

# Flexolite<sup>®</sup>

## PVC INSULATED CABLES

AN ISO 9001 : 2015 CERTIFIED COMPANY



**CONNECT BETTER, WITH THE BEST.**



We at FLEXOLITE CABLES introduce ourselves as a Market driven company committed to excellence and catering the needs of various Industries and Households in the field of Wires and Cables.

FLEXOLITE CABLES has been incorporated by people who have proved themselves for over four decades in the field of electrical wires & cables with great expertise and experience. FLEXOLITE CABLES is located in the industrially developed and peaceful location of Bhiwadi Industrial Area. The company has the most modern manufacturing facility and infrastructure at its plant. This includes well established production lines, Modern Quality Control facilities, up to date Technical assistance wing and well planned plant utility and off site facilities. A team of dedicated, well-experienced and highly qualified managers, engineers and other staff supports this. At FLEXOLITE CABLES the staff is further fortified by regular in-house Training Programs conducted by reputed technocrats that include information sharing and product knowledge.

We at FLEXOLITE CABLES attempt to anticipate the future endeavoring to be there first with the best. Our diverse cable range, each a special product for special application has been developed to meet the requirements of our quality conscious customers.

### **CONSUMER CONCERN**

Our main concern lies in supplying the customer with quality services and products. To this extent we have contrasted our product Lines on what our customers require from us. As technology has been advancing so have our customers.

In today's market the average cable installer is required to know the latest Technology & Standards and where to find them.

Our objective is to educate the customer about the product lines that have been made available and to help them use these products in the implementation of their network. We thus strive to serve the diverse needs of customers in keeping with the latest market Trends and Technologies.

### **STAFF EDUCATION**

We at FLEXOLITE CABLES believe that an Educated & Experienced staff is very essential for producing the best quality products that is why we regularly conduct -in-house training programs for all FLEXOLITE CABLES staff.

This includes regular information sharing, product knowledge and motivation toward the products manufactured. The staff, from inception to present consists of individuals that have been well aware of cable and wire business with complete technical knowledge.

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## **QUALITY CONTROL**

At FLEXOLITE CABLES we are conscious of manufacturing best quality cables. The excellent quality of the product is maintained by strict quality controls at every stage of manufacturing and by virtue of very stringent tests conducted as per relevant specifications at our own-in-house well equipped and modern laboratory under the supervision of qualified engineers and experts.

FLEXOLITE CABLES Strives to build a sound foundation based on Quality, Technology and Innovation. Customer Satisfaction is our utmost priority.

Synonymous with quality we at FLEXOLITE CABLES continue with our never ending quest for excellence to make a distinctive mark and a word of trust in the market.

## **PRODUCT RANGE**

- Single Core Building cables with copper and aluminum conductor up to 630 sq.mm.
- **UNI-TWISTeR** Copper Wires and Cables.
- 3 Core flat cables for use in submersible pumps.
- 2 core and multi core round cables for industrial use with copper and aluminum conductor.
- Two core flat cables with aluminum conductor.
- Telecommunication Cables.
- Co-Axial cables and door phone cables.
- CCTV Cables
- CAT 6 cables.

## **CHARACTERISTIC FEATURES**

- Meeting conditions lay down by Bureau of Indian Standards ISI. IS/694-90.
- Voltage rating up to and including 1100 volts
- Bright annealed pure bare electrolyte copper.
- Ensures the highest degree of electrical safety.
- Thermal compatibility and high mechanical strength.

We look forward to a future relationship with you.

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## FLEXOLITE RoHS CABLES



### What does RoHS stand for?

RoHS is an abbreviation for the Restriction of Hazardous Substances Directive.

A wire or cable product labelled RoHS compliant follows the guidelines listed by the European Union under the Restriction of Hazardous Substances Directive (RoHS). A product that is RoHS compliant contains no lead, cadmium, mercury, hexavalent chromium, polybrominated biphenyls, or polybrominated diphenyl ethers. RoHS material substitutes these with more environmentally friendly alternatives.

