



# COMPANY PROFILE

2024

AN ISO 9001:2015 COMPANY

**MARDIA**<sup>®</sup>

**C A B L E S**

**PVC INSULATED WIRES & CABLES  
SINCE 1987**

**Mardia Cables**, established in 1987, boasts over 37 years of extensive industry experience, positioning itself as a prominent player in the cable manufacturing sector. Our headquarters are based in Chennai, Tamil Nadu, instilling us with immense pride in our distinguished brand name - Mardia Cables - which has become synonymous with unparalleled excellence and reliability within the industry.

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COMPANY  
PROFILE

**200+**  
PRODUCT

**100+**  
DEALERS

**450+**  
RESIDENTIAL  
PROJECTS

**50+**  
EMPLOYEE

**120+**  
COMERICAL  
PROJECTS

**15000+**  
CUSTOMER  
SATISFACTION

# INTRODUCTION ABOUT OUR COMPANY

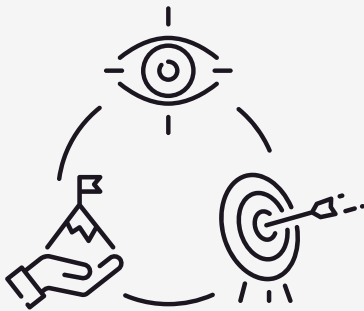
## ABOUT US



Mardia Cables, established in 1987, boasts over 36 years of extensive industry experience, positioning itself as a prominent player in the cable manufacturing sector. Our headquarters are based in Chennai, Tamil Nadu, instilling us with immense pride in our distinguished brand name - Mardia Cables - which has become synonymous with unparalleled excellence and reliability within the industry.

Our commitment to quality and precision in cable manufacturing is unwavering. Through the use of diverse dielectric materials such as PVC, XLPE, HR, FR, FRLS, ZHFR, ZHLS, and FS, we ensure that our cables comply with industry norms and regulations. Furthermore, we possess the exceptional capability to customize cables to meet the specific requirements of our valued customers.

## OUR VISION & MISSION



- With over 36 years of experience in the industry, Mardia Cables has garnered invaluable expertise and knowledge.
- Build exceptional standard and system for productivity, performance, safety, environment and quality.
- Our long-standing presence reflects our ability to consistently deliver reliable and high-quality products.
- Focus on pushing the boundaries of cable manufacturing.
- Expand Manufacturing facility and distribution network to cater to all over the globe.
- We offer a comprehensive range of cables, including instrumentation, data, low ampacity power, and control cables. This diversity allows customers to find solutions that precisely meet their unique requirements.

## OUR QUALITY POLICY

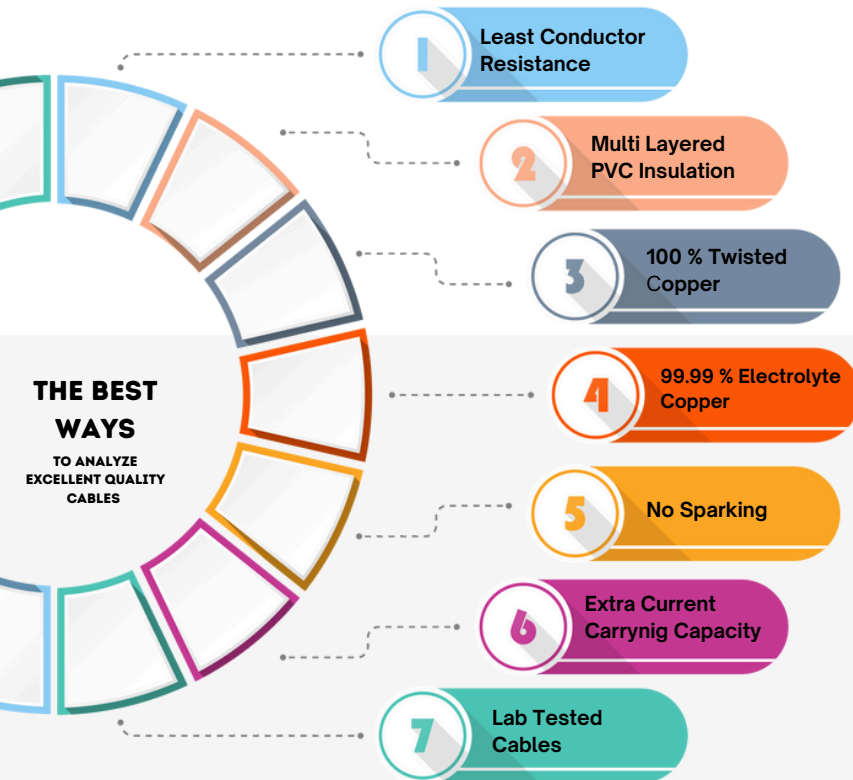


- Mardia Cables follows rigorous testing procedures at every stage of the manufacturing process. This ensures that all products meet strict quality standards and perform reliably in various applications.
- We source only the finest raw materials from trusted suppliers, guaranteeing the integrity and durability of our cables.
- We are committed to continuous improvement and invest in research and development to stay ahead of industry advancements and deliver cutting-edge solutions.
- Continually monitor and analyze customer feedback and process performance with the aim to enhance customer satisfaction.

# WHY CHOOSE US ?

**“ FROM HOMES TO INDUSTRIES,  
TRUST ONLY THE BEST FOR  
YOUR ELECTRICAL NEEDS.”**

## WHY CHOOSE US ?



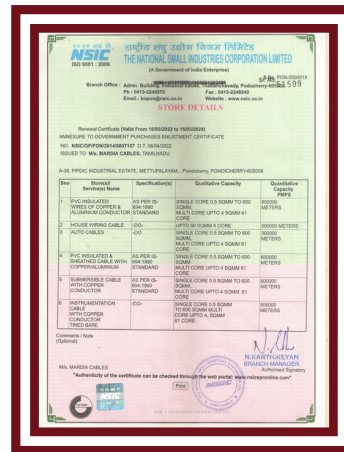
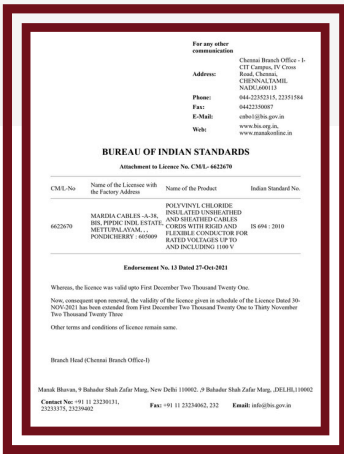
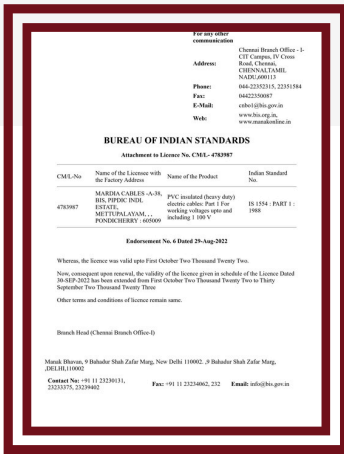
Discover the powerhouse behind India's top-quality wires and cables. Get ready to dive into the world of cutting-edge technology and innovation.

- **Diverse Product Range:** Our company offers a wide variety of wires and cables to meet the needs of various industries and applications.
- **High-Quality Standards:** We ensure that all our products meet the highest quality standards, ensuring reliable and safe performance.
- **Cutting-Edge Technology:** Our manufacturing processes incorporate the latest technologies to produce wires and cables that are efficient and durable.



