Oil-resistant (following DIN EN 60811-404), bio-oil-resistant (following VDMA

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

Use of PFAS-free materials according to the content of the REACH directive

Certificate No. V293650: "igus 4-year chainflex cable guarantee and

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

R min.

[x d]

and its rules for the production and processing of chemical substances

service life calculator based on 2 billion test cycles per year"

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

Following 2011/65/EC (RoHS-II/RoHS-III)

24568 with Plantocut 8 S-MB tested by DEA), Class 4

Basic requirements

High

Class 7.5.4.2

Properties and approvals

Oil resistance

UV resistance

Silicone-free

Halogen-free

PFAS-free

UL verified

REACH REACH

RoHS Lead-free

(**E**CE

Cleanroom

Temperature,

from/to [°C]

-35/-25 -25/+80

+80/+90

Typical application areas

Guaranteed service life (details see page 28-29)

Oil resistance

Following DIN EN 60754

Following 2014/35/EU

R min.

[x d]

* Higher number of double strokes? Service life calculation online ▶ www.igus.eu/chainflexlife

• Especially for short, very fast applications with small radii and restricted installation space, Class 5

• For heaviest duty applications and very small radii down to 3 x d, Class 7

• Pick and place machines, automatic doors, cleanroom, very quick handling

Almost unlimited resistance to oil, also with bio-oils, Class 4

• Torsion ±90°, with 1m cable length, Class 2

• Indoor and outdoor applications, UV-resistant

Torsion

CF98.PLUS TPE 3xd





















igus 4-year chainflex cable

guarantee and service life calculator based on 2 billion test

cycles per year

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Control cable | TPE | chainflex® CF98.PLUS







- For heaviest duty applications and very small radii down to 3 x d
- TPE outer jacket
- Oil and bio-oil-resistant
- PVC and halogen-free
- Low-temperature-flexible
- Hydrolysis and microbe-resistant

100 million double strokes in e-chains® guaranteed!

Dynamic information

Bend radius	e-chain® linear	minimum 3 x d
	flexible	minimum 3 x d
Temperature	fixed	minimum 3 x d
	e-chain® linear	-35°C up to +90°C
	flexible	-50°C up to +90°C

flexible -50°C up to +90°C (following DIN EN 60811-504)

fixed -55°C up to +90°C (following DIN EN 50305) 10m/s unsupported

v max. gliding 6m/s a max.

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

Class 5

Torsion

Conductor	Conductor consisting of a highly flexible special alloy.
1(0)	

Core structure Cores wound in a layer with especially short pitch length.

Core identification Colour code in accordance with DIN 47100. CF98.PLUS.02.03.INI: brown, blue, black

Outer jacket adapted to suit the requirements in e-chains®.

CF98,PLUS

chainflex

Testing voltage

,		
Bend radius	e-chain® linear	minimum 3 x d
R	flexible	minimum 3 x d
	fixed	minimum 0 v d

100m/s²

Torsion ±90°, with 1m cable length, Class 2

Cable structure

Conductor	Conductor consisting of a highly flexible special alloy.

Core insulation Mechanically high-quality TPE mixture.

CF98.PLUS.03.04.INI: brown, blue, black, white

Low-adhesion, extremely abrasion-resistant and highly flexible TPE mixture,

Colour: Steel blue (similar to RAL 5011)

Electrical information

Nominal voltage 300/500 V (following DIN VDE 0298-3)

2,000 V (following DIN EN 50395)

Guarantee

R min.

[x d]

Guarantee igus chainflex



igus 4-year



















Control cable | TPE | chainflex® CF98.PLUS

igus° chainflex° CF98.PLUS

Example image

Part No.	Number of cores and conductor nominal cross section [mm²]	Outer diameter (d) max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF98.PLUS.01.02	2x0.14	4.5	4	18
CF98.PLUS.01.03	3x0.14	4.5	6	20
CF98.PLUS.01.04	4x0.14	5.0	7	25
CF98.PLUS.01.08	8x0.14	6.5	15	45
CF98.PLUS.02.03.INI	3x0.25	5.0	10	29
CF98.PLUS.02.04	4x0.25	5.5	14	36
CF98.PLUS.02.08	8x0.25	7.5	29	68
CF98.PLUS.03.04.INI	4x0.34	6.0	15	38
CF98.PLUS.05.04	4x0.5	6.0	32	53

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



Cables available in the chainflex® CASE

Simple savings on delivery, storage space and re-ordering with the chainflex® CASE - ship'n store by igus®.

More on this on page 24/25 and online: www.igus.eu/cf-case





Order example: CF98.PLUS.01.02 – to your desired length (0.5m steps) CF98.PLUS chainflex® series .01 Code nominal cross section .02 Number of cores



Order online ► www.igus.eu/CF98PLUS



Delivery time 24hrs or today.

Delivery time means time until goods are shipped.



times, 99% availability. These are the requirements that innovative

The new generation of chainflex® CF98.PLUS (unshielded) and chainflex® CF99.PLUS (shielded) control cables are a consistent development of the well-known, highly successful CF98/CF99 and CF298 and CF299 control cable series.

conductor materials supported by a wide variety of test series in the control cables.

bend radius of just 3 x d (3 x cable diameter).

The cross-sectional areas range from 0.14mm² to 0.5mm² in both the shielded and unshielded versions.

goods for use in an e-chain® with a guaranteed service life of 100 million double strokes!

This is with acceleration values of up to 100m/s².