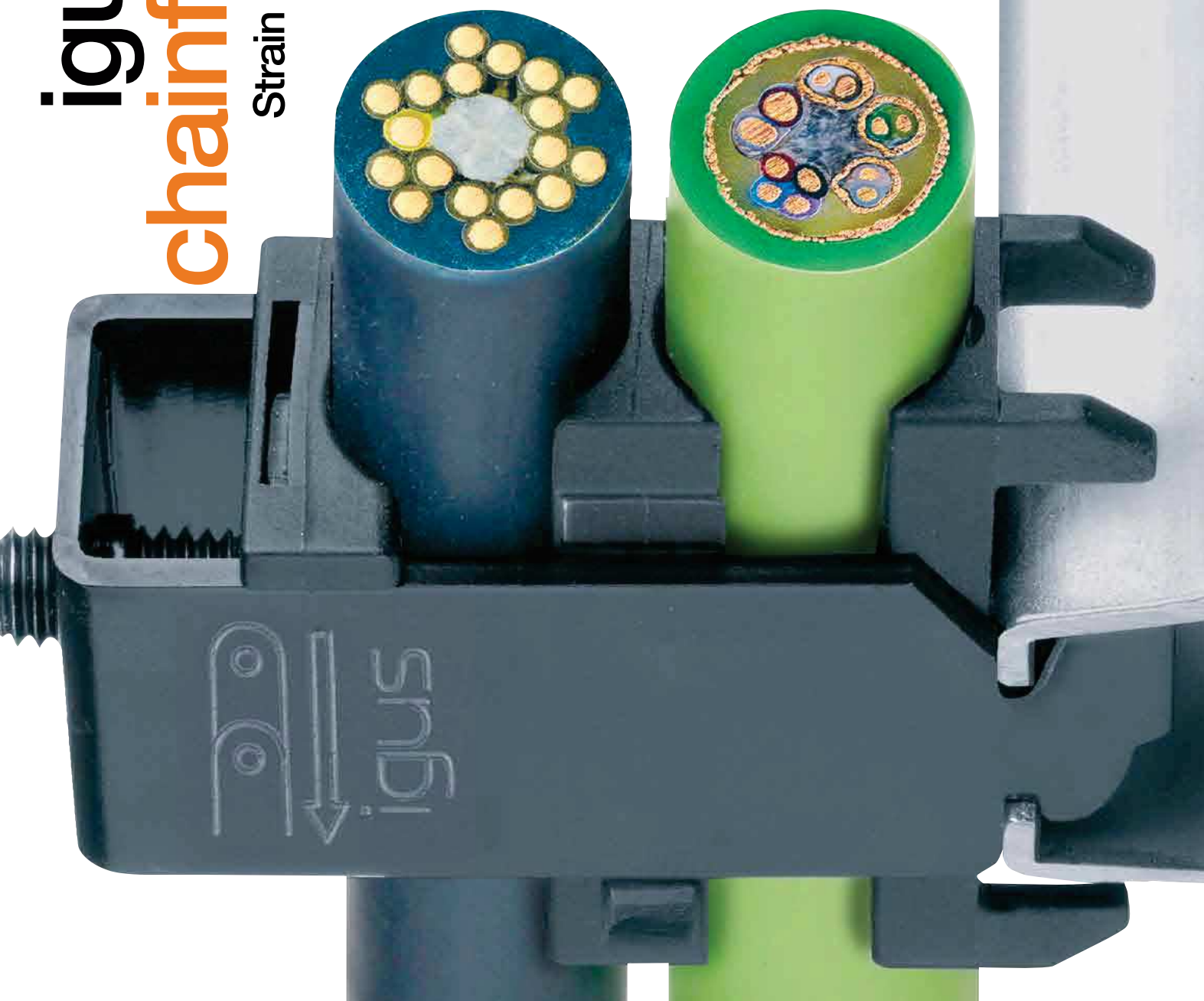


igus[®] chainfix

Strain relief



chainfix strain-relief systems | Overview

Clamps, steel or stainless steel - For maximum tensile strength ▶ Page 750



Clamps, saddles and bases

	ø [mm]
CFX* Single, double, triple standard clamps	6-42
CFXL* Single, double, triple clamps with wide base for maximum tensile forces	6-42
Clamp elements - saddles and bases	6-42
chainfix Multi-Clamps*	6-12

C-profiles ▶ Page 756



Standard C-profiles and C-profiles for heavy-duty applications

Standard C-profiles part no. CF.92.42. (to be integrated into KMAI)

C-profiles part no. CF.92.52. With increased retention force (assembly outside e-chain®)

Universal tiewrap clamps, screw or clip mounted ▶ Page 758



chainfix tiewrap plates

Option 1A: Tiewrap plates as single part "Series 2000" + cable tiewraps

Option 1B: Tiewrap plates as single part "Series 3000" + cable tiewraps

Cable tiewraps as single part max. 36

Tiewrap plates, with clip-on connection for the C-profile ▶ Page 760



chainfix tiewrap plates

Option 2: Tiewrap plates with clip-on connection for the C-profile

Option 3: Integrated strain relief for E2 e-tubes - Series R

Option 4: Tiewrap plates for fixed crossbars

Option 5: Tiewrap plates for opening crossbars

Clips - High tensile strength, modular clip-on strain relief ▶ Page 762



chainfix clips

Option 1: for all e-chains® with C-profiles and also suitable for assembly in the KMA mounting brackets

Option 2: Clip-on strain relief for opening crossbars

	ø [mm]
	4-24

Strain relief separators - with integrated teeth ▶ Page 764



chainfix strain relief separator

Separator with integrated strain relief - for easy strain relief with cable ties

Nuggets - for top hat rail and C-profile ▶ Page 766



chainfix nuggets

Option 1: simple and universal cable fixation, for diameter with Ø 20 mm and Ø 30 mm

Option 2: Fastening through clipping onto standard top hat rail

	ø [mm]
	≤ 30

≤ 20

Strain relief blocks - special strain reliefs for hoses ▶ Page 767



Blocks

Conventional igus® blocks - strain relief for hoses

CFB polymer strain relief connector system,

for many cables in a confined space

	ø [mm]
	4.3-14

*Standard material: galvanised steel. Also available as stainless steel-version (material stainless steel: 1.4301/AISI 304)

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[illegible]

Counting brackets with C-profile-host option!

