

Motor elements | chainflex® CFCLEAN7

36 20 million
Double strokes guaranteed

Min. 70mm
bend radius e-skin® flat

3m
travel distance e-skin® flat

- For heaviest duty applications in e-skin® flat
- PTFE foil wrap
- Shielded
- Highly abrasion-resistant
- PVC-free

Now with
UL approval
in combination
with e-skin® flat

Dynamic information

 Bend radius	e-skin® flat linear	minimum 70mm (further radii in preparation, please see data sheet)
	fixed	minimum 3 x d
 Temperature	e-skin® linear	-10°C up to +80°C
	fixed	-25°C up to +90°C (following DIN EN 50305)
 v max.	unsupported	2m/s
 a max.		40m/s ²
 Travel distance		Short, very fast applications with small radii and restricted installation space in an e-skin® flat

Cable structure

 Conductor	Very finely stranded special conductors with especially soft and bending resistant design, made of bare copper wires.
 Core insulation	Mechanically high-quality FEP mixture.
 Core structure	Cores wound in a layer with especially short pitch length.
 Core identification	Power cores: White cores with black numbers 1-3, one green-yellow core. 1 Control pair: white, black
 Overall shield	Extremely bending-resistant braiding made of tinned copper wires. Coverage linear approx. 70%, optical approx. 90%
 Outer film	Low-adhesion, extremely abrasion-resistant and highly flexible PTFE wrap, adapted to suit the requirements in e-skin® flat. Colour: White

Electrical information

 Nominal voltage	600/1,000V 600V (following UL)
 Testing voltage	3,000V

Properties and approvals

 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“ See data sheet for details ► www.igus.eu/CFCLEAN7
 UL AWM	
 REACH	In accordance with regulation (EC) No. 1907/2006 (REACH)
 Lead-free	Following 2011/65/EC (RoHS-II/RoHS-III)
 Cleanroom	Air Purity Class 1, material/stranded structure tested by IPA according to ISO 14644-14, test report IG 2107-1242 Following 2014/35/EU
 CE	
 UKCA	In accordance with the valid regulations of the United Kingdom (as at 08/2021)

Typical application areas

- For heaviest duty applications and especially small radii in cleanroom with e-skin® flat
- Especially for short, very fast applications with small radii and restricted installation space
- Indoor applications with e-skin® flat
- Semi-conductor/OLED manufacturing, medical cleanroom



chainflex® CFCLEAN are not cables in the sense of the normal standards for cables. Due to the absence of the outer jacket in CFCLEAN, which provides mechanical protection for cables, the use of chainflex® CFCLEAN is only permitted inside e-skin® flat.

Part No.	Number of cores and conductor nominal cross section [mm ²]	Outer diameter (d) max. [mm]	Copper index [kg/km]	Weight [kg/km]
CFCLEAN7.15.03.02.01	(4G1.5+(2x0.34)C)C	9.5	126	176
CFCLEAN7.15.04	(4G1.5)C	8.0	94	131
CFCLEAN7.PE.25.01	(1G2.5)C	4.5	41	73

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

Guarantee
igus chainflex
36
up to 36 months guarantee

igus 36-month
chainflex cable
guarantee and
service life
calculator based
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cycles per year

CFRIP

CE LISTED

UL

NEC

NFPA

CUPA

DNV

EAC

REACH

RoHS

clean-room

UL

CE

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UL