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3486

Test Intention:

In test 3486 we want to investigate the lifespan of our CFROBOT8.045 in a torsion application with ± 180°.

Client:							
Name: Rainer Rössel	Team:	chainflex	®	Date:	15.09.2009		
Order-Info:							
Customer / No.: igus® GmbH, Spicher	Str.1a, 511	47 Köln					
Series / No: CFROBOT8			Installation type: Torsion	, ±180°			
Customer test: Yes	No 🖂		Development test:	Yes 🛛 N	o 🗌		
Technical data			Target & Examination				
e-chain [®] type: TRC.10	00		Target [cycles]:	Lifespar	1		
e-chain [®] radius [mm]: -/-			Optical check: 🖂				
Angle [°/m]: ± 180			Fluke DTX-ELT:	\boxtimes			
Cable length [m]: 4,0			Standard measuring:				
Ambient temperature [°C]: approx.	25°C		AutΩMeS:				
Experimental setup				-			
Ambient temperature [°C]: approx. 25°C AutΩMeS: □ Experimental setup Checklist for the experimental preparations							

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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2. Cable and hose packages:													
No. 1: 1x CFROBOT8.045 with the cable marking igus chainflex CFROBOT8.045 (4x2xAWG26)C CE E L/CF CAT5e conform RoHS conform www.igus.de													
<u>3. Des</u> Stand	3. Description of the cable construction: Standard igus chainflex [®] catalogue cable												
<u>4. Remarks:</u> The CFROBOT8.045 was ready made with CAT5e connectors, we will check the electrical parameters regularly with the Fluke DTX-ELT Analyzer.													
		Cable no.	Cable type		, Extern		al diameter [mm]	Torsion		ı	Bending factor catalogue		
		1.X	CFF	ROBOT8.045			8,3		± 180° 1		0,0		
Cab	le no).	Cable type CFROBOT8.045		Counter reading			Effectively		vely	Cable okay		
1	1.1	С			mounting 9.954.353		demounting 31.964.575		22.010.222		22.010.222		
L													
Test-order was checked by [Martin Göllner or Christian Mittelstedt and further employee]													
Date:	m	Jartin Göll	ner	Name:				Name:		15.0)9.2009		

Result

Start Report 15.09.2009:

At the 15.09.2009 we started the test 3486 at a counter reading of 9.954.353 cycles, we will measure the cable parameters regularly with the Fluke DTX-ELT.

Interim Report 09.02.2012:

At the 09.02.2012 we demounted the cable no. 1.1 after 22.010.222 cycles, because we want to finalize the test.

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Evaluation

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Dissection Report 02.03.2012:

The following pictures show the dissected pieces of the cable

The condition of the cable no.1.1 (CFROBOT8.045) after 22.010.222 cycles



Overview of the dissected pieces of the cable no.1, CFROBOT8.045.

DS: 22.010.222	Upper fixed point	Middle of the tested cable	Lower fixed point	
Outer jacket	O.K.	О.К.	O.K.	
Fillers	O.K.	О.К.	O.K.	
Centre element	O.K.	0.K.	O.K.	
Condition shielding	Single broken wires	damaged	O.K.	
PTFE tapes	O.K.	0.K.	O.K.	
Condition core insulation	O.K.	0.K.	O.K.	
Condition conductor	O.K.	0.K.	O.K.	

Name:	R. Thof	Date:	02.03.2012

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