



4428

Test No.:

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#### **Test Intention:**

In test 4428 we want to investigate maximum tensile force of CFSPECIAL.182.045 comparing to CFBUS.045.

Client:							
Name: Rainer Rössel	Team: chainflex	®	Date: 19.09.2012				
Order-Info:							
Customer/ No.: igus® GmbH, Spicher Str.1a 51147 Köln							
Series / No: CFSPECIAL, CFBUS		Installation type: vertical hanging					
Customer test: Yes	No 🖂	Development test:	Yes 🛛 No 🗌				
Technical data		Target & Examination					
e-chain <sup>®</sup> type: -/-		Cable length [m]	: 5,0				
e-chain <sup>®</sup> radius [mm]:   -/-		Target	Maximum tensile force				
Stroke [m]: -/-		Optical check	:: 🛛				
Ambient temperature [°C]: approx	. 25°C	Fluke DTX-ELT					
Experimental setup (Sketch, Photo .	)						
Checklist for the experimental preparations additional inscription/label at all wires correct electrical connection of all wires radius was marked at the cables and the energy chain  A. Construction: This test is built up on the "Zwick". The following picture shows 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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#### 2. Cable and hose packages:

#### No. 1: 1x CFSPECIAL.182.045 with the cable marking

00831m igus chainflex CFSPECIAL.182.045 (4x2x0,15)C E310776 N C**я**Jus AWM Style 20236 VW-1 AWM I/II A/B 80°C 30V FT-1 CE N O/CJ Ethernet/CAT5 conform RoHS-II conform www.igus.de

#### No. 2: **1x CFBUS.045** with the cable marking 013380m igus CHAINFLEX CFBUS.045 (4x2x0,15)C E310776 CFUus AWM Style 21371 VW1 AWM I/II A/B 80°C 30V FT-1 CE N N/DH DESINA Ethernet/CAT5 conform RoHS conform www.igus.de

### 3. Description of the cable construction:

CFSPECIAL.182.045 ready-made with CAT9040020 CFBUS.045 ready-made with CAT9240020

#### 4. Remarks:

We install each cable sample with one of the strain reliefs and pull them with 100N. After pulling it, we will make a function check with the Fluke DTX-ELT. We will repeat the procedure and raise the tensile force in certain steps until the function of the samples isn't given any more.

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The following chart gives an overview regarding the test parameters:

Cable no.	Cable type	Outer diameter [mm]	Strain relief	Tested tensile force [N]
1.1	CFSPECIAL.182.045	9,4	Pulling grip	2800
1.2	CFSPECIAL.182.045	9,4	Pulling grip	2800
2.1	CFBUS.045	7,9	Pulling grip	600
2.2	CFBUS.045	7,9	Pulling grip	561

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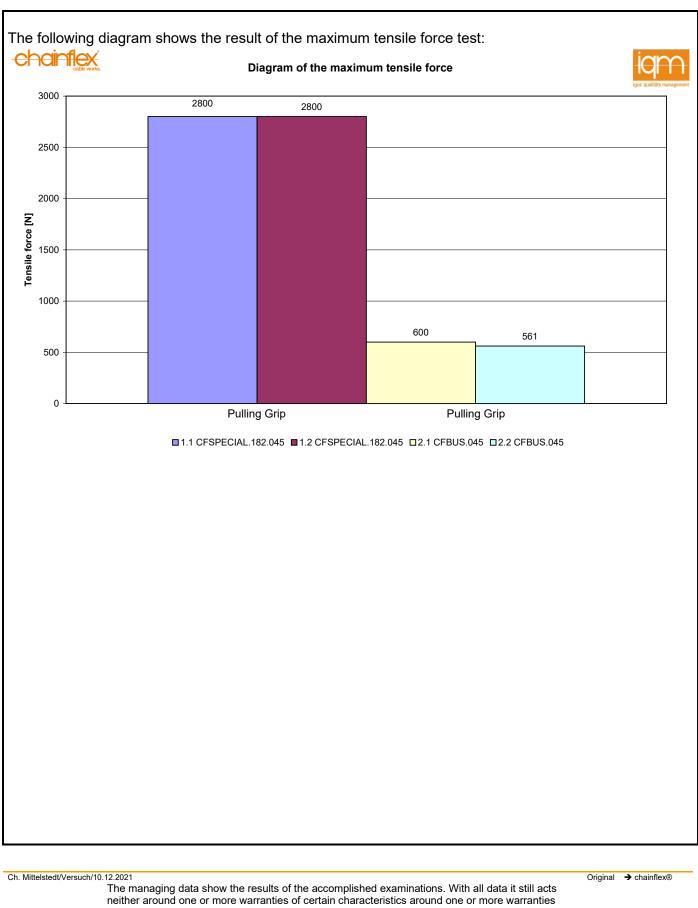