According to the European Union (EU), the RoHS Directive hopes to "prevent the generation of hazardous waste." The RoHS Directive is in place to protect the environment and reduce exposure-related health risks by restricting the use of hazardous materials in the manufacturing of electronic and electrical equipment. RoHS covers eleven categories of electrical and electronic equipment:

1. Low Voltage Wires and Cables
2. Small and Large household appliances
3. IT and telecommunications equipment
4. Consumer equipment
5. Lighting equipment
6. Electrical and electronic tools
7. Toys, sports and leisure products
8. Medical devices
9. Monitoring and control instruments including industrial monitoring and control instruments
10. Automatic dispensers
11. Other electrical and electronic equipment not covered by any of the above categories



In addition, these categories are limited to products designed for use with voltage rating not exceeding 1000V AC/1500 V DC. (No lower limit). When applicable Habia comply, regardless of voltage rating, and thereby exceeds the scope of RoHS. As a manufacturer of electrical wires and cables, we must ensure that all the different parts and components of the product meet the requirements.

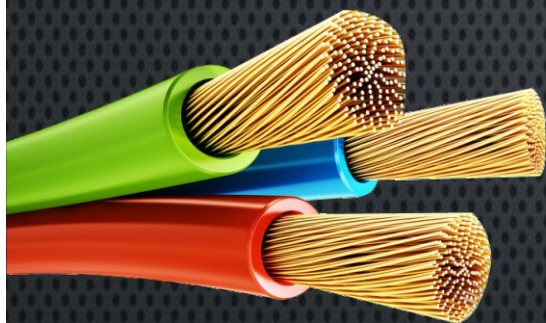
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## **FLEXOLITE FIRE RETARDANT CABLES**

Whenever public space is planned, 'planning for the worst' keeps step. Fire and disaster planning is painstaking. So, it is of utmost importance that it specifies and contractors understand when to use Flame Retardant and when to use Fire Resistant Cables. What the differences are and how to arrive at right choices.



### **What Are Fire-Retardant Cables ?**

The definition of fire-retardant cable is a cable that will not convey or propagate a flame as defined by the flame-retardant or propagation tests. Fire-retardant tests measure flame propagation for both horizontal and vertical applications. There are also plenum cable flame tests for use in ducts, plenums or other spaces used for environmental air distribution. The NFPA 262 is the same as CSAFT-6; it measures flame spread and smoke generation in a simulated air handling plenum. Cables used in plenums are required to have a more stringent test than that of the horizontal or vertical flame tests.

Whether used in residential, commercial, or industrial buildings, fire retardant materials are subject to increasingly stringent regulations. Manufacturers must produce building products which exhibit low flame propagation and low smoke effluent generation. They must also be easily manufactured and fulfil all applicable safety specifications.

A fire resistant (FR) cable ensures the integrity of essential services during a fire, complying with current regulations.

- Emergency lighting
- General Wiring of Residential/Commercial/Office spaces.
- Suitable for Internal and External\* use.
- Automatic door opening.
- Video surveillance cameras
- Forced ventilation.
- Inert network, etc.



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## FLEXOLITE FR-LSH CABLES

### WHAT IS FR-LSH CABLE

**FR-LSH** Cable Mean **Flame Retardant Low Smoke**. The **FR-LSH** PVC cables are fire resistant which are used at the locations that are more prone to fire. Flame Retardant Low Smoke PVC compound which is present in the cable, makes sure the release of very low smoke compared to other wires with FR- PVC coating.

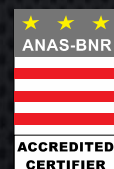


We are engaged in offering an array of **FR-LSH PVC Insulated Cables** to our clients. Cables being offered by us are quality tested at various stages of its development to meet international quality standards. These cables are available in various size and shapes and also offered in customized forms as per the specifications and requirement of our client.

Manufactured using premium quality raw materials these cables are a **good conductor**, as these are manufactured using premium quality 99.99% Aluminum and Copper. Our **FR-LSH** PVC cables are known for their durability and strength, cables offered by us are used in House Hold Buildings, Commercial Buildings, High Rise Apartments and have various other applications also.

