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Product Name :

Light-Emitting Diode (LED)

Product Code :

SCL2529/036



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Description :

Light-Emitting Diode (LED) (Product Code: SCL2529/036) is a white luminescent diode that glows when current passes through it in the forward direction, making it a clear visual indicator for circuit and semiconductor lessons. The capsule is at least 5 mm across and the wire ends are tinned copper, so it can be soldered, clipped or pushed into a circuit board. Schools use it in LED characteristics experiment kits and simple circuit builds; it is supplied by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, India.

Specifications

Parameter	Detail
Type	Light-emitting diode
Colour	White luminescent
Capsule diameter	Minimum 5 mm
Leads	Tinned copper wire ends

Typical Use

Younger classes use the LED as a polarity test: connected one way it lights, reversed it stays dark, which introduces the idea that some components only let current pass in one direction. In senior practicals it becomes a subject of study in its own right, with students raising the voltage in small steps and recording the point at which it starts to glow, then comparing that turn-on voltage with other LED colours.

Because it draws little current, the white LED also serves as a status light in student-built circuits such as a light-sensing switch or a continuity tester. Always wire a resistor in series with it, since connecting an LED straight across a battery can burn it out. Tinned leads take solder easily, but keep soldering brief to avoid overheating the capsule. It is an inexpensive addition to any electricity experiment kit for school benches.

Supplier

Components such as this LED are sourced and supplied by Jain Scientific Equipments Private Limited, which trades as ScienceLab from its base in Ambala, Haryana, so schools can order them together with other circuit apparatus. Our company profile has more about the business.

Related Lab Equipment

Pair this LED with the following items for circuit and optics-electronics work:

- LED Bright Red — a second colour for comparing turn-on voltages.
- Simple Circuit Module LED Board Green — a mounted LED module for younger students.
- Battery Snap with Crocodile Clip — a quick way to power the LED from a battery.
- Light Dependent Resistor — combines with an LED in light-sensing circuit projects.
- Semiconductor Diodes (for high school) — ordinary rectifier diodes for contrasting with the

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