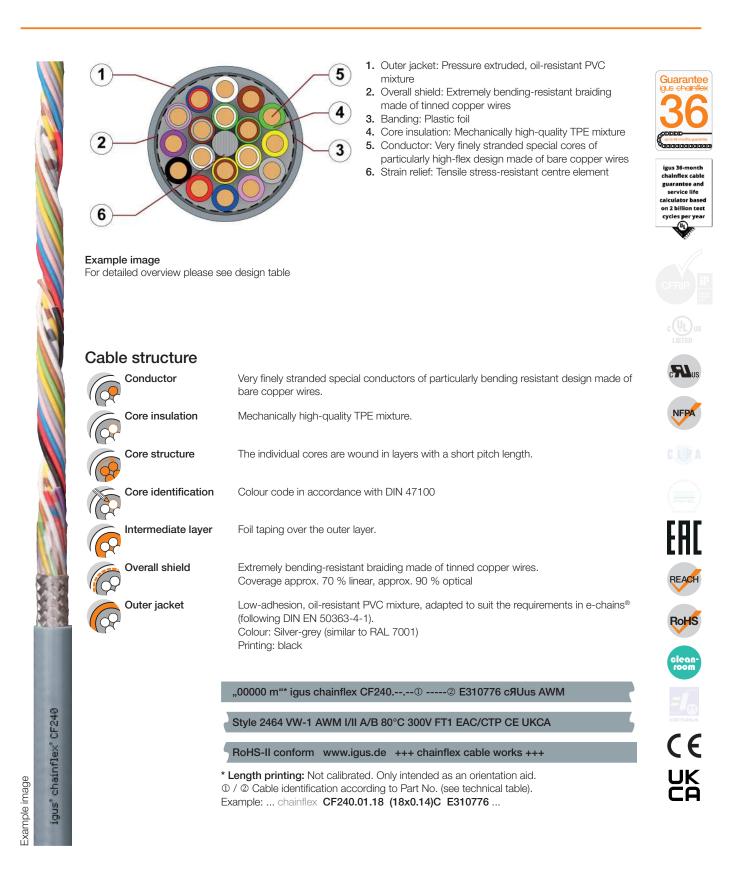


Data cable (Class 4.4.2.1) ● For medium duty applications ● PVC outer jacket ● Shielded ● Oil-resistant ● Flame retardant





Guarantee

guarantee and service life calculator based on 2 billion test cycles per year

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Dynamic information

Bend radius	e-chain [®] linear flexible fixed	minimum 10 x d minimum 8 x d minimum 5 x d	
*C Temperature	e-chain [®] linear flexible fixed	+5 °C up to +70 °C -5 °C up to +70 °C (following DIN EN 60811-504) -15 °C up to +70 °C (following DIN EN 50305)	
v max.	unsupported gliding	3 m/s 2 m/s	
a max.	20 m/s ²		
Travel distance	Unsupported travels and up to 50 m for gliding applications, Class 4		

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		llion		nillion	10 m	illion
- .	< 10 m	≥ 10 m	< 10 m	≥ 10 m	< 10 m	≥ 10 m
Temperature, from/to [°C]	R min. [factor x d]					
+5/+15	12.5	15	13.5	16	14.5	17
+15/+60	10	12.5	11	13.5	12	14.5
+60/+70	12.5	15	13.5	16	14.5	17

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

300/300 V (following DIN VDE 0298-3) 300 V (following UL)

Testing voltage

1500 V (following DIN EN 50395)

Example image

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Properties and app	provals	
Oil resistance	Oil-resistant (following DIN EN 50363-4-1), Class 2	
Flame retardant	According to IEC 60332-1-2, Cable Flame, VW-1, FT1, FT2 / Horizontal Flame	poppin up to 36 months guarantee aaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa
Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)	igus 36-month chainflex cable guarantee and
UL verified	Certificate No. B129699: "igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"	service life calculator based on 2 billion test cycles per year
CRUIS UL/CSA AWM	Details see table UL AWM	V
NFPA NFPA	Following NFPA 79-2018, chapter 12.9	
	Certificate No. RU C-DE.ME77.B.00300/19	
REACH	In accordance with regulation (EC) No. 1907/2006 (REACH)	
Lead-free	Following 2011/65/EC (RoHS-II/RoHS-III)	
clean- room	According to ISO Class 1, material/cable tested by IPA according to DIN EN ISO standard 14644-1	NFPA
CECE	Following 2014/35/EU	
	In accordance with the valid regulations of the United Kingdom (as at 08/2021)	DNVGLCOM/AF
CH Properties and an		EAE