### FR or FR-LSH: Which is better ?

**FR PVC insulation** has better fire retardant properties than normal PVC. **FR-LSH PVC** insulation provides better fire retardant properties than normal PVC & also emits Low Smoke, in case of fire.



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## FLEXOLITE 4D FR UNI-TWISTER

First of its kind, Heat Resistant and Flame Retardant REACH and RoHS Compliant Cable with Flexolite UNI-TWISTER Copper Conductor. UNI-TWISTER Copper Conductor ensure no loose contacts or broken ends which prevents Sparking and Overheating of the Cable



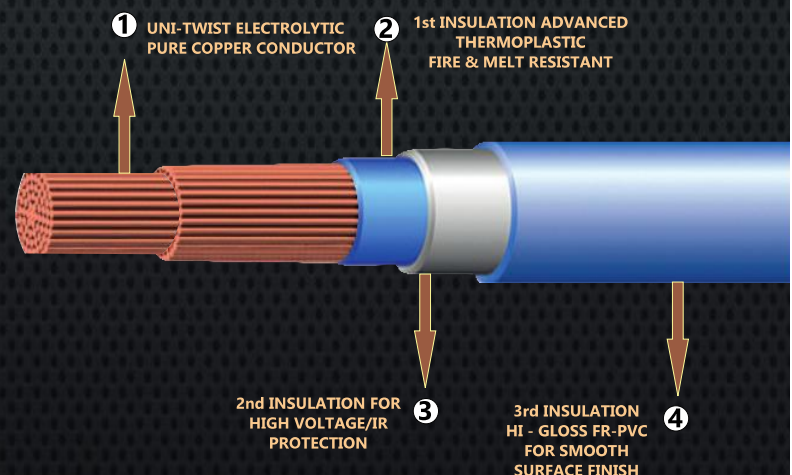
### CONSTRUCTION of FLEXOLITE 4D FR UNI-TWISTER wires

1. UNI-TWIST pure electrolytic copper conductor 99.99%.
2. 1<sup>st</sup> Insulation of Highly Advanced Thermoplastic which is Melt and Heat resistant.
3. 2<sup>nd</sup> Insulation of PVC for High Voltage Protection.
4. 3<sup>rd</sup> Insulation of Hi-Gloss FR-PVC for smooth and glossy surface finish which enables easy conduit trunking.

### Application of FLEXOLITE 4D FR UNI-TWISTER wires

- Residential/Commercial/ Office Buildings
- Wherever you need high electrical safety
- Factories with High Temperature Operations

**All places your loved ones visit as it provides EXTRA SAFETY and DURABILITY**



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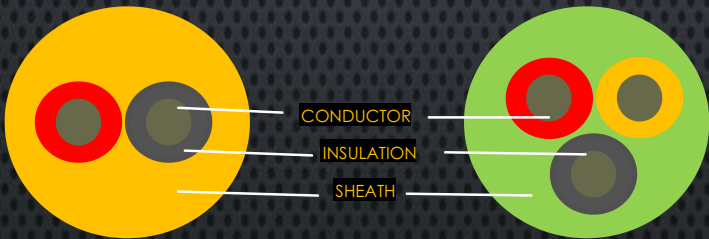
MULTICORE FLEXIBLE CABLE



**CONDUCTOR:** High purity electrolytic grade bright annealed flexible bunched bare copper conductor according to international standards like IS-8130, BS-6360, IEC-228, VDE-0295.

