Finolex
Cables Limited
AN IS/ISO 9001 CERTIFIED COMPANY

FINOLEX COMPOSITE CCTV CABLES

FINOLEX CABLES LIMITED

Started in 1958, Finolex Cables Limited is India's largest and leading Electrical and Telecommunication cables manufacturer. Finolex Cables has always believed in enhancing capabilities and augmenting the product basket. In last few years, besides the cable business, the company has forayed into new segments and added new products under Finolex brand name. The company offers Total Electrical Solutions with products like Industrial / Electrical wires, Flexible Cables, Elevator Cables, 3 Core Flat Cables, Auto Cables, Communication Cables, Telecommunication Cables, Power Cables, Copper Rods, Lighting Products, Premium Modular Switches, Final Distribution Products, Domestic Fans and Electric Water Heaters. Finolex Cables Limited has four manufacturing facilities viz. at Pimpri (Pune), Urse (near Pune), Verna (Goa) and Roorkee (Uttarakhand).

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In our country, there is an increasing concern for security and continuous surveillance is now fast becoming one of the topmost priorities. The notion of round the clock surveillance is finding growing acceptance in the places like industrial areas, commercial and shopping complexes, airports, railway stations, roads etc. This type of surveillance and monitoring is done by installing very sensitive cameras at various locations. These cameras are connected to the data centre with high precision cable circuits for continuous monitoring and recording even the most minute details.

The cables used are of hybrid type with combination of communication and electrical wires. The communication cables are used for recording the images by the camera and to communicate with the data centre. The 3 or 4 or 6 number of electric wires in this hybrid type cables are used for powering the cameras. The communication cables are typically like RG 6 / RG 59 or any other type as per the customer specification and electric cables of size 0.15 mm^2 as per the specification.

Finolex has now introduced these wires. Finolex uses the latest technology of gas injected physical foaming for manufacture of co-axial cables which offer low weight and helps loss free signal transmission. The conductor for this cable is of solid bare copper type which offers low conductor resistance and lower attenuation. This results in better picture quality.

The electric wires in this cable come with solid annealed bare copper conductor, insulated with Polythene, in addition to being colour coded as per specifications. These insulated cores are laid up along with co-axial cable and further jacketed with specially formulated and in house manufactured PVC in black colour. These cables are most suitable for outside application as the PVC Jacket offers UV protection. Finolex can manufacture cables as per customer's requirement.

The product range includes:

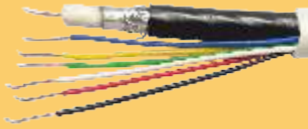
RG-59F (Copper) Co-axial + 3 Core x 0.15 Sq. mm CCTV Cables
RG-59F (Copper) Co-axial + 4 Core x 0.15 Sq. mm CCTV Cables
RG-59F (Copper) Co-axial + 6 Core x 0.15 Sq. mm CCTV Cables

(A) Construction Parameters: Co-axial	
Inner Conductor	
Material	Solid Bare Copper
Diameter	0.80 mm Nom. (20 AWG)
Dielectric	
Material	Gas Injected Physical Foam Polyethylene
Diameter	3.55 mm Nom.
Shield	
1st Shield	Bonded Aluminium Tape
2nd Shield	Aluminium Alloy Braid
Coverage	Nom. 60%
Jacket	
Material	PVC (Black)
Diameter	5.60 mm Approx.
Bending Radius	65 mm Min.

Electrical Specifications	
Inner Conductor dc Resistance	Max. 3.55 Ω/Km at 20°C
Capacitance (Nom.)	53.0 pF/m
Characteristic Impedance	75 ± 3 ohm
Structural Return Loss	Min. 15 dB @ 1 – 1000 MHz
Nominal Velocity Ratio	85%
Performance	
Frequency	**Max. Attenuation (dB/100 m) at 20°C**
55 MHz	6.73
187 MHz	11.81
300 MHZ	14.60
550 MHz	19.52
750 MHz	22.87
865 MHZ	24.67
1000 MHz	26.64

(B) Insulated Cores

No. of Cores	Conductor Diameter (Nom.) Solid Bare Annealed Copper	Insulation Material	Core Diameter (Nom.)	Colour Codes	Overall Jacket (PVC) White	Overall Diameter
3	0.5 mm	High Density Polythene	0.95 mm	Red, Yellow, Blue	ST1 Grade Conforming to IS 5831	8.50 mm Max.
4	0.5 mm	High Density Polythene	0.95 mm	Red, Yellow, Blue, Black	ST1 Grade Conforming to IS 5831	8.50 mm Max.
6	0.5 mm	High Density Polythene	0.95 mm	Red, Yellow, Blue, Black, White & Green	ST1 Grade Conforming to IS 5831	8.50 mm Max.



Finolex Cables Ltd., India, (1 x RG 59 CU + 6C x 0.15 sq mm)

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Finolex gets people together

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Sample card available on request

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