



Press Release

Nexans presents new drag chain cables for the highest dynamic loads

A world first at SPS/IPC/DRIVES 2009: Servo motor cables in the new series fulfil the requirements of chain capability category 7 (CCC 7)

Nuremberg, 19 October 2009 – at the SPS/IPC/DRIVES 2009 trade fair (24 to 26 November in Nuremberg), Nexans Deutschland is presenting for the very first time a newly developed generation of servo motor cables (hall 5, stand 5-324). It is designed for extreme dynamic loads and is suited, for example, to highly productive Metal forming machine tools or logistical applications. The new cables fulfil the requirements of chain capability category 7 (CCC 7) and can endure over 20 million bends. With regard to maximum speed and acceleration, the cables exceed the specifications for class CCC 6 and can now be used for operating ways of up to 50 m (CCC 6: 15 m). The new series can therefore be considered the new benchmark for drag chain cables.

The first representatives of the new series are servo motor cables. Nexans will continue to expand its range of highly dynamic cables to include new types. At SPS, Nexans is also displaying bus cables (DC 2x2x0.25+1P0.38), which are optimised for challenging applications and can transmit digital signals at up to 100 Mbps. Before their introduction onto the market, Nexans tests these and other cables at the company's own Nexans Research Center under realistic conditions. During these tests, diverse bending, stretching and torsion movements are simulated to reflect the loads in the later applications as power and data cables. These tests aim at demonstrating the high reliability of Nexans cables, which is particularly critical in the Automation business.

Chain capability categories make choosing the right cable easier

At the Nexans trade fair stand, visitors have the chance to find out about further cables for machine tools, robots or logistic systems. To help choose the right cable, Nexans ranks them in so-called "chain cable categories" (CCC): Classification in CCC 1 to CCC 7 reflects parameters such as greatest operating way, potential acceleration, maximum speed of movement and bending radius as well as the number of possible bends.

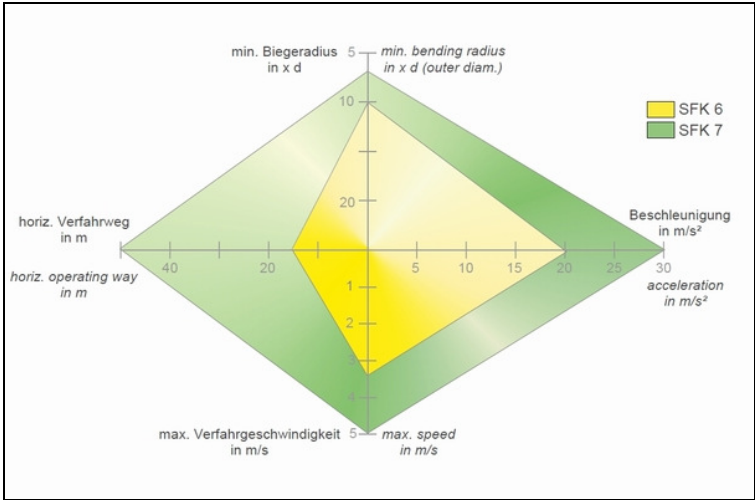
Next-higher class offers reserves

Depending on the application, the use of a cable of the next-higher class is generally recommended. "Although such a cable is somewhat more expensive at the point of purchase, it offers a clear safety reserve and a significantly longer service life", says Klaus Merklein, Global Segment Manager for Automation at Nexans. There is also

some leeway if not all dynamic properties are pushed to the limit at the same time. Acceleration or travel speed can then be increased at larger bending radii without reducing the service life.

Comparison	CCC 6	CCC 7
Min. bending radius in permanent movement	10xd (diameter)	7.5xd
Max. speed	200 m/min.	300 m/min.
Max. acceleration	20 m/s ²	30 m/s ²
Max. horizontal operating way	15 m	50 m

The load of CCC 7 cables can be increased significantly.



The diagram shows the maximum values possible in each criteria. Depending on the application, the cable can be used up to this threshold. The new servo motor cables demonstrate significantly higher performance values for highly dynamic applications.



Cables under endurance test: In order to fulfil the requirements for chain capability category 7, cables must be able to withstand 20 million bends.

About Nexans Deutschland

Nexans Germany is one of the leading cable manufacturers in Europe. The company is offering an extensive range of high performance cables, systems, and components for the telecommunications and energy sectors, rounded off by superconducting materials and components, Cryoflex transfer systems and special machinery for the cable industry. Producing at manufacturing plants with 6.240 employees in Germany and abroad, the sales in 2008 amounts to approx. 936 Mio Euro. The full integration into the Nexans Group Nexans Germany also benefits from excellent opportunities to use the available synergies in all corporate fields, which not only applies to worldwide projects but also to research and development, the exchange of know how, and to other areas. More information on www.nexans.de

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