



#### **Brief Introduction:**

AMBICA CABLES is one of the fastest growing Electrical Company in India since last three decades. We are leading manufacturer of wide range of Electrical products for Domestic, Agricultural and Industrial use. The company has established its position as a front runner due to its reliable and quality products, reflected in approval of customers on stringent technical and safety requirements. Our products are manufactured by using latest technology in well-equipped plant, R & D facilities and experienced work force, Our belief lies in growing stronger and better to give best quality products to our customers.

#### **Quality Policy:**

The firm belief of the company in 'Total Quality Assurance` in all RADILITE's products is based on customer needs and expectation. Various steps and procedures are adopted to ensure consistent quality and to meet specific requirements which leads to total customer satisfaction. Our objectives are , 1. To maintain a quality system that complies with Bureau of Indian Standards specifications IS : 694 . 2. To maintain quality management system complies with ISO – 9001 : 2015 . 3. To employ vendors who share a commitment to quality.

#### **Mission:**

Building customer confidence by providing a wide range of quality products. Keeping the pace with new innovations and development acting with complete integrity, by carrying out to the highest standards.

#### Vision:

To design a competitive intelligence system to ascertain our position a market leader. Which in turn helps into balance a customer versus competitor orientation.



#### **Smart Choise Begins Here !!**





## **Manufacturing process**

1.	Wire
dra	wing

Aluminium or Copper rods are to be drawn to required size.

2. Annealing

Drawn copper wires are annealed.

3. Stranding

Required conductor size to be manufactured with specific design.

4. Insulation

Conductor to be insulated with PVC insulation .

5. Laying up

Cores are layed up as per required size (For multicore flexible cables).

6. Sheathing

Layed out cores are then sheathed for multicore cables or submersible cables.

7. Testing

Manufactured product is then tested in Lab with proper equipments.

8. Packing

Lab Test pass lot is then sent for packing in coils or drums .



### Advantage of RADILITE cables:

In order to be identified, RADILITE Cables have their name embossed/printed/ indented on outer sheath at regular intervals on the outer sheath of RADILITE Cables, Voltage Grade, cable size, trade name & year of manufacture are embossed, as desired. Cables are sequentially marked for length at every meter throughout its length.

### Final testing:

Each RADILITE Cable is tested for all applicable Routine Tests. From a lot of Cable one cable of each type is tested for Type tests, as per relevant specifications. Testing of RADILITE Cables are carried out as per BIS Work Standards for testing, besides applicable standards.

### Advantages of PVC cables:

- 1. A non-hygroscopic insulation almost unaffected by moisture.
- 2. Non-migration of compound permitting vertical installation.
- 3. Complete protection against most forms of electrolytic and chemical corrosion.
- 4. A tough and resilient sheath with excellent fire resisting qualities.
- 5. Good ageing characterstics.

### <u>Certifications: -</u>







# Range of RADILITE PVC cables:

- 1. Multi-strand single core house wires.
- 2. Multicore flexible round cables.
- 3. Submersible pump three core flat cables.
- 4. Aluminium Twin flat cables.
- 5. Single core aluminium cables
- 6. Two core flat flexible wires.
- 7. Twin twisted flexible wires.
- 8. Co-axial cables/ dish wire.
- 9. CCTV Camera cable.



# RADILITE multi-strand single core house wires

Owning to our consistent efforts for quality and providing the best, we have developed exhaustive range of domestic house wires and cables suitable to Indian homes and varied conditions. Manufactured with best quality of conductor (electrolytic grade copper) and finest grade of indigenously developed PVC compound RADILITE wires and cables give maximum safety at no extra cost.

#### **Construction:**

Conductor - Bare annealed electrolytic grade copper as per IS:694/ BS 6360.

Insulation - Primary: Virgin grade natural PVC (Type A, C and D).

Secondary: Skin color PVC of type A, C and D.

Standard- IS:694 / 2010

Sizes- 1.0 sq.mm. to 25.0 sq.mm.

Cable Code: Y

\*Packing is available in 90 mtr (standard packing), 45 mtr. & 180 mtr. coils.

Colors available: Red, Yellow, Blue, Black and Green.