# OUR CERTIFICATES

**DID YOU KNOW THAT OUR CABLE MANUFACTURING PLANT IS CERTIFIED FOR QUALITY AND SAFETY STANDARDS? REST ASSURED THAT OUR PRODUCTS ARE MADE TO THE HIGHEST INDUSTRY SPECIFICATIONS, GIVING YOU PEACE OF MIND WITH EVERY PURCHASE.**

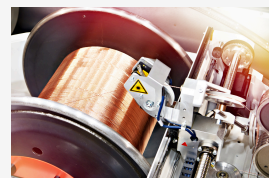
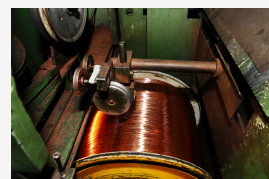
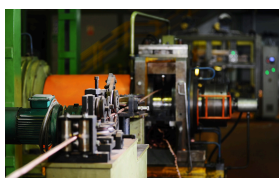
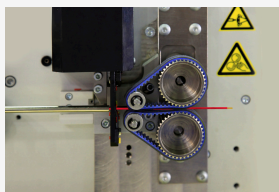


IS:694-2010



# MANUFACTURING PROCESS

**DIVE INTO THE WORLD OF INNOVATION WITH OUR CABLE MANUFACTURING PROCESS!  
FROM RAW MATERIALS TO THE FINAL PRODUCT, EXPERIENCE THE JOURNEY OF  
CREATING HIGH-QUALITY CABLES THAT POWER OUR MODERN WORLD.**



# FR & FR-LSH HOUSEWIRE

## PRODUCT DESCRIPTION

**MARDIA CABLES** Single core cables are FR, FR-LSH, HR PVC insulated electrical wires & cables are used for switch control, relay, instrumentation panels of power, static appliances, internal connectors in motor starters and controllers.

## APPLICATION

FR PVC & FR-LSH PVC 70°C cables suitable for ambient wiring in control cabinets, panels and power switchgear for enhanced safety whereas HR / HR FR PVC 85°C cables suitable for higher ambient wiring in control cabinets, panels and power switchgear.

## CONSTRUCTION

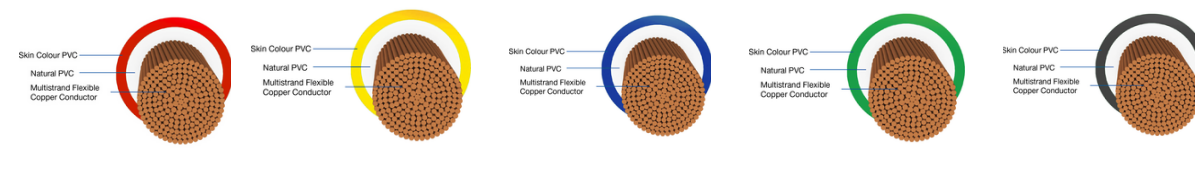
- The conductors are bare annealed electrolytic grade copper and bunched together as per class 1,2 & 5 of IS 8130.
- Bunched conductors are insulated with special grade PVC compound having high insulation resistance value conform to IS 5831
- The insulation process is carried out on modern high-speed extrusion lines with a high degree of accuracy.
- Voltages up to and including 1100 V. as per IS 694:2010

## FEATURES

- Single core cables are an eco-friendly choice with high technology production facility.
- Automatic on-line critical diameter control.
- List of features such as safety, reliability, fire resistance, fire retardant, lead free and halogen free cables
- Perfect for installation in all House wiring, electrically operated machines and equipment's



Nominal Area in Sq.mm	No of strands/ Diameter in (mm)	Nominal Insulation Thickness in (mm)	Maximum Diameter Over Insulation (mm)	Maximum DC Resistance Ω/Km	Current Rating in Amps.
1	14/0.30	0.60	2.70	18.10	12
1.50	22/0.30	0.60	3.10	12.10	16
2.50	36/0.30	0.70	3.70	7.10	22
4	56/0.30	0.80	4.30	4.95	29
6	84/0.30	0.80	4.80	3.30	37



# SUBMERSIBLE FLAT CABLE

## APPLICATION

**MARDIA CABLES** 3 Core Flat Submersible Cables are used to connect underwater submersible pump-sets with the supply lines, used in Agriculture, Irrigation, Domestic installation & Outdoor applications. These cables are manufactured keeping in mind the critical space requirement, protection towards indefinite immersion in water under specified conditions, protection against rain-water & against ingress of small solid foreign bodies.

## CONSTRUCTION

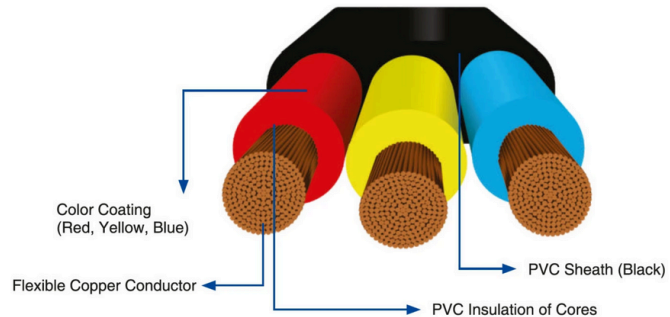
- These Cables are produced from best quality electrolytic copper, which is drawn, annealed on-line & bunched on automatic machines, to ensure flexibility and uniform resistance.
- Co-extruded Insulation with special grade PVC, for better electrical properties.
- Cores are laid parallel & Outer Sheathed with highly abrasion resistant PVC compound which is impervious to grease, oil and water etc.

## FEATURES

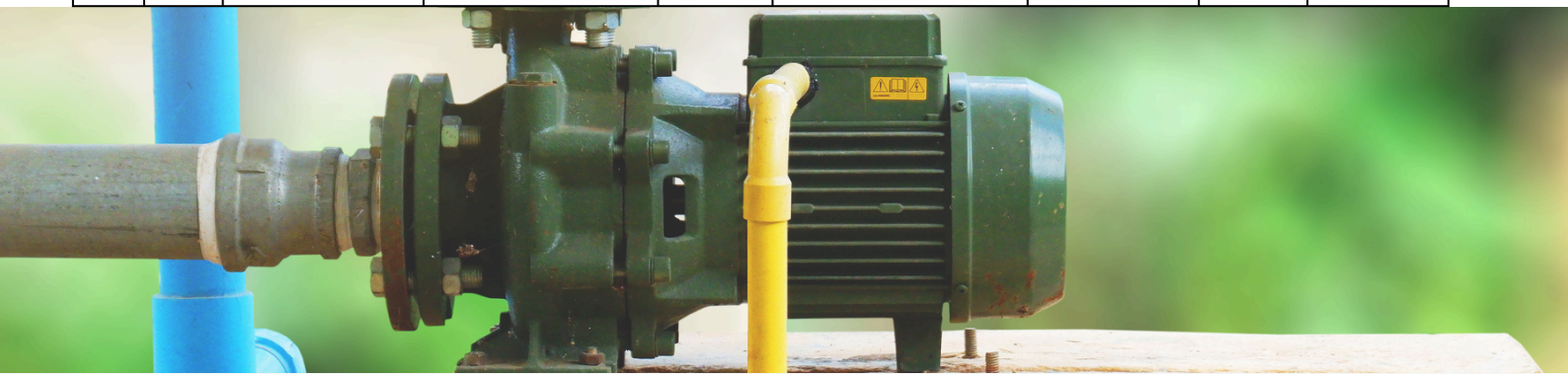
- Online wire drawing with annealing
- Co-extruded PVC Insulation, for better Insulation & Electrical properties
- Online High Voltage Spark Testing, ensuring no weak spots
- Automatic on-line critical diameter control
- Stringent Quality Control

