



chainflex® type

chainflex®	Jacket	Shield	Min. bending radius, moved [factor x d]	Temperature, moved from/to [°C]	Approvals and standards	Oil-resistant	Torsion resistant	v max. [m/s] unsupported	v max. [m/s] gliding	a max. [m/s²]	Page
Power cable	es										
CF30	PVC		7,5	-5/ +70	C € 💝 🔤 😩 🗚 🕏	•	•	10	5	80	204
CF31	PVC	~	7,5	-5/ +70	C € 🕏 🔤 😩 🗚 🕏	~		10	5	80	206
CF34.UL.D	TPE		7,5	-35/ +90	C € 😇 🔤 🈩 🚜 🕏 🔣	~	•	10	6	80	208
CF35.UL	TPE	•	7,5	-35/ +90	C € 😇 🔤 🥮 📆 🕝	•		10	6	80	210
CF37.D	TPE		7,5	-35/ +90	C € 💖 🔤 🍇	•	•	10	6	80	212
CF38	TPE	~	7,5	-35/ +90	C € 💖 🔚	•		10	6	80	214
CF300.UL.D	TPE		7,5	-35/ +90	C € 😇 🔤 😩 🗚 🕏 🛂	•	•	10	6	100	216
CFPE	TPE		7,5	-35/ +90	C € 💝 🔤 😩 📆 🕏	•	•	10	6	100	218
CF310.UL	TPE	•	7,5	-35/ +90	C € 😇 🔤 🈩 🗚 🕏	•		10	6	100	220
CF330.D	TPE		7,5	-35/ +90	C € 🤭 🔤 🏂	•	•	10	6	100	222
CF340	TPE	•	7,5	-35/ +90	C € 💖 ≔	•		10	6	100	224
CF CRANE i	guprene	· /	10	-20/ +80	C€ 🦁	~		10	6	50	226
Power cable	s (Cha	apte	r "Spec	ial cable	s" ▶ 254)						
CF FLAT	TPE		5	-35/ +90	(€ 💖 🔤	~		10	6	100	260
CF BRAID	TPE		7,5	-35/ +70	C € 🕏 🔤 😩 🌠	~		10	6	80	262
CF BRAID.C	TPE	~	7,5	-35/ +70	(€ 🍠 🔤 🈩	~		10	6	80	262
Pneumatic h	oses										
CFAIR	PU		10	-25/ +80	(Notes)	~		10	6	50	228
CF Clean AIF	R PE		10	-25/ +60	Roles	~		10	6	50	230

- PVC outer jacket
- oil-resistant
- flame-retardant



Conductor

< 10 mm²: Fine-wire stranded conductor in especially bendingresistant version consisting of bare copper wires (following EN 60228). ≥ 10 mm²: conductor cable consisting of pre-leads

(following EN 60228).

Core insulation

Mechanically high-quality, especially low-capacitance TPE

Core stranding

Cores stranded in short pitch lengths over a centre for high

Core identification

Energy conductor: Cores black with white numerals, one core green-yellow.

1. core: U / L1 / C / L+ 2. core: V / L2

3. core: W / L3 / D / L- 4. core: 4 / N

Outer jacket

Low-adhesion, oil-resistant mixture on the basis of PVC, adap-

ted to suit the requirements in energy chains® (following DIN VDE

0281 Part 13).

10 m/s, 5 m/s

Colour: Jet black (similar to RAL 9005)

-5 °C to +70 °C following DIN EN 60811, part 1-4 chapter 8.2.

+5 °C to +70 °C for use in energy chains® with > 50.000 cycles.

Minimum bending radius 7,5 x d.

[°C]

T/R fixed

-20 °C to +70 °C, minimum bending radius 4 x d



unsupported/gliding

a max. 80 m/s²



Travel distance

Freely suspended and gliding travel distances up to 100 m,

Class 3

Torsion

± 90°, with 1 m cable length



UV-resistant

Medium



Nominal voltage

600/1000 V (following DIN VDE 0250)

Testing voltage

4000 V (following DIN VDE 0281-2).

oil 🖢

Oil Oil-resistant (following DIN EN 50363-4-1), Class 2.