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= Recommended strain relief for selected e-chain®

* Half e-tube only

1) you'll find on subsequent pages

2) you'll find on the product page of each e-chain® series

					
for all KMA* -profile metal mounting bracket	Tiewrap plates screwed, clip-on easychain®, E2/000, E2 e-tubes, E4, E6	Clips for C-profile or clip-on E4, E6, for all KMA* with C-profile Polymer metal mounting bracket	Nuggets Strain relief nuggets For all KMAs* with C-profile, top-hat rails Polymer metal mounting bracket	Strain relief separators E2/000, E2 e-tubes, E6, T3	CFB strain relief connector system E4, E6, for all KMA* with C-profile Polymer metal mounting bracket
Standard for many applications with medium acceleration. For unsupported, gliding, hanging and standing cables. applications in general machinery and machine tools, hydraulic tools. For cables next to each other. Also available as single parts, for example for cabinets, etc.	Standard for many applications with medium acceleration. For unsupported, gliding, hanging and standing cables. applications in general machinery and machine tools, hydraulic tools. For cables next to each other. Also available as single parts, for example for cabinets, etc.	Cost-effective, space-saving strain relief for many applications with medium accelerations. For stacked cables, or cables with the same diameters.	Cost-effective, fast strain relief for simple applications with confined space requirements at medium accelerations. Also available as single parts for rigid linings, such as in cabinets, etc.	Combination of separator and strain relief, ideal for confined space requirements. For applications with medium accelerations. For smaller cable diameter. Ideal for e-tubes. For machine tools and automation.	Space-saving, modular strain relief with many cables in confined spaces. For applications with high accelerations and loads, e.g. machine tools.
For large cable diameters	For large cable diameters	Under high loads	Under high loads	Under high loads	No limitation
+	+	+ -	+ -	+	+ -
+	-	+ -	-	-	+
yes	yes	yes	yes	yes	yes (special fabrication)
1 to very high	high	medium	high	high	high to very high

3 were tightened with
wrenches tightened by hand.

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id installation Excellent durability for
space saving dynamic applications

3 host-option
xt installation direction
ight

d preassembled strain relief

ation
stacker elements:

roves the clamp's stability
reases the reliability
ables within the strain relief
or heavy-duty applications
3 e-chain® -
with C-profile host-option!)

irs or same day!
chnical feasibility)

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chainfix strain relief | Clamps

Product range and materials

- Steel clamp: clamp and screw black painted steel
- Stainless steel clamp: clamp and screw: blank (material 1.4301/AISI 304)
- Stacker elements: bottom saddle and stacker saddle (material igumid G)
- C-profiles: steel (material galvanised steel) or stainless steel (material 1.4301/AISI 304) available

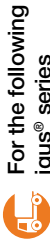
Installation height

If the e-chain® glides on itself for long travels, the screw heads of the strain relief at the fixed end of the e-chain® must have a distance of at least 10 mm below the top of the e-chain®. As a consequence of this, many strain relief elements described here may not be suitable for use at the fixed end on gliding e-chains®. For unsupported e-chains® these strain relief elements can be used safely.



Please note!

- The cables should ideally be fixed at both ends of the e-chain®.
- The minimum should be to be fixed at the moving end of the e-chain®.**
- When using chainfix clamps on C-profiles in the mounting bracket for the Series: E4.32/H4.32/R4.32, 280/290 R770, 2828/2928/R7728 a shortened bottom saddle must be used. For shortened bottom saddles supplement part no. with index "K" = Example: Part no. CFX12.1K



For the following
igus® series

E2/000
● 2400/2500/2450/2480
● 2600/2700/2650/2680
● 3400/3500/3450/3480
E4.1
● E4.32/H4.32/R4.32
● E4.42/H4.42/R4.42
● E4.56/H4.56/R4.56
● E4.80/H4.80/R4.80
E4/light
● 14040/14140/18840
● 14240/14340
● 14550/14650/19050
● 15050/15150/19850
● 15250/15350
E4/00
● 280/290/R770
● 380/390/R780
● 400/410/R880
E4/4
● 2828/2928/R7728
● 3838/3938/R7838
● 4040/4140/R8840
● 5050/5150/R9850
E6
● E6.40
● E6.52 / R6.52
● E6.62
● E6.80L
● E6.80



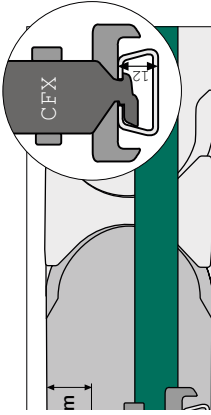
CFX - chainfix housing with reduced height



KMA mounting bracket with integrated C-profile and chainfix clamps

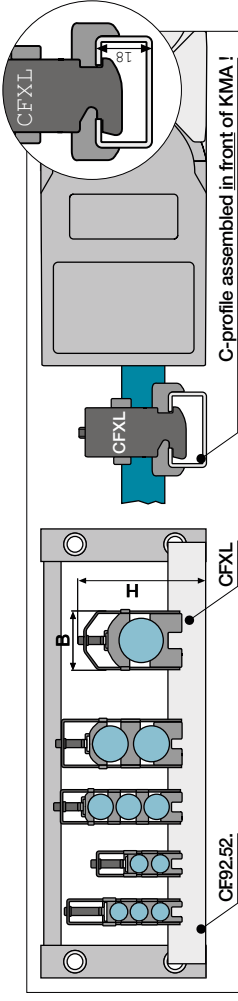


Save both time and space during installation of igus® chainfix clamps

chainfix strain relief | Optional | **CFXL clamps**

C-profile can be integrated into KMA!