## SAFETY REQUIREMENTS

- Coiled Submersible cable should always be spread out before using, to avoid overheating in use
- Ensure proper joining of the cable in order to avoid failure & short circuit
- Proper care should be taken while inserting the cable in the bore well, to avoid slicing of the Outer Sheath



NO. OF CORES	CONDUCTOR		Insulation		Sheath		MAX. CR at 20C	Current Carrying Capacity
	AREA mm <sup>2</sup>	CONSTRUCTION No of strands/size	Nominal Thickness (mm)	Dia (mm)	Nominal Thickness (mm)	Height * Width		
3	1.50	22/0.30	0.60	2.70	0.90	4.60*10.00	13.30	16
3	2.50	36/0.30	0.70	3.40	1.0	5.50*12.50	7.98	22
3	4	56/0.30	0.80	4.00	1.0	7.45*16.40	4.95	29
3	6	84/0.30	0.80	4.55	1.10	8.40*18.60	3.30	37
3	10	80/0.40	1.0	5.90	1.40	10.10*22.50	1.91	51
3	16	126/0.40	1.0	7.20	1.40	10.80*27.00	1.21	68
3	25	196/0.40	1.20	8.70	2.0	12.70*30	0.780	86
3	35	276/0.40	1.20	9.90	2.0	14.00*33.50	0.554	110





# FELXIBLE MULTICORE

## APPLICATION

**MARDIA CABLES** multicore cables are PVC, FRPVC, FRLSHPVC insulated and sheathed electrical wires & cables are used for transmission of low-voltage electric current for Electric motors, DC power transformers, Electrical Control Panel boards and Battery cables.

- Industrial Use
- Machine Control Wiring
- Engineering Plants
- Refrigeration Plants
- Appliances (Home & Industrial)
- Office Equipment Machines
- Paint Shop
- Control Panel Wiring
- General use as control cables in various machines and equipment's.

Voltages up to and including 1100 V. as per IS 694:2010.

## CONSTRUCTION

- These cables are highly flexible in construction & designed with high Di-electric strength.
- **Conductors:** The conductors are bare annealed pure electrolytic grade 99.97% copper and bunched together as per class 5 of IS 8130.
- **Insulation:** Bunched conductors are insulated with special grade PVC compound having high insulation resistance value. The insulation process is carried out on modern highspeed extrusion lines with a high degree of accuracy.
- **Core coding and laying:** In multi core cables insulated cores are laid form the core assembly on stranding machine and all cores are coded with colour or numbering for easy identification as per National/International coding practices.
- **Sheathing:** Sheathing is provided with special PVC compound to facilitate stripping as also to withstand mechanical abrasion while in use.

## FEATURES

- Multicore round cables are an eco-friendly choice with high technology production facility. Automatic on-line critical diameter control.
- List of features such as safety, reliability, fire resistance, fire retardant, lead free and halogen free Flexible cables from Mardia cables.
- Perfect for installation in all electrically operated machines and equipment's
- These wires are flexible and provide the best in class protection all around.
- We produce these cables in 100 m length for different core configurations.



# FELXIBLE MULTICORE

## TABLE 1

Nominal Area in Sq.mm	No of strands/ Diameter in (mm)	Nominal Insulation Thickness in (mm)	Core diameter in (mm)	Nominal Sheath Thickness in (mm)				Over all diameter in (mm)				Maximum DC Resistance $\Omega$ /Km	Current Rating in Amps.
				2 core	3 core	4 core	5 core	2 core	3 core	4 core	5 core		
0.50	16/0.20	0.60	2.20	0.90	0.90	0.90	0.90	6.2	6.4	7	7.6	39	4
0.75	24/0.20	0.60	2.40	0.90	0.90	0.90	0.90	6.6	6.7	7.5	8	26	7
1	32/0.20	0.60	2.60	0.90	0.90	0.90	1.0	7	7.1	8	8.6	19.5	12
1.50	30/0.25	0.60	2.80	0.90	0.90	0.90	1.0	7.4	7.5	8.6	9.4	13.3	16
2.50	50/0.25	0.70	3.50	1.0	1.0	1.0	1.0	8.6	8.7	9.8	10.7	7.98	20
4	56/0.30	0.80	4.20	1.0	1.0	1.0	1.1	10.4	10.5	11.8	13.2	4.95	27

## TABLE 2

Nominal Area in Sq.mm	No of strands/ Diameter in (mm)	Nominal Insulation Thickness in (mm)	Core diameter in (mm)	Nominal Sheath Thickness in (mm)			Over all diameter in (mm)			Maximum DC Resistance $\Omega$ /Km	Current Rating in Amps.		
				2 core	3 core	4 core	2 core	3 core	4 core		2 core	3 core	4 core
6	84/0.30	0.8	4.80	1.10	1.20	1.20	11.60	12.20	13.70	3.30	34	30	30
10	80/0.40	1.0	6.30	1.30	1.40	1.40	14.80	15.20	17.20	1.91	44	39	39
16	126/0.40	1.0	7.30	1.40	1.40	1.40	17.20	17.50	19.80	1.21	61	56	56
25	196/0.40	1.2	9.10	1.40	1.50	1.50	21	22.0	24.50	0.78	69	60	60
35	276/0.40	1.2	10.10	1.60	1.60	1.60	23.20	23.60	27.0	0.554	88	77	77
50	396/0.40	1.4	11.90	2.0	2.0	2.0	28.20	28.70	32.50	0.386	116	102	102
70	354/0.50	1.4	13.90	2.20	2.20	2.20	32.20	32.80	37.50	0.272	155	140	140
95	484/0.50	1.6	16.30	2.40	2.40	2.40	37	37.60	45.0	0.206	190	165	165
120	608/0.50	1.6	18.20	2.50	2.50	2.50	-	-	-	-	-	-	-
150	750/0.50	1.8	20.20	-	2.60	2.60	-	-	-	-	-	-	-
185	925/0.50	2.0	22.60	-	2.80	2.80	-	-	-	-	-	-	-
240	1221/0.50	2.2	25.20	-	3.0	3.0	-	-	-	-	-	-	-

