

## Video of the Week – How igus tests cables in energy chains at sub-zero temperatures

Only real long-term tests under realistic conditions provide useful information about the reliability and service life of cables in energy chains.

In this weeks' video, we head over to Cologne to visit our climatic test chamber. Here chainflex cables move continuously in energy chains where they are subjected temperatures down to -40°C; this is not done just once but millions of times.

Travelling over a distance of 4.35m and at speeds of over 0.7m/s, the cables endure 6,900 cycles every day. A cable only passes the test if it has no jacket fractures.

igus defines three different bending and temperature ranges for the jacket materials it uses. Firstly, for static cables, secondly for flexibly moving cables in accordance with VDE or IEC standards and, thirdly, for cables moving in energy chains.

To take a look inside igus' climatic test chamber, please follow this link: [www.igus.co.uk/coldchamber](http://www.igus.co.uk/coldchamber)

For more information about chainflex cables, please visit: [www.igus.co.uk/chainflex](http://www.igus.co.uk/chainflex) or call igus directly on: 01604 677240

### igus resources:



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**About igus:**

Based in Northampton in the UK and with global headquarters in Cologne, Germany, igus is a leading international manufacturer of energy chain systems and polymer plain bearings. The family-run company is represented in 35 countries and employs 4,150 people around the world. In 2018, igus generated a turnover of 748 million euros with motion plastics, plastic components for moving applications.

With plastic bearing experience since 1964, cable carrier experience since 1971 and continuous-flex cable since 1989, igus provides the right solution based on 100,000 products available from stock with between 1,500 and 2,500 new product introductions each year. igus operates the largest test laboratories and factories in its sector to offer customers quick turnaround times on innovative products and solutions tailored to their needs.

The terms igus, chainflex, CFRIP, conprotect, CTD, drylin, dry-tech, dryspin, easy chain, e-chain, e-chain systems, e-ketten, e-kettensysteme, e-skin, flizz, ibow, iglide, iglidur, igubal, manus, motion plastics, pikchain, readychain, readycable, speedigus, triflex, plastics for longer life, robolink and xiros are protected by trademark laws in the Federal Republic of Germany and internationally, where applicable.

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**For further information, please contact:**

Megan Campbell, igus

Tel: 01604 677240

Email: [mcampbell@igus.co.uk](mailto:mcampbell@igus.co.uk)

Dulcie Elliot, Publitek

Tel: 01582 390980

Email: [dulcie.elliott@publitek.com](mailto:dulcie.elliott@publitek.com)