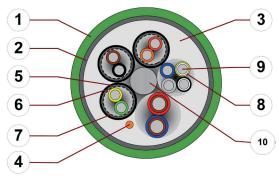
chainflex® CF113.D



Measuring system cable (Class 6.5.3.1) ● For extremely heavy duty applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogen-free ● Notch-resistant ● Hydrolysis and microbe-resistant



Example image

For detailed overview please see design table

- 1. Outer jacket: Pressure extruded PUR mixture
- 2. Banding: Plastic fleece
- 3. Overall shield: Extremely bending-resistant braiding made of tinned copper wires
- Inner jacket: Pressure extruded, gusset-filling TPE mixture
- 5. CFRIP: Tear strip for faster cable stripping
- 6. Element jacket: Mechanically high-quality TPE mixture
- Element shield: Extremely bending-resistant braiding made of tinned copper wires
- 8. Banding: Plastic foil
- 9. Core insulation: Mechanically high-quality TPE mixture
- Conductor: Fine-wire strand in especially bending-stable version consisting of tinned copper wires
- 11. Strain relief: Tensile stress-resistant centre element



















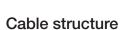














Conductor

Stranded conductor in especially bending-resistant version consisting of tinned copper wires (following DIN EN 60228).



Core insulation

Mechanically high-quality TPE mixture.



Core structure

According to measuring system specification.



Core identification

According to measuring system specification.

► Product range table



Element shield

Extremely bending-resistant braiding made of tinned copper wires. Coverage approx. 70 % linear, approx. 90 % optical



Element jacket

TPE mixture on pair shielding adapted to suit the requirements in e-chains®.



Inner jacket

TPE mixture adapted to suit the requirements in e-chains®.



Overall shield

eld Extremely bending-resistant braiding made of tinned copper wires. Coverage approx. 70 % linear, approx. 90 % optical



Outer jacket

Low-adhesion, halogen-free, highly abrasion resistant PUR mixture, adapted to suit the requirements in e-chains® (following DIN EN 50363-10-2).



Printing: black

Strip cables faster: a tear strip is moulded into the inner jacket Video ▶ www.igus.eu/CFRIP



CFRIP®

"00000 m"** igus chainflex CF113.---.D① -----② E310776 сЯUus

AWM Style ----- WW-1 AWM I/II A/B 80°C 300V FT1 DNV-GL TAE00003X4

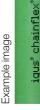
EAC/CTP CE DESINA RoHS-II conform www.igus.de +++ chainflex cable works +++

* Length printing: Not calibrated. Only intended as an orientation aid.

① / ② Cable identification according to Part No. (see technical table).

3 Printing of the UL style (see related chapter).

Example: ... chainflex CF113.007.D (4x0.34)C E310776 ...



CF113.D

chainflex® CF113.D



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Dynamic information

a max.





v max. unsupported 10 m/s gliding 5 m/s

50 m/s²

Travel distance Unsupported travels and up to 100 m for gliding applications, Class 5

These values are based on specific applications or tests. They do not represent the limit of what is technically feasible.

Guaranteed service life according to guarantee conditions

Double strokes	5 million	7.5 million	10 million
Temperature, from/to [°C]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
-25/-15	10	11	12
-15/+70	7.5	8.5	9.5
+70/+80	10	11	12

Minimum guaranteed service life of the cable under the specified conditions. The installation of the cable is recommended within the middle temperature range.

Electrical information

Nominal voltage 50 V 300 V (following UL)

Testing voltage 500 V































chainflex® CF113.D



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Properties and approvals					
UV resistance	Medium				
Oil resistance	Oil-resistant (following DIN EN 50363-10-2), Class 3				
Offshore	MUD-resistant following NEK 606 - status 2009				
Flame retardant	According to IEC 60332-1-2, FT1, VW-1				
Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)				
Halogen-free	Following DIN EN 60754				
UL verified	Certificate No. B129699: "igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"				
UL/CSA AWM	See data sheet for details ▶ www.igus.eu/CF113.D				
NFPA	Following NFPA 79-2018, chapter 12.9				
DNV-GL	Type approval certificate No. TAE00003X4				
EAC	Certificate No. RU C-DE.ME77.B.00295/19 (TR ZU)				
REACH	In accordance with regulation (EC) No. 1907/2006 (REACH)				
Lead-free	Following 2011/65/EC (RoHS-II/RoHS-III)				
Cleanroom	According to ISO Class 1. The outer jacket material of this series complies with CF77. UL.05.12.D - tested by IPA according to standard DIN EN ISO 14644-1				
DESINA	According to VDW, DESINA standardisation				
CE	Following 2014/35/EU				





