### Salient features:

- Electrolytic grade copper having pure and maximum conductivity to ensure maximum safety.
- Bunching of copper in uniform lay and dia., that ensures easy stripping and minimum losses.
- Indigenously developed PVC compound formulated from finest ingredients giving best heat resistant properties.
- High tensile strength of PVC for good load capacity.
- PVC formulated to ensure NO SPREAD OF FIRE.
- Highly insulation resistance and volume resistivity ensuring no leakage of current.
- Highly durable cables with oil resistance.
- Double insulation with primary insulation of Virgin grade PVC coated with thin skin colored PVC.

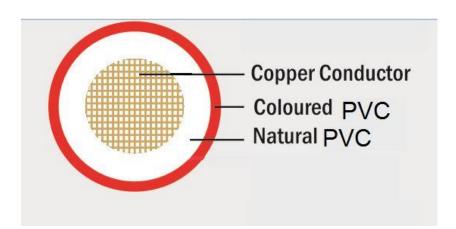
### **Application:**

PVC insulated multi- strand house wires are used for giving electrical connections to domestic wire fittings, machineries and electrical appliance either in industrial or domestic use.



## <u>Cross – sectional view of RADILITE multi-strand house wires:</u>





## **Technical data sheet for RADILITE multi- strand house wires:**

Conductor area (sq.mm.)	No. of strands/size (mm.)	Max.DC resistance at 20°c (ohm/km)	Insulation thickness nominal (mm.)	Cable dia. (mm.)	Current carrying capacity (Amps.)
1.0	14/0.3	19.50	0.70	2.60	13
1.5	22/0.3	13.30	0.70	2.90	17
2.5	36/0.3	7.98	0.80	3.60	24
4.0	56/0.3	4.95	0.80	4.10	30
6.0	84/0.3	3.30	1.00	4.80	<i>38</i>
10.0	140/0.3	1.91	1.00	6.10	52
16.0	126/0.4	1.21	1.20	7.10	70
25.0	196/0.4	0.78	1.20	<i>8.70</i>	88



# RADILITE multi-core flexible round cables

Owning to our consistent efforts for quality and providing the best, we have developed exhaustive range of industrial multi-core flexible round cables suitable to various power machineries. Manufactured with best quality of conductor (electrolytic grade copper) and finest grade of indigenously developed PVC compound RADILITE wires and cables give maximum safety at no extra cost.

### **Construction:**

Conductor - Bare annealed copper as per IS:694/ BS 6360.

Cores Insulation: Virgin grade natural PVC (type A, C and D).

**Sheath insulation:** Skin color PVC of type ST1 or ST3.

**Standard-** IS:694 / 2010

Sizes- 0.75 sq.mm. to 10.0 sq.mm. (2 core, 3 core and 4 core).

Cable Code: YY

Standard Packing available in 90 mtr coils.

**Colors**: Black or white.

### Salient features:

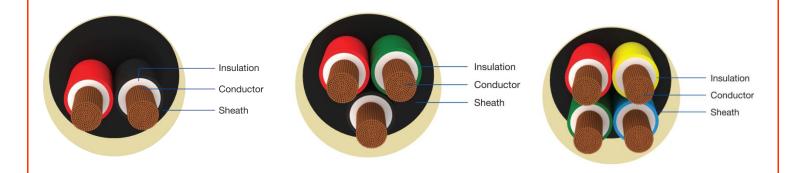
- Electrolytic grade copper having pure and maximum conductivity to ensure maximum safety.
- indigenously developed PVC compound formulated from finest ingredients giving best heat resistant properties.
- High tensile strength of PVC for good load capacity.
- PVC formulated to ensure NO SPREAD OF FIRE.
- Highly insulation resistance and volume resistivity ensuring no leakage of current.
- Highly durable cables with oil resistance.
- Cores insulation formulated for high current capacity for customer safety.
- Sheath insulation designed for weather resistant properties ensuring best for outdoor usage.

### **Application:**

PVC insulated multi- core round copper cables are used for giving electrical connections to motors, other machineries and electrical appliance either in industrial or domestic use.



## <u>Cross – sectional view of RADILITE multi-core round cables:</u>



2 CORE 3 CORE 4 CORE

## **Technical data sheet for RADILITE multi-core round flexible cables:**

Conducto r area (sq.mm.)	No. of strands/ size	Max. DC resistanc e at 20°c	Insulatio n thickness	Sheat nomi (mm.		(ness	Overa dia. A (mm.			Current carrying capacity
	(mm.)	(ohm/km	nominal	2 core	3	4	2	3	4	(Amps.)
			(mm.)	core	core	core	core	core	core	
0.75	10/0.3	26.0	0.60	0.9	0.9	0.9	6.6	6.9	7.4	8
1.0	14/0.3	19.5	0.70	0.9	0.9	0.9	7.1	7.3	8.0	13
1.5	22/0.3	13.3	0.80	0.9	0.9	1.0	7.5	8.0	9.0	17
2.5	36/0.3	7.98	0.80	1.0	1.0	1.0	9.0	9.4	10.4	24
4.0	56/0.3	4.95	0.80	1.0	1.0	1.0	10.0	10.6	11.8	30
6.0	84/0.3	3.30	1.00	1.1	1.2	1.2	11.2	12.3	13.6	38
10.0	140/0.3	1.91	1.20	1.3	1.4	1.4	14.8	16.0	17.6	52



# RADILITE three core flat submersible cables

RADILITE is one of the most unique & versatile cable product. An example of our fine workmanship is our flexible cables for submersible pump motors. Widely accepted and acclaimed, it enjoys reputation of being the best in industry.

#### **Construction:**

Conductor - Bare annealed copper as per IS:694/ BS 6360.

**Cores Insulation:** Virgin grade natural PVC (type A,C and D).

**Sheath insulation:** Skin colour PVC of type ST1 or ST3.

Standard- IS:694 / 2010

Sizes- 1.50 sq.mm. to 25.0 sq.mm.

Cable code: YY

**Colours:** Black or Blue.

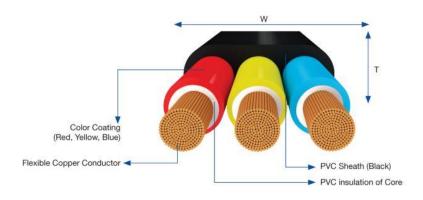
Packing available in 500 mtr drums and 300 mtr coils.

### **Salient features:**

- Electrolytic grade copper having pure and maximum conductivity to ensure maximum safety.
- Bunching of copper in uniform lay and dia., that ensures easy stripping and minimum losses
- Cores insulation formulated for high current capacity for customer safety.
- Indigenously developed PVC compound formulated from finest ingredients designed for higher thermal resistance.
- Outer sheath of submersible cable is designed to fit closely, maintain flexibility, resist water absorption, abrasions, oil, grease and other environmental effects.
- indigenously developed PVC compound formulated from finest ingredients giving best heat resistant properties.
- High tensile strength of PVC for good load capacity.
- PVC formulated to ensure NO SPREAD OF FIRE.
- Highly insulation resistance and volume resistivity ensuring no leakage of current.
- Highly durable cables with oil resistance.



## <u>Cross – sectional view of RADILITE three core flat SUBMERSIBLE cables</u>



## <u>Technical data sheet for RADILITE three core flat submersible cables:</u>

Conductor area (sq.mm.)	No. of strands/size (mm.)	Insulation thickness nominal (mm.)	Sheath thickness nominal (mm.)	Height 'H' max. (mm.)	Width 'W' max. (mm.)	Max. DC resistance at 20°c (ohm/km)	Current carrying capacity (Amps.)
1.5	22/0.3	0.7	1.0	4.8	10.8	13.30	17
2.5	36/0.3	0.8	1.0	5.7	12.9	7.98	24
4.0	56/0.3	0.8	1.2	6.2	14.5	4.95	30
6.0	84/0.3	1.0	1.2	7.2	16.4	3.30	38
10.0	140/0.3	1.1	1.5	9.2	21.5	1.91	52
16.0	126/0.4	1.2	2.0	10.3	24.7	1.21	70
25.0	196/0.4	1.2	2.0	13.1	30.9	0.78	88



#### **Smart Choise Begins Here !!**

## **Application:**

PVC insulated annealed multistrand bare copper conductors, three core flat PVC sheath cables are used for giving electrical connections to submersible pump motors.

