

Control cable (Class 4.4.2.2) ● For medium duty applications ● PVC outer jacket ● Oil-resistant ● Flame-retardant ● TC-ER (Power and Control Tray Cable)





igus 36-month chainflex cable

guarantee and service life

calculator based on 2 billion test

EN.

néc

NFPA

REACH

RoHS

cycles per yea

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#### Dynamic information e-chain® linear Bend radius minimum 7.5 x d flexible minimum 6 x d fixed minimum 4 x d e-kette® linear +5 °C up to +70 °C Temperature -5 °C up to +70 °C (following DIN EN 60811-504) flexible fixed -15 °C up to +70 °C (following DIN EN 50305) v max. unsupported 3 m/s gliding 2 m/s 20 m/s<sup>2</sup> a max. Travel distance Unsupported travels and up to 50m for gliding applications, Class 4 Torsion ±90°, with 1m cable length, Class 2 Torsion

### Guaranteed service life according to guarantee conditions

Double strokes	5 million		7.5 million		10 million	
Temperature. from/to [°C]	< 10 m	≥ 10 m	< 10 m	≥ 10 m	< 10 m	≥ 10 m
	R min. [factor x d]					
+5/+15	10	12.5	11	13.5	12	14.5
+15/+60	7.5	10	8.5	11	9.5	12
+60/+70	10	12.5	11	13.5	12	14.5

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** 

Kominal voltage

300/500 V (following DIN VDE 0298-3) 600 V TC-ER, 1000 V WTTC, 600 V MTW, 600 V AWM

Testing voltage

2000 V (followingDIN EN 50395)

igus° chainflex° CF150,UL



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Properties and ap	oprovals		
UV resistance	Medium	Guara igus cho	
Oil resistance	Oil resistant (according to DIN EN 50363-4-1), UL Oil Res I, Class 2		
Flame-retardant	According to IEC 60332-1-2, Cable Flame, VW-1, FT1, FT2 / Horizontal Flame, FT4	igus 36-m chainflex guarante	
Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)	service calculator on 2 billio cycles pe	
UL verified	Certificate No. B129699: "igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"		
	TC-ER UL 1277, WTTC UL 2277, MTW UL W63	CFRIF	
UL/CSA AWM	Details see table UL/CSA AWM	. (J.)	
NEC Nec y	In accordance with Article 501 Part II 501.10(B) Class I Division 2 and Article 502 Part II 502.10(B), TC-ER cables may be used in Class I and Class II, Division 2 hazardous areas		
NFPA	Following NFPA 79-2018, chapter 12.9	ne	
REACH	In accordance with regulation (EC) No. 1907/2006 (REACH)	NF	
Lead-free	Following 2011/65/EC (RoHS-II)		
ČE CE	Following 2014/35/EU		
UK <sup>UKCA</sup>	In accordance with the valid regulations of the United Kingdom (as at 08/2021)		
Properties and ap	oprovals	REA	
Conductor nominal cross section [mm <sup>2</sup> ]	Number of UL style core UL style outer UL Voltage UL Temp   cores insultation jacket Rating Rating   [V] [°C	ng	

### **Properties and approvals**

Conductor nominal cross section [mm²]	Number of cores	UL style core insultation	UL style outer jacket	UL Voltage Rating [V]	UL Temperature Rating [°C]
1	3-18	10493	2587	600	90
1.5	3-18	10493	2587	600	90
2.5	3-18	10493	2587	600	90

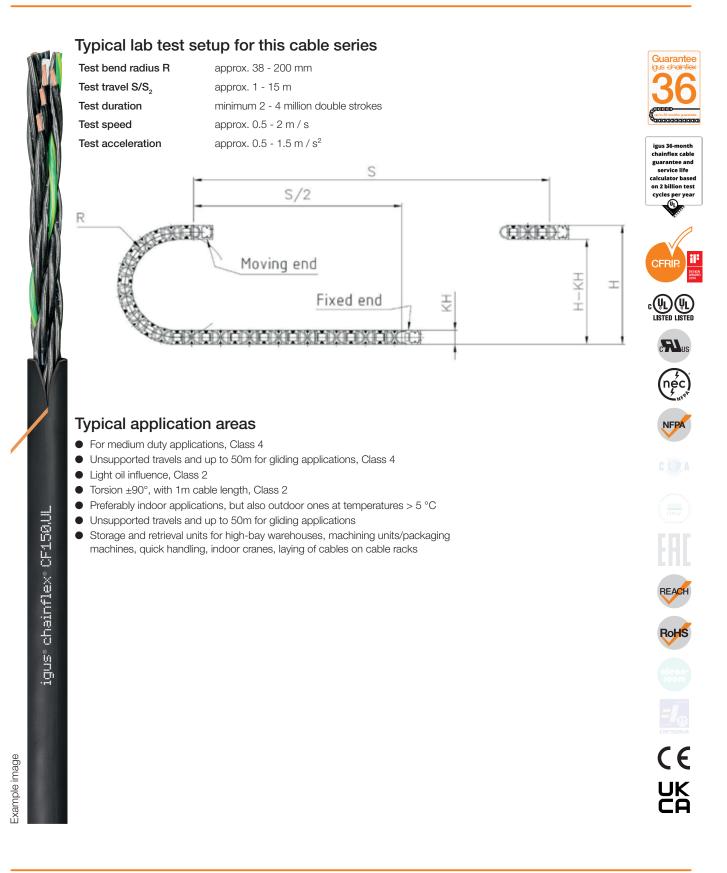
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**C**E

UK



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Toobnical tables:



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Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Outer diameter (d) max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF150.UL.10.03	3G1.0	8.0	30	78
CF150.UL.10.04	4G1.0	8.5	40	94
CF150.UL.10.05	5G1.0	9.0	50	112
CF150.UL.10.07	7G1.0	10.5	70	155
CF150.UL.10.12	12G1.0	15.0	119	281
CF150.UL.10.18	18G1.0	19.0	178	425
CF150.UL.15.03	3G1.5	8.5	45	98
CF150.UL.15.04	4G1.5	9.0	60	122
CF150.UL.15.05	5G1.5	10.0	75	148
CF150.UL.15.07	7G1.5	12.0	104	205
CF150.UL.15.12	12G1.5	16.5	178	365
CF150.UL.15.18	18G1.5	21.0	267	529
CF150.UL.25.03	3G2.5	9.5	75	133
CF150.UL.25.04	4G2.5	10.0	100	164
CF150.UL.25.05	5G2.5	11.0	124	200
CF150.UL.25.07	7G2.5	12.0	173	268
CF150.UL.25.12	12G2.5	18.5	297	502
CF150.UL.25.18	18G2.5	24.5	445	808



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FP/

REACH

RoHS

CE

UK CA

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 [mm <sup>2</sup> ]	(following DIN EN 50289-1-2)	Max. current rating at 30 °C		
[mm-]	[Ω/km]	[A]		
1	19.5	15		
1.5	13.3	18		
2.5	8	26		

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

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