

◆ **igus GmbH** (2005-12-12)



■ **Problem-free machine engineering**

New: Metal-free fibre optic cables for energy chains

Around 80 percent of all data cables in crane engineering and transport technology are fibre optic cables (FOC), but glass FOC are also being used increasingly in machine engineering. The reason is that data and bus cables are insensitive to EMC, whilst fibre optic cables guarantee the high transmission rates typical to glass.

For this application, igus (Cologne) has now developed the new metal-free cable series Chainflex CFLG.2HG.MF. This new fibre optic cable has been designed with dynamic energy supplies in machine engineering applications in mind.

Special design features

It is made up of two gradient fibres which are routed in separate tubes filled with gel. The tubes are surrounded by a torsion protection sheathing made of special synthetic fibres; both are stranded with GKF rods using a short cycle length. This design protects the wires from damaging pressure and from deformation and pulling forces. Therefore, steel elements are no longer required. A gusset-filling, extruded halogen-free PUR outer sheath ensures further stability, so that there is no increase in attenuation even after millions of strokes. The new, thin cables - designed to cope with tight bending radii in energy chains - have already been successfully tested in the igus laboratory with more than 26 million cycles at a 100 mm radius.

Chainflex CFLG.2HG.MF is available from stock in the two most important glass FOC sizes 50/125 µm and 62.5/125 µm. As with all Chainflex cables, igus supplies the new series without any cutting costs, harnessed if required and with no minimum order quantity.

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New fibre optic cable

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