### H.P. vs Current (full load current for 3 phase, 415 - 425 volts):

Motor power (H.P.)	Current (Amps.)
5.0	7.5
7.5	11.0
10.5	14.9
12.5	18.9
15.5	22.5
17.5	25.2
20.0	28.4
25.0	35.6

Motor power	Current
(H.P.)	(Amps.)
30.0	42.3
35.0	50.4
40.0	58.1
45.0	62.1
50.0	67.5
55.0	73.8
60.0	81.0
65.0	87.3



#### **Smart Choise Begins Here!!**

## **RADILITE twin flat aluminium cables**

RADILITE is one of the most unique & versatile cable product. An example of our fine workmanship is our flexible cables for electrical connections. Widely accepted and acclaimed, it enjoys reputation of being the best in industry.

### **Construction:**

Conductor - Aluminium are stranded round or compact Cl. 2 as per IS 8130

Cores Insulation: Virgin grade natural PVC (type A,C and D).

**Sheath insulation:** Skin colour PVC of type ST1 or ST3.

**Standard-** IS:694 / 2010

Sizes- 2.50 sq.mm. to 25.0 sq.mm.

Cable code: AYY

Colours: Black

Packing available in 90 mtr and 450 mtr coils.

## Salient features:

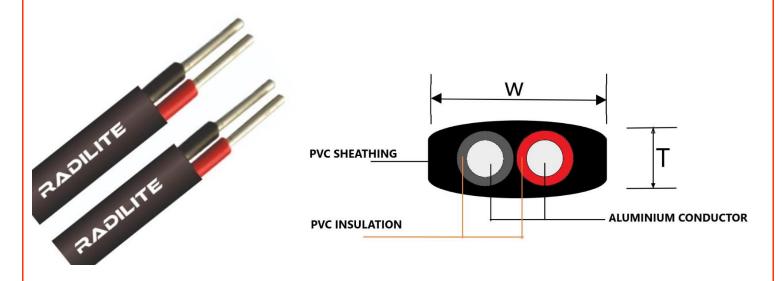
- Bunching of aluminum in uniform lay and dia., that ensures easy stripping and minimum losses.
- Cores insulation formulated for high current capacity for customer safety.
- Indigenously developed PVC compound formulated from finest ingredients designed for higher thermal resistance.
- Outer sheath of submersible cable is designed to fit closely, maintain flexibility, resist water absorption, abrasions, oil, grease and other environmental effects.
- indigenously developed PVC compound formulated from finest ingredients giving best heat resistant properties.
- High tensile strength of PVC for good load capacity.
- PVC formulated to ensure NO SPREAD OF FIRE.
- Highly insulation resistance and volume resistivity ensuring no leakage of current.
- Highly durable cables with oil resistance.

#### **Application:**

PVC insulated aluminium twin flat cables are mainly used in agriculture and for electrical connections from main High voltage line.



## <u>Cross – sectional view of RADILITE TWO CORE FLAT ALUMINIUM CABLES:</u>



### **Technical data sheet for RADILITE TWO CORE FLAT ALUMINIUM CABLES:**

Conductor area (sq.mm.)	No. of strands/size (mm.)	Insulation thickness nominal (mm.)	Sheath thickness nominal (mm.)	Height 'H' max. (mm.)	Width 'W' max. (mm.)	Max. DC resistance at 20°c (ohm/km)	Current carrying capacity (Amps.)
2.5 sq.mm.	7/0.7	0.8	1.0	6.60	10.50	12.10	18
4.0 sq.mm.	7/0.85	0.8	1.0	7.40	12.00	7.41	23
6.0 sq.mm.	7/1.04	1.0	1.5	8.00	13.00	4.61	30
10.0 sq.mm.	7/1.35	1.20	1.5	9.60	16.00	3.08	40
16.0 sq.mm.	7/1.70	1.20	2.0	10.50	19.50	1.91	55
25.0 sq.mm.	7/2.13	1.50	2.0	13.50	24.50	1.20	70



# RADILITE single core aluminium cables

RADILITE is one of the most unique & versatile cable product. An example of our fine workmanship is our flexible cables for electrical connections. Widely accepted and acclaimed, it enjoys reputation of being the best in industry.

