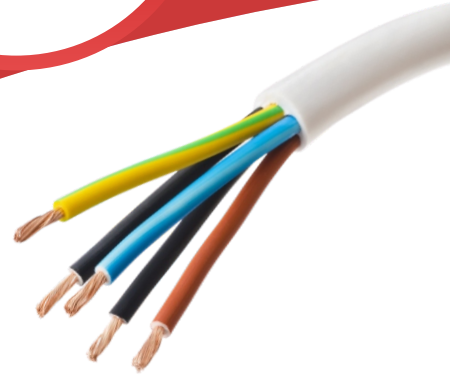
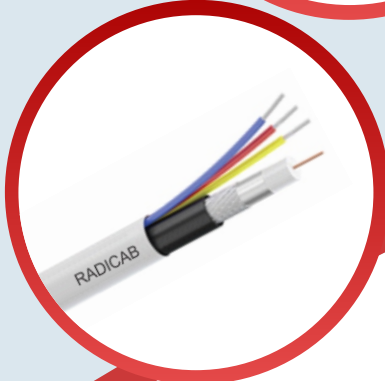
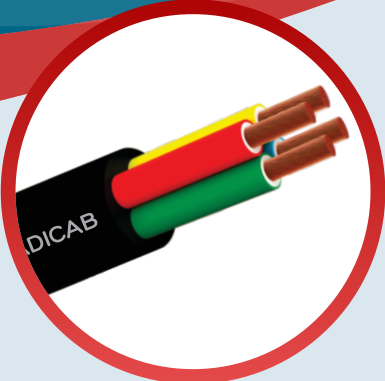
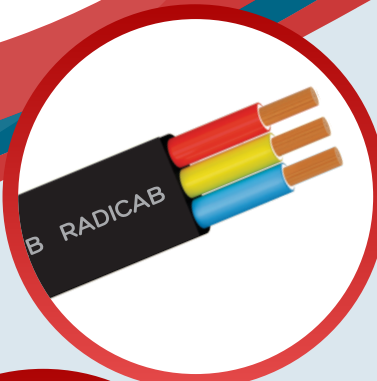


# **RADICAB™** wires & cables



## About Us

Founded in July 2019, RadiCab is a Fast Moving Electrical Goods (FMEG) ISO 9001:2015, ISO 14001:2015, ISO 45001:2018 and CE certified company. Our plants are certified and licensed as per IS:694 standards and the laboratory is focused on Industrial & Domestic Electrical Solutions. We manufacture low voltage cables and offer products such as house wires, panel wires, flexible multicore cables, twin flat cables and other electrical solutions.

Our products are manufactured at a modern state-of-the-art facility in Jaipur, India; the plant is equipped with fully automatic machinery to ensure high degree of quality and consistency. We also have a laboratory which is equipped with IS 694 testing equipments and it is managed by our finest quality control team. Produced from 99.9% purest electrolytic copper, our wires & cables ensure long reliable performance leading to sustainable and efficient electricity consumption. The PVC used for insulation is compounded carefully to ensure extra protection against fire.

The strength of RadiCab is our team of highly experienced engineers and production staff who are committed to offer quality products to our customers by ensuring compliance to internationally set quality standards. Our dedicated team is constantly learning and evolving to ensure we follow best practices, efficient processes and most relevant technology.



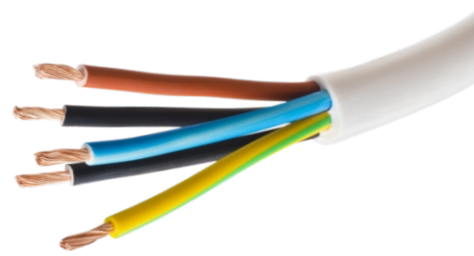
**Vision : To ensure every single place is equipped with safe, reliable and eco-friendly electrical solutions.**



**Mission : To achieve our vision through increased global footprint, innovation, technological expertise and everlasting relationships with our customers, partners and employees.**



# WHY?



## • Purity:

Our Copper has more than 102° conductivity which means reduction in electricity bills.