# FELXIBLE MULTICORE

## TABLE 3

Area Sq.mm		0.50	0.75	1.0	1.50	2.50	4
Conductor Diameter in mm.		0.95	1.20	1.35	1.70	2.10	2.60
Avg. Insulation Thickness mm.		0.60	0.60	0.60	0.60	0.70	0.80
Core Diameter in mm.		2.20	2.40	2.60	2.80	3.50	4.20
Maximum DC Resistance Ω/Km		39	26	19.50	13.30	7.95	4.95
Current Rating in Amps.		4	7	12	16	22	29
6	Average Sheath Thickness in mm	0.90	1.0	1.0	1.0	1.10	1.20
	Approx Overall Diameter in mm	8.20	9.0	9.0	9.0	12	15.20
7	Average Sheath Thickness in mm	0.90	1.0	1.0	1.0	1.10	1.20
	Approx Overall Diameter in mm	8.20	9.0	9.0	9.0	12	15.20
8	Average Sheath Thickness in mm	1.0	1.0	1.0	1.10	1.20	1.30
	Approx Overall Diameter in mm	9.0	9.0	9.0	12	15.20	16.20
10	Average Sheath Thickness in mm	1.0	1.10	1.10	1.10	1.30	1.40
	Approx Overall Diameter in mm	10.50	12	12	12	16.20	16.20
12	Average Sheath Thickness in mm	1.0	1.10	1.10	1.10	1.30	1.40
	Approx Overall Diameter in mm	10.80	12	12	12	16.20	16.20
14	Average Sheath Thickness in mm	1.10	1.10	1.10	1.20	1.30	1.40
	Approx Overall Diameter in mm	12	12	12	15.20	16.20	16.20
16	Average Sheath Thickness in mm	1.10	1.20	1.20	1.20	1.40	1.50
	Approx Overall Diameter in mm	12.0	15.20	15.20	15.20	16.20	16.20
19	Average Sheath Thickness in mm	1.10	1.20	1.30	1.30	1.40	1.50
	Approx Overall Diameter in mm	12.80	15.20	16.20	16.20	16.20	16.20
24	Average Sheath Thickness in mm	1.20	1.30	1.40	1.40	1.50	1.60
	Approx Overall Diameter in mm	15.20	16.20	16.20	16.20	16.20	16.20
30	Average Sheath Thickness in mm	1.30	1.30	1.40	1.40	1.50	1.60
	Approx Overall Diameter in mm	16.20	16.20	16.20	16.20	16.20	16.20



# FLAT TRAVELLING CABLE

## APPLICATION

### MARDIA CABLES

Elevator Suspension Cable for Internal and Panoramic Elevators.

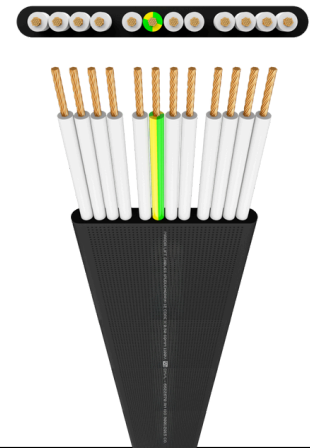
Also use as trailing cable for crane, conveyor plant, hoisting and lifting gear, suitable for installation in dry, moist and wet rooms.

## CONSTRUCTION

- CONDUCTOR - Flexible bright annealed bare copper conductor Class 5, manufactured using 99.97% pure electrolytic grade copper, with more than 100% conductivity, as per IEC 60228.
- INSULATION - Specially formulated PVC for continuous flexing operation, meeting the requirement of Type D as per IEC 60227-2
- CORE IDENTIFICATION - Grey insulated cores printed with numerals in black & one Y/G for Ground
- OUTER SHEATH - Specially formulated PVC with a blend of Elastomer, for continuous flexing operation, meeting the requirement of Type ST 3 as per IEC 60227-2, in black color

0.5 mm<sup>2</sup> Bare Cu Cond., Special PVC Insulated & Sheathed Travelling Cable; 300/500 V

NO. OF CORES	CONDUCTOR		APPROX OVERALL DIMENSIONS	MAX. CR at 20C	Current Carrying Capacity	Min. Loop Diameter
	AREA mm <sup>2</sup>	CONSTRUCTION No of strands/size	H * W	Ω/Km	Amps	mm
4	0.50	16/0.20	4.20 * 12.10	39	4	300
12	0.50	16/0.20	4.20 * 31.30	39	4	300
16	0.50	16/0.20	4.20 * 41.70	39	4	300
24	0.50	16/0.20	9.30 * 34.70	39	4	300
30	0.50	16/0.20	9.30 * 43.20	39	4	300



0.75 mm<sup>2</sup> Bare Cu Cond., Special PVC Insulated & Sheathed Travelling Cable; 300/500 V

NO. OF CORES	CONDUCTOR		APPROX OVERALL DIMENSIONS	MAX. CR at 20C	Current Carrying Capacity	Min. Loop Diameter
	AREA mm <sup>2</sup>	CONSTRUCTION No of strands/size	H * W	Ω/Km	Amps	mm
4	0.75	24/0.20	4.20 * 12.20	26	7	300
12	0.75	24/0.20	4.20 * 32.0	26	7	300
16	0.75	24/0.20	4.20 * 41.70	26	7	300
24	0.75	24/0.20	9.30 * 34.70	26	7	300
30	0.75	24/0.20	9.30 * 43.20	26	7	300

# FLAT TRAVELLING CABLE



**1.50 mm<sup>2</sup> Bare Cu Cond., Special PVC Insulated & Sheathed Travelling Cable; 300/500 V**

NO. OF CORES	CONDUCTOR		APPROX OVERALL DIMENSIONS	MAX. CR at 20C	Current Carrying Capacity
	AREA mm <sup>2</sup>	CONSTRUCTION No of strands/size	H * W	Ω/Km	Amps
4	1.50	48/0.20	4.95 * 15.50	13.30	6
8	1.50	48/0.20	4.95 * 26.0	13.30	6
12	1.50	48/0.20	4.95 * 36.50	13.30	6
16	1.50	48/0.20	4.95 * 39.80	13.30	6
18	1.50	48/0.20	4.95 * 54.20	13.30	6
24	1.50	48/0.20	4.95 * 72.60	13.30	6

**2.50 mm<sup>2</sup> Bare Cu Cond., Special PVC Insulated & Sheathed Travelling Cable; 300/500 V**

NO. OF CORES	CONDUCTOR		APPROX OVERALL DIMENSIONS	MAX. CR at 20C	Current Carrying Capacity
	AREA mm <sup>2</sup>	CONSTRUCTION No of strands/size	H * W	Ω/Km	Amps
4	2.50	80/0.20	5.70 * 15.50	7.98	22
5	2.50	80/0.20	5.60 * 18.30	7.98	22
8	2.50	80/0.20	5.60 * 27.90	7.98	22
12	2.50	80/0.20	5.70 * 27.0	7.98	22
16	2.50	80/0.20	5.70 * 56.40	7.98	22



**4,6,10,16,25 mm<sup>2</sup> Bare Cu Cond., Special PVC Insulated & Sheathed Travelling Cable; 300/500 V**

NO. OF CORES	CONDUCTOR		APPROX OVERALL DIMENSIONS	MAX. CR at 20C	Current Carrying Capacity
	AREA mm <sup>2</sup>	CONSTRUCTION No of strands/size	H * W	Ω/Km	Amps
4	4	56/0.30	7.45 * 20.00	4.95	29
4	6	84/0.30	8.40 * 23.45	3.30	37
4	10	80/0.40	10.10 * 29.15	1.91	51
4	16	126/0.40	10.80 * 36.20	1.21	68
4	25	196/0.40	12.50 * 40.50	0.78	86

# PENDANT CRANE CABLE

## APPLICATION

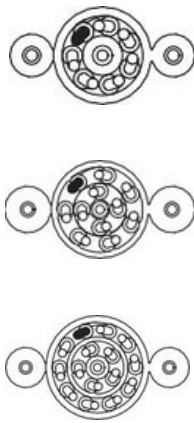
### MARDIA CABLES

Pendant cable is a control cable specially designed for use on hoist and crane systems. The two steel load bearing elements can be detached without damaging the outer sheath and fixed independently from the cable gland. The cable offers high flexibility at lower temperatures due to the quality of material used in the construction.

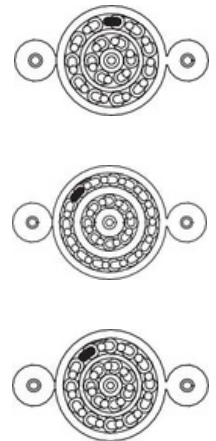
Use as a self supporting shaft cable. Usually installed on lift, cranes, control converters, high-bay racking system, cable-way, etc.

