

Measuring system elements | chainflex® CFCLEAN4

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/s² |
| | 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 | 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

| | | |
|--|-----------------|---------------------------------|
| | Nominal voltage | 300/300V 300V (following UL) |
| | Testing voltage | 2,000V |

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/CFCLEAN4 |
| | 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 [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 |

Guarantee

igus chainflex

36

up to 36 months guarantee

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