## • Uniformity:

We have the most advanced in house drawing, stranding & bunching facilities to give a uniform lay & smooth finish of the conductor.

## • Flexibility:

Uniform annealing of copper provides more flexibility.

## • Center Perfect:

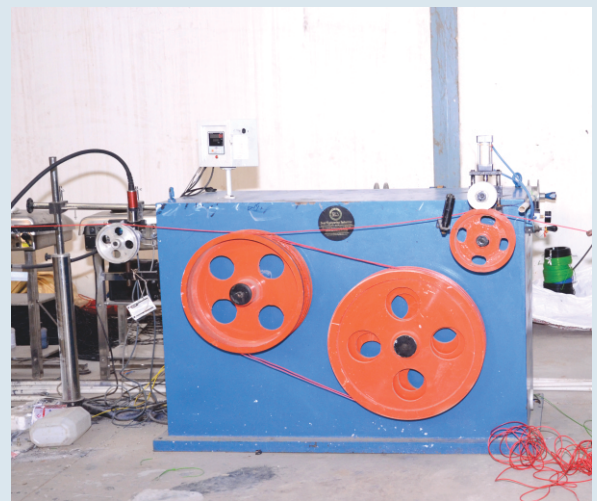
Automatic self-centering head coupled with on-line diameter controller maintains conductor perfectly in the center of PVC insulation which prevent short circuits occurrence due to uneven thickness.

## • Consistency:

100% wires pass through spark tester to withstand high voltages stresses of 90000 Volts to give consistent quality, free of foreign particles through out.

## • Current Carrying Capacity:

Due to low conductor resistance, current carrying capacity is more.





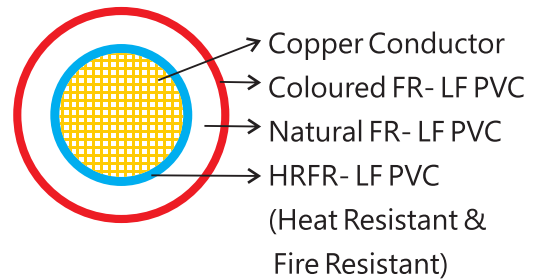


- 99.99% Pure Electrolytic Grade Copper
- Flame Retardant PVC Insulated to prevent fire
- Suitable for houses, buildings, projects etc.
- Environment Friendly
- Available Length - 90 meter / 180 meter
- Available Range - 0.5 sq. mm. to 240 sq. mm.

## Flame Retardant Lead Free (FR - LF) PVC Insulated Industrial Cable

Each Radicab wire is manufactured using 99.99% pure electrolytic grade, bright annealed bare copper with more than 100% conductivity for conductor, tested by ATCC NABL accredited laboratories. The wire is insulated with a Flame Retardant lead free (FR - LF) PVC compound with a high oxygen and temperature index, specially formulated and manufactured in house. Every wire meet the requirements of IS 694:2010 with latest amendments with improved fire performance properties.

## Construction



**Conductor** - Plain Annealed Copper as per IS:8130

**Insulation** - FR-LR Insulation (Primary-Natural FR-LR PVC/Colour Coated FR-LR PVC)

**Available Colour** - Red / Yellow / Blue / Black / Green / Grey / White

## TECHNICAL DATA

Multistrand FR -LR ( Flame Retardant Lead Free) Single Core, Unsheathed cables in voltage grade 1100 V. Conforming IS : 694-2010

Nominal Area of Conductor	Number/ Nominal Die of Wire	Nominal Thickness of Insulation	Approx Overall Diameter	Maximum Conductor Resistance at 20°C	Current Rating 2 Cables Single Phase AC/DC	Packing
sq. mm	No. / mm	mm	mm	Ohms/Km.	Amps.	Coil
0.75	24/0.20	0.60	2.30	26.00	7	20
1.00	30/0.30	0.60	2.50	19.50	12	20
1.50	32/0.25	0.60	2.70	13.30	16	16
2.50	50/0.25	0.70	3.30	7.98	22	12
4.00	56/0.30	0.80	4.00	4.95	29	8
6.00	84/0.30	0.80	4.50	3.30	37	4
10.00	140/0.30	1.00	6.50	1.91	71	1

