

Test-Report chainflex®



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Test Intention:
In test 4009 we want to investigate the lifespan of a CFTHERMO.K.001 on the short way.

Client:					
Name: M. Göllner	Team:	chainflex	®	Date:	31.01.2011
Order-Info:					
Customer / No.: igus® GmbH, Spic	cher Str.1a, 511	47 Köln			
Series / No: CFTHERMO.K			Installation type: horizon	tal, short w	ay
Customer test: Ye	es 🗌 No 🛛		Development test:	Yes 🛛 No	o 🗌
Technical data			Target & Examination		
e-chain [®] type: 15	00.125.048.0		Cable length [m]:	3,0	
e-chain [®] radius [mm]: 48			Target [strokes]:	Lifespan	1
Stroke [m]: 0,8	3		Optical check:	\boxtimes	
Acceleration a [m/sec ²]: 0,5	5		Function check:		
Velocity v [m/s]: 1,0)		Standard measuring:		
Ambient temperature [°C]: ap	prox. 25°C		AutΩMeS:		
Experimental setup					
Checklist for the experimental p ☐ additional inscription/label at al ☐ strain reliefs at both ends of the ☐ correct electrical connection of	l wires e chain				

1. Construction:

This test is built up on the "kleine Bahr ". The following picture shows the test structure:



| radius was marked at the cables and the energy chain





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2. Cable and hose packages:

No. 1: **1x CFTHERMO.K.001** with the cable marking 01013m igus CHAINFLEX CFTHERMO.K.001 (2xAWG24)C Thermoelement Typ K CE RoHS conform www.igus.de

3. Description of the cable construction:

Standard igus chainflex® catalogue cable.

4. Remarks:

To detect broken conductor or shielding wires we will measure the ohmic resistance of these cable elements. The cores of the samples are connected in series and one core is connected with the shielding to measure the ohmic resistances.

The following chart gives an overview regarding the test parameters:

Cable no.	Cable type	E-chain radius [mm]	Outer diameter [mm]	Bending factor [xd]	Bending factor catalogue [xd]
1.1	CFTHERMO.K.001	48	5,2	9,2	12,5

Cable no.	Cable type	Counter reading		Effectively	Cable okay
Cable 110.	Cable type	mounting	demounting	tested strokes	after strokes
1.1	CFTHERMO.K.001	25.731.514			

Test-order was checked by [Martin Göllner or Christian Mittelstedt]and further employee]						
Date:	31.01.2011	Name:		Name:	Ch. Mittelstedt	



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Result

Start Report 07.02.2011:

At the 07.02.2011 we the test at counter reading of 25.731.514, we will measure the ohmic resistance regularly.

Interim Report 26.02.2013:

At the 26.02.2013 we made visual check and measured the ohmic resistance after 97.006.936 strokes. All parameters were still in a good condition. The test is still running and we will demount the cable when the ohmic resistance is too high.

The following diagrams show the trend of the ohmic resistances during the test:

