0.32	2.00	2.10
0.85	11	0.32	1.20	20.80	0.32	2.20	2.30
1.25	16	0.32	1.50	14.30	0.32	2.50	2.60
2.00	26	0.32	1.90	8.80	0.32	2.90	3.10
3.00	41	0.31	2.40	5.60	0.40	3.60	3.80
5.00	65	0.32	3.00	3.50	0.48	4.40	4.60

D. AV (JIS C 3406:1993)

Cross Section Area (sqm)	No. of Strands	Diameter of Single Wire - Max. (sqm)	Bunch Diameter (Max)	Electrical Resistance @20° C	Insulation Thickness (Std) (mm)	Overall Diameter (mm)	
						(min)	(max)
0.50f	20	0.18	1.00	36.70	0.48	2.30	2.40
0.75	30	0.18	1.20	24.40	0.48	2.40	2.60
0.85	11	0.32	1.20	20.80	0.48	2.40	2.60
2.00	26	0.32	1.90	8.81	0.48	3.10	3.40
3.00	41	0.31	2.40	5.59	0.56	3.80	4.10
5.00	65	0.32	3.00	3.52	0.64	4.60	4.90
8.00	50	0.45	3.70	2.32	0.72	5.50	5.80

Features:

- **Insulation:** Designed with durable insulation materials to protect against short circuits and electrical interference.
- **Temperature Resistance:** Engineered to withstand varying temperature conditions within a vehicle's engine compartment.
- **Vibration Resistance:** Constructed to endure the mechanical vibrations and movements associated with vehicle operation.

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MULTISTRAND SINGLE CORE FLEXIBLE CABLES

EEPL flame retardant low smoke and low halogen (FR-LSH) PVC insulated cables are widely used in housing & commecial buildings. These cables offer high electrical, mechanical and chemical properties during operation. These cables are suitable under extreme wheather conditions and offer high flexibility:

Technical Specification :

Reference Specification	:	IS:694:2010
Conductor Material	:	Flexible electrolytic annealed plain copper (Cu Purity : > 99.97 & Conductivity : > 101%)
Insulation	:	Specially formulated FR-LSH (Flame Retardant Low Smoke and Halogen) PVC
Voltage Grade	:	Up to and including 1100 V
Product Safety	:	RoHS & Reach Compliant
Packing	:	In Boxes of 90 Meters
Colour	:	Red, Yellow, Black, Blue, Green, White & Grey
Sizes	:	0.50 sqm. to 10 sqm.

FR/FR-LSH MULTISTRAND SINGLE CORE FLEXIBLE CABLES

Nominal Area of Conductor	No. of Strands /Max Strand Dia	Nominal Insulation Thickness	Max Overall Diameter	Electrical Resistance @20° C	Current Carrying Capacity 2 Cables, Single Phase	
					Enclosed in Conduit /Trunking	Open Surface
sq. mm	mm	mm	mm	Ohms/km	Amps	Amps
0.50	16/0.20	0.60	2.30	0.39	0.40	4.00
0.75	24/0.20	0.60	2.50	0.26	0.70	7.50
1.00	32/0.20	0.60	2.70	18.10	0.11	12.00
1.50	30/0.25	0.70	3.30	12.10	0.13	16.00
2.50	50/0.25	0.80	3.90	7.14	0.18	22.00
4.00	56/0.30	0.80	4.40	4.95	0.24	29.00
6.00	84/0.30	0.80	4.80	3.30	0.31	37.00
10.00	140/0.30	0.10	6.40	9.91	2.39	46.00

OUR Products

FR/FR-LSH MULTISTRAND MULTICORE ROUND FLEXIBLE CABLES

EEPL flame retardant low smoke and low halogen (FR-LSH) PVC insulated cables are widely used in housing & commecial buildings. These cables offer high electrical, mechanical and chemical properties during operation. These cables are suitable under extreme wheather conditions and offer high flexibility:

Technical Specification :

Outer Colour	:	Black
Core Colour Identification	:	Red, Yellow, Black, Blue, Green, White & Grey
2 Core	:	Red & Black
3 Core	:	Red, Black, Yellow/Green Line
4 Core	:	Red, Black, Yellow/Green Line & Blue
Sizes	:	0.75 sqm. to 10 sqm.
Packing	:	In Coil form

Nominal Area of Conductor	Electrical Resistance @20° C	Nominal Insulation Thickness	Approx Overall Diameter	Nominal Sheath Thickness			Nominal Sheath Thickness			Approx Overall Diameter
				2 Core	3 Core	4 Core	2 Core	3 Core	4 Core	
sq. mm	Ohms/km	mm	mm	mm	mm	mm	mm	mm	mm	Amps
0.75	26.00	0.60	2.50	0.90	0.90	0.90	6.80	7.20	7.80	0.70
1.00	18.10	0.60	2.60	1.20	1.20	1.20	7.50	8.00	8.70	0.11
1.50	12.10	0.70	3.00	1.20	1.20	1.20	8.60	8.90	10.00	0.14
2.50	7.41	0.80	3.70	1.20	1.20	1.20	10.00	10.60	11.60	0.19
4.00	4.95	0.80	4.30	1.20	1.20	1.20	11.00	11.50	13.00	0.26
6.00	3.30	0.80	5.10	1.20	1.20	1.20	12.50	13.30	14.80	0.30
10.00	1.91	0.10	6.60	1.30	1.30	1.30	15.60	16.60	18.60	0.39