FR PROPERTIES		
Test	Test Method Specified	Specification Values
Critical Oxygen Index	IS:10810 Part 58	Oxygen Index Minimum 29%
Temperature Index	IS:10810 Part 64	Minimum Temperature Index 250°C
Also meet requirement of Flammability Test as per IS 10810 Part 53		



## Multicore Flexible Round Cables

Working Voltage - 1100 V

Size - 0.5 Sq. mm to 50.0 Sq. mm

Temp Range -15° C to 70° C

Conductor - Bright Annealed 99.99% Pure Bare Copper Conductor

Insulation - Cores are insulated with a special grade PVC Compound

Sheath - Cores are covered with tough outer black PVC sheath

Packing - 90 MTR, 100 MTR, Coils, Higher Sizes on drum

Cores - 2,3,4,.....&16 Cores

Specification - IS 694-2010



## Unique Features

- Tough Outer PVC Sheath, protects the cores from oil, grease and chemical
- These cables can be used in damp typical industrial environment conditions.
- Extra flexible copper conductor conforming to conductor class 5.
- 100% Bunching.
- Computerized meter printing ensure complete length.

## Construction

2 Core



Copper Conductor

3 Core



Colour PVC

4 Core



Black PVC

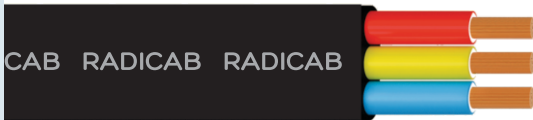
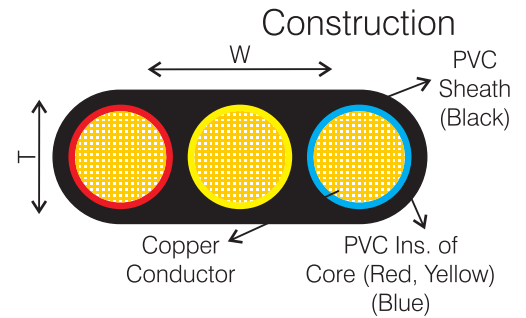
## TECHNICAL DATA - Multicore Round Cable, 1100 Volt Grade Conforming to IS : 694-2010

Conductor Area Sq. mm	No. & Size of Each Strand mm	Max. DC Resistance at 20°C ohm/km	Insulation Thickness Nominal mm	Sheath Thickness Nominal				Overall Diameter Approx				#Current Rating Amp.
				2 Core mm	3 Core mm	4 Core mm	5 Core mm	2 Core mm	3 Core mm	4 Core mm	5 Core mm	
0.5	16/0.20	39.0	0.6	0.9	0.9	0.9	0.9	6.2	6.6	7.0	7.5	5
0.75	24/0.20	26.0	0.6	0.9	0.9	0.9	0.9	6.6	6.90	7.4	8.0	8
1	32/0.20	19.5	0.6	0.9	0.9	0.9	1.0	7.1	7.3	8.0	8.9	13
1.5	30/0.25	13.3	0.6	0.9	0.9	1.0	1.0	7.5	8.0	9.0	9.7	17
2.5	50/0.25	7.98	0.7	1.0	1.0	1.0	1.0	9.0	9.4	10.4	11.3	24
4	56/0.30	4.95	0.8	1.0	1.0	1.0	1.1	10.0	10.6	11.8	13.0	30
6	84/0.30	3.30	0.80	1.1	1.2	1.2		11.2	12.3	13.6		38
10	80/0.40	1.91	1.00	1.3	1.4	1.4		14.8	16.0	17.6		52



## Submersible Cables

Radicab 3 core Submersible Cables are manufactured keeping in mind the severe and difficult conditions in which they are required to perform. The individual conductors are made from bright electrolytic grade copper. The wires are drawn, annealed and bunched properly to ensure flexibility and uniform resistance. Each of the three copper conductors is insulated with a special PVC compound formulated and manufactured in-house. The cores are laid up in flat parallel / round PVC compound formulated and manufactured in-house. The cores are laid up in flat parallel position. The outer sheath of the cable is made from a special grade of abrasant PVC compound impervious to water, grease, oil, etc.



