| page 1 of 4 | Test No.: | 4011 |
| :--- | :---: | :---: |

## Test Intention:

In test 4011 we want to investigate the lifespan of the CFLG.2LB.50/125 and CFLG.2LB.62,5/125 in a small bending radius.


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| :--- | :---: | :---: |

## 2. Cable and hose packages:

No. 1: 1x CFLG.2LB.50/125 with the cable marking
2427m igus CHAINFLEX CFLG.2LB50/125 2x50/125 CE RoHS conform www.igus.de 70247.01
No. 2: 1x CFLG.2LB.62,5/125 with the cable marking
$0091 m$ igus CHAINFLEX CFLG.2LB.62,5/125 2x62,5/125 CE RoHS conform www.igus.de 70263.01

## 3. Description of the cable construction:

Standard igus chainflex ${ }^{\circledR}$ catalogue cable.

## 4. Remarks:

The following chart gives an overview regarding the test parameters:

| Cable <br> no. | Cable type. | E-chain radius <br> $[\mathrm{mm}]$ | Outer diameter <br> $[\mathrm{mm}]$ | Bending factor <br> $[\mathrm{xd}]$ | Bending factor <br> catalogue $[\mathrm{xd}]$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1.1 | CFLG.2LB.50/125 | 35 | 8,3 | 4,2 | 5,0 |
| 2.1 | CFLG.2LB.62,5/125 | 35 | 8,4 | 4,2 | 5,0 |


| Cable no. | Cable type. | Counter reading |  | $\begin{array}{c}\text { Effectively } \\ \text { tested strokes }\end{array}$ | $\begin{array}{c}\text { Cable okay after } \\ \text { strokes }\end{array}$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\ldots$ mounting | $\ldots$ demounting |  |  |$]$

Test-order was checked by ... [Rainer Rössel or Martin Göllner and further employee]

| Date: | $\mathbf{3 1 . 0 1 . 2 0 1 1}$ | Name: |  | Name: | Ch. Mbittelstedt |
| :--- | :--- | :--- | :--- | :--- | :--- |

## Result

## Start Report 07.02.2011:

At the 07.02 .2011 we started test 4011 with a counter reading of 25.731 .514 , we will measure the function regularly.

## Interim Report 12.03.2012:

At the 12.03.2012 we demounted the cable no. 1.1 and 2.1 after 50.012 .352 strokes, to finalize the test.

## Test-Report chainflex ${ }^{\circledR}$

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| :--- | :---: | :---: |

## Evaluation

The following pictures show the cable sample
The condition of the cable no.1.1 (CFLG.2LB.50/125) after 50.012 .352 strokes


The following occurrence diagram shows exemplarily one direction of fibre no. 1:

H-Skala:10m/div V-Skala:2.5dB/div


| External measuring results after 50.012.352 strokes |  | Total loss [dB] |
| :---: | :---: | :---: |
| CFLG.2LB.50/125 | Fibre 1 | 0,52 |
| CFLG.2LB.50/125 | Fibre 2 | 0,89 |


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| :--- | :--- | :--- |

The condition of the cable no.1.2 (CFLG.2LB.62,5/125) after 50.012 .352 strokes


The following occurrence diagram shows exemplarily one direction of fibre no. 2:


| External measuring results after 50.012.352 strokes |  | Total loss [dB] |
| :---: | :---: | :---: |
| CFLG.2LB.62,5/125 | Fibre 1 | 0,49 |
| CFLG.2LB.62,5/125 | Fibre 2 | 0,34 |


| Name: | Ch. Mittelstedt | Date: | 10.08 .2012 |
| :--- | :--- | :--- | :--- |

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.

