

## **Modular corrugated tube from igus gains the top cleanroom classification**

**The e-skin for motion in confined spaces gets the IPA Class 1 certification**

**With the e-skin, igus has developed a modular corrugated tube which is not only extremely easy to open, but unlike comparable energy supply products, also provides an unsupported operation in the smallest installation spaces. Now the motion plastics specialist has won the strict IPA ISO Class 1 certification for the product, This gives customers maximum safety for applications in cleanroom environments.**

Absolute air purity is essential in many industries, especially in production, in the medical and pharmaceutical technology, semiconductor industry, aerospace technology, nano technology and measurement technology. Any contamination in cleanroom conditions has a direct damaging impact on products and processes and costs a lot of money. The e-skin from igus is used in the area of energy supply and provides a safe, robust and flexible supply of systems with data, media and energy without generating airborne particles above the narrow limit, which can contaminate the room.

### **Enclosed structures and abrasion resistance for clean production**

Design and material of the e-skin have enabled the acquisition of the IPA ISO Class 1 certification through the Fraunhofer Institute. The corrugated tube is made up of tribologically optimised, abrasion-resistant plastic and its separable upper and lower shells can be easily put together by a "zipper" to a fully enclosed tube, which is highly dust-proof and water-resistant. This simultaneously guarantees its cleanroom suitability as well as a quick filling and maintenance of the cables. The assembly-friendly e-skin is also extremely light and ideal for small installation spaces, for instance in pick & place applications. Due to the stiffness of the material, the rib profile and a defined direction of motion, it is even applicable for short unsupported distances, unlike other corrugated hoses. Interior separation is also available as an option.

**Captions:**



**Picture PM2216-1**

Upper and lower parts of the ultra-light e-skin join together immediately to make a sealed, cleanroom-compatible and unsupported energy supply system (source: igus GmbH).

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**ABOUT IGUS:**

igus GmbH is a globally leading manufacturer of energy chain systems and polymer plain bearings. The Cologne-based family business has offices in 35 countries and employs around 2,950 people around the world. In 2015, igus generated a turnover of 552 million euros with 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", "chainflex", "CFRIP", "conprotect", "CTD", "drylin", "dry-tech", "dryspin", "easy chain", "e-chain", "e-chain systems", "e-ketten", "e-kettensysteme", "e-skin", "energy chain", "energy chain systems", "flizz", "iglide", "iglidur", "igubal", "invis", "manus", "motion plastics", "pikchain", "readychain", "readycable", "speedigus", "triflex", "twisterchain", "plastics for longer life", "roboLink", "xiros", "xirodu" und "vector" are protected by trademark laws in the Federal Republic of Germany and internationally, where applicable.