### **Construction:**

Conductor - Aluminium are stranded round or compact Cl. 2 as per IS 8130

**Insulation**: Virgin grade natural PVC (type A, C and D).

**Standard- IS:694 / 2010** 

<u>Sizes-</u> 2.50 sq.mm. to 25.0 sq.mm.

Cable code: AY

Colors: Black

Packing available in 90 mtr and 450 mtr coils.

### Salient features:

- Bunching of aluminum in uniform lay and dia., that ensures easy stripping and minimum losses.
- Insulation formulated for high current capacity for customer safety.
- Indigenously developed PVC compound formulated from finest ingredients designed for higher thermal resistance.
- indigenously developed PVC compound formulated from finest ingredients giving best heat resistant properties.
- High tensile strength of PVC for good load capacity.
- PVC formulated to ensure NO SPREAD OF FIRE.
- Highly insulation resistance and volume resistivity ensuring no leakage of current.
- Highly durable cables with oil resistance.

### **Application:**

PVC insulated aluminium twin flat cables are mainly used in agriculture and for electrical connections from main High voltage line and many other electrical machines.



# <u>Cross – sectional view of RADILITE SINGLE CORE ALUMINIUM CABLES:</u>



## **Technical data sheet for RADILITE SINGLE CORE ALUMINIUM CABLES:**

Conductor area (sq.mm.)	No. of strands/size (mm.)	Max. DC resistance at 20°c (ohm/km)	Insulation thickness nominal (mm.)	Cable dia. (mm.)	Current carrying capacity (Amps.)
2.5 sq.mm.	7/0.7	12.10	0.8	3.80	18
4.0 sq.mm.	7/0.85	7.41	0.8	4.30	23
6.0 sq.mm.	7/1.04	4.61	1.0	5.00	30
10.0 sq.mm.	7/1.35	3.08	1.20	6.50	40
16.0 sq.mm.	7/1.70	1.91	1.20	7.50	55
25.0 sq.mm.	7/2.13	1.20	1.50	9.20	70



# RADILITE two core flat copper flexible wires

Owning to our consistent efforts for quality and providing the best, we have developed exhaustive range of domestic house wires and cables suitable to Indian home sand varied conditions. Manufactured with best quality of conductor (electrolytic grade copper) and finest grade of indigenously developed PVC compound RADILITE wires and cables give maximum safety at no extra cost.

### **Construction:**

Conductor - Bare annealed electrolytic grade copper as per IS:694/ BS 6360.

<u>Insulation - Primary: Virgin grade natural PVC (Type A, C and D).</u>

Sheath: White color PVC of type ST1 and ST3.

<u>Sizes-</u> 23/40

Cable Code: YY

Packing is available in 90 mtr.

Colors available: White.

### Salient features:

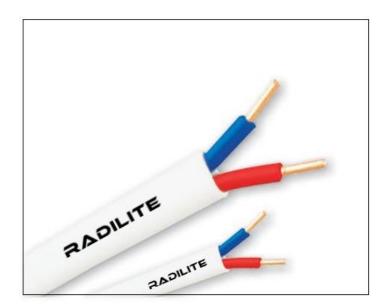
- Electrolytic grade copper having pure and maximum conductivity to ensure maximum safety.
- Bunching of copper in uniform lay and dia., that ensures easy stripping and minimum losses.
- Indigenously developed PVC compound formulated from finest ingredients giving best heat resistant properties.
- High tensile strength of PVC for good load capacity.
- PVC formulated to ensure NO SPREAD OF FIRE.
- Highly insulation resistance and volume resistivity ensuring no leakage of current.
- Highly durable cables with oil resistance.
- Double insulation with primary insulation of Virgin grade PVC coated with thin skin colored PVC.