chainflex® CF113.D



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Properties and approvals

UL/CSA AWM Details

CF113.001.D	Part No.	UL style core insulation	UL style outer jacket	UL Voltage Rating	UL Temperature Rating
CF113.002.D 10467 20233 300 80 CF113.003.D 10467 20233 300 80 CF113.004.D 10467 20233 300 80 CF113.005.D 10467 20233 300 80 CF113.006.D 10467 20233 300 80 CF113.007.D 10467 20233 300 80 CF113.008.D 10467 20233 300 80 CF113.009.D 10467 20233 300 80 CF113.010.D 10467 20233 300 80 CF113.01.D 10467 20233 300 80 CF11				[V]	[°C]
CF113.003.D 10467 20233 300 80 CF113.004.D 10467 20233 300 80 CF113.005.D 10467 20233 300 80 CF113.006.D 10467 20233 300 80 CF113.007.D 10467 20233 300 80 CF113.008.D 10467 20233 300 80 CF113.009.D 10467 20233 300 80 CF113.010.D 10467 20233 300 80 CF113.011.D 10467 20233 300 80 CF113.014.D 10467 20233 300 80 CF113.014.D 10467 20233 300 80 CF113.014.D 10467 20233 300 80 CF113.015.D 10467 20233 300 80 CF113.016.D 10467 20233 300 80 CF113.019.D 10467 20233 300 80 <t< td=""><td>CF113.001.D</td><td>10467</td><td>20233</td><td>300</td><td>80</td></t<>	CF113.001.D	10467	20233	300	80
CF113.004.D 10467 20233 300 80 CF113.005.D 10467 20233 300 80 CF113.006.D 10467 20233 300 80 CF113.007.D 10467 20233 300 80 CF113.008.D 10467 20233 300 80 CF113.009.D 10467 20233 300 80 CF113.010.D 10467 20233 300 80 CF113.011.D 10467 20233 300 80 CF113.013.D 10467 20233 300 80 CF113.014.D 10467 20233 300 80 CF113.015.D 10467 20233 300 80 CF113.016.D 10467 20233 300 80 CF113.016.D 10467 20233 300 80 CF113.018.D 10467 20233 300 80 CF113.018.D 10467 20233 300 80 <t< td=""><td>CF113.002.D</td><td>10467</td><td>20233</td><td>300</td><td>80</td></t<>	CF113.002.D	10467	20233	300	80
CF113.005.D 10467 20233 300 80 CF113.006.D 10467 20233 300 80 CF113.007.D 10467 20233 300 80 CF113.008.D 10467 20233 300 80 CF113.009.D 10467 20233 300 80 CF113.010.D 10467 20233 300 80 CF113.011.D 10467 20233 300 80 CF113.013.D 10467 20233 300 80 CF113.014.D 10467 20233 300 80 CF113.015.D 10467 20233 300 80 CF113.016.D 10467 20233 300 80 CF113.017.D 10467 20233 300 80 CF113.018.D 10467 20233 300 80 CF113.019.D 10467 20233 300 80 CF113.022.D 10467 20233 300 80 <t< td=""><td>CF113.003.D</td><td>10467</td><td>20233</td><td>300</td><td>80</td></t<>	CF113.003.D	10467	20233	300	80
CF113.006.D 10467 20233 300 80 CF113.007.D 10467 20233 300 80 CF113.008.D 10467 20233 300 80 CF113.009.D 10467 20233 300 80 CF113.010.D 10467 20233 300 80 CF113.011.D 10467 20233 300 80 CF113.013.D 10467 20233 300 80 CF113.014.D 10467 20233 300 80 CF113.015.D 10467 20233 300 80 CF113.016.D 10467 20233 300 80 CF113.016.D 10467 20233 300 80 CF113.018.D 10467 20233 300 80 CF113.019.D 10467 20233 300 80 CF113.022.D 10467 20233 300 80 CF113.025.D 10467 20233 300 80 <t< td=""><td>CF113.004.D</td><td>10467</td><td>20233</td><td>300</td><td>80</td></t<>	CF113.004.D	10467	20233	300	80