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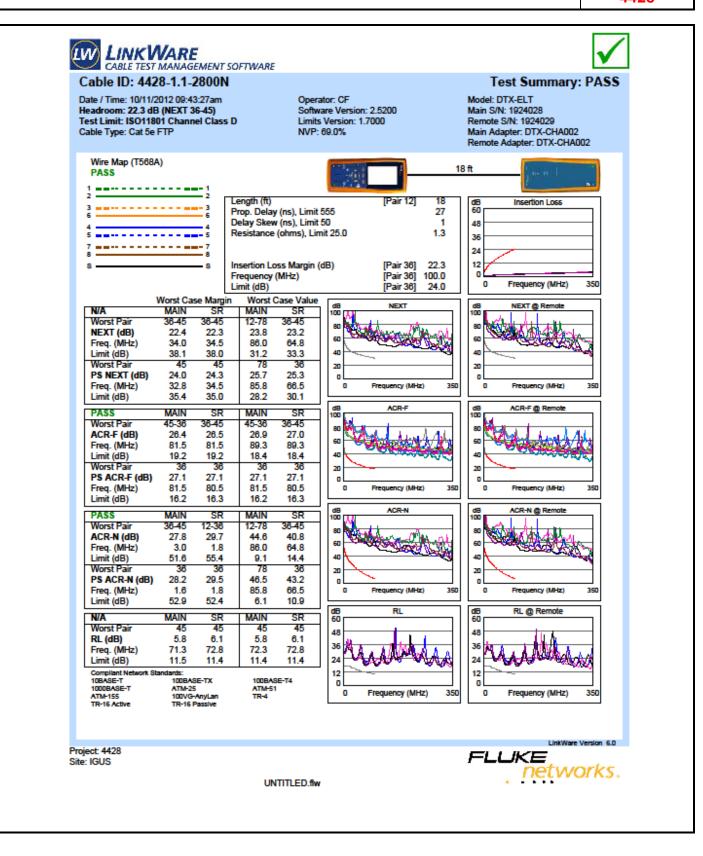
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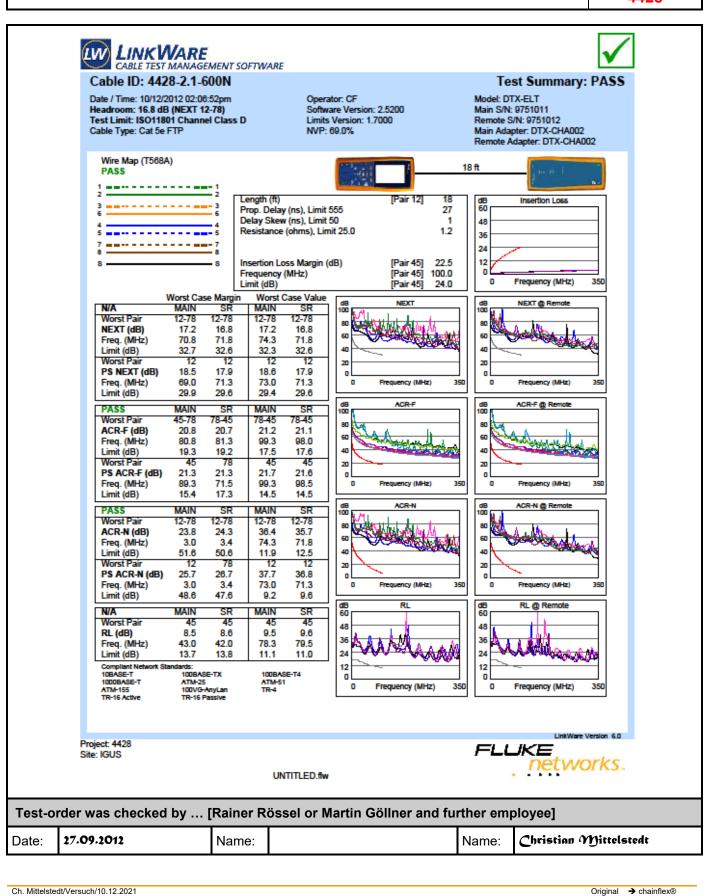
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