**INSULATION:** Specially developed dielectric grade PVC Compound.

- Compact construction reduces weight per meter
- High flexibility
- High temperature insulation



MULTICORE ROUND COPPER CONDUCTOR AND SHEATED FLEXIBLE CABLES FOR WORKING VOLTAGE UPTO 1100V

Nominal Cross Sectional Area of Conductor Sq. mm.	Number/ Nom. Dia of Cond. Strands mm.	Thickness of Insulation (Nom.) mm.	Nominal Thickness of Sheath			Approx. Overall Diameter			Current Rating AC Amps.	Voltage Drop/ Amp. / Meter		Max. Conduct or Resistanc e per KM @ 20 C Ohms
			Two core mm.	Three core mm.	Four Core mm.	Two core mm.	Three Core mm.	Four Core mm.		mV	mV	
0.5	16/0.20	0.6	0.9	0.9	0.9	6.2	6.6	7.2	5	83	72	39.0
0.75	24/0.20	0.6	0.9	0.9	0.9	6.5	6.9	7.6	8	56	48	26.0
1.0	32/0.20	0.6	0.9	0.9	0.9	6.9	7.3	8.2	13	43	37	19.5
1.5	30/0.25	0.6	0.9	0.9	1.0	7.6	8.2	9.3	18	31	26	13.3
2.5	50/0.25	0.7	1.0	1.0	1.0	9.0	9.6	10.5	24	18	16	7.98
4.0	56/0.30	0.8	1.0	1.0	1.0	10.3	10.9	12.3	31	11	9.6	4.96

NOTE: Conductor as per class 5. Supplied in 100 metre lengths with black outer sheath and in packing on request. Any colour specific request can be supplied. Higher sizes of nominal cross sectional area of conductor are also available on request. The number and diameter of conductor strands are for reference only.

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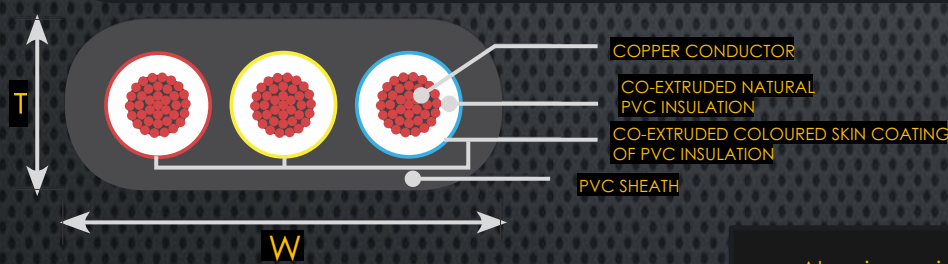




## 3 CORE FLAT CABLES (SUBMERSIBLE CABLES)

Flexolite Special 3 Core Flat Cables are manufactured for critical space requirement, protection against indefinite immersion in water under specified conditions, protection against rain-water and against ingress of small solid foreign bodies.

Flexolite Special 3 Core Flat Cables are produced from best quality electrolytic copper, which is drawn, annealed on-line and bunched on automatic machines to ensure flexibility and uniform resistance. The conductors are insulated with a special grade of PVC on sophisticated co-extrusion lines. Outer sheath consists of highly abrasion resistant PVC compound impervious to grease, oil and water etc.



- Durable and flexible cable ensures full safety
- Excellent all weather protection
- Pure annealed and bunched electrolytic copper

- Abrasion resistant & high flexibility PVC for longer life
- Suitable for all pump types
- Available in various sizes



### FLEXOLITE- 3 CORE CABLES (Conforming to IS : 694)

CONDUCTOR		INSULATION	SHEATH		Conductor Resistance @ 20 C (Max.)	Current Carrying Capacity @ 40 C
Area (Nom.) Sq. mm.	No./Dia. Of strands mm.	Thickness (Nom.) mm.	Overall Dimensions			
			Thickness (Nom.) mm.	Size (Approx.) (WxT) mm.		
1.5	22/0.3	0.8	1.1	11.6 x 5.5	12.10	16
2.5	36/0.3	0.9	1.2	13.9 x 6.4	7.41	22
4.0	56/0.3	1.0	1.3	16.1 x 7.1	4.95	29
6.0	84/0.3	1.1	1.4	18.6 x 8.0	3.30	37
10.0	140/0.3	1.3	1.6	23.4 x 10.0	1.91	51