Flame-retardant

According to IEC 60332-1-2, CEI 20-35, FT1, VW-1



eplan download, configurator ▶ www.igus.eu/en/CF30

950 types from stock no cutting costs ...

(for up to 10 cuts of the same type)

Class 5.3.2 (5 high load requirements 3 travel distance up to 100 m 2 oil-resistant)

Silicon-free Free from silicon which can affect paint adhesion

Following CEI 20-35

(following PV 3.10.7 - status 1992).

UL/CSA

CEI

Style 10492 and 2570, 1000 V, 80 °C

NEPA

NFPA Following NFPA 79-2012 chapter 12.9 (starting from manufacturing date 9/2011)

CE Following 2006/95/EG

Lead free Following 2011/55/EU (RoHS-II)

According to ISO Class 2. Outer jacket material complies with CF5.10.07, tested by IPA

according to standard 14644-1.

Typical application area

Clean room

- for high load requirements
- light oil influence
- preferably indoor applications, but also outdoor ones at temperatures > 5 °C
- especially for freely suspended and gliding travel distances up to 100 m.
- Storage and retrieval units for high-bay warehouses, machining units/packaging machines, quick handling, indoor cranes

Delivery program	Number of cores and	External	Copper	Weight	
Part No.	conductor nominal	diameter	index	[kg/km]	
	cross section [mm²]	approx. [mm]	[kg/km]		
CF30.15.04	4 G 1,5	8,5	58	105	
CF30.25.04	4 G 2,5	10,5	96	165	
CF30.25.05	5 G 2,5	11,5	125	199	
CF30.40.04	4 G 4,0	12,0	158	242	
CF30.40.05	5 G 4,0	13,0	198	295	
CF30.60.04	4 G 6,0	14,0	239	351	
CF30.60.05	5 G 6,0	15,0	290	417	
CF30.100.04	4 G 10,0	18,0	411	581	
CF30.100.05	5 G 10,0	20,0	517	731	
CF30.160.04	4 G 16,0	21,0	639	904	
CF30.160.05	5 G 16,0	24,0	800	1132	
CF30.250.04	4 G 25,0	26,0	1020	1425	
CF30.350.04	4 G 35,0	29,0	1420	1810	
CF30.500.04	4 G 50,0	35,0	1990	2675	

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits

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



Order example: CF30.15.04 – in your desired length (0,5 m steps) CF30 chainflex® series .15 Code nominal cross section .04 Number of cores



Please use www.chainflex.eu/en/CF30 for your online order.



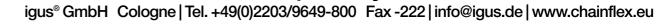
Delivery time 24h or today.

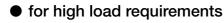
Delivery time means time until shipping of goods.

... no minimum order quantity ...



c**Fl**us





- PVC outer jacket
- shielded
- oil-resistant
- flame-retardant



Conductor

< 10 mm²: Fine-wire stranded conductor in especially bendingresistant version consisting of bare copper wires (following EN 60228). ≥ 10 mm²: conductor cable consisting of pre-leads (following EN 60228).

Core insulation

Mechanically high-quality, especially low-capacitance TPE

Core stranding

Cores stranded in short pitch lengths over a centre for high

Core identification

Energy conductor: Cores black with white numerals, one core green-yellow.

1. core: U / L1 / C / L+ 2. core: V / L2 3. core: W / L3 / D / L- 4. core: 4 / N

PVC mixture adapted to suit the requirements in energy chains[®].

Overall shield

Outer jacket

T/R moved

Inner jacket

Extremely bending-resistant braiding made of tinned copper

wires. Coverage approx. 70% linear, approx. 90% optical. Low-adhesion, oil-resistant mixture on the basis of PVC, adap-

ted to suit the requirements in energy chains[®] (following DIN VDE

0281 Part 13). Colour: Jet black (similar to RAL 9005)

-5 °C to +70 °C following DIN EN 60811, part 1-4 chapter 8.2. +5 °C to +70 °C for use in energy chains® with > 50.000 cycles.

Minimum bending radius 7,5 x d.