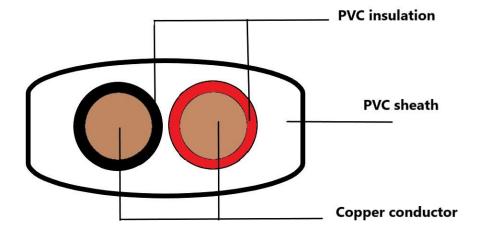
### **Application:**

Two core flat copper wires are widely used in light load connections and electrical appliances due to their flexibility and low-price range, they are useful in low electrical loads.



## <u>Cross – sectional view of RADILITE two core flat copper flexible wires</u>







## RADILITE two core twisted copper flexible wires

Owning to our consistent efforts for quality and providing the best, we have developed exhaustive range of domestic house wires and cables suitable to Indian home sand varied conditions. Manufactured with best quality of conductor (electrolytic grade copper) and finest grade of indigenously developed PVC compound RADILITE wires and cables give maximum safety at no extra cost.

### **Construction:**

Conductor - Bare annealed electrolytic grade copper as per IS:694/ BS 6360.

Insulation - Primary: Virgin grade natural PVC (Type A, C and D).

Sizes- 14/40, 23/40 and 40/40.

Packing is available in 90 mtr.

#### **Colors available:**

- Red + Black.
- Green + Yellow.
- Red + Yellow.

### Salient features:

- Electrolytic grade copper having pure and maximum conductivity to ensure maximum safety.
- Bunching of copper in uniform lay and dia., that ensures easy stripping and minimum losses.
- Indigenously developed PVC compound formulated from finest ingredients giving best heat resistant properties.
- High tensile strength of PVC for good load capacity.
- PVC formulated to ensure NO SPREAD OF FIRE.
- Highly insulation resistance and volume resistivity ensuring no leakage of current.
- Highly durable cables with oil resistance.
- Double insulation with primary insulation of Virgin grade PVC coated with thin skin colored PVC.

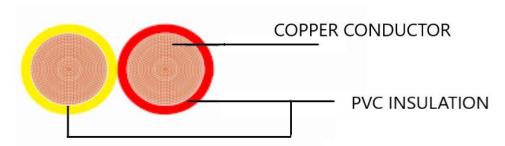
### **Application:**

Two core flat copper wires are widely used in light load connections and electrical appliances due to their flexibility and low-price range, they are useful in low electrical loads.



## <u>Cross – sectional view of RADILITE two core twisted copper flexible wires</u>







## **RADILITE Co-axial cables / dish wires**

RADILITE is known for being one of the largest wire and cable manufacturers in India. In its range of flexible cables, CATV co-axial cables are a bit hit due to their extensive usage in cable TV and computer networking operations. Moreover, with the quality assurance of RADILITE, the CATV co-axial cables are utilized for both internal & external electrification in residential and industrial sectors. Check online for 90-m CATV co-axial cables by RADILITE!

Known for its high quality standard, RADILITE CATV co-axial cables are safe, reliable, fire retardant lead & halogen free and non-toxic. Since computer, TV and cable are the most basic requirements for any household, flexible cables - like CATV co-axial cables - make long-lasting solution for networking and getting high quality picture anytime. Made with best quality material, RADILITE CATV co-axial cables in 90-m length ensure distortion free video signals.

### **Construction:**

Sizes- RG-59, RG-6 & RG-11.

<u>Type</u>: Electrolytic grade solid annealed Cu. conductor, JF, Aluminium Foiled and Aluminium wire Braided.

\*Packing is available in 90 meters and 305 meters.

Colors available: White or Black.

### **Application:**

Co-axial are mainly used as TV cables for Dish to Dish Antenna.

