

## Test report: 4mm Oval Wire Rope Clamps

Test report no.: 200701-1

Client: Drahtseile24 GmbH

Task: Tensile tests on egg-shaped clamps  
shaped clamps on both sides, nominal size 4mm

Test period: July 1, 2020

Inspector: Ingo Witthuhn

Test object: 4mm wire rope with egg-

### Experimental setup

*This series of tests describes tensile tests on wire ropes that have secured end connections on both sides with egg-shaped wire rope clamps.*

The aim is to investigate which breaking forces the egg-shaped clamps described here achieve.

Tensile tests are carried out with three wire ropes described in the series.

These products were not developed and manufactured as slings or load-carrying devices. Use as lifting equipment, slings or load-carrying equipment, particularly within the scope of the Machinery Directive 2006/42/EC, is therefore not permitted.

The egg-shaped wire rope clamps are used to easily assemble wire ropes and connect detachable rope end connections.

Note: Duplex clamps must not be used for lifting loads.

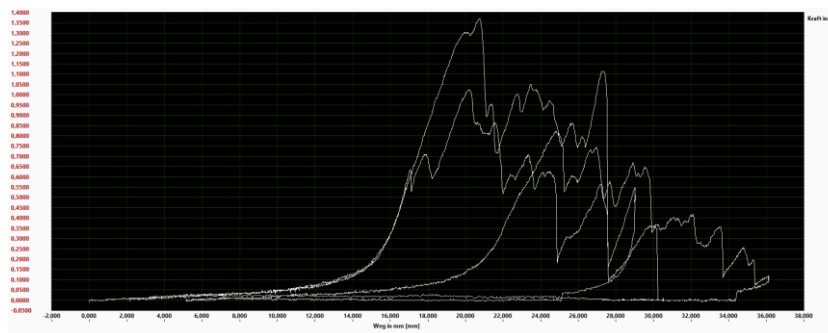
The tensile tests were carried out using a universal testing machine type

Zwick 1478, max. load 100kN, accuracy class 1, equipped with 100kN force sensor

Measuring rate : 50Hz

**Tensile test No. 1-3:** on July 1st, 2020: Wire rope 4mm 7x19, batch 16019, with egg-shaped clamp NG 4mm on both sides, tightened with bit PH2 to 5Nm.

Clamping length approx. 0.50m Test speed: Fast translation,  $\frac{1}{4} = 62.5\text{mm} / \text{min}$ . Rope holder: Bolt 12mm.



**Result: Wire rope slipping through 4mm egg-shaped clamp at 0.343kN, max. payload with 3 times the safety factor for 4mm egg-shaped clamp = 11kg.**

Ingo Witthuhn, Managing Director