T/R fixed

-20 °C to +70 °C, minimum bending radius 4 x d

unsupported/gliding

a max.

Freely suspended and gliding travel distances up to 100 m, Travel distance

Class 3

80 m/s²

10 m/s, 5 m/s

UV-resistant

Medium

600/1000 V (following DIN VDE 0250) Nominal voltage

Testing voltage 4000 V (following DIN VDE 0281-2).

oil 🖢

Oil-resistant (following DIN EN 50363-4-1), Class 2.

Flame-retardant According to IEC 60332-1-2, CEI 20-35, FT1, VW-1



HAINFLEX CF31

eplan download, configurator ▶ www.igus.eu/en/CF31

950 types from stock no cutting costs ...

(for up to 10 cuts of the same type)

Class 5.3.2 (5 high load requirements 3 travel distance up to 100 m 2 oil-resistant)

Silicon-free Free from silicon which can affect paint adhesion

(following PV 3.10.7 - status 1992).

UL/CSA

NFPA

CEI

Style 10492 and 2570, 1000 V, 80 °C

NEPA

Following NFPA 79-2012 chapter 12.9 (starting from manufacturing date 9/2011)

Following CEI 20-35



CE Following 2006/95/EG



Lead free Following 2011/55/EU (RoHS-II)



Clean room According to ISO Class 2. Outer jacket material complies with CF5.10.07, tested by IPA

according to standard 14644-1.

Typical application area

- for high load requirements
- light oil influence

- preferably indoor applications, but also outdoor ones at temperatures > 5 °C
- especially for freely suspended and gliding travel distances up to 100 m
- Storage and retrieval units for high-bay warehouses, machining units/packaging machines, quick handling, indoor cranes

Delivery program	Number of cores and	External	Copper	Weight
Part No.	conductor nominal	diameter	index	[kg/km]
	cross section [mm²]	approx. [mm]	[kg/km]	
CF31.15.04	(4 G 1,5)C	10,5	85	171
CF31.25.04	(4 G 2,5)C	12,0	129	237
CF31.25.05	(5 G 2,5)C	13,0	158	280
CF31.40.04	(4 G 4,0)C	13,5	197	326
CF31.40.05	(5 G 4,0)C	15,0	253	397
CF31.60.04	(4 G 6,0)C	16,0	299	475
CF31.60.05	(5 G 6,0)C	18,0	362	577
CF31.100.04	(4 G 10,0)C	21,0	501	772
CF31.100.05	(5 G 10,0)C	23,0	624	934
CF31.160.04	(4 G 16,0)C	24,0	748	1090
CF31.250.04	(4 G 25,0)C	28,5	1160	1643
CF31.350.04	(4 G 35,0)C	32,5	1570	2155
CF31.500.04	(4 G 50,0)C	38,5	2180	3125
CF31.700.04 ⁽⁵⁾	(4 G 70,0)C	46,5	3140	4367

(5) Cable with PVC core insulation, UL-Style 10579 and 2570, 600 V, 80°

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits

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



Order example: CF31.25.04 – in your desired length (0,5 m steps) CF31 chainflex® series .25 Code nominal cross section .04 Number of cores



Please use www.chainflex.eu/en/CF31 for your online order.



Delivery time 24h or today.

Delivery time means time until shipping of goods.



... no minimum order quantity ... igus® GmbH Cologne | Tel. +49(0)2203/9649-800 Fax -222 | info@igus.de | www.chainflex.eu c**Fl**us

TPE Power cable | CF34.UL.D

• for maximum load requirements

● TPE outer jacket

oil-resistant

biooil-resistant

flame-retardant

UV-resistant

hydrolysis-resistant and microbe-resistant

Conductor < 10 mm²: Fine-wire stranded conductor in especially bending-

resistant version consisting of bare copper wires (following EN 60228). ≥ 10 mm²: conductor cable consisting of pre-leads

(following EN 60228).

Core insulation

Mechanically high-quality, especially low-capacitance TPE

nixture

Core stranding

Cores stranded in short pitch lengths over a centre for high

ensile stresses

Core identification

Energy conductor: Cores black with white numerals, one core green-yellow.