3 diameter.
ights. Tightening torque 1.5Nm for CFX clamps.



52.

The dimensions given for H in the tables are based on the maximum cable diameter. Cables with smaller diameters may result in lower overall clamp housing heights. Tightening torque 1.5 Nm for CFXL clamps.

CFXL | Clamps with wide base for increased holding power

Suitable for C-profiles CF.92.52.XX - C-profile assembled in front of KMA! NO KMA-integration!

ed into KMA with C-profile-option!



ø [mm]	B+2 [mm]	H [mm]
- 26	30	67
- 30	34	71
- 34	38	75
- 38	42	79
- 42	46	83

steel: 1.4301/ANSI 304



addles	ø mm	B ⁺² [mm]	H [mm]
	- 22	26	90
	- 26	30	109
	- 30	34	117
	- 34	38	125

steel: 1.4301/ANSI 304



diles			
Ø	B ⁺²	H	
mm	mm	mm	
- 18	22	108	
- 20	24	114	
- 22	26	120	



Page 732

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CFXL - Single clamp housing, incl. bottom saddles									
Part no. steel	Part no. stainless steel*	ø [mm]	H ^{1/2} [mm]	H [mm]	Part no. steel	Part no. stainless steel*	ø [mm]	H ^{1/2} [mm]	H [mm]
CFXL14.1	CFXL12.1E	06 - 12	16	60	CFXL26.1	CFXL26.1E	26 - 26	30	73
CFXL14.1	CFXL14.1E	12 - 14	18	58	CFXL30.1	CFXL30.1E	26 - 30	34	77
CFXL16.1	CFXL16.1E	14 - 16	20	56	CFXL34.1	CFXL34.1E	30 - 34	38	81
CFXL18.1	CFXL18.1E	16 - 18	22	60	CFXL38.1	CFXL38.1E	34 - 38	42	85
CFXL20.1	CFXL20.1E	18 - 20	24	62	CFXL42.1	CFXL42.1E	38 - 42	46	89
CFXL22.1	CFXL22.1E	20 - 22	26	64					

*Material stainless steel: 1.4301/AISI 304

*Material stainless steel: 1.4301/AISI 304

CFXL - Double clamp housing, incl. bottom and stacker saddles

Part no. steel	Part no. stainless steel*	ø [mm]	H [mm]	Part no. steel	Part no. stainless steel*	ø [mm]	H [mm]				
CFXL14.2	CFXL14.2.E	06	12	16	78	CFXL22.2	CFXL22.2.E	20	22	26	86
CFXL14.2	CFXL14.2.E	12	14	18	80	CFXL26.2	CFXL26.2.E	22	26	30	115
CFXL16.2	CFXL16.2.E	14	16	20	84	CFXL30.2	CFXL30.2.E	26	30	34	123
CFXL18.2	CFXL18.2.E	16	18	22	86	CFXL34.2	CFXL34.2.E	30	34	38	131
CFXL20.2	CFXL20.2.E	18	20	24	92						

*Material stainless steel: 1.4301/AISI 304



CFXL - Triple clamp housing, incl. bottom and stacker saddles

Part no. steel	Part no. stainless steel*	ø [mm]	H [mm]	Part no. steel	Part no. stainless steel*	ø [mm]	H [mm]
CFXL12.3	—	06 - 12	16 106	CFXL18.3	—	16 - 18	22 114
CFXL14.3	—	12 - 14	18 102	CFXL20.3	—	18 - 20	24 120
CFXL16.3	—	14 - 16	20 108	CFXL22.3	—	20 - 22	26 126

*Material stainless steel: 1.4301/AISI 304



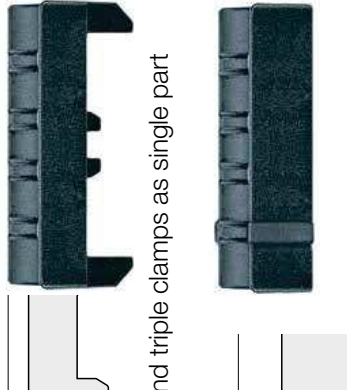
Suitable C-profiles for CFXL clamps part no. CF.92.52. ► Page 732

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single part

single part



multiple clamps as single part

multiple clamps as single part



Part no. bottom saddle	CDXX stacker saddle	CD.XX.C stacker saddle	Cable Ø [mm]
26.X	CG26	CD26	CD.26.C* 22 - 26
30.X	CG30	CD30	CD.30.C* 26 - 30
34.X	CG34	CD34	CD.34.C* 30 - 34
38.X	CG38	-	34 - 38
42.X	CG42	-	38 - 42

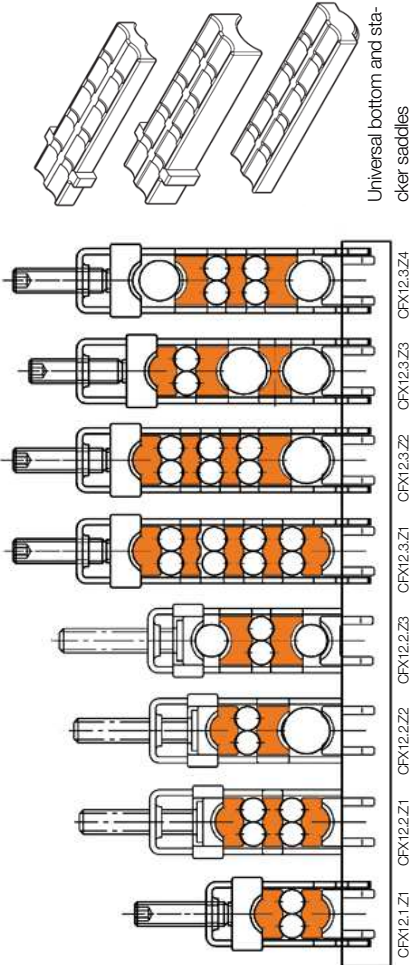
*Bracket for Series E4.32/H4.32/R4.32, 280/290/
used. For shortened bottom saddles supplement