CF113.007.D 10467 20233 300 80 CF113.008.D 10467 20233 300 80 CF113.009.D 10467 20233 300 80 CF113.010.D 10467 20233 300 80 CF113.011.D 10467 20233 300 80 CF113.013.D 10467 20233 300 80 CF113.014.D 10467 20233 300 80 CF113.015.D 10467 20233 300 80 CF113.015.D 10467 20233 300 80 CF113.016.D 10467 20233 300 80 CF113.017.D 10467 20233 300 80 CF113.019.D 10467 20233 300 80 CF113.022.D 10467 20233 300 80 CF113.022.D 10467 20233 300 80 CF113.029.D 10467 20233 300 80 <t< td=""><td>CF113.005.D</td><td>10467</td><td>20233</td><td>300</td><td>80</td></t<>	CF113.005.D	10467	20233	300	80
CF113.008.D 10467 20233 300 80 CF113.009.D 10467 20233 300 80 CF113.010.D 10467 20233 300 80 CF113.011.D 10467 20233 300 80 CF113.013.D 10467 20233 300 80 CF113.014.D 10467 20233 300 80 CF113.015.D 10467 20233 300 80 CF113.016.D 10467 20233 300 80 CF113.017.D 10467 20233 300 80 CF113.018.D 10467 20233 300 80 CF113.019.D 10467 20233 300 80 CF113.022.D 10467 20233 300 80 CF113.025.D 10467 20233 300 80 CF113.027.D 10467 20233 300 80 CF113.028.D 11602 20233 300 80 <t< td=""><td>CF113.006.D</td><td>10467</td><td>20233</td><td>300</td><td>80</td></t<>	CF113.006.D	10467	20233	300	80
CF113.009.D 10467 20233 300 80 CF113.010.D 10467 20233 300 80 CF113.011.D 10467 20233 300 80 CF113.013.D 10467 20233 300 80 CF113.014.D 10467 20233 300 80 CF113.015.D 10467 20233 300 80 CF113.016.D 10467 20233 300 80 CF113.017.D 10467 20233 300 80 CF113.018.D 10467 20233 300 80 CF113.019.D 10467 20233 300 80 CF113.022.D 10467 20233 300 80 CF113.025.D 10467 20233 300 80 CF113.028.D 11602 20233 300 80 CF113.029.D 10467 20233 300 80 CF113.031.D 10467 20233 300 80 <t< td=""><td>CF113.007.D</td><td>10467</td><td>20233</td><td>300</td><td>80</td></t<>	CF113.007.D	10467	20233	300	80
CF113.010.D 10467 20233 300 80 CF113.011.D 10467 20233 300 80 CF113.013.D 10467 20233 300 80 CF113.014.D 10467 20233 300 80 CF113.015.D 10467 20233 300 80 CF113.016.D 10467 20233 300 80 CF113.017.D 10467 20233 300 80 CF113.018.D 10467 20233 300 80 CF113.019.D 10467 20233 300 80 CF113.022.D 10467 20233 300 80 CF113.025.D 10467 20233 300 80 CF113.028.D 11602 20233 300 80 CF113.029.D 10467 20233 300 80 CF113.031.D 10467 20233 300 80 CF113.032.D 10467 20233 300 80 <t< td=""><td>CF113.008.D</td><td>10467</td><td>20233</td><td>300</td><td>80</td></t<>	CF113.008.D	10467	20233	300	80
CF113.011.D 10467 20233 300 80 CF113.013.D 10467 20233 300 80 CF113.014.D 10467 20233 300 80 CF113.015.D 10467 20233 300 80 CF113.016.D 10467 20233 300 80 CF113.017.D 10467 20233 300 80 CF113.018.D 10467 20233 300 80 CF113.019.D 10467 20233 300 80 CF113.022.D 10467 20233 300 80 CF113.025.D 10467 20233 300 80 CF113.027.D 10467 20233 300 80 CF113.028.D 11602 20233 300 80 CF113.031.D 10467 20233 300 80 CF113.032.D 10467 20233 300 80 CF113.033.D 10467 20233 300 80 <t< td=""><td>CF113.009.D</td><td>10467</td><td>20233</td><td>300</td><td>80</td></t<>	CF113.009.D	10467	20233	300	80
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CF113.037.D 10467 20233 300 80 CF113.038.D 10467 20233 300 80	CF113.033.D	10467	20233	300	80
CF113.038.D 10467 20233 300 80	CF113.036.D	10467	20233	300	80
	CF113.037.D	10467	20233	300	80
CF113.040.D 10467 20233 300 80	CF113.038.D	10467	20233	300	80
	CF113.040.D	10467	20233	300	80





