1. core: U/L1/C/L+ 2. core: V/L2

3. core: W / L3 / D / L- 4. core: 4 / N

Outer jacket Low-adhesion mixture on the basis of TPE, especially abrasion-

resistant and highly flexible, adapted to suit the requirements in energy chains®. Colour: Jet black (similar to RAL 9005)

-35 °C to +90 °C, minimum bending radius 7,5 x d

T/R moved

T/R fixed -40 °C to +90 °C, minimum bending radius 4 x d

V R

v max. 10 m/s, 6 m/s

unsupported/gliding

a max. 80 m/s²

Travel distance

Freely suspended and gliding travel distances up to 400 m and

more, Class 4

Torsion

 \pm 90 °, with 1 m cable length

±90°

UV-resistant High



Nominal voltage 600/1000 V (following DIN VDE 0250).

À

Testing voltage 4000 V (following DIN VDE 0281-2).

oil •

Oil

Oil-resistant (following DIN EN 60811-2-1), biooil-resistant (fol-

lowing VDMA 24568 with Plantocut 8 S-MB tested by DEA),

Class 4.

Flame-retardant According to IEC 60332-1-2, CEI 20-35, FT1, VW-1



Silicon-free Free from silicon which can affect paint adhesion

(following PV 3.10.7 - status 1992).



LEX CF34.UL.D

eplan download, configurator ▶ www.igus.eu/en/CF34

950 types from stock no cutting costs ...

(for up to 10 cuts of the same type)

Class 6.4.4 (6 maximum load requirements 4 travel distance up to 400 m and more 4 oil-resistant)

CF34.UL.D TPE 7,5 x d

UL/CSA Style 10492 and 21184, 1000 V, 80 °C

HEPA

NFPA Following NFPA 79-2012 chapter 12.9 (starting from manufacturing date 9/2011)

CEI Following CEI 20-35

CE Following 2006/95/EG

DESINA According to VDW, DESINA standardisation

Following 2011/55/EU (RoHS-II)

RoHS

Clean room According to ISO Class 1, material/cable tested by IPA according to ISO standard 14644-1

Clean-Room

Typical application area

Lead free

- for maximum load requirements
- almost unlimited resistance to oil, also with bio-oils
- Indoor and outdoor applications, UV-resistant
- especially for freely suspended and gliding travel distances up to 400 m and more
- Storage and retrieval units for high-bay warehouses, machining units/machine tools, quick handling, clean room, semiconductor insertion, ship to shore, outdoor cranes, low-temperature applications

Delivery program	Number of cores and	External	Copper	Weight	
Part No.	conductor nominal	diameter	index	[kg/km]	
	cross section [mm ²]	approx. [mm]	[kg/km]		
CF34.UL.15.04.D	4 G 1,5	8,5	58	109	
CF34.UL.25.04.D	4 G 2,5	10,5	96	162	
CF34.UL.40.04.D	4 G 4,0	12,0	158	239	
CF34.UL.60.04.D	4 G 6,0	14,0	239	351	
CF34.UL.60.05.D	5 G 6,0	15,5	285	420	
CF34.UL.100.04.D	4 G 10,0	17,0	411	549	
CF34.UL.100.05.D	5 G 10,0	19,5	517	687	
CF34.UL.160.04.D	4 G 16,0	20,5	633	817	
CF34.UL.160.05.D	5 G 16,0	23,0	800	1072	
CF34.UL.250.04.D	4 G 25,0	25,0	994	1266	
CF34.UL.60.04.O.PE.D ⁽¹⁾	4 x 6,0	14,0	239	351	
CF34.UL.100.04.O.PE.D	4 x 10,0	17,0	411	549	
CF34.UL.160.04.O.PE.D	4 x 16,0	20,5	633	817	
CF34.UL.500.03.O.PE.D	3 x 50,0	31,0	1490	2028	

Other types available on request. (1) Delivery time upon inquiry.

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

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



Order example: CF34.UL.160.04.D – in your desired length (0,5 m steps) CF34.UL.D chainflex® series .160 Code nominal cross section .04 Number of cores



Please use www.chainflex.eu/en/CF34 for your online order.



