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Test Intention	Test	Inten	tion:
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In test 2233 we want to investigate the lifespan of a CF5.10.25 in an e-chain with 100mm radius on the short way.

Client:						
Name: Martin Göllner	Team: chainflex	®	Date:	29.11.2005		
Order-Info:						
Customer / No.: igus [®] GmbH, Spicher Str.1a, 51147 Köln						
Series / No: CF5.10.25		Installation type: horizon	tal short wa	ay		
Customer test: Yes	No 🖂	Development test:	Yes ⊠ No) [
Technical data		Target & Examination				
e-chain [®] type: 250.10	.100.0	Cable length [m]:	5,0			
e-chain [®] radius [mm]: 100		Target [strokes]:	Lifespan	l		
Stroke [m]: 1,5		Optical check:	\boxtimes			
Acceleration a [m/sec ²]: 7,5		Function check:				
Velocity v [m/s]: 2,0		Standard measuring:	\boxtimes			
Ambient temperature [°C]: approx	. 25°C	AutΩMeS:				
Experimental setup						
Checklist for the experimental preparations						

1. Construction:

The following pictures show the test laboratory and test machine, the "2m Bahr".









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2. Cable and hose packages:

No. 1: 2x CF5.10.25 with the cable marking

IGUS CHAINFLEX CF5.10.25 25x1,0 E310776 яU AWM I/II A/B 80°C 600V FT1 CE

3. Description of the cable construction:

Standard igus chainflex[®] catalogue cable. Construction details see catalogue 04/2008 page 58 and follow.

4. Remarks:

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	CF5.10.25	100	19,0	5,3	6,8
1.2	CF5.10.25	100	19,0	5,3	6,8

Cable no.	Cable type	Counter reading		Effectively	Cable okay
Cable 110.	Cable type	mounting	demounting	tested strokes	after strokes
1.1	CF5.10.25	32.111.280	73.649.736	41.538.456	41.538.456
1.2	CF5.10.25	32.111.280	73.649.736	41.538.456	41.538.456

Test-order was checked by [Martin Göllner or Christian Mittelstedt]and further employee]					er employee]
Date:	09.12.2005	Name:		Name:	Nahrwold

Result

Start report 09.12.2005:

At the 09.12.2005 we started test 2233 at counter reading 32.111.280 strokes. We will make a visual check regularly.

Interim report 23.10.2008:

At the 23.10.2008 we demounted the cables after 41.538.456 strokes, to finalize the test.

Cable no.	Coble type	Counter reading		Effectively Ca	Cable okay
Cable 110.	Cable type	mounting	demounting	tested strokes	after strokes
1.1	CF5.10.25	32.111.280	73.649.736	41.538.456	41.538.456
1.2	CF5.10.25	32.111.280	73.649.736	41.538.456	41.538.456





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Evaluation

Dissection report:

The following pictures show the dissected elements of the cables

The condition of the cable no. 1.1 (CF5.10.25) after 41.538.456 strokes



The outer jacket



Stranding (bundles)



Centre element



Copper conductor





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Overview of the dissected pieces of cable of no. 1.1 CF5.10.25 after 41.538.456 strokes

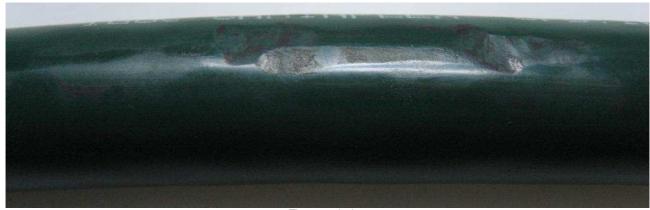
Strokes	41.538.456
Condition outer jacket	Ok
Condition centre element	Ok
Dundle	
Bundle	
Condition core insulation	Ok





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The condition of the cable no. 1.2 (CF5.10.25) after 41.538.456 strokes



The outer jacket



Stranding (bundles)



Centre element



Copper conductor





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Overview of the dissected pieces of cable of no. 1.2 CF5.10.25 after 41.538.456 strokes

Strokes	41.538.456
Condition outer jacket	Ok
Condition centre element	Ok
Bundle	
Condition core insulation	Ok
Condition conductor	OK

ame: Ch. Mittelstedt Date	06.11.2012
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