chainflex® CF113.D



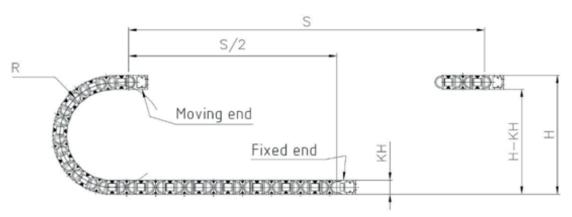
Measuring system cable (Class 6.5.3.1) ● For extremely heavy duty applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogen-free ● Notch-resistant ● Hydrolysis and microbe-resistant

Typical lab test setup for this cable series

Test bend radius R approx. 55 - 100 mm
Test travel S approx. 1 - 15 m

Test duration minimum 2 - 4 million double strokes

Test speed approx. 0.5 - 2 m/sTest acceleration approx. $0.5 - 1.5 \text{ m/s}^2$

































Typical application areas

- For extremely heavy duty applications, Class 6
- Unsupported travel distances and up to 100 m for gliding applications, Class 5
- Almost unlimited resistance to oil, Class 3
- No torsion, Class 1
- Indoor and outdoor applications without direct solar radiation
- Storage and retrieval units for high-bay warehouses, Machining units/machine tools, quick handling, Clean room, semiconductor insertion, indoor cranes, low temperature applications

iaus° chainflex° C

chainflex® CF113.D



Measuring system cable (Class 6.5.3.1) ● For extremely heavy duty applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogen-free ● Notch-resistant ● Hydrolysis and microbe-resistant

Technical tables:

Mechanical information

Weenanioa information	•			
Part No.	Number of cores and conductor nominal cross section	Outer diameter (d) max.	Copper index	Weight
	[mm²]	[mm]	[kg/km]	[kg/km]
CF113.001.D	(3x(2x0.14)C+(4x0.14)+(2x0.5))C	10.0	71	137
CF113.002.D	(3x(2x0.14)C+2x(0.5)C)C	10.0	74	144
CF113.003.D	(3x(2x0.14)+2x1.0)C	8.0	56	103
CF113.004.D	(2x(2x(2x0.14))+(4x0.14)C+(4x0.5))C	11.0	78	152
CF113.005.D	(4x(2x0.14)+4x0.5)C	9.0	60	115
CF113.006.D	(3x(2x0.14)C+(4x0.14) +(4x0.25)+(2x0.5))C	11.0	85	158
CF113.007.D ²⁾	(4x0.34)C	6.5	31	54
CF113.008.D	(3x(2x0.25))C	7.5	36	76
CF113.009.D	(4x(2x0.25)+2x0.5)C	8.5	57	99
CF113.010.D	(4x(2x0.25)+2x1.0)C	9.0	68	122
CF113.011.D	(4x(2x0.34)+4x0.5)C	10.0	81	142
CF113.013.D	(3x(2x0.14)C+2x0.5)C	9.0	62	121
CF113.014.D	(4x(2x0.25)C+(2x0.5))C	11.0	86	163
CF113.015.D	(4x(2x0.14)+4x0.5)C	9.0	60	114
CF113.016.D	(3x(2x0.25)C)C	10.0	60	126
CF113.017.D 4)	(4x(2x0.14)+(4x0.14)C+4x1.0)C	10.0	100	150
CF113.018.D 4)	(2x(2x0.25)+2x0.5)C	6.5	41	65
CF113.019.D 4)	(3x(2x0.25)C+(3x0.25)+2x1.0)C	10.0	93	143
CF113.022.D	((2x0.25)+5x0.5)C	8.0	54	94
CF113.025.D	(3x(2x0.14)C+(2x0.5)C)C	10.0	72	141
CF113.027.D	(5x(2x0.14)+2x0.5)C	9.0	52	105
CF113.028.D 4)	(2x(2x0.20)+(2x0.38))C	7.5	44	69
CF113.029.D	(5x(2x0.25)C+(2x0.25+2x0.5))C	12.0	105	192
CF113.031.D	(2x(2x0.25)C+2x1.0)C	9.5	69	133
CF113.032.D ⁵⁾	3x(2x0.14)C+(3x0.14)C	8.5	35	82
CF113.033.D 5)	4x(2x0.14)C+2x(1.0)C	9.5	64	111
CF113.036.D	(5x(2x0.25))C	8.5	51	103
CF113.037.D	(6x(2x0.25))C	9.0	58	114
CF113.038.D	(3x(2x0.14)+(2x0.34))C	8.5	36	87
CF113.040.D	(3x(4x0.14)+(2x0.14+2x0.34)+2x1.5)C	10.0	88	155