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- Characteristics of igus® chainfix multi-clamps**
- Now more flexible options of the proven chainfix strain relief elements with more components
 - Universal strain relief – more assembly options
 - Saves both time and space during installation
 - Compact and modular
 - For small outer diameters
 - Cost-effective



CFX12 | Multi-clamps, universal strain relief



Universal bottom and stacker saddles

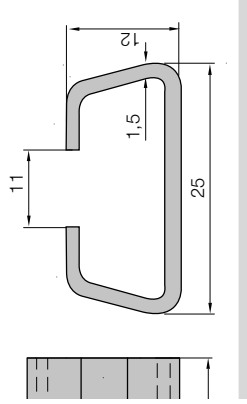
Part no. series	CFX12.1.Z1	CFX12.2.Z1	CFX12.2.Z2	CFX12.2.Z3	CFX12.3.Z1	CFX12.3.Z2	CFX12.3.Z3	CFX12.3.Z4	Part no. stacker saddles - single parts	For cables Ø max. [mm]
CFX12.1.Z1		X (2-piece)								6
CFX12.2.Z1		X (2-piece)	X (1-piece)							6
CFX12.2.Z2		X (1-piece)				X (1-piece)				6 + 12
CFX12.2.Z3						X (2-piece)				6 + 8
CFX12.3.Z1		X (2-piece)	X (3-piece)							6
CFX12.3.Z2		X (1-piece)	X (2-piece)			X (1-piece)				6 + 12
CFX12.3.Z3		X (1-piece)				X (1-piece)	X (1-piece)			6 + 12
CFX12.3.Z4						X (1-piece)	X (2-piece)			6 + 10

Standard material: galvanised steel. For the stainless steel version (material 1.4301/AISI 304) supplement part no. with Index "E" = example: part no. CFX-12.3.Z1.E

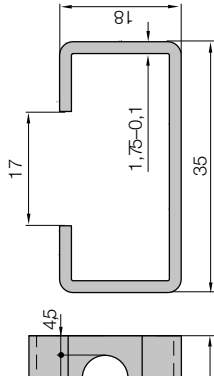
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lard applications

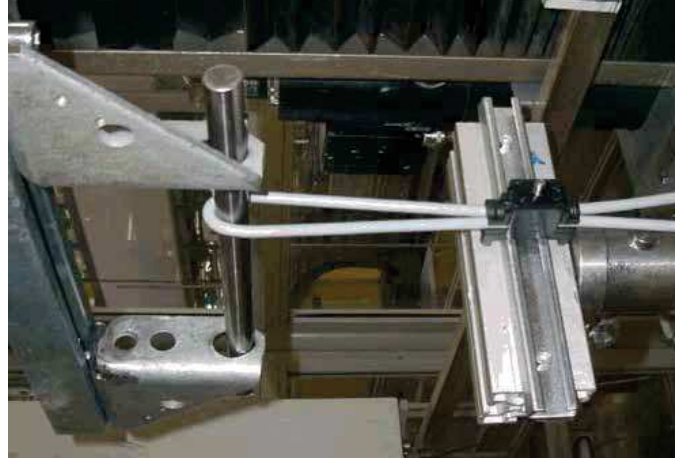


g power for tough applications



same day!
easibility)

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igus® tensile strength test with CFX clamps

igus® strain relief devices are tested under real conditions, taking various parameters into account

Whether under the influence of fluids like water or oil, or at different ambient temperatures. The interaction of chainfix systems with different jacket materials of cables and hoses of course plays a big role in the in-house tests. **Detailed information about the tests: chainfix strain relief parameter overview ► Page 724**



igus® test: Comparison of three different strain reliefs - Result: Triple tensile strength of igus® chainfix clamps compared to conventional products.



Tensile strength tests with chainflex® cables



Tensile strength tests of igus® clamps with cable tiewraps

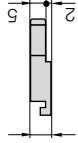
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E-mail: lin-tech@hennlich.cz

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s 2000



For the following
igus® series

easychain®
● E200/Z200

E2/000
● 1400/1500/1450/1480
● 2400/2500/2450/2480
255

E2 e-tubes
● R117/R118
● R48

E4.1

● E4.28

E4/00

● 220 (2050.Z)

E6

● E6.29/R6.29

● E6.35

● E6.40

Centre bore
- = no / + = yes

-

-

-

-

-

-

-

-

-

Centre resistance [N]

222 N

same day!
availability)

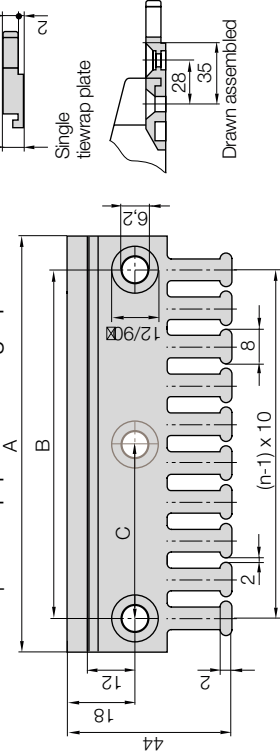
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Characteristics of igus® chainfix tie-wrap plates - Series 3000

Option 1B.: Tiewrap plates as individual parts

- Available as individual component
- Screwed on KMA* with C-profile (*polymer metal mounting bracket)
- Can be clipped onto the mounting bracket
- Single part for the manufacturing of switchgear cabinets or for the assembly of machines
- Accessory for igus® e-chain systems®

Series 3000 | Tiewrap plate as single part



For the following
igus® series

easychain®
● E26/Z26

E2/000
● E300/Z300
● 2600/2700/2650/2680
● 3400/3500/3450/3480

E4.1

● E4.32/H4.32/R4.32

● E4.42/H4.42/R4.42

● E4.56/H4.56/R4.56

● E4.80/H4.80/R4.80

● 1640

800

840

E4/light

● 14040/14140/18840

● 14240/14340

● 14550/14650/19050

● 15050/15150/19850

● 15250/15350

E4/00

● 280/290/R770

● 380/390/R780

● 400/410/R880

● 600/601/R608

● 640

E4/4

● 2828/2928/R7728

● 3838/3938/R7828

● 4040/4140/R8840

● 5050/5150/R9850

E6

● E6.52/R6.52

● E6.62

● E6.80L / E6.80



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*Delivery time refers the time until the product is shipped (after verifying technical feasibility)

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profile



For all mounting
brackets with C-profile!

