

Medium voltage cable | igupren | chainflex® CFCRANE

**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

	<b>Bend radius</b>	<b>e-chain® linear</b>	minimum 10 x d
		<b>flexible</b>	minimum 8 x d
		<b>fixed</b>	minimum 5 x d
	<b>Temperature</b>	<b>e-chain® linear</b>	-20°C up to +80°C
		<b>flexible</b>	-25°C up to +80°C (following DIN EN 60811-504)
		<b>fixed</b>	-30°C up to +80°C (following DIN EN 50305)
	<b>v max.</b>	<b>unsupported</b>	10m/s
		<b>gliding</b>	6m/s
	<b>a max.</b>		50m/s²
	<b>Travel distance</b>		Unsupported travels and up to 400m and more for gliding applications, Class 6

Cable structure

	<b>Conductor</b>	Highly-flexible cable consisting of tinned copper wires (following DIN EN 60228).
	<b>Core insulation</b>	Inner and outer semiconducting layer made of conductive rubber. Insulating sheath made of highly-quality, heat-resistant and ozone-proof ethylene propylene rubber (EPR).
	<b>Overall shield</b>	Extremely bending-resistant, tinned copper shield. Coverage approx. 95% optical
	<b>Outer jacket</b>	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

	<b>Nominal voltage</b>	6/10kV (following DIN VDE 0250), other voltages upon request.
	<b>Testing voltage</b>	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

	<b>UV resistance</b>	High
	<b>Oil resistance</b>	Oil-resistant (following DIN EN 60811-404)
	<b>Flame-retardant</b>	According to IEC 60332-1-2
	<b>Silicone-free</b>	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)
	<b>PFAS-free</b>	Use of PFAS-free materials according to the content of the REACH directive and its rules for the production and processing of chemical substances
	<b>UL verified</b>	Certificate No. V293650: “igus 4-year chainflex cable guarantee and service life calculator based on 2 billion test cycles per year”
	<b>REACH</b>	In accordance with regulation (EC) No. 1907/2006 (REACH)
	<b>Lead-free</b>	Following 2011/65/EC (RoHS-II/RoHS-III)
	<b>CE</b>	Following 2014/35/EU

Guaranteed service life (details see page 28-29)

Double strokes*	5 million	7.5 million	10 million
Temperature, from/to [°C]	R min. [x d]	R min. [x d]	R min. [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

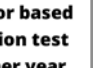
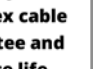
- For maximum voltages and outputs, Class 6
- Unsupported travels and up to 400m and more for gliding applications, Class 6
- Almost unlimited resistance to oil, Class 3
- No torsion, Class 1
- Indoor and outdoor applications, UV-resistant
- Ship to shore, crane applications, conveyor technology

**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 378](#)



igus 4-year chainflex cable guarantee and service life calculator based on 2 billion test cycles per year



Example image

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

4-years guarantee ... more than 1,350 cable types from stock ... no cutting charges



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UL-verified chainflex® guarantee ... [www.igus.eu/ul-verified](http://www.igus.eu/ul-verified)



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