Auftrag Nr.:

Blatt 1

ame: Rainer Rössel		Date: 3	30.01.2012			
rder-info		Dute. (50.01.2012			
	Onich en Ota da	54447 Oala ana				
Istomer no.: igus GmbH, S	Spicher Str. 1a,	51147 Cologne				
marks: The CF98.05.04 w	as mounted in a	a cable reel appli	ication in horizor	ntal direction.		
ants: 🗌 No, 🗌 Visit repor	t, 🛛 Fax/letter,	🗌 Photo, 🗌 Vid	leo, 🛛 Others_	sample of c	ables	
echnical Data						
cle no.:		CF98.05.04				
ending radius / reel diameter: able diameter:		-	D2 = D3 = 40mm approx. 6,0 mm			
Sable diameter:		> 2.000.00				
Cable length:		approx. 6,2				
roke:		approx. 1,	5m			
voluction.						
valuation:	🛛 Yes / 🗌 No	Interior et	ructure in orde	r □∨	′es / 🖂 No	
				· <u> </u>		
03				er unit		
easurements:	Schlitten / slide		X = max. Hub / max.			
easurements: le ohmic resistance of sp	Schlitten / slide		X = max. Hub / max.	stroke	vollow	
easurements: e ohmic resistance of sp Core co	Schlitten / slide	white	X = max. Hub / max.	stroke	yellow 0.308	
easurements: ne ohmic resistance of sp	Schlitten / slide	white 0,313	X = max. Hub / max.	stroke	yellow 0,308	
easurements: le ohmic resistance of sp Core co Ohmic resist	Schlitten / slide	white 0,313	X = max. Hub / max.	stroke		
asurements: e ohmic resistance of sp Core co Ohmic resist e ohmic resistance of sp Core co	Schlitten / slide	white 0,313	X = max. Hub / max.	stroke	0,308	
easurements: ne ohmic resistance of sp Core co Ohmic resist ne ohmic resistance of sp Core co Ohmic resist ne outer diameter of the ameters at different posi	Schlitten / slide	white 0,313 white 0,312 en reduced in t	X = max. Hub / max. brown 0,307 brown 0,294 he bended are	stroke	0,308 0,308 0,301	
easurements: ne ohmic resistance of sp Core co Ohmic resist ne ohmic resistance of sp Core co Ohmic resist ne outer diameter of the	Schlitten / slide	white 0,313 white 0,312 en reduced in t	X = max. Hub / max. brown 0,307 brown 0,294 he bended are Diameter [mm	stroke green 0,311 green 0,304 a. The followin	0,308 vellow 0,301	
easurements: ne ohmic resistance of sp <u>Core co</u> Ohmic resist ne ohmic resistance of sp <u>Core co</u> Ohmic resist ne outer diameter of the ameters at different posi	Schlitten / slide	white 0,313 white 0,312 en reduced in t	X = max. Hub / max. brown 0,307 brown 0,294 he bended are	stroke	0,308 0,308 0,301	

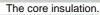
Blatt 2

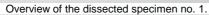
Dissection:

The dissected pieces of the cables are taken out of the position from 65cm to 105cm, measured from the end of the loop (moving side // weight)!

Dissection of the specimen no. 1, CF98.05.04:

Condition outer jacket	ОК
Condition core insulation	ОК
Condition core stranding	ОК
Condition centre element	ОК







Close-up view of the dissected elements of specimen no. 1.



Auftrag Nr.:

Blatt 3

von 3

Dissectio	n of the specimen no. 2, CF98.05.0	<u>4:</u>					
	Condition outer jacket	OK					
	Condition core insulation	OK					
	Condition core stranding	OK					
	Condition centre element	OK					
and the second							
-		and the second					
	and the second sec	and the second se					
	The core insulation.						
-							
/	Overview of t	he dissected specimen no. 2					
		ne dissected specimentilo. 2					
		and the second of the second					
	· · ·						
	and a second	and the second se					
	Close-up view of the d	lissected elements of specimen no. 2.					
L							

Final assessment:

In this evaluation we have analyzed two pieces of the CF98.05.04, which were tested in the described reel application. The outer diameter of both cables got little smaller in the bended area. We noticed some damages at the core insulation of one sample but not at the conductors.

Cologne, 30th of January 2012 research & development chainflex[®] cables