## CONSTRUCTION

- Conductor : Annealed Fine Stranded Class 5/6 Copper conductor as per EN 60228
- Insulation : PVC Compound Class 2/3
- Core colour : Grey color with Black numerals
- Stranding : In Layers with optimal lay-length
- Wrapping : Nylon - Textile Non Wooven Tape
- Supporting unit : Two Galvanized steel wire rope molded into outer sheath and laying parallel with the cable
- Sheath : Special Flexible PVC Compound
- Loop resistance : 2 x Conductor resistance
- Steel wire : 2 mm (Diameter)
- Sheath colour : Black



1.50 mm <sup>2</sup> Bare Cu Cond., Special PVC Insulated & Sheathed Crane Cable; 300/500 V						
NO. OF CORES	CONDUCTOR		APPROX OVERALL DIMENSIONS	MAX. CR at 20C	Current Carrying Capacity @ 20Deg C	
	AREA mm <sup>2</sup>	CONSTRUCTION No of strands/size	H * W	Ω/Km	Fixed	Moving
8	1.50	30/0.250	7.45 * 20.00	13.30	12	10
12	1.50	30/0.250	8.40 * 23.45	13.30	11	9.5
16	1.50	30/0.250	10.10 * 29.15	13.30	10	8.5
18	1.50	30/0.250	10.80 * 36.20	13.30	9.5	8
20	1.50	30/0.250	12.50 * 40.50	13.30	9	7.5
24	1.50	30/0.250		13.30	8.5	7



# VIR & SOLID CABLE

## APPLICATION

### MARDIA CABLES

Single core cables are PVC insulated electrical wires & cables are used for switch control, relay, instrumentation panels of power, static appliances, internal connectors in motor starters and controllers. PVC 70°C cables suitable for ambient wiring in control cabinets, panels and power switchgear for enhanced safety.

## CONSTRUCTION

- The conductors are bare annealed electrolytic grade copper and bunched together as per class 1,2 & 5 of IS 8130.
- Bunched conductors are insulated with special grade PVC compound having high insulation resistance value conform to IS 5831.
- The insulation process is carried out on modern high-speed extrusion lines with a high degree of accuracy.
- Voltages up to and including 1100 V. as per IS 694:2010



## FEATURES

- Single core cables are an eco-friendly choice with high technology production facility.
- Automatic on-line critical diameter control.
- List of features such as safety, reliability, fire resistance.
- Perfect for installation in all House wiring, electrically operated machines and equipment's



Nominal Area in Sq.mm	No of strands/ Diameter in (mm)	Nominal Insulation Thickness (mm)	Maximum diameter Over Insulation (mm)	Current Rating in Amps	Maximum DC Resistance Ω/Km
1	1/1.07	0.60	2.70	12	18.1
1.50	1/1.38	0.70	3.20	16	12.1
2.50	1/1.78	0.80	3.90	22	7.41
4	1/2.24	0.80	4.40	29	4.61
6	1/2.78	0.80	5.0	37	3.08
10	1/3.55	1.0	6.40	51	1.83
16	1/4.50	1.0	7.80	68	1.15

Nominal Area in Sq.mm	No of strands/ Diameter in (mm)	Nominal Insulation Thickness (mm)	Maximum diameter Over Insulation (mm)	Current Rating in Amps	Maximum DC Resistance Ω/Km
2.50	3/20	0.80	4.0	22	7.41
4	7/20	0.80	4.60	29	4.61
6	7/18	0.80	5.20	37	3.08
10	7/17	1.0	6.70	51	1.83
16	7/16	1.0	7.80	68	1.15
25	19/18	1.0	9.70	86	0.727
35	19/16	1.20	10.90	110	0.524
50	19/14	1.40	12.80	145	0.387
70	37/16	1.40	14.60	215	0.268
95	37/15	1.60	18.20	260	0.206
120	37/14	1.60	18.80	305	0.153

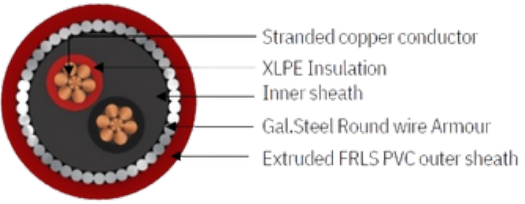


# FIRE ALARM CABLE

## APPLICATION

**MARDIA CABLES** – Fire alarm cable stranded copper conductor, XLPE insulated, cores laid up, PVC inner sheathed, GI wire armoured & FRLS PVC outer sheath twin cable.

- Addressable Fire Systems
- Data Circuits
- Monitor/Detection
- Control Circuits
- Initiating Circuits
- Notification Circuits



## CONSTRUCTION

- Stranded Class 2 Copper conductor as per EN 60228
- Insulated with XLPE type GP8 as per BS 7655-1.3
- Extruded inner sheath with PVC as per BS 5467
- Armoured with Galvanised Steel Round wire as per BS 5467
- Sheathed with Extruded FRLS PVC as per BS 5467

No. of core	Conductor cross sectional area (sqmm)	Dia over armour (mm)	Outer diameter (mm)
2	1.5	7.33	9.81
2	2.5	8.56	11.20
4	1.5	8.34	10.82
4	2.5	9.82	12.46





# WELDING CABLE

## APPLICATION

### MARDIA CABLES

FOR THE TRANSMISSION OF HIGH CURRENTS FROM THE ELECTRIC WELDING MACHINE TO THE WELDING

TOOL. SUITABLE FOR FLEXIBLE USE UNDER ROUGH CONDITIONS, ON ASSEMBLY LINES AND CONVEYOR

SYSTEMS, IN MACHINE TOOL & MOTOR CAR MANUFACTURING, SHIPBUILDING MANUALLY AND AUTOMATICALLY OPERATED LINE AND SPOT-WELDING MACHINES

## CONSTRUCTION

Conductor - High Conductivity, bare annealed copper flexible conductor, EC copper class 5 and 6 generally conforms to IEC 60228.

Separator - Tape separator between conductor and insulation

Insulation - NBR Insulated Flexible Nitrite Rubber.

Colour - Black or other colour



Single Core (SQMM)			Nominal Thickness of covering (mm)	Diameter of Cable (mm)	Copper Conductor		Aluminum Conductor	
Size	Amps	Strands			Max. Conductor Resistance @ 20° C (Ohm/Km)	Approx. Wt. of 100 Mtrs. Coils (Kgs.)	Max. Conductor Resistance at 20° C (Ohm/Km)	Approx. Wt. of 100 Mtrs. Coils (Kgs.)
16	150	510/0.20	2.00	10.0	1.210	23	.....	10.0
25	200	796/0.20	2.00	11.0	0.780	33	1.230	11.0
35	300	1108/0.20	2.00	12.0	0.554	42	0.901	12.0
50	400	702/0.30	2.00	15.0	0.386	58	15.0	15.0
70	600	999/0.30	2.00	17.5	0.272	82	17.5	17.5
95	800	1344/0.30	2.00	20.5	0.206	110	20.5	20.5
120	1000	1702/0.30	2.00	22.0	.....	.....	22.0	22.0
200								



# SOLAR CABLE

## APPLICATION

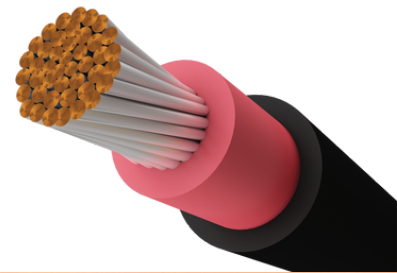
### MARDIA CABLES

1. SOLAR CABLES ARE INTENDED FOR USE IN PHOTOVOLTAIC POWER SUPPLY SYSTEMS.
2. BURIED IN GROUND FOR CONSTRUCTIONAL COVERED SYSTEMS.
3. USED IN RESIDENTIAL AND LARGE-SCALE SOLAR FARMS.
4. PANEL TO COMBINER BOX.
5. COMBINER BOX TO POWER INVERTER.
6. POWER INVERTER TO TRANSFORMER.

