Class 7.5.4.1

|  | Silicone-free |
| :---: | :---: |
| h. | Halogen-free |
|  | UL verified |
|  | EAC |
|  | REACH |
|  | Lead-free |
|  | Cleanroom |
| C | CE |

Free from silicone which can affect paint adhesion (following PV 3.10.7 - status 1992) Following DIN EN 60754

Certificate No. B129699: igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year Certificate No. RU C-DE.ME77.B.00300/19 (TR ZU)

In accordance with regulation (EC) No. 1907/2006 (REACH)
Following 2011/65/EC (RoHS-II/RoHS-III)
According to ISO Class 1. The outer jacket material of this series complies with CF9.15.07 - tested by IPA according to standard DIN EN ISO 14644-1 Following 2014/35/EU

Guaranteed service life (details see page 26-27)

| Cycles* | 20 million | 30 million | 40 million |
| :---: | :---: | :---: | :---: |
| Temperature, from/to [`] | R min. [factor x d] | $\begin{gathered} \mathrm{R} \text { min. } \\ {[\text { factor } \times \mathrm{d}]} \end{gathered}$ | $\begin{gathered} \mathrm{R} \text { min. } \\ \text { [factor } \mathrm{x} \text { d] } \end{gathered}$ |
| -31/-13 | 5 | 6 | 7 |
| -13/+176 | 4 | 5 | 6 |
| +176/+194 | 5 | 6 | 7 |

Typical application areas

- For maximum mechanical load requirements and especially small bend radii to $4 \times \mathrm{d}$, Class 7
- Especially for short, very fast applications with small radii and restricted installation space, Class 5
- Almost unlimited resistance to oil, also with bio-oils, Class 4
- Indoor and outdoor applications, UV-resistant
- Pick and place machines, Automatic doors, Cleanroom, very quick handling

| Part No. | AWG | Number of Conductors and rated cross section [mm] | Outer diameter max. |  | Copper index |  | Weight |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | [in.] | [mm] | [lbs/mft] | [kg/km] | [lbs/mft] | [kg/km] |
| CF99-01-02 | 26 | $2 \times 0.14$ | 0.24 | 6.0 | 8.1 | 12 | 24.9 | 37 |
| CF99-01-04 | 26 | $4 \times 0.14$ | 0.26 | 6.5 | 11.4 | 17 | 31.6 | 47 |
| CF99-01-08 | 26 | $8 \times 0.14$ | 0.31 | 8.0 | 19.5 | 29 | 51.1 | 76 |
| CF99-02-04 | 24 | $4 \times 0.25$ | 0.28 | 7.0 | 16.1 | 24 | 40.3 | 60 |
| CF99-03-08 | 22 | $8 \times 0.34$ | 0.37 | 9.5 | 30.2 | 45 |  |  |

## Overall shield <br> (1) <br> Outer jacket

Electrical Information
4u Nominal voltage
ATest voltage
roperties and approvals
UV) UV resistance
Oil resistance
Oil-resistant (following DIN EN 60811-404), bio-oil-resistant (following VDMA 24568 with Plantocut 8 S-MB tested by DEA), Class 4
Highly flexible, alloyed special shield.
$90 \%$ optical coverage
Low-adhesion mixture on the basis of TPE, especially abrasion-resistant and highly flexible, adapted to suit the requirements in E -Chains ${ }^{\circledR}$ Color: Dark blue (similar to RAL 5011)

300 V
1500 V

## High

- Oil and bio-oil-resistant
- PVC and halogen-free
- Low-temperature-flexibility
- Hydrolysis and microbe-resistant

E-Chain ${ }^{\circledR}$ linear
flexible min. $3 \times d$
E-Chain linear $-31^{\circ} \mathrm{F}$ to $+194^{\circ} \mathrm{F}\left(-35^{\circ} \mathrm{C}\right.$ to $\left.+90^{\circ} \mathrm{C}\right)$ fixed $\quad-67^{\circ} \mathrm{F}$ to $+194^{\circ} \mathrm{F}\left(-55^{\circ} \mathrm{C}\right.$ to $\left.+90^{\circ} \mathrm{C}\right)$ unsupported $\quad 32.81 \mathrm{ft} / \mathrm{s}(10 \mathrm{~m} / \mathrm{s})$
gliding $328.1 \mathrm{ft} / \mathrm{s}^{2}\left(100 \mathrm{~m} / \mathrm{s}^{2}\right)$

Short, very fast applications with small radii and restricted installation space, Class 5

Conductor consisting of a highly flexible stranded special alloy
Mechanically high-quality TPE mixture
Conductors cabled in one layer with especially short pitch length.
Color code in accordance with DIN 47100 .
TPE mixture adapted to suit the requirements in E-Chains ${ }^{\circledR}$

Note: The given outer diameters are maximum values.
$\mathrm{G}=$ with green-yllow earth core $\mathrm{x}=$ without earth core


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