36

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

R

REACH

RoHS

# Measuring system elements | chainflex® CFCLEAN4







- 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

e-skin® linear

-10°C up to +80°C

Temperature fixed

-25°C up to +90°C (following DIN EN 50305)

v max.

unsupported

a max.

40m/s<sup>2</sup>

Travel distance

Short, very fast applications with small radii and restricted installation space in

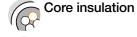
an e-skin® flat

#### Cable structure

Conductor

Very finely stranded special conductors with especially soft and bending

resistant design, made of bare copper wires. Mechanically high-quality FEP mixture.



Core structure According to measuring system specification.



Core identification According to measuring system specification.



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**

300/300V Nominal voltage

300V (following UL)

2,000V Testing voltage

Properties and approvals

UL verified

Silicone-free

Free from silicone which can affect paint adhesion (following PV 3.10.7 – status

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/CFCLEAN4

**FLI** UL AWM

REACH REACH In accordance with regulation (EC) No. 1907/2006 (REACH)

RoHS 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

( **E**CE

Following 2014/35/EU

**UK** 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<sup>®</sup> flat
- Especially for short, very fast applications with small radii and restricted installation space
- Indoor applications with e-skin<sup>®</sup> 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 [mm²]	Outer diameter (d) max. [mm]	Copper index [kg/km]	Weight [kg/km]
CFCLEAN4.015	(4x(2x0.14)+4x0.5)C	6.5	60	77

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

Part No.	Core group	Colour code
CFCLEAN4.015	4x(2x0.14)	brown/green, yellow/violet, grey/pink, red/black
	4x0.5	blue, white, brown-green, white-green



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