Guarantee

igus® chainflex®
cable

Guarantee
igus® chainflex:

36 month guarantee

igus® eu...

www.chainflex.eu ... plastics for longer life® ...
chainflex® cable guarantee ... 

We are confident to give a guarantee because...

...we conduct more than 2 billion test strokes and 1.4 billion electrical measurements per year.

Our customers often give system guarantees to end users so they have complete confidence in the safety and reliability of their systems. However, this poses a commercial risk for system manufacturers. To offer our guarantee, we can now offer security to our customers by guaranteeing more than 2 billion test strokes and 1.4 billion electrical measurements per year.

Predictable reliability
Our customers ask for statements about lifetime. For over 20 years, we have been conducting tests in what is now the largest test laboratory for cables and energy chains®. Based on our series of tests, we are now able to offer clear statements allowing cable users to plan more effectively with regard to service life.

"In the case of a guarantee claim, the buyer is entitled to the rights under the guarantee as per the terms set down in the guarantee statement vis-à-vis the person who has given the guarantee, regardless of the legal claims (Section 443 I BGB)."

Many customers do not need an extended warranty period but instead want a binding statement about lifetime. We fully support this by offering our chainflex® cable guarantee.

Analysis of the measuring data: igus® "AutΩMeS" system

Quality assurance: constant batch testing to ensure quality

... unique!

Double stroke selection tables – guaranteed service life

All chainflex cable series have a "lifetime calculation table expressed in double strokes". This gives the technical parameters for using the cable. For the guarantee to be valid, the cables must be used in accordance with the parameters shown in the table.

1 Temperature, from/to [°C]  
2 v max. unsupported/gliding [m/s]  
3 a max. [m/s²]  
4 Travel [m]  
5 Min. bending radius [factor x d] at 5, 7.5 or 10 million double strokes

Example: Selection table "guaranteed lifetime" for CF9 cable

* Higher number of double strokes possible

Example:
A cable with a diameter of 12 mm in an energy chain® with a radius of 100 mm results in a bending factor of 8.3 (100 mm/12 mm).

To calculate the guaranteed service life identify the technical parameters shown in areas 1-4. Area 5 shows that because the effective bending factor of 8.3 is above the limit of 7, the guaranteed service life is 10 million double strokes. If the temperature is higher or lower, the guaranteed service life falls to 7.5 million double strokes. This very clear statement enables you to specify the correct cable for your application.
igus® test lab ...

2,750 m² lab... more than 700 parallel cable tests...
2 billion test cycles... reliability through experience...

Tests for complex movements: simulation of complex motions in robot applications

Media tests: test of the durability in adverse chemical effects in motion

All types of chainflex® cables are tested in moving applications in e-chains®

Special designs for special solutions

Rotating motion tests: demanding chain applications with small radii

Cold tests on cables and energy chains at -40°C
Technology training

Training at your company ...

We will come to your premises and train your employees free of charge. Subjects include cable installation, inspection and optimisation. In this way we work with you to achieve continuous improvements and find the best solutions for your business using igus products. Employees from the purchasing, engineering, quality and commissioning are welcome.

Technical training can be customised to include any required subjects. We would also be happy to combine the training with an in-house exhibition.

Clear savings and benefits

Highly diverse product range offers cost-optimised solutions

The large product range makes it easy to get exactly the product you require. The combination of the clearly stated service life information and the guarantee enables you to minimise risk.

Example:

In space restricted high cycling applications a high quality PUR cable with a bend radius of 7.5 x d and guaranteed service life of many millions of double strokes may be required. If PVC can be used instead of PUR a saving of around 30% is possible. If the bend radius can be increased to 10 x d a further saving of around 25% is achieved. If an even larger radius can be used then a further saving in excess of 30% can be possible.

Ultimately what matters is to achieve the target lifetime at the best possible price.

### Approx. 32% saving

- PVC servo cable – 7.5 x d

### Approx. 26% saving

- PVC servo cable – 10 x d

### Approx. 33% saving

- PVC servo cable – 15 x d
igus® is certified in accordance with ISO 9001:2008 and ISO/TS 16949:2009 in the field of energy supply systems, cables and harnessing, as well as plastic plain bearings.

Also ask about fully harnessed and preassembled energy supply systems – with readychain® quickly increase your cash-flow and profits. www.readychain.eu

Free of charge! Discover more about the latest trends and innovations from igus® motion plastics® world. Register here: www.igus.eu/newsletter

igus® GmbH Spicher Straße 1a 51147 Cologne
Phone +49-2203-9649-800 Fax +49-2203-9649-222
info@igus.de www.igus.eu www.chainflex.eu

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Subject to technical alterations. MAT0072184.20  Issue 01/2017