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s R



For the following
igus® series
► See table

ies

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easibility)

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Characteristics of igus® chainfix tiewrap plates
Option 4: For fixed crossbars or option 5: For opening crossbars

- Can be clipped onto fixed and opening crossbars
- In case of many harnessed cables
- Dual level strain relief
- If the KMA is too small for the C-profile
- Easy to assemble without any screws
- Accessory for igus® e-chain systems®



Option 4 | Tiewrap plate for fixed crossbars



For the following
igus® series
► See table

Part no.	Width [mm]	Number of teeth	For series
2050.Z	60	6	E/Z200, 2400/2500, 2600/2700
3050.Z	50	5	3400/3500
3075.Z	74	7	3400/3500

Option 5 | Tiewrap plate for opening crossbars



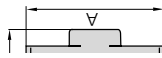
For the following
igus® series
► See table

Part no.	Width [mm]	Number of teeth	For series
2050.Z	60	6	E4/H4/R4.28, 220, 2650
3035.ZS	35	3	3400/3500
3050.ZS	50	5	3400/3500
3075.ZS	75	7	3400/3500
3850.ZS	48	5	E4/H4/R4.32, E4/H4/R4.42, 280/290/R770, 380/390/R780,2828/2928/R7728, 3838/3938/R7838, 14240/14340, 15250/15350, E6.52, E6.62
4550.ZS	48	5	E4/H4/R4.56, E4/H4/R4.80, 400/410/R880, 4040/4140/R8840, 5050/5150/R9850, 14040/14140/18840,14550/14650/19050, 15050/15150/19850, E6.80L, E6.80, 1640/1608
4575.ZS	74	7	E4/H4/R4.56, E4/H4/R4.80, 400/410/R880, 4040/4140/R8840, 5050/5150/R9850, 14040/14140/18840, 14550/14650/19050, 15050/15150/19850, E6.80L, E6.80,1640/1608

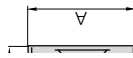


For all mounting
brackets with C-profile!

Dim. E [mm]
30
36
42
45
50



Dim. E [mm]
24
28
32
36
39



same day!
(availability)

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Characteristics of igus® chainfix clips

- **Option 2: Clip-on strain relief for opening crossbars**
- Available for all igus® e-chains® with opening crossbars Part no. 450.XX.
- Polymer, for cable diameters from 8 mm to 12 mm
- Quick assembly without any tools
- 2 to 3 layers on top of one another possible
- Each layer can be detached and changed later on



Option 2 | Clip-on strain relief for opening crossbars

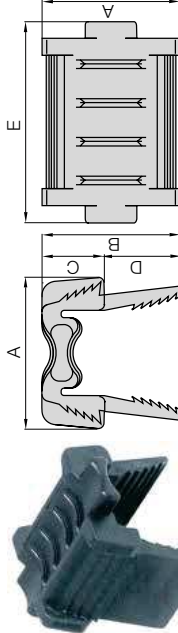
Clamp - Part no. CFC-XX-M

ø Cable [mm]	Part no. clamp	Dim. A [mm]	Dim. B [mm]	Dim. C [mm]	Dim. D [mm]	Dim. E [mm]
08 - 12 mm	CFC-12-M	23.7	24	10	14	36



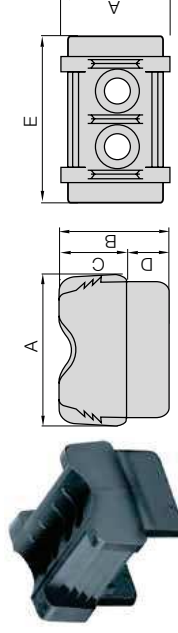
For the following
igus® series

E4.1
● E4.56/H4.56/R4.56
● E4.80/H4.80/R4.80
● 1640
● 840
E4/light
● 14040/14140
● 14550/14650
● 15050/15150
E4/00
● 400/410
● 640
E4/4
● 4040/4140
● 5050/5150
E6
● E6.80L
● E6.80



Bottom part - Part no. CFC-XX-B

ø Cable [mm]	Part no. clamp	Dim. A [mm]	Dim. B [mm]	Dim. C [mm]	Dim. D [mm]	Dim. E [mm]
08 - 12 mm	CFC-12-B	23.8	21	13	8	38



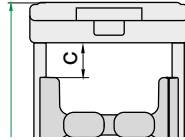
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 For the following
igus® series




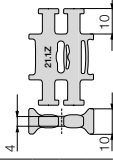
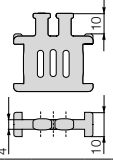
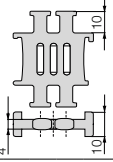
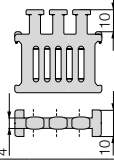
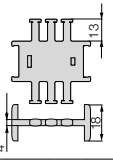
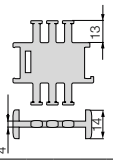
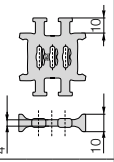
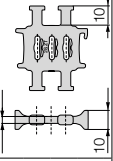

