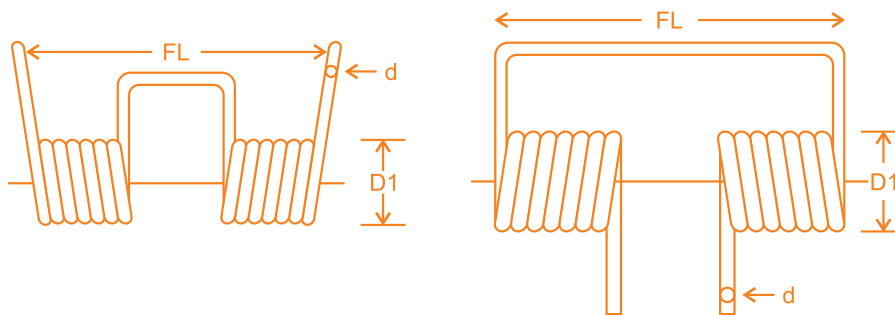


WIREFORMS

Wire forms come in all sorts of shapes & sizes and each play different role. Wire forms are wires that have been bent into specific shapes, often to fulfil a particular purpose, one can commonly recognize wire form as a spring; though any shape that a wire takes is technically a wire form, other often seen wire forms include hooks and certain types of clips.



How to Design Wireforms

- Wire forms are so versatile the shape of a wire form can vary greatly. It is unsurprising then that the first step in creating a wire form is to come to an agreement about specifications. Because most wire forms are designed for a specific application, this step of the design is crucial to the success of the form.
- The next step in the process is to determine the material the form will be created out of. From stainless steel to bronze, wire forms can be created using a wide range of materials.
- Determining the tooling that will be used to create the form is the next step in the process. The basic process for any wire form, no matter how complex, begins with placing the correct tooling into the machine and allowing the machine to complete the bends necessary for the particular piece.

List of Parameters

- Wire Diameter (d)
- Angles
- Degree of Inclination
- Radius of Circle Shaped Elements of the Wireform (if any)
- Lengths of Straight Sections
- Wire Quality (Stainless or Carbon Steel)

Key Parameters

- Forces in N/mm the wire form is planned to resist to;
- Finishing treatment (galvanization, oxidization, powder coating, phosphating, ZINTEK 200, shot blasting, deburring).

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WIRE - RANGE : 0.25 MM - 5 MM

Material

- High Carbon Spring Steel Wire
- Stainless Steel 302, 304, 316
- Phosphors Bronze
- Copper

Manufacturing Process

Wireforms are manufactured on imported CNC Spring forming and multisided Machines with critical angle measurement with air sensor device

Testing & Certification Process

Each spring manufactured goes through a series of rigorous tests conducted on in house testing facilities such as Computerized UTS Testing, Torsion testing, Profile Projector amongst others. All springs are supplied with ROHS raw material compliant report. We also provide PPAP documents for automobiles and electrical industries as per requirement.

Common Applications

Automotive Interiors and Exteriors, Battery contacts, Light Fixtures, Electrical Applications, Automotive Seat Assembly, Circuit Breakers, Switches, Auto Ancillaries, Light Fixtures among others

Reference Standards

- **IS4454(Part 1) :2001** – Cold Drawn unalloyed Steel Wire - wire grades SL, SM, SH, DM & DH
- **IS4454 (Part 2) : 2001** – Stainless Steel Wire
- **IS7608 : 1987** – Phosphor Bronze Wires

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