## CONSTRUCTION

- CONDUCTOR: FLEXIBLE ELECTROLYTIC TINNED FINE COPPER STRANDS, ACC. TO IEC 60228, CLASS 5
- INSULATION: CROSSLINKED HALOGEN FREE & FLAME RETARDANT INSULATION, COLOUR: WHITE, RED OR BLACK
- OUTER SHEATH: CROSSLINKED HALOGEN FREE & FLAME RETARDANT UV AND OZONE RESISTANT SHEATH
- IN BLACK OR BLACK WITH RED STRIP

Singlecore in sqmm.	XLPE Insulation Nominal Thickness	HR-FR Sheathing Nominal Thickness	Over all Diameter in mm.	Tolerance on Diameter	Tinned Copper Maximum Resistance @ 20 deg C (ohms/km)	Current Carrying Capacity (Single Cable in Air) (Amps)
1.5	0.7	0.8	4.8	+/-0.4	13.70	30
2.5	0.7	0.8	5.2	+/-0.4	8.210	41
4	0.7	0.8	5.8	+/-0.4	5.090	55
6	0.7	0.8	6.4	+/-0.4	3.390	70
10	0.7	0.8	7.3	+/-0.4	1.950	98



# LAN CABLE

## APPLICATION

**MARDIA CABLES** - CAT6E 250 MHZ. (Unshielded Twisted Pair) CAT6E UTP cables are an improved structured cabling are always advisable for High Speed Gigabit networking system.

Mardia Cables CAT6E cables are unshielded but we can also manufacture shielded as per customer requirement. This type of cable is often used in structured cabling for computer networks such as Ethernet, and is also used to carry many other signals such as basic voice, data, video services. These products are known for high quality featured like flexibility, compatibility and durability.

## CONSTRUCTION

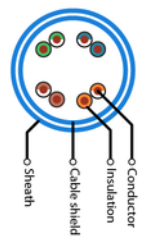
- Conductor: 24 AWG solid bare copper wire
- Insulation: High Density Polyethylene.
- Pairs: Two insulated conductors twisted together to form a pair
- Filler: Cross filler for separation of four pairs
- Sheathing: FR-PVC
- Cable Diameter: 6.1mm
- Cable Weight Approx.: 13.5kgs



Frequency MHz	Insertion Loss (dB/100m)	RL (dB)	NEXT (dB)	PSNEXT (dB)	ELFEXT (dB)	PSELFEXT (dB)	ACR (dB)	PSACR (dB)
1	2.0	20.0	74.3	72.3	67.8	64.8	72.3	70.3
4	3.8	23.0	65.3	63.3	55.8	52.8	61.5	59.5
8	5.3	24.5	60.8	58.8	49.7	46.7	55.5	53.5
10	6.0	25.0	59.3	57.3	47.8	44.8	53.3	51.3
16	7.6	25.0	56.2	54.2	43.7	40.7	48.6	46.6
20	8.5	25.0	54.8	52.8	41.8	38.8	46.3	44.3
25	9.5	24.3	53.3	51.3	39.8	36.8	43.8	41.8
31.25	10.7	23.6	51.9	49.9	37.9	34.9	41.2	39.2
62.5	15.4	21.5	47.4	45.4	31.9	28.9	32.0	30.0
100	19.8	20.1	44.3	42.3	27.8	24.8	24.5	22.5
200	29.0	18.0	39.8	37.8	21.8	18.8	10.8	8.8
250	32.8	17.3	28.3	36.3	19.8	16.8	5.5	3.5



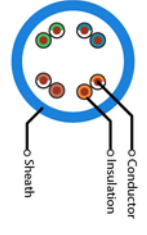
Shielded and foiled Twisted Pair (STP)



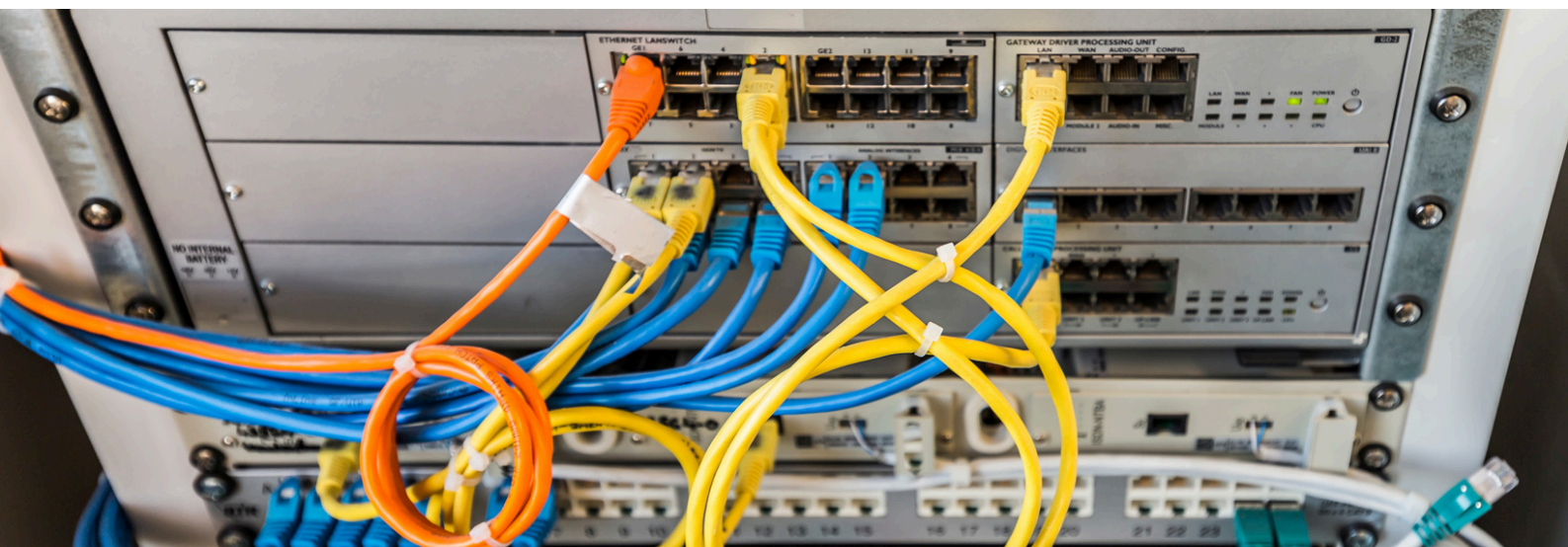
Foiled Unshielded Twisted Pair (UTP)



Shielded Twisted Pair (STP)



Unshielded Twisted Pair (UTP)



# CO-AXIAL CABLE

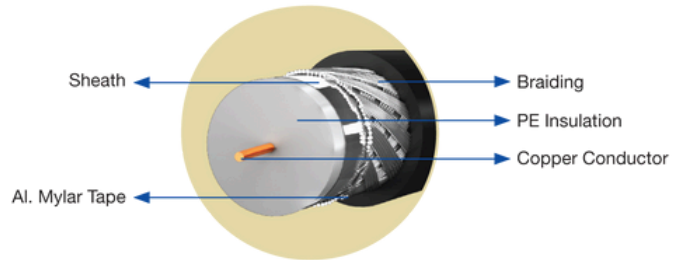
## APPLICATION

### MARDIA CABLES

The use of a coaxial cable helps to prevent many of the problems created by bifilarly wires: the twin conductor construction of coaxial (central conductor and shield) separated by a dielectric prevents the reception of outside interference, and at the same time, the loss of the electromagnetic wave.