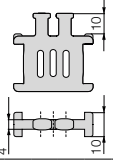
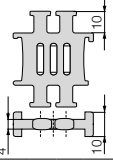
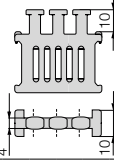
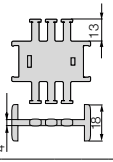
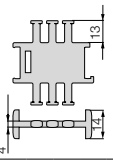
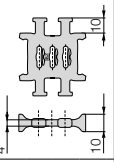
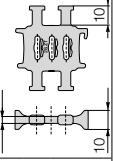
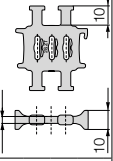

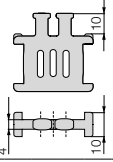
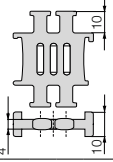
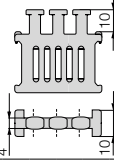
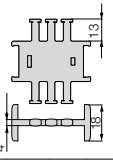
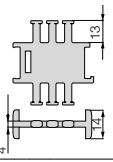
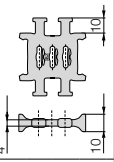
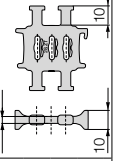
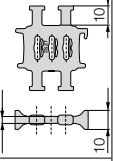

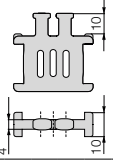
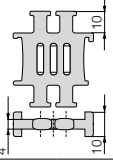
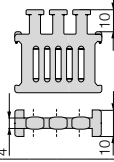
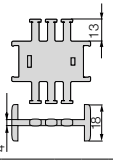
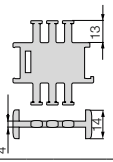
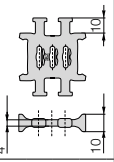
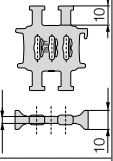
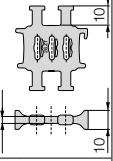

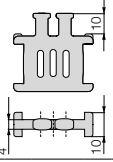
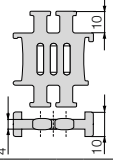
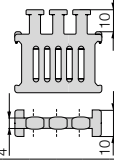
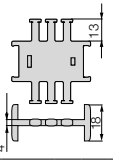
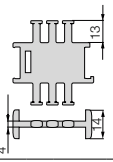
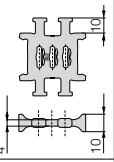
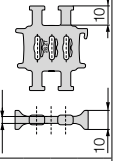
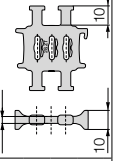

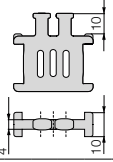
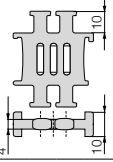
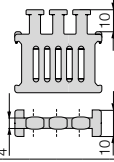
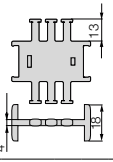
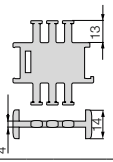
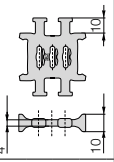
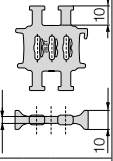
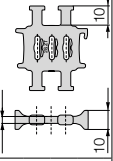

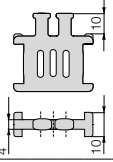
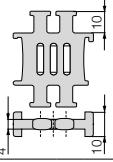
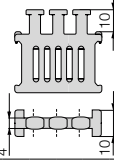
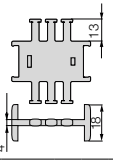
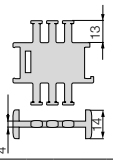
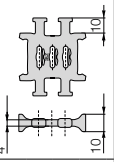
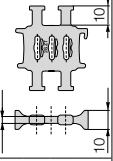
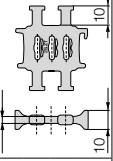

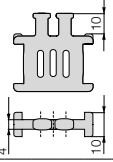
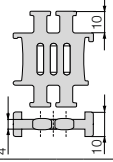
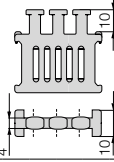
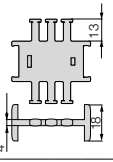
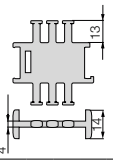
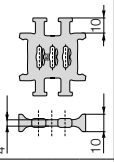
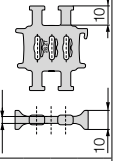
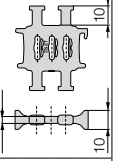
Dim. C	Dim. D
[mm]	[mm]
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—	6
—	6
—	14
—	10
—	18
—	18
10	6.5
1	4
—	6
15	6
1	4
1	4
—	4
—	8

Chainfix strain relief separators are available in a wide range of sizes and materials. For an easy installation, the strain relief device is designed to be assembled on-chain®.

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availability

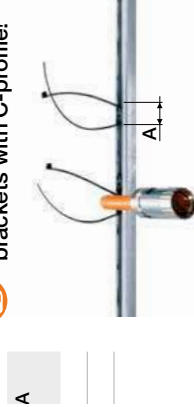
www.chainfix.eu

Strain relief separators | Product range overview

								
R157/R158 E2 e-tubes unassembled 1585.01.Z assembled 1586.01.Z	1400/1500 E2000 e-chains® unassembled 21.1.Z assembled 21.1.Z.1	2400/2500 E2000 e-chains® unassembled 2020.Z assembled 2120.Z	2450/2480 E2000 e-tubes unassembled 2020.ZR assembled 2120.ZR	2600/2700 E2000 e-chains® unassembled 262.Z assembled 263.Z	3400/3500 E2000 e-chains® unassembled 301.Z assembled 311.Z	3450/3480 E2000 e-tubes unassembled 34501.Z assembled 34511.Z	E4.28 E4.1 e-chains® unassembled 28.Z assembled 28.Z.1	R4.28 E4.1 e-tubes unassembled 28.ZT assembled 28.ZT.1
								