Properties and approvals

UL/CSA AWM Details

Conductor nominal cross section [mm²]	Number of cores	UL style core insulation	UL style outer jacket	UL Voltage Rating [V]	UL Temperature Rating [°C]
0.14	3-24	10493	2464	300	80
0.25	3-24	10493	2464	300	80
0.34	2-24	10493	2464	300	80

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08/2022

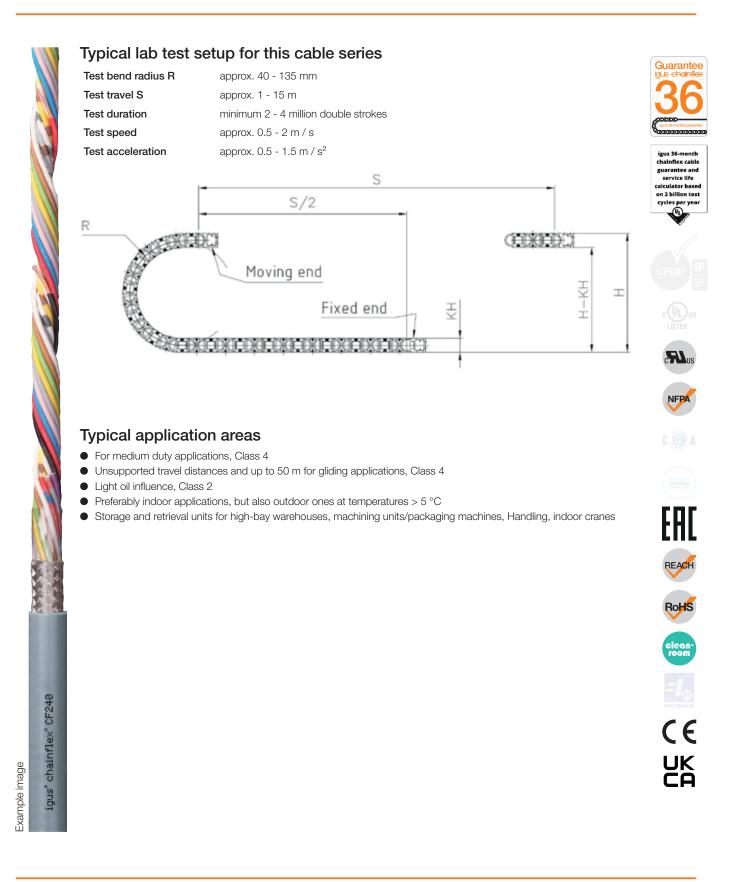
REACH

RoHS

UK CA



Data cable (Class 4.4.2.1) ● For medium duty applications ● PVC outer jacket ● Shielded ● Oil-resistant ● Flame retardant



Data sheet chainflex® CF240



Data cable (Class 4.4.2.1) • For medium duty applications • PVC outer jacket • Shielded • Oil-resistant • Flame retardant

Part No.	Number of cores and conductor nominal cross section	Outer diameter (d) max.	Copper index	Weight	3
	[mm²]	[mm]	[kg/km]	[kg/km]	CODDE
CF240.01.03	(3x0.14)C	5.5	12	28	(<u></u>
CF240.01.04	(4x0.14)C	5.0	17	32	igus : chain guara
CF240.01.05	(5x0.14)C	5.5	19	37	calcul
CF240.01.07	(7x0.14)C	6.0	25	47	on 2 b cycle
CF240.01.14	(14x0.14)C	7.0	41	75	
CF240.01.18	(18x0.14)C	7.5	51	90	
CF240.01.24	(24x0.14)C	8.5	64	125	
CF240.02.03	(3x0.25)C	5.0	19	35	
CF240.02.04	(4x0.25)C	5.5	23	45	
CF240.02.05	(5x0.25)C	6.0	28	49	
CF240.02.07	(7x0.25)C	6.5	35	61	
CF240.02.08	(8x0.25)C	7.0	39	68	2
CF240.02.14	(14x0.25)C	7.5	60	92	6
CF240.02.18	(18x0.25)C	8.5	71	122	
CF240.02.24	(24x0.25)C	10.0	95	161	
CF240.03.02	(2x0.34)C	5.5	21	37	
CF240.03.03	(3x0.34)C	5.5	29	42	
CF240.03.04	(4x0.34)C	6.0	33	51	
CF240.03.05	(5x0.34)C	6.5	38	56	
CF240.03.07	(7x0.34)C	7.5	50	77	ow.
CF240.03.10	(10x0.34)C	8.0	58	97	┢
CF240.03.14	(14x0.34)C	8.0	74	112	L
CF240.03.18	(18x0.34)C	9.0	91	139	RE