Different types of coaxial are determined by the materials (conductors and dielectrics), the outer diameter, the characteristic impedance, the capacitance, the attenuation and the frequency range.

Components	RG-6 CCS	RG- 6	RG- 11
Nominal	MM		
Conductor	Solid Bare Copper		
Conductor Dia	0.92	1.02	1.63
Dielectirc	Foam PE		
Dia Over Dielectric	4.57	4.57	4.57
1 st Shield	Aluminum Foil Tape Bonded		
2nd Shield	Aluminum Alloy Braiding		
Coverage	60	60	60
Flooding Compund	Jelly		
Sheathing	PVC Black		
Sheathing Dia	6.60	7.00	10.00
Sheathing Wall Thickness	0.70	0.76	1.07
Steel Messenger		NA	NA
Single	1.30	NA	NA
Dual	1.83	NA	NA



Electrical Parameters	RG-6 CCS	RG- 6	RG- 11
Center Conductor (Max.Resistance@20deg)	3.55ohms/100m	2.14ohms/100m	0.85ohms/100m
5 ft (1.5m)	75 +/- 3Ohms	75 +/- 3Ohms	75 +/- 3Ohms
8 ft (2.4m)	85	85	85
Typical Attenuation@20 deg (dB/100m)			
55 MHz	5.24	5.20	3.15
211 MHz	9.42	9.50	6.23
300 MHz	11.25	11.72	7.8
400 MHz	13.12	13.61	8.53
550 MHz	15.45	16.08	9.97
750 MHz	18.34	18.54	11.97
1000 MHz	21.45	21.49	14.27



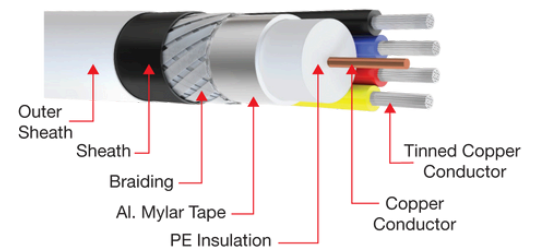
# CCTV CABLE

## APPLICATION

### MARDIA CABLES

CCTV Cables provided by us are manufactured in 3+1 and 4+1 cores i., e. 3 or 4 core for supply and 1 core for Video. The CCTV Cable offered by us is a composite structure of video and audio wires intended to install the cameras with audio system from one point to equipment's system. We use best quality raw materials to ensure efficient operation standards. Further, our CCTV Cables are safe and reliable transmission of voice. & data. These CCTV Cables are available in various specifications and reasonable prices to suit client's specific needs.

Construction	Unit	Product Size	Product Size
Cable Size		CCTV Cable 3+1	CCTV Cable 4+1
		3C x 0.15 SQMM	4C x 0.15 SQMM
Conductor (ABC)			
No. of Strands	No.	14	14
Strands Dia	mm	0.124	0.124
Insulation (PVC)			
Thickness (Nominal)	mm/No.	0.124/14	0.124/14
Colour	60	Red/Yellow/Blue	Red/Yellow/Blue/ Brown
Co-Axial Cable			
Conductor/Strands		0.56	0.56
Insulation (HDPE)			
Thickness (Nominal)	mm	1.20	1.20
Aluminium Foil			
Dia Over Inner Shield	mm	3.20	3.20
Coverage	mm%	15/100	15/100
Braiding			
Wire Dia (Nominal)	mm	0.120	0.120
Braiding Coverage	mm%	60	60
Sheathing			
Colour		White	White
Thickness (Nominal)	mm%	0.50	0.50



# SPEAKER CABLE

## APPLICATION

MARDIA CABLES

Speaker cables are highly recommended for use in connecting speakers, public address system for clear and distortion free voice with low dB loss.

## CONSTRUCTION

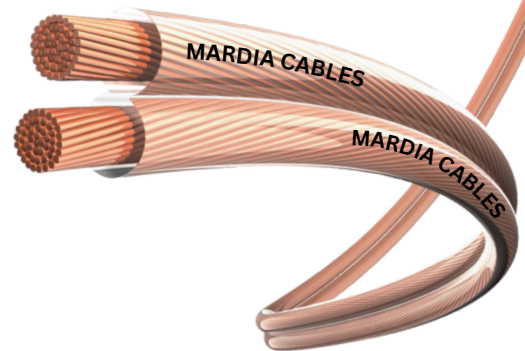
- The cables are manufactured with bright annealed plain flexible electrolytic grade copper conductor, bunched compactly, insulated with specially formulated PVC compound.
- Each core is uniquely designed for easy identification. In order to offer uniform capacitance throughout length the distance between the two conductors is maintained uniformly.
- Copper: Bare Copper and Bare + Tinned copper as per customer requirements.
- Packing: The delivery length is available in 90-meter coils
- Colour Availability: Transparent with red tracer for polarity identification.



Equivalent AWG	Nominal Area in Sq.mm	Maximum diameter Over Insulation (mm)	Current Rating in Amps	Maximum DC Resistance Ω/Km
22	0.5	4.2 x 2.1	39	18.1
19	0.80	4.7 x 2.4	26	12.1
18	1	5.7 x 2.9	19.5	7.41
16	1.50	6.0 x 3.0	13.3	4.61
14	2.50	7.0 x 3.6	8	3.08
12	4	8.4 x 4.1	5	1.83
10	6	9.6 x 4.7	3.3	1.15



Size AWG	2Ω Load	4Ω Load	6Ω Load	8Ω Load
22	3 ft (0.9m)	6 ft (1.8m)	9 ft (2.7m)	12 ft (3.6m)
19	5 ft (1.5m)	10 ft (3m)	15 ft (4.5m)	20 ft (6m)
18	8 ft (2.4m)	16 ft (4.9m)	24 ft (7.3m)	32 ft (9.7m)
16	12 ft (3.6m)	24 ft (7.3m)	36 ft (11m)	48 ft (15m)
14	20 ft (6.1m)	40 ft (12m)	60 ft (18m)	80 ft (24m)
12	30 ft (9.1m)	60 ft (18m)	90 ft (27m)	120 ft (36m)
10	50 ft (15m)	100 ft (30m)	150 ft (46m)	200 ft (61m)



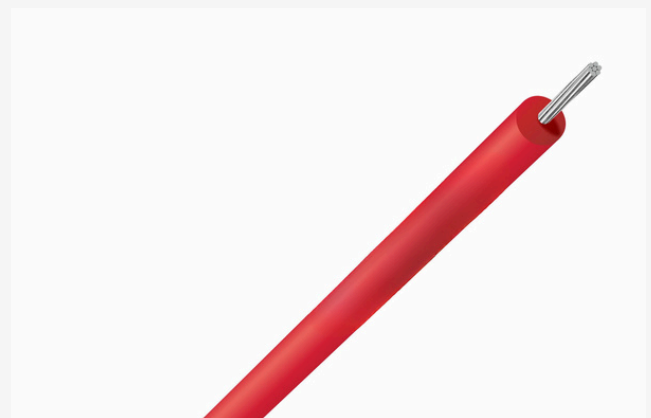
# OUR RANGE OF ALUMINIUM CABLE

- **ALUMINIUM TWIN CORE SERVICE WIRE**
- **ALUMINIUM VIR PVC INSULATED TWISTED CABLE & CTS**
- **ALUMINIUM ARMoured CABLES & UNARMoured CABLES**
- **WELDING CABLE ALUMINIUM**