### TECHNICAL DATA - THREE CORE FLAT SUBMERSIBLE CABLE

Conductor		Conductor		Sheath Overall Dimensions			Resistance @ 20°C (Max) Ohm/Km	Current Carrying Capacity @ Amps
Area (Nom.) Sq. mm	No./Size of wire mm	Thickness (Nom.) mm	Core. dia (Approx) mm	Thickness (Nom.) mm	Width 'W' mm	Thickness 'T' mm		
1.5	22/0.3*	0.6	3.25	0.9	12.0	5.6	12.10	14
2.5	36/0.3*	0.7	3.90	1.0	13.0	6.2	7.41	18
4.0	56/0.3*	0.8	4.65	1.0	15.3	7.1	4.95	26
6.0	84/0.3*	0.8	5.30	1.1	19.2	8.4	3.30	31
10.0	140/0.3**	1.0	6.60	1.4	24.2	10.4	1.91	42

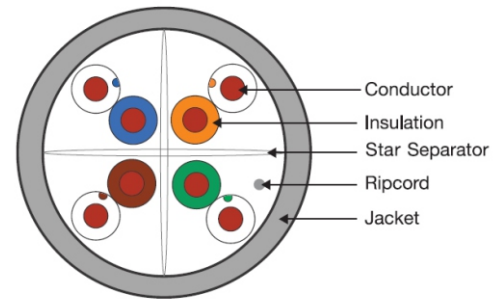
\* As per conductor class 2 of IS 8130

\*\* As per conductor class 5 of IS 8130



## LAN Cables - CAT 6 UTP (with star separator)

Radicab Category 6 UTP cable, commonly referred to as Cat 6 UTP, is a standardized twisted pair cable for Gigabit Ethernet and other network physical layers that is backward compatible with CAT5/5e. Cat 6 features more stringent specifications for crosstalk and system noise. The cable standard provides performance of up to 250 MHz.



### Features

- Exceptional material properties and cable design
- High ACR values-providing low BER (Bit Error-Rate)
- Exceeds cat 6 Best transmission performance.
- Extremely high pair-balance-providing excellent EMC (Electromagnetic compatibility)
- Maximum noise immunity.
- UL-94V0 rated Plastics.
- ETL Verified
- Longer Cable segment Length.
- High speed data access
- Total end-to-end horizontal cabling solution
- Unshielded Twisted Cable
- Cable supports frequencies up to 250 MHz.
- Cable supports data transfer speeds up to 1000Mbps - Gigabit

**Available in 100 Mtr & 305Mtr Box packaging**

### ELECTRICAL CHARACTERISTICS

Characteristic Impedance	100±6 Ω@ 1-250MHz
DC Resistance	72Ω/km (max)
Voltage Rating	72 Vdc max
Dielectric Strength	500V/1minute min MHz
Insulation Resistance	500MΩ/km (min)@500Vdc
Nominal Velocity of Propagation (%)	69%
Conductor Resistance	<7.20/100m
Mutual Capacitance	5.6nF/100m nominal
Resistance Unbalance	5% Max
Capacitance Unbalance	330pF/100m
Delay Skew	< 45nS
Bending Radius	< 4 X Cable Diameter at -20°C ± 1°C
Operating Voltage	72V
Dielectric Strength	1.0KV dc or 0.75KV ac for 1min.

### MECHANICAL PROPERTIES

Conductor Metal	23 AWG Solid Bare Copper
Insulation	High Density Polyethylene
Pairs	2 Insulated conductors twisted together
Sheath	PVC
Cable Diameter	6 ± 0.3mm
Printing	Each meter printed with sequential Length Counter

### Cross Section view





## CCTV Cables

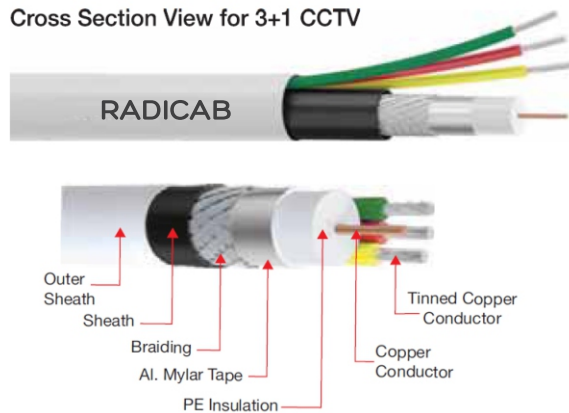
Radicab CCTV cables are designed to optimize the quality of video signals, which are transmitted through the Coaxial cable in the CCTV.

The Coaxial cable consists of solid annealed bare copper conductor of electrolytic grade which is insulated with foamed dielectric, aluminium foil taped, jelly flooded, braided with Al. Alloy and then jacketed with UV PVC.

Topmost quality of construction of coaxial cable in Radicab CCTV cables ensures distortion free video signals and thus a clear picture over complete low frequency bandwidth of transmission in such applications. The impedance of coaxial cable is 75, which matches the CCTV equipment. This matching ensures adequate signal strength, no reflection and best picture quality.

### Available in 90 Mtr, 305 Mtr Packaging

Cross Section View for 3+1 CCTV



#### CO-AXIAL CABLE

1. <b>Conductor</b>	
Material	Annealed Bare Copper
No. of Wire/ Dia. of wire	0.80 ± 0.002
2. <b>Insulation</b>	
Material	Gas Injected Polyethylene
Thickness of Insulation (Nom.)	1.30 mm
Dia. of Insulation	3.50 ± 0.20
3. <b>Overall Shielded (Braided)</b>	
Material	Al. Foil - 100%
Material	Alum. Alloy
Coverage	55%
4. Flooding Compound	Petroleum Jelly

#### OUTER SHEATH

<b>Material</b>	PVC
Dia. of Sheath	5.50 mm ± 0.20 mm
1. <b>Conductor</b>	
Material	Annealed Tinned Copper
No. of Wire/ Dia of wire	14/0.13 ± 0.002
2. <b>Insulation</b>	
Material	PVC - Type -A
Thickness of Insulation (Nom.)	0.3
Dia of Insulation	1.40 mm

#### FINAL CABLE

1. <b>Barrier Tape</b>	
Thickness of Tape	25 Micron
Coverage	100%
2. <b>Outer Sheath</b>	
Material	PVC - ST-1
Thickness of Sheath (Nom.)	0.90 mm

## Co-Axial TV Cables



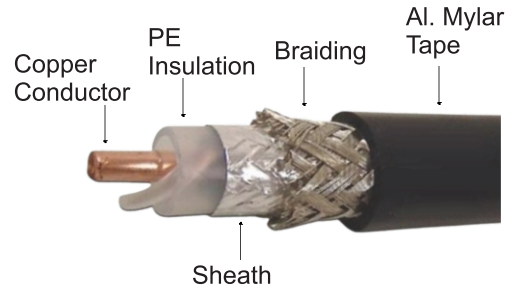
### Application

Used in cable TV operations, Computer net-working etc.

### Construction

Solid annealed bare copper conductor polythelene insulated shielded with polyester backed aluminium tape and additional shielding with fine aluminium braid protected with polyester tape wrapping and sheathed with PVC.

