

Medium voltage cable | igupren | chainflex® CFCRANE

36

10 million

Double strokes guaranteed

10 x d

Bend radius, e-chain®

400m

Travel distance, e-chain®

- For maximum voltages and outputs
  - igupren outer jacket
  - Shielded
  - Oil-resistant
- Flame-retardant

Dynamic information

	Bend radius	e-chain® linear	minimum 10 x d
		flexible	minimum 8 x d
		fixed	minimum 5 x d
	Temperature	e-chain® linear	-20°C up to +80°C
		flexible	-25°C up to +80°C (following DIN EN 60811-504)
		fixed	-30°C up to +80°C (following DIN EN 50305)
	v max.	unsupported	10m/s
	a max.	gliding	6m/s
	Travel distance	Unsupported travels and up to 400m and more for gliding applications, Class 6	

Cable structure

	Conductor	Highly-flexible cable consisting of tinned copper wires (following DIN EN 60228).
	Core insulation	Inner and outer semiconducting layer made of conductive rubber. Insulating sheath made of highly-quality, heat-resistant and ozone-proof ethylene propylene rubber (EPR).
	Overall shield	Extremely bending-resistant, tinned copper shield. Coverage approx. 95% optical
	Outer jacket	Low-adhesion iguprene mixture, especially abrasion resistant, adapted to suit the requirements in e-chains® (following VDE 0207, Part 21). Colour: Flame red (similar to RAL 3000)

Electrical information

	Nominal voltage	6/10kV (following DIN VDE 0250), other voltages upon request.
	Testing voltage	17kV (following DIN VDE 0250, Part 813)

Basic requirements  
Travel distance  
Oil resistance  
Torsion

low	1	2	3	4	5	6	7	highest
unsupported	1	2	3	4	5	6	≥ 400m	
none	1	2	3	4	highest			
none	1	2	3	4	±360°			

Class 6.6.3.1

Properties and approvals

	UV resistance	High
	Oil resistance	Oil-resistant (following DIN EN 60811-404)
	Flame-retardant	According to IEC 60332-1-2
	Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)
	UL verified	Certificate No. B129699: "igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"
	REACH	In accordance with regulation (EC) No. 1907/2006 (REACH)
	Lead-free	Following 2011/65/EC (RoHS-II/RoHS-III)
	CE	Following 2014/35/EU
	UKCA	In accordance with the valid regulations of the United Kingdom (as at 08/2021)

Guaranteed service life (details see page 28-29)

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]
-20/-10	12.5	13.5	14.5
-10/+70	10	11	12
+70/+80	12.5	13.5	14.5

\* Higher number of double strokes? Service life calculation online ► [www.igus.eu/chainflexlife](http://www.igus.eu/chainflexlife)

Typical application areas

- For maximum voltages and outputs, Class 6
- Unsupported travels and up to 400m and more for gliding applications, Class 6
- Almost unlimited resistance to oil, Class 3
- No torsion, Class 1
- Indoor and outdoor applications, UV-resistant
- Ship to shore, crane applications, conveyor technology

**i** This cable series will be individually manufactured for your special project. Due to this we do not have this cable on stock, but can offer it exactly for your special demands.

Medium voltage cables available from stock (CFCRANE.PUR) ► [Page 374](#)



igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year



EPLAN download, configurators ► [www.igus.eu/CFCRANE](http://www.igus.eu/CFCRANE)

36-month guarantee ... more than 1,350 cable types from stock ... no cutting charges



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Example image