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TPE outer jacket

**Dynamic Information** 

Bend radius

v max.

a max.

Travel distance

Torsion

Cable structure

Conductor

Conductor insulation Conductor

Color code

Conductor

construction

Outer jacket

**Electrical Information** 

Test voltage

Properties and approvals

**UV** resistance

Oil resistance

Silicone-free

Halogen-free

Nominal voltage

Temperature

Cycles guaranteed

For maximum mechanical load

requirements and especially

small bend radii to 4 x d

E-Chain® linear min. 4 x d

flexible

flexible

gliding

300 V

1500 V

36 month guarantee ... 1,354 types from stock ... no cutting charges

Following DIN EN 60754

unsupported

328.1 ft/s<sup>2</sup> (100 m/s<sup>2</sup>)

fixed

fixed

Bend radius E-Chain®

min. 4 x d

min. 3 x d

**E-Chain® linear** -31 °F to +194 °F (-35 °C to +90 °C)

32.81 ft/s (10 m/s)

19.69 ft/s (6 m/s)

Torsion ±90°, with 3.281ft (1m) cable length, Class 2

Mechanically high-quality TPE mixture.

Color code in accordance with DIN 47100. CF98-02-03-INI: brown, blue, black CF98-03-04-INI: brown, blue, black, white

Color: Dark blue (similar to RAL 5011)

Conductor consisting of a highly flexible stranded special alloy.

Conductors cabled in one layer with especially short pitch length.

highly flexible, adapted to suit the requirements in E-Chains®.

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

Oil and bio-oil-resistant

Low-temperature-flexibility

Hydrolysis and microbe-resistant

PVC and halogen-free

-58 °F to +194 °F (-50 °C to +90 °C)

-67 °F to +194 °F (-55 °C to +90 °C)

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

Low-adhesion mixture on the basis of TPE, especially abrasion-resistant and

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

ravel distance E-Chain®

### Class 7.5.4.2

Cleanroom

( **C**E CE

UL verified

Certificate No. B129699: igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year

EAC Certificate No. RU C-DE.ME77.B.00300/19 (TR ZU)

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

RoHS Lead-free 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)

20 million	30 million	40 million R min. [factor x d]		
R min. [factor x d]	R min. [factor x d]			
5	6	7		
4	5	6		
5	6	7		
	R min.	R min. R min. [factor x d] 5 6 4 5		

<sup>\*</sup> Higher number of cycles? Online lifetime calculation ▶ www.chainflex.com/chainflexlife

#### Typical application areas

- For maximum mechanical load requirements and especially small bend radii to 4 x 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
- Torsion ±90°, with 3.281ft (1m) cable length, Class 2
- 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	Outer diameter max.		Copper index		Weight	
		[mm²]	[in.]	[mm]	[lbs/mft]	[kg/km]	[lbs/mft]	[kg/km]
CF98-01-02	26	2 x 0.14	0.18	4.5	3.4	5	12.1	18
CF98-01-03	26	3 x 0.14	0.18	4.5	4.0	6	13.4	20
CF98-01-04	26	4 x 0.14	0.20	5.0	5.4	8	16.8	25
CF98-01-08	26	8 x 0.14	0.26	6.5	10.1	15	28.9	43
CF98-02-03-INI	24	3 x 0.25	0.20	5.0	7.4	11	19.5	29
CF98-02-04	24	4 x 0.25	0.22	5.5	10.1	15	24.2	36
CF98-02-07 11)	24	7 x 0.25	0.28	7.0	16.8	25	39.6	59
CF98-02-08	24	8 x 0.25	0.30	7.5	20.2	30	45.0	67
CF98-03-04-INI	22	4 x 0.34	0.24	6.0	10.1	15	26.2	39
CF98-05-04	20	4 x 0.5	0.24	6.0	22.2	33	35.6	53

<sup>11)</sup> Phase-out model

Note: The given outer diameters are maximum values.

G = with green-yellow earth core x = without earth core

#### cost down...



#### Reduce cost, improve technology, now!

Do the chainflex® price check now ... www.igus.com/info/cable-price-check

... just one idea for you: Reduce cost with CF298

## Control cable | TPE | chainflex® CF98

# 36