Delivery time 24h or today.

Delivery time means time until shipping of goods.

... no minimum order quantity ...









IFLEX" CF35.UL

- TPE outer jacket
- shielded
- oil-resistant, biooil-resistant
- flame-retardant
- UV-resistant
- hydrolysis-resistant and microbe-resistant

Conductor Core insulation

Inner jacket

Outer jacket

T/R moved

[°C]

< 10 mm²: Fine-wire stranded conductor in especially bendingresistant version consisting of bare copper wires (following EN

60228). ≥ 10 mm²: conductor cable consisting of pre-leads (following EN 60228).

Mechanically high-quality, especially low-capacitance TPE

Core stranding Cores stranded in short pitch lengths over a centre for high

Core identification **Energy conductor:** Cores black with white numerals, one core green-yellow.

> 1. core: U / L1 / C / L+ 2. core: V / L2 3. core: W / L3 / D / L- 4. core: 4 / N

TPE mixture adapted to suit the requirements in energy chains[®].

Overall shield Extremely bending-resistant braiding made of tinned copper

> wires. Coverage approx. 70% linear, approx. 90% optical. Low-adhesion mixture on the basis of TPE, especially abrasion-

resistant and highly flexible, adapted to suit the requirements in

energy chains®.

Colour: Jet black (similar to RAL 9005)

-35 °C to +90 °C, minimum bending radius 7,5 x d

T/R fixed -40 °C to +90 °C, minimum bending radius 4 x d

10 m/s, 6 m/s

unsupported/gliding

a max. 80 m/s²

Freely suspended and gliding travel distances up to 400 m Travel distance

and more, Class 4

UV-resistant

600/1000 V (following DIN VDE 0250) Nominal voltage

Testing voltage 4000 V (following DIN VDE 0281-2).

Oil-resistant (following DIN EN 60811-2-1), biooil-resistant (fol-

lowing VDMA 24568 with Plantocut 8 S-MB tested by DEA),

Class 4.

eplan download, configurator ▶ www.igus.eu/en/CF35

950 types from stock no cutting costs ...

(for up to 10 cuts of the same type)

According to IEC 60332-1-2, CEI 20-35, FT1, VW-1

Flame-retardant

Silicon-free Free from silicon which can affect paint adhesion

(following PV 3.10.7 - status 1992).

UL/CSA Style 10492 and 21184, 1000 V, 80 °C

NFPA Following NFPA 79-2012 chapter 12.9 (starting from manufacturing date 9/2011)

CEI Following CEI 20-35

CE Following 2006/95/EG

Lead free Following 2011/55/EU (RoHS-II)

Clean room According to ISO Class 1. Outer jacket material complies with CF34.UL.25.04.D, tested

by IPA according to standard 14644-1

Typical application area

No.

- for maximum load requirements
- almost unlimited resistance to oil, also with bio-oils
- Indoor and outdoor applications, UV-resistant
- especially for freely suspended and gliding travel distances up to 400 m and more
- Storage and retrieval units for high-bay warehouses, machining units/machine tools, quick handling, clean room, semiconductor insertion, ship to shore, outdoor cranes, low-temperature applications

Delivery program	Number of cores and	External	Copper	Weight	
Part No.	conductor nominal	diameter	index	[kg/km]	
	cross section [mm²]	approx. [mm]	[kg/km]		
CF35.UL.05.04	(4 G 0,5)C	8,0	39	81	
CF35.UL.07.04	(4 G 0,75)C	8,5	52	104	
CF35.UL.15.04	(4 G 1,5)C	9,5	85	149	
CF35.UL.25.04	(4 G 2,5)C	11,5	128	207	
CF35.UL.40.04	(4 G 4,0)C	13,5	201	326	
CF35.UL.60.04	(4 G 6,0)C	16,0	298	450	
CF35.UL.100.04	(4 G 10,0)C	19,5	454	682	
CF35.UL.160.04	(4 G 16,0)C	23,0	723	1003	
CF35.UL.250.04	(4 G 25,0)C	27,5	1160	1524	
CF35.UL.60.03.O.PE(1)	(3 x 6,0)C	14,5	231	367	
CF35.UL.100.03.O.PE ⁽¹⁾	(3 x 10,0)C	17,5	356	568	
CF35.UL.160.03.O.PE	(3 x 16,0)C	21,0	553	789	
CF35.UL.250.03.O.PE ⁽¹⁾	(3 x 25,0)C	24,5	884	1208	
CF35.UL.350.03.O.PE	(3 x 35,0)C	28,5	1200	1675	
CF35.UL.500.03.O.PE	(3 x 50,0)C	33,5	1660	2283	

