



# SINGLE & MULTICORE FLEXIBLE CABLES AS PER IS 694

**Agilon Singlecore and Multicore Flexible Cables have a wide range of application in machine tools, appliances, control panels, machinery and industries of every nature.**

The conductors, drawn from 99.97% bright electrolytic grade copper with more than 100% conductivity, are annealed and bunched. The conductors are insulated to form a core with PVC compound with high insulation resistance and dielectric strength.

In Multicore Cables, the insulated cores are laid up to form the core assembly. The cores are coded for ease of identification as per national / international coding practices. The sheathing is provided with a specially formulated PVC compound to facilitate not only ease in stripping but also to withstand mechanical abrasion while in use. These PVC compounds used for insulation and sheathing have high oxygen and temperature index. These properties help in restricting the spread of fire even at very high temperatures.

Multicore Sheathed Cables are manufactured as per IS 694:1990, sizes 0.5 sq.mm to 4.0 sq.mm upto 24 cores. These sizes carry the prestigious ISI mark and are duly approved by FIA / TAC. The rest of the sizes generally conform to IS 694:1990.

Cables as per BS 6500 are also available for the export market.



## GENERAL CONSTRUCTION

### Conductor :

High Conductivity Electrolytic Grade Copper Class-5 (Flexible) Based on IS 8130: 1984

### Insulation (Types) :

- PVC 70°C for General Purpose Insulation
- FR 70°C for Fire Retardant Cable
- HR 85°C for Heat Resistant 85°C
- HRFR for Heat Resistant 85°C & Fire Retardant
- FRLS for Flame Retardant Low Smoke

### Outer Sheath (Types) :

- PVC for General Purpose Sheath
- FR for Fire Retardant Sheath
- FRLS-H for Fire Retardant Low Smoke Halogen-free

## RANGE

- Singlecore Cable 0.50 Sq.mm to 300 Sq. mm ISI Mark (Unsheathed)
- Multicore Flexible Cable 0.50 Sq.mm to 4 Sq.mm - 5 Core & 6 Sq.mm to 120 Sq.mm - 4 Core ISI Mark
- Multicore Flexible Cable, 6 Core - 25 Core - ISI Mark

## APPLICATION

- PVC & FR PVC for 70°C, suitable for wiring in residential & commercial infrastructure
- HR PVC for high ambient temperature suitable for wiring in residential & commercial infrastructure
- FRLSH - for Public Places, Schools, Hospitals, Hotels etc.



# GENERAL CONSTRUCTION

## Characteristics

Electrical Performance - Low Voltage 600/  
1100 Volt

### ■ Approvals:

- ISI
- CE
- RoHS

### ■ Thermal Performance

- Max. Service Temp: 85°C
- Max. Short Circuit Temp: 160°C
- Min. Service Temp: -15°C

# STANDARDS

- IS 694: 2010
- IS 8130: 2013
- IS 5831: 1984

### ■ Fire Performance (FRLSH)

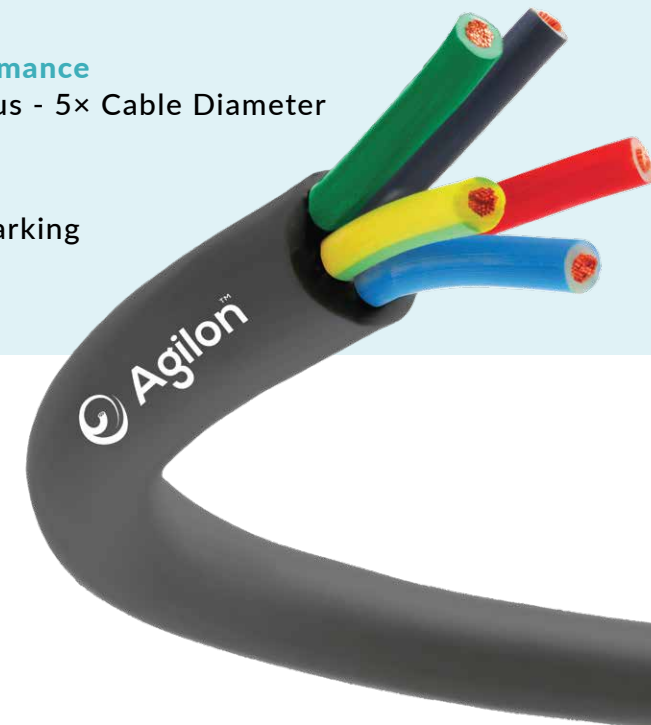
- Flammability Test - IS 10810 (Part 53)
- Oxygen Index Test - IS 10810 (Part 58)
- Test for Halogen Acid Gas Evolution - IS 10810 (Part 59)
- Test for Temperature Index - IS 10810 (Part 64)

### ■ Mechanical Performance

Min. Bending Radius - 5× Cable Diameter

### ■ Other

Meter by Meter Marking







# KEEP THE BEST CABLE IN YOUR HOME

*SO FLEXIBLE, IT FITS ALMOST EVERYWHERE*