

## Make one out of two: Hybrid servo cable with bus element for the energy chain

**igus connects the power supply and the encoder cable in a single-cable solution**

**igus GmbH, specialist for energy chains and cables, now has a single-cable solution for servo motors in its program: The hybrid servo cable has an integrated hyperface bus element. With it, the company takes up the currently emerging trend of the single-cable technology for servo motors. The hybrid servo cable is based on the chainflex cable series CF270.UL.D.**

In the field of drive technology, servo motor and the converter are generally connected with two cables - one servo cable for the energy supply of the motor and an encoder cable to give data about rotation speed and position of the motor back to the control. Currently, drive manufacturers increasingly offer servo motors with single-cable technology. The principle: Energy supply as well as data feedback are coupled in one cable. In this case complex measuring system cables, which are usually used for the encoder function, are replaced by bus technology.

### **Hybrid-servo cable from igus: single-cable solution with hyperface bus**

igus already anticipated the present trend of single-cable solutions for servo motors on the year's Hannover Fair and has introduced a single cable solution with integrated hyperface bus element. The main advantage over a "standard" servo cable is its space-saving function, a very important aspect for the use in energy chains. Apart from that, the number of plugs and therefore the costs for additional material and installation is reduced.

### **Protecting shield for maximum EMC**

A good and durable shield is especially important for servo cables to prevent possible disturbances of neighbouring cables within the energy chain.

This is even more important in the case of the newly developed hybrid cable, because the sensitive bus signals are directly integrated into the servo cable. For this reason the element shield as well as the entire shield of the hybrid cable from igus is made of a particularly bending-resistant



**Picture PM2413-01:**

Make one out of two: The igus hybrid servo cable with bus element as single-cable solution for the use in the new servo technology. (Source: igus GmbH)

shield made of tinned copper wires with an optical covering of 80%. The high-quality shields ensure the electromagnetic compatibility of the cable.

### **High-end - durable and developed for the energy chain**

Above that the hybrid servo cable has been developed especially for the use in energy chains and disposes of a maximum bending radius of 10 x cable diameter.

The basis of the hybrid cable is the technically high-level chainflex family CF270.UL.D that has been in the market for more than 5 years. It's good durability is permanent under excessive load conditions, this is the result of the specific igus design: The core pairs, stranded with optimal pitch length, satisfy the high mechanic demands of constantly moving use. They offer a constant high protective effect to ensure proper electric performance. A low-adhesion PUR outer jacket covers the cable. It is customised to the specific demands in energy chains and provides a long lifetime of the cable due to the proven igus materials.

Moreover this hybrid cable corresponds with relevant standards such as UL, CSA and NFPA79.2012 and is oil resistant. Due to its Desina conforming orange outer jacket, its flame-retardance and freedom of halogen, this new cable fulfils the demands especially for the use in machining centres and machine tools. Such features are also appreciated in conveyor technology as well as in cryogenic temperature applications.

#### **CONTACT:**

igus® GmbH  
Spicher Str. 1a  
D-51147 Köln  
Phone +49-22 03 / 96 49-0  
Fax +49-22 03 / 96 49-222  
info@igus.de  
www.igus.de

#### **PRESS CONTACT:**

##### **Oliver Cyrus**

Corporate Communication  
igus® GmbH  
Spicher Str. 1a  
D-51147 Köln  
Phone +49 (0) 22 03 / 96 49 - 459  
Fax +49 (0) 22 03 / 96 49 - 631  
ocyrus@igus.de www.igus.de

#### **About igus®:**

The igus GmbH is a world's leading manufacturer in the field of energy chain systems and polymer plain bearings. The family-run company is based in Cologne, represented in 29 countries and contracts 2,200 employees worldwide. In 2012 igus generated a turnover of 399 million Euro. igus operates the largest test laboratories and fabrics in its branch to offer customers innovative and tailor-made products and solutions within the shortest time.

The terms "igus, chainflex, readycable, easychain, e-chain, e-chainsystems, energy chain, energy chain system, flizz, readychain, triflex, twisterchain, invis, drylin, iglidur, igubal, xiros, xirodur, plastics for longer life, manus, vector" are legally protected trademarks in the Federal Republic of Germany and, where applicable, in some foreign countries.