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

Electrical information

Conductor nominal cross section	Maximum conductor resistance at 20 °C (following DIN EN 50289-1-2)	Max. current rating at 30 °C
[mm ²]	[Ω/km]	[A]
0.14	138	2.5
0.25	79	5
0.34	57	7

The final maximum current rating depends among other things on the ambient conditions, the type of the installation and the number of loaded cores.

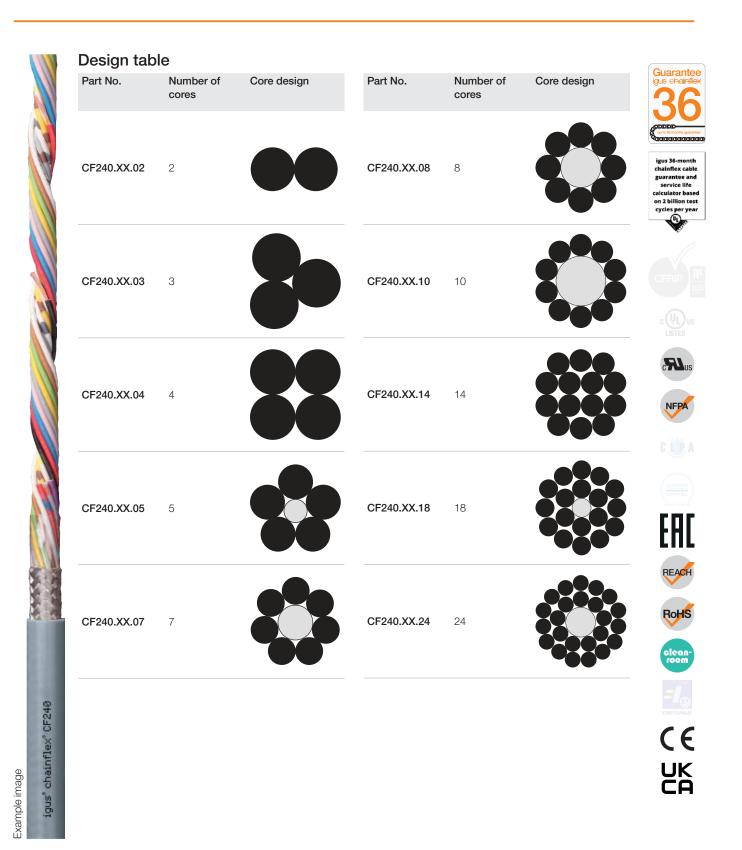
Example image

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Data cable (Class 4.4.2.1) ● For medium duty applications ● PVC outer jacket ● Shielded ● Oil-resistant ● Flame retardant





Guarantee

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Colour code in accordance with DIN 47100

Conductor no.	Colours according to DIN ISO 47100	Conductor no.	Colours according to DIN ISO 47100
1	white	19	white-pink
2	brown	20	pink-brown
3	green	21	white-blue
4	yellow	22	brown-blue
5	grey	23	white-red
6	pink	24	brown-red
7	blue	25	white-black
8	red	26	brown-black
9	black	27	grey-green
10	violet	28	yellow-grey
11	grey-pink	29	pink-green
12	red-blue	30	yellow-pink
13	white-green	31	green-blue
14	brown-green	32	yellow-blue
15	white-yellow	33	green-red
16	yellow-brown	34	yellow-red
17	white-grey	35	green-black
18	grey-brown	36	yellow-black



RoHS

CE

UK CA

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