NOTE: Insulation thickness, Sheath thickness and Overall Dimensions given in this table are nominal values. The strand diameter is nominal. However, Construction of the conductor is designed to satisfy the requirement of conductor resistance as per IS 8130 :1984

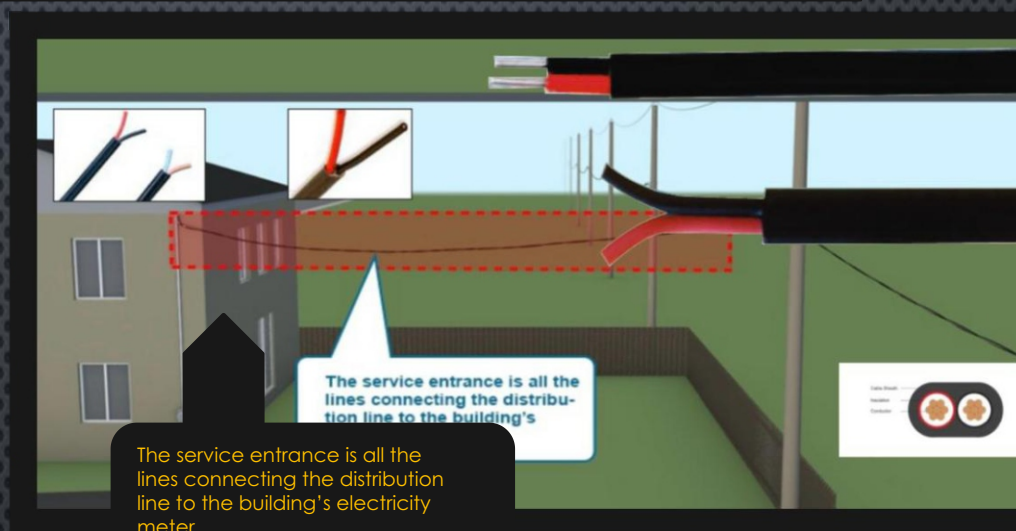
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## ALUMINUM TWIN FLAT CABLES (SERVICE WIRE)

Flexolite Service wires are manufactured with bright annealed high conductivity electrolytic aluminum conductor



Our clients can avail from us extensive range of Aluminum Service Twin Flat Cables. We are offering a wide range of Aluminum Twin Flat Cables with the following specifications.

### GENERAL CONSTRUCTION

**RANGE:** 2.5 sq. mm. to 16.0 sq. mm. in aluminum

- CONDUCTOR: Highly Tensile Solid Aluminum conductor as per class 1/ class 2 IS : 8130 / 1984.
- INSULATION: PVC Type A as per IS : 5831 / 1984, cores are laid side by side
- OUTER SHEATH: PVC Type S11 as per IS : 8130 / 1984

### SPECIFICATION OF TWIN ALUMINUM FLAT CABLES

**PVC INSULATED AND SHEATHED TWIN FLAT ALUMINUM CABLES UP TO 1100V CONFORMING TO 694 : 1990**

Nominal Area of conductor in sq. mm	Conductor Construction No. / mm	Nominal Area of conductor in sq. mm	Nominal Insulation Thickness in mm	Approx. Core Dia in. mm	Nominal Thickness in mm	Max. Overall Dimensions		Nominal Area of Conductor in sq. mm
						Height mm.	Width mm.	
2.50	1/1.78	0.7	3.3	1.0	6.40	10.00	18	12.10
4.0	1/ 2.25	0.8	3.8	1.0	7.20	11.50	23	7.41
6.0	1/ 2.76	0.8	4.5	1.1	8.00	13.00	30	4.61
10.0	1/ 3.57	1.0	5.5	1.2	9.60	16.00	40	3.08
16.0	1/ 4.51	1.1	6.8	1.2	11.2	16.00	40	3.08