SUBMERSIBLE CABLES

Engineered for underwater applications, Submersible Cables boast robust insulation, specifically tailored for demanding scenarios such as submersible pumps and offshore drilling. These cables are meticulously designed to guarantee steadfast power and signal transmission, providing unparalleled reliability in the face of challenging conditions.

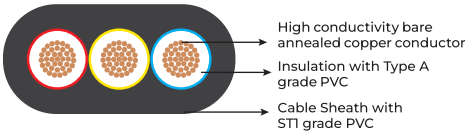
These are flat, PVC-insulated cables designed with three cores for submersible pump motors. They adhere to the IS-694:2010 standard, suitable for voltages up to 1100V.

Best Load Capacity Water Resistant former's Choice 99.97% Grade Copper.

Technical Specification :

Size	:	1.5 sqm. mm to 16 sq.mm
Outer Colour	:	Black & Grey
Core Colour	:	Red, Yellow & Blue

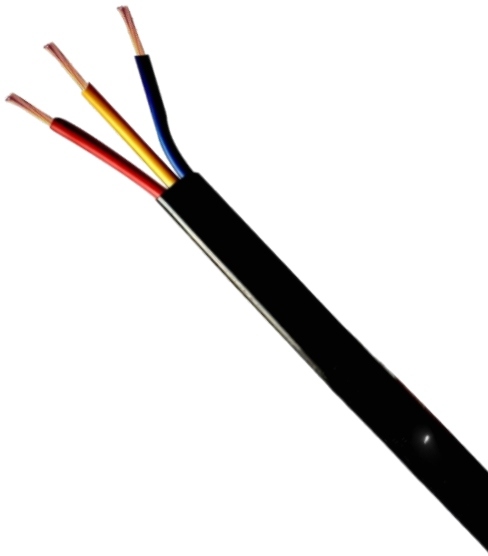
Cable Cross Section View



Features:

- Better finish and strength for heavy duty applications
- Non hygroscopic: High discoloration resistance capacity of copper conductors
- High abrasion resistant

Nominal Area of Conductor	Electrical Resistance @20° C	Nominal Insulation Thickness	Nominal Sheath Thickness	Approx Overall Size	Current Rating
sq. mm	Ohms/km	mm	mm	mm	Amps
1.00	18.10	0.60	0.90	9.3 x 4.3	0.11
1.50	12.10	0.70	0.90	12 x 4.6	0.14
2.50	7.41	0.80	1.00	12 .2 x 5.4	0.19
4.00	4.95	0.80	1.00	14.6 x 6.2	0.26
6.00	3.30	0.80	1.10	16.6 x 7.0	0.30
10.00	1.91	1.00	1.40	20.7 x 8.1	0.39
16.00	1.21	1.00	1.40	24.2 x 55	0.55



OUR Products

ALUMINIUM TWIN FLAT CABLE

Aluminum twin flat cable is a space-efficient electrical wiring option with two parallel aluminum conductors. Its flat design and lightweight nature make it suitable for tight spaces in residential and commercial applications. The cable is commonly used for various electrical connections, offering flexibility and cost-effectiveness.

Technical Specification :

Size : 2.5 sq. mm to 16 sq. mm

Outer Colour : Black

Core Colour : Red & Black

Nominal Area of Conductor	Electrical Resistance @20° C	Nominal Insulation Thickness	Nominal Sheath Thickness	Approx Overall Size	Current Rating
sq. mm	Ohms/km	mm	mm	mm	Amps
2.50	12.10	0.70	1.00	9.3 x 5.6	0.19
6.00	4.61	0.80	1.10	11.2 x 6.8	0.32
10.00	3.08	1.00	1.20	13.8 x 8.0	0.42
16.00	1.91	1.00	1.30	16.8 x 9.7	0.58

WHY US?

ENERGO
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Energo stands as an eminent force in the domain of wires and cables, tracing its **roots back to 1989**. Over the years, we have solidified our position as a premier provider of top-notch electrical solutions, serving a diverse clientele that spans individual consumers to large-scale organizations. Our journey is adorned with a storied history of outstanding performance, characterized by an unwavering commitment to excellence and customer satisfaction.

Specializing in multicore wires, submersible wires, aluminum wires, and automobile wires, we present a comprehensive range of products meticulously designed to meet and exceed the highest industry standards. Our relentless dedication to innovation and reliability ensures that every wire and cable bearing the Energo insignia epitomizes unparalleled quality and durability.

Opt for Energo to experience a seamless fusion of **expertise, reliability, and a legacy of excellence in electrical solutions**

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