



4221

Test No.:

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Test Intention:

In this test 4221 we want to investigate the lifespan of our CF240.PUR in an e-chain with 75mm radius.

Client:							
Name: C. Mittelstedt	Team: chain	flex®	Date:	05.09.2011			
Order-Info:							
Customer/ No.: igus GmbH; Spicher Str. 1a; 51147 Köln							
Series / No: CF240.PUR	Installation type: horizontal, short way						
Customer test: Yes 🗌 No 🛛		Development test: Yes	🛛 No 🗌				
Technical data		Target & Examination					
E-Chain type: 255.10.075.0		Target [strokes]: Lif	espan				
E-Chain Radius [mm]: 75		Optical check: 🛛					
Stroke [m]: 1,5		Function check:					
Ambient temperature [°C]: approx. 25°C		Standard measuring: 🛛					
Cable length [m]: 3,00		AutΩMeS: 🗌					
Experimental setup (Sketch, Photo)							
Checklist for the experimental preparations							

1. Construction:

This test is built up on the "Zollern". The following pictures show the test structure:



Ch. Mittelstedt/Versuch/10.12.2021

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.

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Test-Report chainflex[®]



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2. Cable and hose packages:

No. 1: **3x CF240.PUR.02.18** with the cable marking 00310 igus CHAINFLEX CF240.PUR.02.18 (18x0,25)C E310776 cURus AWM STYLE 20233 VW-1 AWM I/II A/B 80°C 300V FT1 CE F N/DB 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:

	ible o.	Cable type	Э.	E-chain radius [mm]	Outer diameter [mm]	Bend	ding factor [xd]	Bending factor catalogue	
1	.1	CF240.PUR.0	02.18	75	8,8		8,5	10,0	
Cable no.	Cable type		Counter reading		E	Effectively	Cable okay		
Cabi	Capie IIO.	Cable type		mounting	demounting	test	ed strokes	after strokes	
1	.1	CF240.PUR.	02.18	73.351.537	103.893.423	30	.541.886	30.541.886	
Test-o	Fest-order was checked by [Rainer Rössel or Martin Göllner and further employee]								
		9.2011	Name:			me:	C. Mittelst		





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Result

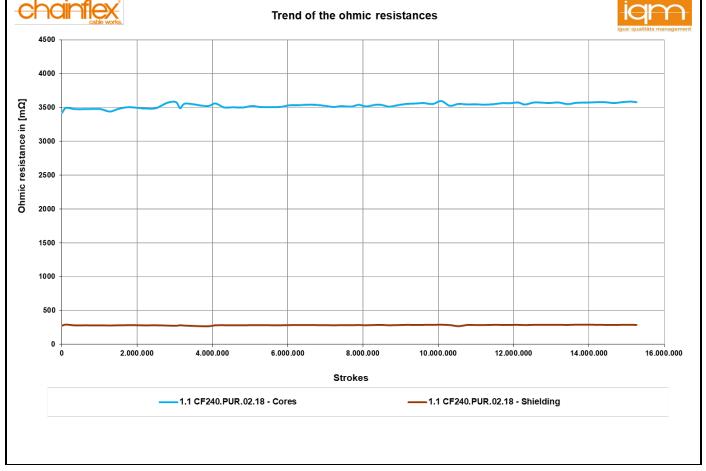
Start Report 16.09.2011:

At the 16.09.2011 we started the test 4221 at a counter reading 73.351.537, we will measure the ohmic resistance regularly.

Interim Report 05.02.2013:

At the 05.02.2013 we demounted the cable after 30.541.886 strokes, to finalize the test.

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



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.





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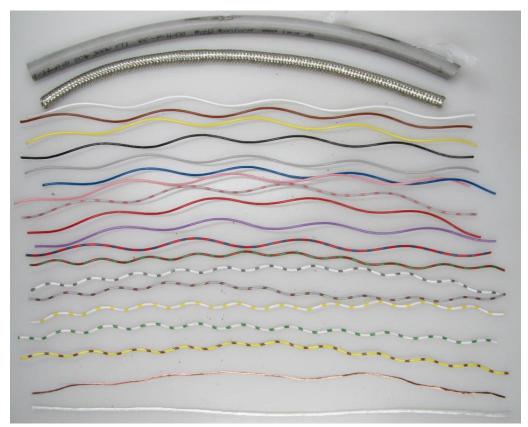
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Evaluation

Dissection Report:

The following pictures show the condition of dissected cables

The condition of the cable no. 6.1 (CF240.PUR.02.18) after 30.541.886 strokes



Strokes	30.541.886
Condition outer jacket	Slightly abrasion
Condition overall shielding	О.К.
Condition banding	О.К.
Condition core insulation	0.K.
Condition conductor	О.К.
Condition centre element	О.К.

Name: C. Mittelstedt

Date: 05.02.2013