**Available in 90 Mtr, 305 Mtr Packaging**



### TECHNICAL DATA - CO-AXIAL TV CABLES

S. No.	Type	
1	Size	RG-6
2	Inner Conductor	Solid Copper
3	Insulation	Gas Injected Physical Foamed Polyethylene
4	Outer Conductor	Bonded polyaluminium Tape, Braided with Aluminium Alloy Wire
5	Outer Jacket	UV Resistant Black PVC Jacket
6	Marking	Progressive Sequential Length Marking on Every Metre

### ELECTRICAL PARAMETERS

S. No.		RG-6 Foam
1	Inner ConductorMax. Resistance (Ohm/Km) @ 20°C	2.13
2	Inner Conductor Loop Resistance (Ohm/Km) @ 20°C	2.78
3	Nom. Capacitance (pF/mtr.)	53
4	Nom. Impedance (phm)	75
5	Nom. Velocity Ratio (%)	85
6	Nom. Attenuation @ 25° (dB/100m)	
	@55 Mhz	1.95
	@83 Mhz	6.20
	@211 Mhz	9.50
	@300 Mhz	11.50
	@500 Mhz	14.95
7	Structural Return Loss (db/100m)	
	From 30 to 300 Mhz	>28
	From 300 to 550 Mhz	>22
	Bending Radius, min (mm)	65

## Radicab PVC Casings and Capping

The casings and capping products do not have burrs on both surfaces and can stand against evenly distributed load.

These casings have got excellent rigidity and resistance to flame propagation.

### Features

- Economical as compared to steel conduits and casing
- Highly insulated non-conductor prevents short circuit hazards
- Corrosion free nature
- Maximum internal wiring space
- Odourless and impurity less.
- Able to retard the spread of fire.

**The casing and capping are available in size:**

**20 x 12 , 25 x 16, 30 x 15**



Durable & Impact



Easy and Fast Installation



Good Quality



Corrosion Free



## VENTILATION FAN AMAZE AIR

- Compact & stylish design
- High speed
- Best quality
- Best performance
- International Design
- Resin body and blades for easy maintenance
- Shutter to prevent dust from outside
- Smooth and silent operation
- Sleek and trendy design
- Ideal for Bathrooms, Office, Kitchen

Warranty : 1Year

Sweep : 150mm , 200mm, 250mm



Size	150 mm	200 mm	250 mm
MRP(Rs)	785	825	905



## Fresh Air Fan HIGH SPEED

- Compact & stylish design
- High speed
- Best quality
- Best performance
- Specially designed powerful motor delivers high air thrust
- Metal blades and powder coated finish for long life
- Removing all the bad smoke and odour and delivering fresh air
- Ideal for Kitchen, Big hall

Warranty : 1Year

Sweep: 225mm , 300 mm

Size	225 mm	300 mm
MRP(Rs)	905	1070



# PRICE LIST



w.e.f 1st April, 2020

<b>Radicab Single Core FR-LF PVC Insulated Industrial Grade Copper Conductor Flexible Cables (Multistrand), 1100 Volts Confirming IS:694</b>	90 Mtrs
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Nominal Size (sq.mm)	Product Code	MRP Rs. (Per Coil)	Std. Pkg
(with Electrician Coupon)			
0.75	RCFR-075	905.00	20.00
1.00	RCFR-100	1115.00	20.00
1.50	RCFR-150	1660.00	16.00
2.50	RCFR-250	2630.00	12.00
4.00	RCFR-400	4045.00	8.00
6.00	RCFR-600	5950.00	5.00
10.00	RCFR-1000	10100.00	5.00
16.00	RCFR-1600	15150.00	1.00

<b>Radicab Multicore Round Flexible PVC Insulated &amp; PVC Round Sheathed, Copper Conductor Industrial Cable, 1100 Volts Confirming IS:694</b>	90 Mtrs
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Nominal Size (sq.mm)	MRP Rs. (Per Coil)		
	2 core	3 core	4 core
0.50	1570.00	2060.00	-
0.75	2110.00	2810.00	-
1.00	2625.00	3600.00	-
1.50	3680.00	5140.00	6650.00
2.50	5875.00	8360.00	10950.00
4.00	9175.00	13025.00	17400.00