R167/R168 E2 e-tubes unassembled 1685.01.Z assembled 1686.01.Z	2400/2500 E2000 e-chains® unassembled 2020.Z assembled 2120.Z	2450/2480 E2000 e-tubes unassembled 2020.ZR assembled 2120.ZR	2600/2700 E2000 e-chains® unassembled 262.Z assembled 263.Z	3400/3500 E2000 e-chains® unassembled 301.Z assembled 311.Z	3450/3480 E2000 e-tubes unassembled 34501.Z assembled 34511.Z	E4.28 E4.1 e-chains® unassembled 28.Z assembled 28.Z.1	R4.28 E4.1 e-tubes unassembled 28.ZT assembled 28.ZT.1	R4.28 E4.1 e-tubes unassembled 28.ZT assembled 28.ZT.1
								
R48 E2 e-tubes unassembled 481.ZR assembled 482.ZR	2400/2500 E2000 e-chains® unassembled 2020.Z assembled 2120.Z	2450/2480 E2000 e-tubes unassembled 2020.ZR assembled 2120.ZR	2600/2700 E2000 e-chains® unassembled 262.Z assembled 263.Z	3400/3500 E2000 e-chains® unassembled 301.Z assembled 311.Z	3450/3480 E2000 e-tubes unassembled 34501.Z assembled 34511.Z	E4.28 E4.1 e-chains® unassembled 28.Z assembled 28.Z.1	R4.28 E4.1 e-tubes unassembled 28.ZT assembled 28.ZT.1	R4.28 E4.1 e-tubes unassembled 28.ZT assembled 28.ZT.1
								
E4.21 E4.1 e-chains® unassembled T2103.Z assembled T2113.Z	2400/2500 E2000 e-chains® unassembled 2020.Z assembled 2120.Z	2450/2480 E2000 e-tubes unassembled 2020.ZR assembled 2120.ZR	2600/2700 E2000 e-chains® unassembled 262.Z assembled 263.Z	3400/3500 E2000 e-chains® unassembled 301.Z assembled 311.Z	3450/3480 E2000 e-tubes unassembled 34501.Z assembled 34511.Z	E4.28 E4.1 e-chains® unassembled 28.Z assembled 28.Z.1	R4.28 E4.1 e-tubes unassembled 28.ZT assembled 28.ZT.1	R4.28 E4.1 e-tubes unassembled 28.ZT assembled 28.ZT.1
								
T3.29 T3 e-chains® unassembled E6.29.02.Z assembled E6.29.12.Z	2400/2500 E2000 e-chains® unassembled 2020.Z assembled 2120.Z	2450/2480 E2000 e-tubes unassembled 2020.ZR assembled 2120.ZR	2600/2700 E2000 e-chains® unassembled 262.Z assembled 263.Z	3400/3500 E2000 e-chains® unassembled 301.Z assembled 311.Z	3450/3480 E2000 e-tubes unassembled 34501.Z assembled 34511.Z	E4.28 E4.1 e-chains® unassembled 28.Z assembled 28.Z.1	R4.28 E4.1 e-tubes unassembled 28.ZT assembled 28.ZT.1	R4.28 E4.1 e-tubes unassembled 28.ZT assembled 28.ZT.1
								
E6.29/E61.29 E6 e-chains® unassembled E6.29.02.Z assembled E6.29.12.Z	2400/2500 E2000 e-chains® unassembled 2020.Z assembled 2120.Z	2450/2480 E2000 e-tubes unassembled 2020.ZR assembled 2120.ZR	2600/2700 E2000 e-chains® unassembled 262.Z assembled 263.Z	3400/3500 E2000 e-chains® unassembled 301.Z assembled 311.Z	3450/3480 E2000 e-tubes unassembled 34501.Z assembled 34511.Z	E4.28 E4.1 e-chains® unassembled 28.Z assembled 28.Z.1	R4.28 E4.1 e-tubes unassembled 28.ZT assembled 28.ZT.1	R4.28 E4.1 e-tubes unassembled 28.ZT assembled 28.ZT.1
								
E6.35 E6 e-chains® unassembled E6.35.02.Z assembled E6.35.12.Z	2400/2500 E2000 e-chains® unassembled 2020.Z assembled 2120.Z	2450/2480 E2000 e-tubes unassembled 2020.ZR assembled 2120.ZR	2600/2700 E2000 e-chains® unassembled 262.Z assembled 263.Z	3400/3500 E2000 e-chains® unassembled 301.Z assembled 311.Z	3450/3480 E2000 e-tubes unassembled 34501.Z assembled 34511.Z	E4.28 E4.1 e-chains® unassembled 28.Z assembled 28.Z.1	R4.28 E4.1 e-tubes unassembled 28.ZT assembled 28.ZT.1	R4.28 E4.1 e-tubes unassembled 28.ZT assembled 28.ZT.1
								
E6.40 E6 e-chains® unassembled E6.40.02.Z assembled E6.40.12.Z	2400/2500 E2000 e-chains® unassembled 2020.Z assembled 2120.Z	2450/2480 E2000 e-tubes unassembled 2020.ZR assembled 2120.ZR	2600/2700 E2000 e-chains® unassembled 262.Z assembled 263.Z	3400/3500 E2000 e-chains® unassembled 301.Z assembled 311.Z	3450/3480 E2000 e-tubes unassembled 34501.Z assembled 34511.Z	E4.28 E4.1 e-chains® unassembled 28.Z assembled 28.Z.1	R4.28 E4.1 e-tubes unassembled 28.ZT assembled 28.ZT.1	R4.28 E4.1 e-tubes unassembled 28.ZT assembled 28.ZT.1



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brackets with C-profile!



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Characteristics of the special strain relief system for hoses igus® blocks

- Modular, space-saving system
- No hose damage
- Combination of hoses and cables possible
- Hose diameters from 4.3 14 mm
- Easy to assemble without any screws and tools
- Adjustable to any e-chain® filling



Please contact us!