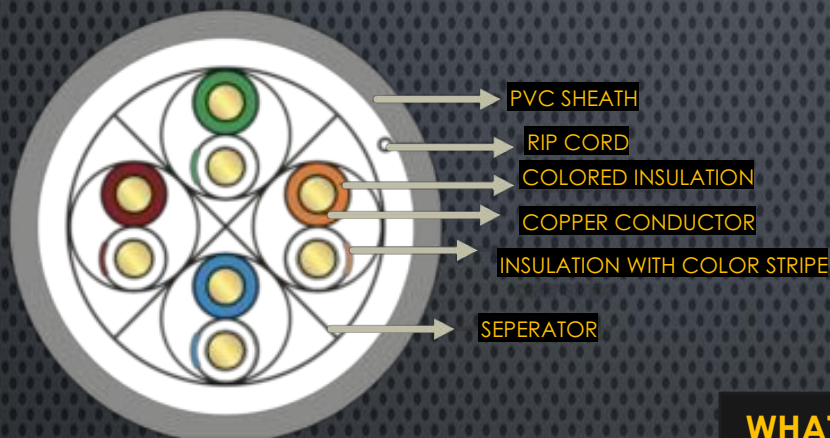
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## FLEXOLITE CAT-6 CABLES



### CONSTRUCTION

Conductor: 23 AWG Solid Annealed Bare Copper  
Number of pairs: 4  
Insulation: High Density Polyethylene  
Jacket: FR-PVC / HDPE  
Cable Diameter: 6.0 mm nominal  
2 cores twisted together to form a pair and sheathed with polymer of choice

### COLOUR CODE

PAIR NUMBER	COLOUR
1-2	White-Orange Stripe and Orange
4-5	Blue and White-Blue Stripe
3-6	White-Green Stripe and Green
7-8	White-Brown Stripe and Brown

### FEATURES

- True 23 AWG Solid Annealed Bare Copper
- 305 mtrs. REEL / 90 mtrs. COIL
- FR-PVC (LSZH Sheath Option On Demand
- Jacket Colour: ASH GREY/ ON DEMAND
- "Channel" Performance Warranty
- Performance verified upto 500MHZ



### WHAT IS CAT-6 CABLE ?

Category 6 Cable also known as Network/ LAN or Ethernet Date Cable, is a 4 twisted pair sheathed copper wire cable that can support data transfer rates of up to 1 Gigabits (1000 Megabits). This higher bandwidth allows for quick transferal of large files in an office network. It is compatible with fast Ethernet 10BASE-T, 100BASE-TX and Gigabit networks.

### WHAT IS IT USED FOR ?

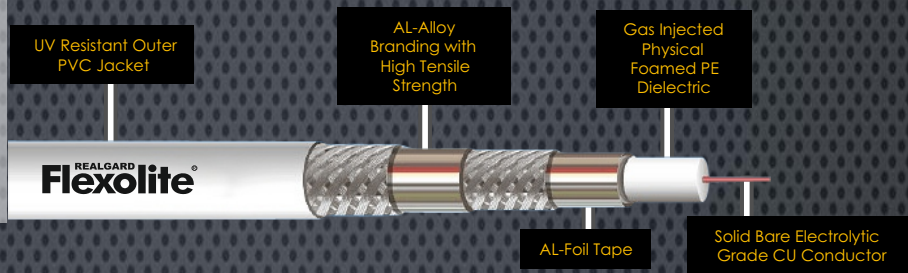
In most cases CAT-6 Cable is used for connecting a computer to another device like a hub, router or switch in order to allow the sharing of files across a network or for accessing the internet. It can also be used for connecting computers to other devices together such as printers or scanners for incoming and outgoing LAN connection on patch panels.

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## PVC INSULATED CABLES

### CONSTRUCTION OF CABLE



### Features and Advantages

Minimum loss in signal quality : Better reception : Higher Bandwidth : Larger network expansion, 100 plus channels, low attenuation value:  
Less electromagnetic interference : Minimum structural return loss : Moisture proof: Ideal for tropical conditions

### JELLY FLOODED CO-AXIAL CABLES

Flexolite the market leader in power and control cables offers the widest range of cables and wires in the country. Flexolite co-axial cables for the cable tv network are manufactured at its ultra modern plant. The stringent quality control measure couples with companies R & D efforts ensure production of co-axial cables that are technologically superior.