⁴⁾ Manufactured without inner jacket

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits. G = with green-yellow earth core <math>x = without earth core





























CF113,D

chainflex

⁵⁾ manufactured without overall shield

chainflex® CF113.D

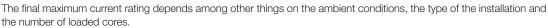


Measuring system cable (Class 6.5.3.1) ● For extremely heavy duty applications ● PUR outer jacket ● Shielded ● Oil resistant and coolant-resistant ● Flame retardant ● PVC and halogen-free ● Notch-resistant ● Hydrolysis and microbe-resistant

Technical tables:

Electrical information

Conductor nominal cross section	Maximum conductor resistance at 20 °C (following DIN EN 50289-1-2)	Maximum current rating at 30 °C
[mm²]	[Ω/km]	[A]
0.14	150.0	2.5
0.2	94.0	3.5
0.25	90.0	5
0.34	63.0	7
0.38	54.0	7
0.5	42.0	10
1.0	23.0	17

































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Part No.	Core group	Colour code	Core design
	3x(2x0.14)C	green/yellow, black/brown, red/orange	
CF113.001.D	(4x0.14)	grey/blue/white-yellow/white-black	0 8
	(2x0.5)	brown-red/brown-blue	0
CF113.002.D	3x(2x0.14)C	green/yellow, black/brown, red/orange	
JF113.002.D	2x(0.5)C	black, red	
	3x(2x0.14)	white/brown, green/yellow, grey/pink	000
CF113.003.D	2x1.0	blue, red	
	2x(2x(2x0.14))	(brown/green)/(yellow/violet), (grey/pink)/(red/black)	
CF113.004.D	(4x0.14)C	yellow-black/red-black/green-black/blue-black	8600
	(4x0.5)	brown-green/white-green/blue/white	
05440 005 D	4x(2x0.14)	white/brown, green/yellow, grey/pink, blue/red	000
CF113.005.D	4x0.5	black, violet, grey-pink, red-blue	
	3x(2x0.14)C	green/yellow, black/brown, red/orange	
0F112 006 D	(4x0.14)	grey/blue/white-yellow/white-black	
CF113.006.D	(4x0.25)	brown-yellow/brown-grey/green-black/green-red	
	(2x0.5)	brown-red/brown-blue	
CF113.007.D	4x0.34	white, green, brown, yellow(Star-quad)	





