<b>Radicab PVC Insulated Unsheathed, Sheathed, Flat Twin Industrial Grade Aluminium Cables, 1100 Volts Confirming IS:694</b>
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Nominal Area of Conductor	Product Code	MRP Rs. (Per Coil)	
		90 Mtrs	450 Mtrs
2.50	RCAC-252	1130.00	5650.00
4.00	RCAC-042	1510.00	7550.00
6.00	RCAC-062	2225.00	11125.00
10.00	RCAC-102	3545.00	17725.00

<b>Radicab Unarmoured Multicore Round PVC Insulated &amp; PVC Round Sheathed Industrial Grade Aluminium Cables, 1100 Volts</b>
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Description	Product Code	MRP Rs. (Per Coil)
(500 meter Drum)		
6 x 2 core	RCAA-062	65.00
10 x 2 core	RCAA-102	83.00
10 x 4 core	RCAA-104	110.00

## NETWORKING CABLES

Description	Product Code	Length	MRP Rs. (Per Coil)
CAT6 UTP CABLE	RC-CAT6-305	305 mtrs	8997.50
CAT6 UTP CABLE	RC-CAT6-100	100 mtrs	2950.00
COAXIAL RG-6	RC-RG6-90	90 mtrs	2630.00
CCTV CABLE 3+1	RC-CCTV-90	90 mtrs	4045.00
CCTV CABLE 3+1	RC-CCTV-180	180 mtrs	5950.00

<b>Radicab Flat Three Core PVC Insulated and PVC Sheathed Industrial Cables for Submersible Pump Motors, 1100 Volts Confirming IS:694</b>
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Nominal Area of Conductor	Product Code	MRP Rs. (Per Meter)
(500 meter Drum)		
2.50	RCS-253	103.50
4.00	RCS-043	153.00
6.00	RCS-062	224.00
10.00	RCS-1002	445.00

<b>Radicab Unarmoured Multicore Round PVC Insulated &amp; PVC Round Sheathed Industrial Grade Aluminium Cables, 1100 Volts Confirming IS:694</b>
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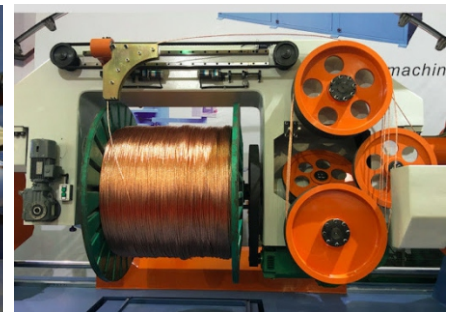
Description	Product Code	MRP Rs. (Per Coil)
(500 meter Drum)		
10 x 3 core	RCUA-103	60.00
10 x 4 core	RCUA-104	75.00

## Radicab Casing and Caping (Trunking)

Description	Product Code	MRP Rs. (Per Coil)
25 x 16 - 2 mtr / 6.5 ft	RCC-2516	60.00
30 x 15 - 2 mtr / 6.5 ft	RCC-3015	75.00

### Our Other Product Range

- Twin Flat Aluminium Cables
- Unarmoured Aluminium Cables
- Armoured Aluminium Cables
- Cooler Pumps



### Our Other Brand



SCAN this QR-code from your smart phone to know more.



एक कदम स्वच्छता की ओर



MADE IN INDIA

### RADICAB CABLES AND LIGHTING INDUSTRIES PVT. LTD.

Plot No.B1, Silver Soil Industrial Park, Anaptura, Chimanpura, Sikar Road, Dist. Jaipur-303712 (Raj.)

Website : [www.radicab.com](http://www.radicab.com)

E-Mail : [customercare@radicab.com](mailto:customercare@radicab.com)

Customer care : +91 6367983551



IS : 694

