



5006a

Test No.:

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Test Intention:

In test 5006a we want to investigate the lifespan of our CFBUS.052 in a 100mm radius.

Client:								
Name: Nils Jäger	Team: chainflex	®	Date:	28.05.2013				
Order-Info:								
Customer / No.: igus [®] GmbH, Spicher	Customer / No.: igus [®] GmbH, Spicher Str.1a, 51147 Köln							
Series / No: CFBUS.052		Installation type: horizontal, short way						
Customer test: Yes	No 🖂	Development test:	Yes 🛛 No	> 🗌				
Technical data		Target & Examination						
e-chain [®] type: E6.29.	050.100.0	Cable length [m]:	7,0					
e-chain [®] radius [mm]: 100	Target [double strokes]:	Lifespan						
Stroke [m]: 1,5	Optical check:	eck: 🛛						
Acceleration a [m/sec ²]: -/-		Fluke DTX-ELT:						
Velocity v [m/s]: -/-		Standard measuring:						
Ambient temperature [°C]: approx	25°C	AutΩMeS:						
Experimental setup								
Checklist for the experimental prepa	arations es ain vires id the energy chain							
1 Compting of loss								

1. Construction:

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



Christian. Mittelstedt 30.09.2013

For internal use only

The managing data show the results of the accomplished examinations. With all data it still acts neither around one or more warranties of certain characteristics around one or more warranties regarding the suitability of a product for a certain targeted application, since the examinations on laboratory conditions took place. The warranty of certain characteristics of the products and/or their suitability for a certain application requires writing in the confirmation of order. Finally we recommend user-specific measurements under genuine operating conditions.

Original → chainflex R&D



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2. Cable and hose packages:

No. 1: 1x CFBUS.052 with the cable marking

01025*m* igus chainflex CFBUS.052 (4x(2x0,15)C)C E310776 N c**A**Lus AWM Style 21235 VW-1 AWM I/II A/B 80°C 300V FT-1 CE N P/CF DESINA Ethernet / CAT7 conform RoHS-II conform www.igus.de

3. Description of the cable construction:

Standard igus chainflex[®] catalogue cable

4. Remarks:

The following charts give an overview regarding the test parameters:

Cable no.	Cable type	e-chain radius External diameter [mm] [mm]		Bending Bending fac factor [xd] catalogue [
1.X	CFBUS.052	100	10,2	9,8	12,5

Cab	Cable	le no Cable type		Counter reading		E	ffectively	Cable okay after strokes	
	Cable 110. Cable type			mounting	demountii	ng test	ed strokes		
	1.1 CFBUS.052		92.520.886	33.814.70	6 41	.293.820	41.293.820		
T	Test-order was checked by … [Martin Göllner or Christian Mittelstedt and further employee]								
D	ate:	28.05	5.2013	Name:			Name:	Jakob Gö	dde

Result

Start report 10.06.2013:

At the 10.06.2013 we started the test 5006a at counter reading of 92.520.886 double strokes, and we will make an optical check regularly.

Interim report 28.06.2013

At the 28.06.2013 we checked the cable 1.1 after 1.169.132 double strokes. The specimen looks well and shows no abrasion.

Interim report 16.08.2013

At the 16.08.2013 we checked the cable 1.1 at counter reading 94.728.100, after 4.414.428 double strokes. The specimen looks well and shows no abrasion.

Interim report 06.12.2013

At the 06.12.2013 we checked the cable 1.1 after 5.616.154 double strokes. The specimen looks well and shows no noteworthy abrasion.

Interim report 04.04.2014

At the 04.04.2014 we checked the cable 1.1 after 18.340.188 double strokes. The specimen looks well and shows no noteworthy abrasion.

Christian. Mittelstedt 30.09.2013

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Interim report 01.08.2014:

At the 01.08.2014 we checked the cable 1.1 after 25.763.988 double strokes. The specimen looks well and shows no immoderate abrasion.

End report 16.04.2015:

At the 16.04.2015 we demounted the cable 1.1 at counter reading 33.814.706 double strokes, after 41.293.820 double strokes. The specimen looks well and shows no immoderate abrasion.