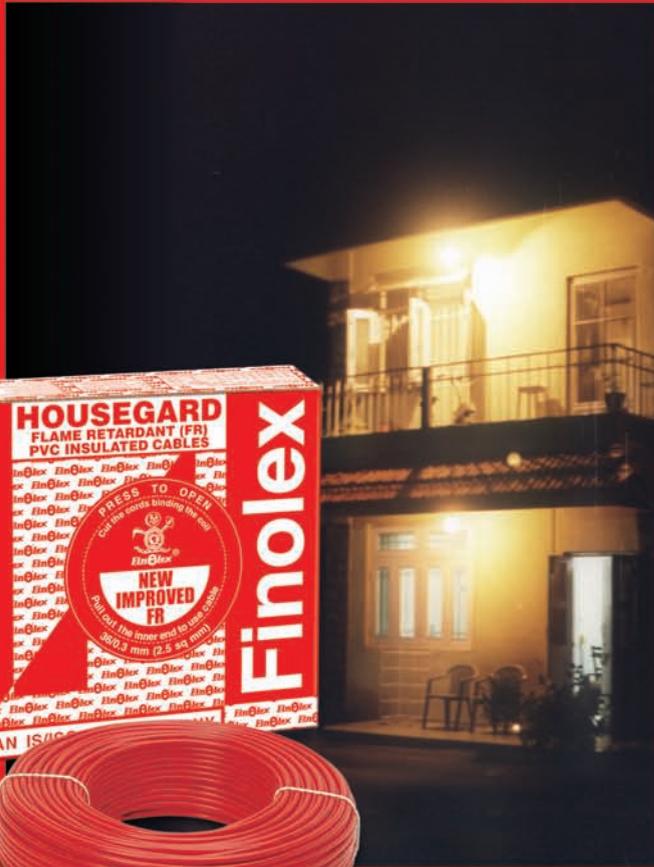


# Finolex

**MORE THAN  
100%  
CONDUCTIVITY**



**HOUSEGARD -- Flame Retardant PVC Insulated Cables**



An IS / ISO 9001 Company

# HOUSEGARD – PVC Insulated Electrical Wires

To add to the existing range of electrical wires, Finolex introduces 'Housegard' - PVC insulated electrical wires, which offer added safety.

Each wire is manufactured using 99.97% pure, electrolytic grade, bright annealed bare copper with more than 100% conductivity. This copper is manufactured at the group company's state-of-the-art plant in Goa. Better purity and conductivity of copper ensures greater saving of electrical energy and thus helps to reduce electricity bills. The conductor is made of multiple strands of finely drawn copper wires thereby offering greater flexibility which makes these wires ideal for conduit wiring.

The wires are insulated with PVC compound, specially formulated and manufactured in-house. A special grade PVC resin manufactured by the group company, Finolex Industries Limited, is used to manufacture this compound. This PVC compound has a high oxygen and temperature index. These properties help in restricting the spread of fire even at very high temperatures. This special compound also offers high insulation resistance and dielectric strength. Insulation is applied over the conductor by the process of dual extrusion using state-of-the-art extrusion lines. The outer skin determines the colour identification while the inner layer is pure insulation which provides extra protection. All wires are subjected to high voltage spark testing to make sure that there are no weak spots in the insulation.



These ISI marked wires meet the requirements of IS 694 : 1990. This means extra protection against electrical shocks, short circuits and fires. The wires also have FIA/TAC (Fire Insurance/Tariff Advisory Committee) approval.

The company name, size of wire, voltage grade and logo are printed at regular intervals on the wire to help in easy identification as shown below.

Buy only from authorised Finolex outlets to be assured of total quality. If doubts arise about the authenticity of the purchase, please write to the company at the address given below. Send a copy of the cash memo and a metre-length sample of the cable to enable genuineness tests to be carried out in the laboratory.

These wires are manufactured in our state-of-the-art manufacturing plants at Pimpri (Pune) and Verna (Goa).



## HOUSEGARD – SINGLE CORE, UNSHEATHED WIRES IN VOLTAGE GRADE 1100 V.

Nominal area of copper Conductor	Number / Nominal Diameter of strands	Thickness of insulation (Nominal)	Approximate Overall Diameter of wire	Current carrying capacity # 2 wires, single phase		Resistance (Max.) per km. @20°C
				In conduit / Trunking	Unenclosed - clipped directly to a surface or on cable tray	
Sq.mm	mm	mm	mm	Amps	Amps	Ohms
0.75	24/.2**	0.6	2.3	6	7	26.0
1.0	14/.3*	0.7	2.7	11	12	18.10
1.5	22/.3*	0.7	3.1	13	16	12.10
2.5	36/.3*	0.8	3.7	18	22	7.41
4.0	56/.3**	0.8	4.3	24	29	4.95
6.0	84/.3**	0.8	4.8	31	37	3.30

Standard Colours: Black, Red, Blue, Yellow and Green (for earthing). Supplied in 90 metre lengths

# As per IS 3961 (Part V) - 1968

BIS licence Nos. CM/L-0382242 & CM/L-7306463

\* As per conductor Class 2 of IS 8130 : 1984

\*\* As per conductor Class 5 of IS 8130 : 1984

# Finolex

## 270/180 Metres Special Project Packaging



An IS / ISO 9001 Company

**HOUSEGARD** – Flame Retardant PVC Insulated Cables

# HOUSEGARD – 180 / 270 M SPECIAL PROJECT PACKAGING

Each Housegard wire is manufactured using 99.97% pure, electrolytic grade, bright annealed bare copper with more than 100% conductivity, supplied by the Group Company - Finolex Wire Products Ltd., Verna, Goa. The wire is insulated with a Flame Retardant (FR) PVC compound with a high oxygen and temperature index, specially formulated and manufactured in-house. A special grade PVC Resin manufactured by Finolex Industries Ltd. is used in formulating this compound. These ISI marked wires meet the requirements of IS 694 : 1990 and are approved by FIA /TAC.

ADDITIONAL FR PROPERTIES		
Test	Specification	Specified Values
Critical Oxygen Index	ASTM-D 2863	Oxygen Index Minimum 29%
Temperature Index	ASTM-D 2863 & BICC Hand Book Chapter No. 6	Minimum Temperature Index 250°C
Also meets requirements of Flammability Test as per IEC 60332-1		

**The need of the day is new circuitry and additional points to accommodate modern gadgets. Add to this, large scale projects undertaken nowadays. Since the size of constructions is not only larger but also more widespread, there is a surge in the need for electrical wires of longer lengths. Finolex is a major supplier of electrical wires to such big construction projects. Finolex electrical wires enjoy approvals from architects, electrical contractors, consultants and builders, for whom the quality of electrical wires is of utmost importance.**

Finolex now introduces two new lengths - 270 metre coils (triple coils for sizes 1.0 , 1.5 and 2.5 sq.mm ) and 180 metre coils ( double coils for sizes 4.0 and 6.0 sq.mm) to suit the requirement of big housing projects.

**Housegard with longer lengths has many advantages.**

## ECONOMICAL

This longer length is more economical as less leftover pieces are generated from each coil after wiring thereby reducing scrap. The inventory of leftover coil length is also reduced to a great extent.

## SAFE

In case of bigger construction projects, longer connections are required. With Housegard, due to the longer length, the number of joints in electrical conduits are reduced, ensuring safe and jointless wiring in electrical installations.

Hence additional safety in wiring is ensured.

## STORAGE SPACE SAVING

Since each coil is of longer length and more compact, more wires can be accommodated in the same storage area, thus making optimum use of available storage space.

These longer length coils are manufactured on high precision computerised coiling machine which ensures exact length and compactness. They are further poly-wrapped and packed in specially designed sturdy master cartons.



## HOUSEGARD – SINGLE CORE, UNSHEATHED WIRES IN VOLTAGE GRADE 1100 V.

Nominal area of copper Conductor Sq.mm	Number / Nominal Diameter of strands mm	Thickness of insulation (Nominal) mm	Approximate Overall Diameter of wire mm	Current carrying capacity # 2 wires, single phase		Resistance (Max.) per km. @20°C Ohms
				In conduit / Trunking Amps	Unenclosed - clipped directly to a surface or on cable tray Amps	
1.0	14/.3*	0.7	2.7	11	12	18.10
1.5	22/.3*	0.7	3.1	13	16	12.10
2.5	36/.3*	0.8	3.7	18	22	7.41
4.0	56/.3**	0.8	4.3	24	29	4.95
6.0	84/.3**	0.8	4.8	31	37	3.30

Standard Colours: Black, Red, Blue, Yellow and Green (for earthing). Supplied in 180/270 metre lengths

# As per IS 3961 (Part V) - 1968

BIS licence Nos. CM/L-0382242 & CM/L-7306463

\* As per conductor Class 2 of IS 8130 : 1984

\*\* As per conductor Class 5 of IS 8130 : 1984