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Design table Part No.	Core group	Colour code	Core design
CF113.008.D	3x(2x0.25)	white/brown, green/yellow, grey/pink	0000
05440 000 B	4x(2x0.25)	brown/green, blue/violet, grey/pink, red/black	88
CF113.009.D	2x0.5	white, brown	88
05440 040 B	4x(2x0.25)	brown/green, blue/violet, grey/pink, red/black	88
CF113.010.D	2x1.0	white, brown	88
05440 044 B	4x(2x0.34)	black/brown, red/orange, green/yellow, blue/violet	080
CF113.011.D	4x0.5	black-white, red-white, yellow-white, blue-white	
CF113.013.D	3x(2x0.14)C	white/brown, green/yellow, grey/pink	
CF113.013.D	2x0.5	blue, red	
05440 044 D	4x(2x0.25)C	white/brown, green/yellow, grey/pink, blue/red	000
CF113.014.D	(2x0.5)	black no. 1/black no. 2	000
05440.045.5	4x(2x0.14)	brown/green, yellow/violet, grey/pink, red/black	080
CF113.015.D	4x0.5	blue, white, brown-green, white-green	O

Example image

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Part No.	Core group	Colour code	Core design
CF113.016.D	3x(2x0.25)C	white/brown, green/yellow, grey/pink	
	4x(2x0.14)	red/black, brown/green, yellow/violet, grey/pink	
CF113.017.D	(4x0.14)C	blue-black/yellow-black/red-black/green-black	
	4x1.0	white-green, brown-green, blue, white	000
	2x(2x0.25)	red/black, grey/pink	8
CF113.018.D	2x0.5	white, brown	
	3x(2x0.25)C	brown/green, grey/pink, red/black	
CF113.019.D	(3x0.25)	blue/violet/yellow	
	2x1.0	white, brown	
05440 000 D	(2x0.25)	white/brown	
CF113.022.D	5x0.5	green, yellow, grey, pink, blue	
OE412 005 D	3x(2x0.14)C	green/yellow, blue/red, grey/pink	
CF113.025.D	(2x0.5)C	white/brown	
	5x(2x0.14)	brown/green, yellow/grey, white/violet, red/black, pink/blue	

Example image

white-green, white-red

2x0.5

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Core group	Colour code	Core design
2x(2x0.20)	green/yellow, pink/blue	
(2x0.38)	red/black	8
5x(2x0.25)C	white/brown, green/yellow, grey/pink, blue/red, black/violet	8
(2x0.25+2x0.5)	grey-pink/brown-green/white-green/red-blue	O C
2x(2x0.25)C	white/brown, green/yellow	
2x1.0	black no. 1, black no. 2	00
3x(2x0.14)C	green/black, yellow/black, red/black	
(3x0.14)C	grey/pink/black	
4x(2x0.14)C	yellow/black, red/black, blue/black, green/black	
2x(1.0)C	white, brown	
5x(2x0.25)	white/brown, green/yellow, grey/pink, blue/red, black/violet	0000
	2x(2x0.20) (2x0.38) 5x(2x0.25)C (2x0.25+2x0.5) 2x(2x0.25)C 2x1.0 3x(2x0.14)C (3x0.14)C 4x(2x0.14)C 2x(1.0)C	2x(2x0.20) green/yellow, pink/blue (2x0.38) red/black 5x(2x0.25)C white/brown, green/yellow, grey/pink, blue/red, black/violet (2x0.25+2x0.5) grey-pink/brown-green/white-green/red-blue 2x(2x0.25)C white/brown, green/yellow 2x1.0 black no. 1, black no. 2 3x(2x0.14)C green/black, yellow/black, red/black (3x0.14)C grey/pink/black 4x(2x0.14)C yellow/black, red/black, blue/black, green/black 2x(1.0)C white, brown white/brown, green/yellow, grey/pink, blue/red,





























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Part No.	Core group	Colour code	Core design
CF113.037.D	6x(2x0.25)	white/brown, green/yellow, grey/pink, blue/red, black/violet,grey-pink/red-blue	
CF113.038.D	3x(2x0.14)	white/brown, green/yellow, grey/pink	
	(2x0.34)	blue/red	
	3x(4x0.14)	black/red/white-black/white-red, green/blue/white-green/white-blue,yellow/brown/white-yellow/white-brown	
CF113.040.D	(2x0.14+2x0.34)	violet/orange/white-violet/white-orange	
	2x1.5	white-grey, grey	



