Block | Strain relief for hoses

Part no. block modules	Hose Ø [mm]	Number of hoses	Width [mm]
CFS 4,3	4,3	4 - 12	27,5
CFS 6	6	3 - 6	27,5
CFS 9	9	2	27,5
CFS 55,9	9	5	55,0
CFS 10	10	2	27,5
CFS 12	12	2	27,5
CFS 14	14	1	27,5

Part no. base plate	Part no. cover plate	Width [mm]
CFS U75	CFS P75	75
CFS U102,5	CFS P102,5	102,5
CFS U130	CFS P130	130
CFS U185	CFS P185	185
CFS U212	CFS P212	212,5
CFS U240	CFS P240	240
CFS U295	CFS PD295	295

Part no. spacer	Height [mm]
CFS D 16	16
CFS D 12	12
CFS D295	16



- 1 Cover plate
 - 2 Spacers
 - 3 Base plate
 - 4 Grid-dimensions modules
- B = 27.5 mm, H = 16 mm

The modules accommodate hoses from 4.3 to 14 mm, 3 x 4.3 mm hoses can be fitted on top of each in module CFS 4.3 and 2 hoses can be fitted directly on top of each other in one notch using module CFS 6. The modules have a width of 27.5 mm, are inserted into the base plate and then fastened in position with M4 countersunk screws. The exception is module CFS 55.9 which offers the capacity for 5 x 9 mm hoses with twice the width. The base plate and cover plate are available in widths ranging from 75 to 240mm. The height of the spacers and modules is 16mm. Several layers can be installed directly above one another.



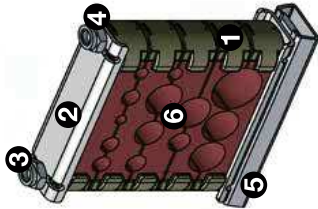
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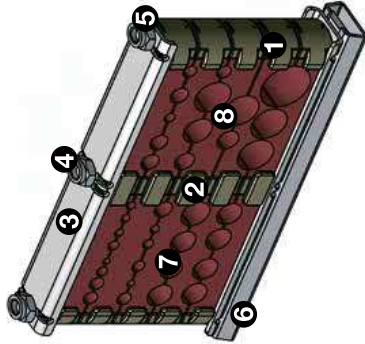
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number	x 2
1	2
2	2
3	1
4	1

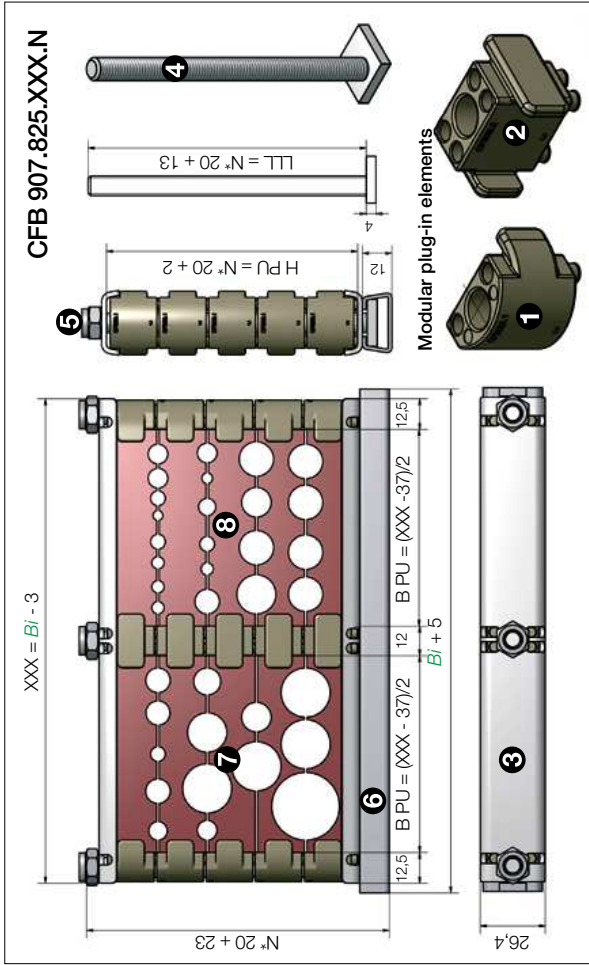
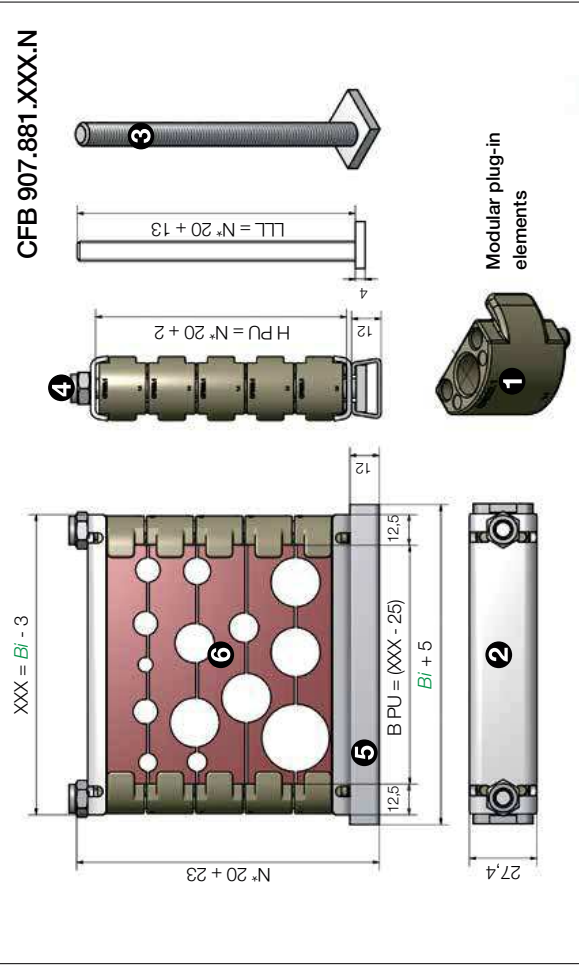


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number	x 2
1	N
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4	3
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