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Product Name :

Long Cylindrical Spring (Resort)

Product Code :

SCL1219/08



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Description :

Long Cylindrical Spring (Resort) (Product Code: SCL1219/08) is a long helical spring in silver-coloured stainless steel, 20 mm in diameter and 3 metres long, specified for an elongation of 3 times. Laid on the floor or a long bench and stretched between two students, it carries pulses and waves slowly enough for a whole class to follow them, so transverse and longitudinal motion can be compared side by side. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala, and forms the heart of a wave motion kit for schools in India.

Specifications

Parameter	Detail
Type	Long cylindrical helical spring (resort)
Shape	Cylindrical
Material	Stainless steel
Colour	Silver
Diameter	20 mm
Length	3 metres
Elongation	3 times

Typical Use

With one student holding each end, a quick sideways flick sends a transverse pulse along the coils, while a sharp push along the spring's length sends a band of compression that models how sound travels. Holding one end firmly shows that a pulse returns inverted from a fixed end; letting that end move freely shows it returning the same way up. Shaking one end at a steady rate sets up standing waves, and the class can point out nodes and antinodes, measure the wavelength with a tape and time pulses to estimate wave speed.

Work on a smooth, clear floor or a long bench, keep the stretch within the specified elongation so the coils are not permanently deformed, and never let go of a stretched end suddenly. Easy to see from the back of the room, the spring earns its place in any physics demonstration kit in India.

Manufacturer

Jain Scientific Equipments Private Limited, known to schools by its trade name ScienceLab, produces this spring in Ambala, Haryana, alongside a wide range of apparatus for teaching waves, sound and mechanics. Visit the company profile to learn more about the business.

Related Lab Equipment

Apparatus that supports wave demonstrations with this spring:

- Tape Measure — for marking out wavelengths and the stretched length on the floor.
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