



**C.R.I. CABLES**  
*Quality to the core*

# C.R.I. PVC INSULATED THIN WALL AUTO CABLES



**C.R.I.**

**CRI  
FIRE  
GUARD**

## C.R.I. PVC INSULATED THIN WALL AUTO CABLES -40°C to +105°C

### GENERAL :

105°C Temperature resistant PVC Insulated Thin Wall Automobile Cables are designed specially for new generation automobiles. In these automobiles, the focus is on miniaturization and optimization of space, which results in increase of temperature in the engine compartments and other locations. The PVC compound is impervious to water, petrol, diesel, acids, engine and lubricating oils and grease. So this auto cable can be used to manufacture customized harnesses for the automobile industry. These Auto cables with Electrolytic grade High Conductivity Annealed copper conductors are insulated with specially designed and formulated in-house compound with lead-free PVC compound, complying to Restrictions of Hazardous Substances (RoHS) regulations.

### CONSTRUCTION:

#### Conductor

- Flexible copper conductor, plain

#### Insulation

- PVC (Polyvinyl Chloride) (thin wall)

### TECHNICAL DATA (FLRY-B cables) :

<b>Operating Temperature</b>	: -40°C to +105°C	<b>FL</b>	: Automotive cable, Low voltage
<b>Standard</b>	: DIN 72551 - 6, ISO 6722	<b>R</b>	: Thin insulation
<b>Test Voltage</b>	: 3KV i.e <0.5mm <sup>2</sup> 5KV i.e >0.5mm <sup>2</sup>	<b>Y</b>	: PVC
		<b>Type B</b>	: Flexible Conductor

### SPECIAL FEATURES :

- Manufactured by using Electrolytic copper with more than 99.97% bright annealed copper conductor which avoids overheating.
- Flexible conductors with thin wall insulation for extra flexibility.
- Insulated with specially designed and formulated in-house compound, with lead-free PVC compound complying to Restrictions of Hazardous Substances (RoHS) regulations.
- C.R.I. lead-free cables are specially designed to meet the stringent environmental norms.
- Available in economical packaging of 25 metres or longer lengths.
- Available in wide range of colors (Green, Orange, Pink, Blue, White, Brown, Yellow, Red, Violet and Black and as per customer request).

### TECHNICAL DETAILS OF PVC INSULATED THIN WALL AUTO CABLES (-40°C to +105°C)

Nominal Cross Sectional Area (mm <sup>2</sup> )	Market Reference Size	No. of Wires / Diameter of Wire (mm)	Nominal Insulation Thickness (mm)	Nominal Overall Diameter (mm)	Maximum Resistance of Conductor at 20°C (Ohms/Km)	Current Carrying Capacity (Amps)
0.5	3	16/0.21	0.22	1.6	37.1	12
0.75	4	24/0.21	0.24	1.9	24.7	16
1.0	5	32/0.21	0.24	2.1	18.5	19
1.5	6	30/0.25	0.24	2.4	12.7	22
2.5	7	50/0.25	0.28	3.0	7.6	30
4.0	8	56/0.31	0.32	3.7	4.7	41
6.0	9	84/0.31	0.32	4.3	3.1	53

### APPLICATIONS :

- Used in internal wiring of vehicle electrical systems.
- Low-tension electric wire for Automobiles.
- Used in Motorcycles and other motor vehicles for starting, charging, lighting, signal and instrument panel circuits in high temperature condition.