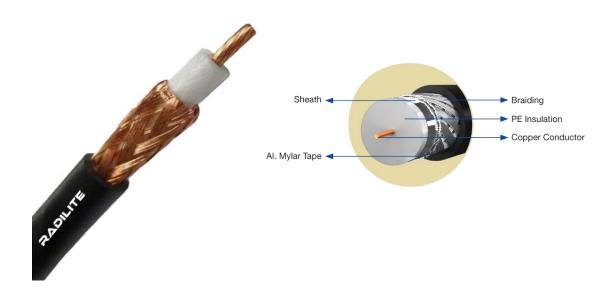


#### **Smart Choise Begins Here !!**

### <u>Cross – sectional view of RADILITE Co-axial cables/ Dish wires:</u>

#### **COAXIAL CABLE**







## **RADILITE CCTV camera cable**

Flexibility, safety, security and a high-quality performance Designed keeping the market standards in mind with all the parameters confining between the industrial ranges, the CCTV cables from RADILITE are the most advanced you'll ever find. This bunch of wires is an amalgamation of safety and reliability combines with longevity. These wires are also non-toxic, fire resistant and fire retardant. Made by India's leading wire manufacturers, they outperform any other product available in the market. RADILITE CCTV Cables can be used in multiple applications in different locations according to the need. High security places such as malls, offices, roads etc. can be equipped with these wires when installing the CCTV camera for a smooth and long operation. Some of the most heinous crimes are usually recorded on CCTVs and we understand their importance and thus, invest a lot of time in developing them with utmost precision. Pick out what you want from the range of CCTV cables on the RADILITE Shop online and get it delivered to your home.

### **Construction:**

**Screened Core for Video signal** 

**Conductor**: The central conductor is made of fine wires tin coated electrolytic grade copper

<u>Insulation</u>: The insulation provided over the conductor is with high dielectric strength and low capacitance

**Screen:** Annealed tin coated copper 85% coverage approx.

**Sheath:** Black or White colored PVC.

\*Packing is available in 90 meter.

Colors available: White or Black.

### **Power Cores**

<u>Conductor</u>: The central conductor is made of fine wires tin coated electrolytic grade copper. <u>Insulation</u>: The insulation provided over the conductor is of PVC with high dielectric strength

**Separator**: PETP tape

Sheath: PVC

Cable Colour: White. Black with UV resistance to ASTM G 154

#### **Application:**

These cables are specifically designed to transmit complete video frequency with minimum distortion or attenuation for security and

surveillance. This cable is offered in two variants viz., 4+1 and 3+1 CCTV Camera cable.

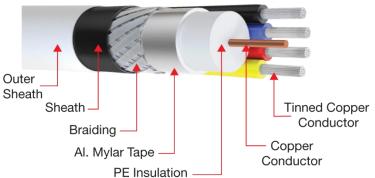


## **Cable Design Parameters:**

Cable type	Cable size (sq.mm.)	Nominal cable diameter (mm.)	Power core colour
CCTV cable 4+1	4C +1C x 0.25	6.80	RD, YL, BK, GN
CCTV cable 3+1	3C + 1C x 0.25	6.80	RD, YL, BL

### <u>Cross – sectional view of RADILITE CCTV camera cables:</u>





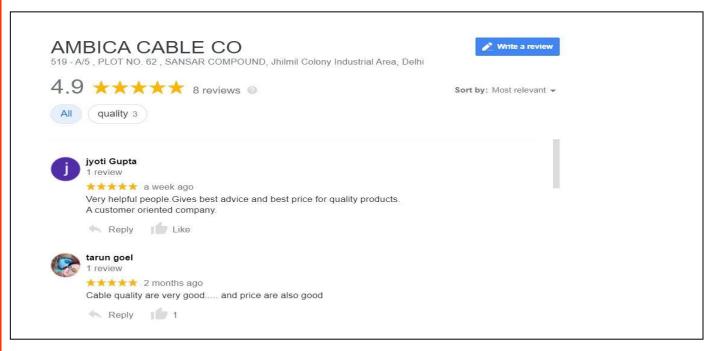


### **Customer's review**

Our customers are our main wealth, we repeatedly try to enhance our product quality at reasonable prices. The company has developed from its customer's faith and best services since 1986, that's why we have gradually grown our company.

Here you can see our customer's review left on our google my business page:

https://g.page/ambicacableco?gm







### Smart Choise Begins Here !!

## **Contact us:**

Website: www.ambicacables.com

E-mail: ambicacableco1985@gmail.com

radilite@ambicacables.com

info@ambicacables.com

Ph: 8383908409, 9711109518