

Advancing research: igus is a new member of the Profibus Nutzerorganisation e.V.

Tested chainflex Profinet cables ensure reliable data transfer in moving applications

Profinet is the world's leading Ethernet-based communication solution for industrial automation. Because even large volumes of data can be transferred quickly and safely thanks to real-time communication. In order to advance the research of Profinet technology in moving applications, igus has now joined the Profibus Nutzerorganisation e.V. as a cable specialist.

According to the results of a study by IHS Markit, Profinet is the industrial Ethernet communication system. Based on the newly installed nodes, Profinet achieved a market share of almost 30 per cent in 2018. The technology was developed by the [Profibus Nutzerorganisation e.V. \(abbreviation PNO\)](#). "Due to the increasing importance of Profinet in moving applications in industry, we have now joined the Profibus Nutzerorganisation e.V. as a cable specialist. Here we want to further advance the development of the technology", says Andreas Muckes, Head of chainflex cables Product Management. "So the customer can be sure that our cable solutions always meet the current electrical requirements." Profinet offers clear advantages for industry: a large amount of data can be transferred at up to 100 Mbit/s based on the Ethernet protocol. However, this also means that machines and cables must move increasingly more dynamically in a compact installation space: a challenge for standard cables. Therefore, igus has been developing cables that are specifically suitable for use in energy chains and on robots for over 25 years. For Profinet alone, igus offers nine types of cable for different application scenarios.

Whether linear movement or torsion, the cable is guaranteed to last

The chainflex Profinet cables are available in four jacket materials, four bend radii and two torsion angles. The igus product range offers solutions for small installation spaces, maximum speeds and three-dimensional movements with up to ± 360 degrees/m on the robot or in free movements. The cables have a number of approvals such as UL, NFPA, EAC and CTP and are available in

desired lengths directly from stock. All cables also undergo an extensive series of tests in the company's own 3,800 square metre test laboratory. There, for example, the [Profinet cable CFBUS.LB.060](#) completed over 65 million strokes with a bend radius of 63mm. Thanks to the numerous laboratory results, the chainflex cables have a 36-month functional guarantee, which is unique in the world. Upon request, they are also available fully harnessed as readycable, for example with an M12 round connector from Telegärtner.

More information on Profinet technology and chainflex Profinet cables is available at <https://www.igus.in/info/unharnessed-cables-profinet>

Caption:



Picture PM1520-1

As a cable specialist for use in motion, igus wants to further advance the development of Profinet technology with its membership in the Profibus Nutzerorganisation e.V. (Source: igus GmbH)

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ABOUT IGUS:

igus GmbH is a global leading manufacturer of energy chain systems and polymer plain bearings. The Cologne-based family business has offices in 35 countries and employs 4,150 people around the world. In 2018, igus generated a turnover of 748 million euros from motion plastics, plastic components for moving applications. 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", "Apiro", "chainflex", "CFRIP", "conprotect", "CTD", "drylin", "dry-tech", "dryspin", "easy chain", "e-chain", "e-chain systems", "e-ketten", "e-kettensysteme", "e-skin", "e-spool", "flizz", "ibow", "igear", "iglidur", "igubal", "kineKIT", "manus", "motion plastics", "pikchain", "plastics for longer life", "readychain", "readycable", "ReBeL", "speedigus", "triflex", "roboLink", "xirodur", and "xiros" are protected by trademark laws in the Federal Republic of Germany and internationally, where applicable.