

What Are Wire Rope Thimble Used For?

Engineering Hardware & Fasteners · engineeringhardware.com/applications/cad-svg-155-ropethimble

[Fasteners/Rigging Hardware/Wire Rope Thimble](#) — [ISO / DIN \(Series 155\)](#)/Applications

[Rigging Hardware](#) · [ISO / DIN](#) · [Application guide](#)

Typical applications, the industries that specify wire rope thimble, and how to choose the right size, material and finish for the joint

Wire Rope Thimbles are used for lifting, tensioning and securing loads within a rated working load limit. They are manufactured to ISO / DIN, and selection is driven by the working load limit required, the applicable safety factor and the service environment.

Primary duty

Lifting, tensioning and securing loads within a rated working load limit

Governing standard

ISO / DIN

Rope diameter range

4 mm to 24 mm

Category

Rigging Hardware

Application notes are general engineering guidance. Verify the property class and any approval requirement against your own design calculation.



The primary duty of Wire Rope Thimbles is lifting, tensioning and securing loads within a rated working load limit. Below: the sectors that specify them in volume, the checklist used to select the right size and material for the application, installation notes, and the known limits of the type. Stocked across roughly 4 mm to 24 mm, they cover general to heavy-duty work.

Typical Applications for Wire Rope Thimble — ISO / DIN (Series 155)

The most common settings where these are specified:

- **General machine building:** fastening covers, brackets, motors and sub-assemblies on production equipment.
- **Maintenance & repair (MRO):** a stocked size for servicing existing plant where the original fastener spec must be matched.
- **Fabrication & metalwork:** bench and on-site assembly of steel frames, enclosures and weldments.

How to Specify Wire Rope Thimble — ISO / DIN (Series 155) for Your Application

- **Size:** Select on rope diameter, and confirm it against the mating feature in the assembly. This product spans 4 mm–24 mm; check the full table below for the exact dimensions of each size.
- **Material:** Choose the material and finish for the service environment — plated steel for general use, stainless for corrosion resistance.

- **Environment:** For damp, coastal or chemical exposure prefer A4/316 stainless or a suitable coating; indoors, plated steel or A2 is usually sufficient.
- **Standard:** This product is supplied to ISO / DIN. Quoting the standard on your order guarantees interchangeable dimensions between suppliers.

Where Wire Rope Thimble — ISO / DIN (Series 155) Are Not the Right Choice

Match the fastener to the load, environment and whether the joint must be reopened; the wrong class or style is the usual cause of joint failure.

Technical Drawing

Customize the parameters below — every spec field is editable, and the drawing redraws to match the values you choose. Changing the size will snap the other fields to that size's standard values; you can then override any individual value.

Sends the selected values to the quote form below.

Request a Quote

The form below follows the current technical drawing configuration. Change the drawing values above and the request details update automatically.

Dimensions & Specifications (ISO / DIN)

For rope diameter (mm)	Inside length (mm)	Outside length (mm)	Material	Reference standard
4	18	28	Galvanized steel	DIN 6899 / GB/T 5974
5	22	33	Galvanized steel	DIN 6899 / GB/T 5974
6	25	38	Galvanized steel	DIN 6899 / GB/T 5974
8	32	48	Galvanized steel	DIN 6899 / GB/T 5974
10	38	58	Galvanized steel	DIN 6899 / GB/T 5974
12	45	68	Galvanized steel	DIN 6899 / GB/T 5974
16	58	88	Galvanized steel	DIN 6899 / GB/T 5974
20	72	108	Galvanized steel	DIN 6899 / GB/T 5974
24	86	128	Galvanized steel	DIN 6899 / GB/T 5974

Video: What Are Wire Rope Thimble Used For? in use



► Watch video: https://www.youtube.com/watch?v=zkDPu_Sald8

Installing Wire Rope Cable Thimbles and Choosing the Correct Size

Third-party video, selected automatically for this topic. It is not produced by Engineering Hardware and is not a specification source — use the tables on this page for dimensional data.

Inside the plant

Manufactured in our own plant

This part is cold-formed, threaded, heat-treated and finished in-house. The stages below are where its class and finish are actually decided.

1.



01

Cold heading

Wire rod is drawn to size and cold-formed into blanks. Forming rather than cutting keeps the grain flow continuous around the head, which is where a bolt is most likely to fail.

Head dimensions and under-head radius checked at set-up and per shift.



2.

02

Thread rolling

Threads are rolled between hardened dies rather than cut. Rolled threads are stronger in fatigue than cut threads and hold pitch and flank angle far more consistently across a batch.

Go / no-go ring gauges to ISO 965 tolerance class 6g.

3.



03

Heat treatment

Quench-and-temper brings carbon and alloy steel to the property class ordered — 8.8, 10.9 or 12.9 — with the furnace charge tracked so a finished lot can be traced back to it.

Core hardness and tensile tested per lot to ISO 898-1.

4.



04

Surface treatment

Zinc, zinc-nickel, hot-dip galvanizing, black oxide, phosphate and Dacromet, selected against the service environment rather than against the price list.

Coating thickness and neutral salt spray hours to ISO 9227.

Frequently Asked Questions

What are Wire Rope Thimble — ISO / DIN (Series 155) used for?

Lifting, tensioning and securing loads within a rated working load limit. They are supplied to ISO / DIN.

Which industries use Wire Rope Thimble — ISO / DIN (Series 155)?

They are commonly specified in general machine building, maintenance & repair (mro) and fabrication & metalwork, among other sectors.

How do I choose the right size of Wire Rope Thimble — ISO / DIN (Series 155)?

Select on rope diameter and on the fit the assembly requires. This product is available from 4 mm to 24 mm; the full dimension table on this page lists each size.

Are Wire Rope Thimble — ISO / DIN (Series 155) made to a recognized standard?

Yes — they are manufactured to ISO / DIN, so dimensions are interchangeable between suppliers when you quote the standard on your order.

Can I get a quote for Wire Rope Thimble — ISO / DIN (Series 155) in the size and material I need?

Yes. Use the technical drawing and quote form on this page to set the size and options, then send the exact configuration to our team for pricing and lead time.

Related Pages

Product page: [Wire Rope Thimble — ISO / DIN \(Series 155\) — specifications & sizes](#)

Wire Rope Thimble — ISO / DIN (Series 155) Specification Guides

- [A4 stainless Wire Rope Thimble — ISO / DIN \(Series 155\)](#)

Related Fastener Applications

- [Turnbuckle — ISO / DIN \(Series 156\) applications](#)
- [Wire Rope — GB/T 6170 / ISO 4032 \(Series 063\) applications](#)
- [Wire Rope — ISO / DIN \(Series 152\) applications](#)
- [Wire Rope Clip \(U-Bolt\) — ISO / DIN \(Series 157\) applications](#)
- [Wire Rope Thimble — ISO / DIN \(Series 158\) applications](#)