The central conductor is made of the solid electrical grade 99.97 pure copper to ensure better signal transmission. The conductor is insulated with nitrogen gas, which is superior and environment friendly as compared to chemical form. The double screen of special composite type bonded aluminum foil and special grade aluminum alloy branding of 60% coverage ensures low loss in signal quality, additional mechanical strength and existence to oxide formation in tropical weather conditions. The specially in-house formulated PVC compound used in jacketing is used UV and abrasion resistant.

Flexolite co-axial cables are fully tested for all parameters by computerized analyzer

## CO-AXIAL CABLE

GET REAL PICTURE AND SOUND

QUALITY WITH CO-AXIAL WIRE



## CCTV CABLE

In CCTV the coaxial cable is of type RG-59 which has the highest attenuation compared to RG-6 and RG-11. Hence, it is recommended for use only for distances up to 300ft. Foamed dielectric delivers excellent electrical properties such as low capacitance and high velocity of propagation. This results in low-loss characteristics and reduced attenuation of the video signal. Aluminum foil and AL Alloy branding of 60% coverage ensures complete elimination of MEI/RFI from the video signals and also provides a reduced DC resistance ground path. Jacketing with UV PVC is ideal for all indoor and outdoor application.

### DATA SHEET FOR CCTV CABLE

SR. NO.	CONSTRUCTION	MATERIAL/UNIT	FLEXOLITE	FLEXOLITE
CABLE SIZE			CCTV Cable 4C+1	CCTV Cable 3C+1
CABLE SIZE			0.5 MM	
1 a)	CONDUCTOR	ABC		
	NO. OF STRANDS	NOS	1	1
	STRAND DIA(Nominal)	MM	0.5 ± 0.2	0.5 ± 0.2
2 a)	INSULATION	HDPE		
	THICKNESS (NOMINAL)	MM	0.20	0.20
	COLOUR		RED, YELLOW, BLUE, BROWN	RED, YELLOW, BLUE, BROWN
CO-AXIAL CABLE				
1 a)	CONDUCTOR	ABC		
	INNER CONDUCTOR DIAMETER	MM	0.80 ± 0.005	0.80 ± 0.005
2 a)	INSULATION	FOAM HDPE		
	THICKNESS (Nominal)	MM	1.375	1.375
3	AL - FOIL	AL - FOIL		
	DIA OVER INNER SHIELD	MM	3.75	3.75
	WIDTH (Nominal)/COVERAGE	MM%	15/100	15/100
4	BRAIDING	AL ALLOY		
	WIDTH DIA (Nominal)	MM	0.12	0.12
	BRAIDING COVERAGE	%	60	60
5	CO-AXIAL OUTER SHEATH	PVC ST3		
	COLOUR	BLACK	BLACK	BLACK
	THICKNESS (Nominal)	MM	0.40	0.40
6	OVER ALL OUTER SHEATH	ST3		
	COLOUR	WHITE	WHITE	WHITE
	THICKNESS (Nominal)	MM	0.50	0.50

### FLEXOLITE cctv

FLEXOLITE cctv Cables are offered in two types namely 4+1 CCTV Cable and 3+1 CCTV Cable. Coaxial cables from the carrier for video signal and the other '4 cores' or '3 cores' from the carriers for power. Coaxial cables are designed to transmit the complete video frequency range with minimum distortion or attenuation, making them an excellent choice for CCTV. Remistar CCTV cables are designed to optimize the quality of video signals, which are transmitted through the Coaxial cable in the CCTV cable. The Coaxial consists of solid annealed bare copper conductor of electrolytic grade which is insulated with foamed dielectric, aluminum foil taped, jelly flooded, braided with AL Alloy and then jacketed with UV PVC. Topmost quality of construction of coaxial cable in Remistar 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.

## OTHER PRODUCTS



SPEAKER WIRE



PARALLEL WIRE



FLEXIBLE/PLASTIC WIRE

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