# OTHER RANGE OF CABLE

- **SINGLE CORE - TINNED COPPER**
- **COPPER ARMoured CABLES**
- **RUBBER CABLE MULTICORE [HOFR & EPR/PCP] [VIR/TRS]**
- **SHIELDED CABLE MULTI CORE PVC INSULATED MYLER TAPED WITH ALUMINIUM FOIL [ATC] BRAIDED**
- **UNSHIELDED DISPLAY/RIBBON CABLE [ATC]**
- **OUTDOOR NETWORKING CABLE**
- **TELEPHONE UNARMoured CABLE & TELEPHONE ARMoured CABLE**



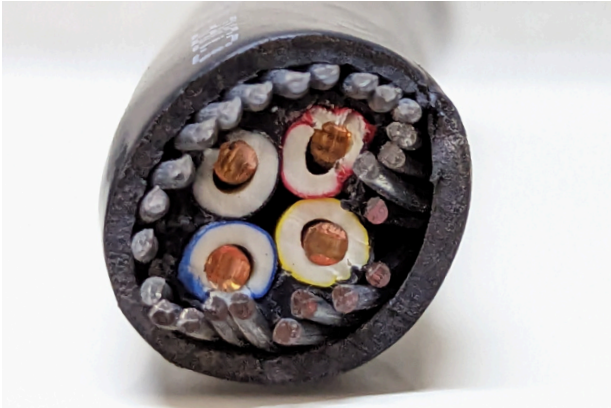


# OUR GALLERY

AN ISO 9001:2015 COMPANY

# MARDIA<sup>®</sup> CABLES

PVC INSULATED WIRES & CABLES  
SINCE 1987



# OUR GALLERY

AN ISO 9001:2015 COMPANY

# MARDIA<sup>®</sup> CABLES

PVC INSULATED WIRES & CABLES  
SINCE 1987



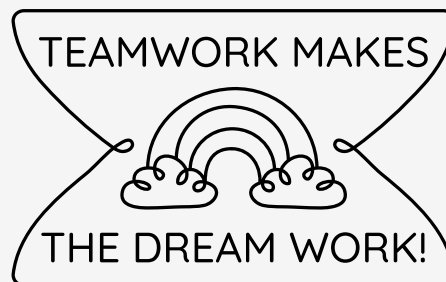
# TEAM WORK

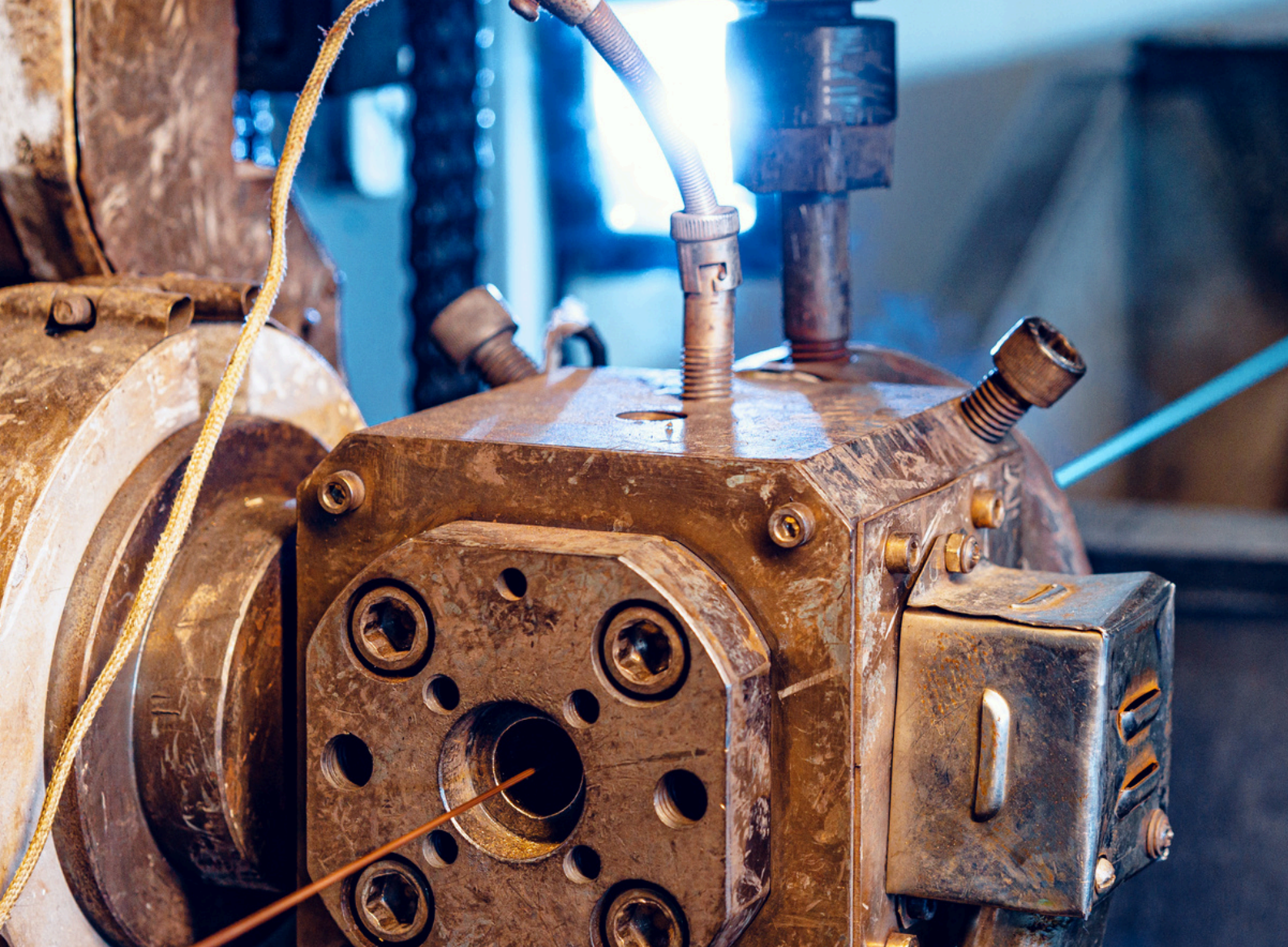
Teamwork is at the core of everything we do. Just like our cables, our carefully selected workforce is bound together by strength of purpose.

We are committed to investing in the skills and wellbeing of our human capital, which ensures our electric cables are manufactured to the highest standards for our clients worldwide.

All Mardia Cables products meet the standards set by BIS (Indian Standard) and certifying bodies. We pride ourselves on high company standards and select the best raw materials, adopt rigorous quality control systems and employ the latest technology for all our products.

Teamwork centered on excellence is why Mardia Cables is one of India's leading cable manufacturers.





# GET IN TOUCH



At Mardia Cables, we believe that quality should never be compromised. We are committed to manufacturing and trading only the highest-quality wires and cables, using the latest technologies and materials to ensure our products meet the highest standards of safety and reliability.

## CONTACT US :-

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Mettupalayam, Pondicherry - 605009



### Web Address

[www.mardiacables.in](http://www.mardiacables.in)

# CLIENT



## OUR MAJOR CLIENTS