(1) Delivery time upon inquiry

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits

G = with green-vellow earth core <math>x = without earth core

... no minimum order quantity ...

for maximum load requirements

TPE outer jacket

• oil-resistant, biooil-resistant

PVC-free/halogen-free

UV-resistant

hydrolysis-resistant and microbe-resistant



Conductor < 10 mm²: Fine-wire stranded conductor in especially bending-

> resistant version consisting of bare copper wires (following EN 60228). ≥ 10 mm²: conductor cable consisting of pre-leads

(following EN 60228).

Core insulation Mechanically high-quality, especially low-capacitance TPE

Core stranding Cores stranded in short pitch lengths over a centre for high

Core identification **Energy conductor:** Cores black with white numerals, one core green-yellow.

> 1. core: U / L1 / C / L+ 2. core: V / L2 3. core: W / L3 / D / L- 4. core: 4 / N

Outer jacket Low-adhesion mixture on the basis of TPE, especially abrasion-

resistant and highly flexible, adapted to suit the requirements in energy chains®. Colour: Jet black (similar to RAL 9005)

Freely suspended and gliding travel distances up to 400 m and

r°cl ↔ T/R moved -35 °C to +90 °C, minimum bending radius 7,5 x d

-40 °C to +90 °C, minimum bending radius 4 x d T/R fixed

v max. 10 m/s, 6 m/s

unsupported/gliding a max. 80 m/s²

Travel distance

± 90°

oil 6

Hal

INFLEX* CF37.0

more, Class 4

± 90°, with 1 m cable length Torsion

UV-resistant

600/1000 V (following DIN VDE 0250) Nominal voltage

4000 V (following DIN VDE 0281-2). Testing voltage

Oil Oil-resistant (following DIN EN 60811-2-1), biooil-resistant (fol-

lowing VDMA 24568 with Plantocut 8 S-MB tested by DEA),

Class 4.

Silicon-free Free from silicon which can affect paint adhesion

(following PV 3.10.7 - status 1992).

Halogen-free Following EN 50267-2-1.

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950 types from stock no cutting costs ...

(for up to 10 cuts of the same type)

Following 2006/95/EG CE

DESINA According to VDW, DESINA standardisation

Lead free Following 2011/55/EU (RoHS-II)

Clean room According to ISO Class 1. Outer jacket material complies with CF9.15.07, tested by IPA

according to standard 14644-1

Typical application area

for maximum load requirements

almost unlimited resistance to oil, also with bio-oils

Indoor and outdoor applications, UV-resistant

especially for freely suspended and gliding travel distances up to 400 m and more

 Storage and retrieval units for high-bay warehouses, machining units/machine tools, quick handling, clean room, semiconductor insertion, ship to shore, outdoor cranes, low-temperature applications

Delivery program	Number of cores and	External	Copper	Weight	
Part No.	conductor nominal	diameter	index	[kg/km]	
	cross section [mm²]	approx. [mm]	[kg/km]		
CF37.15.04.D	4 G 1,5	8,5	58	109	
CF37.25.04.D	4 G 2,5	10,5	96	162	
CF37.40.04.D	4 G 4,0	12,0	158	239	
CF37.60.04.D	4 G 6,0	14,0	239	351	
CF37.60.05.D(1)	5 G 6,0	15,5	285	420	
CF37.100.04.D	4 G 10,0	17,0	411	549	
CF37.100.05.D(1)	5 G 10,0	19,5	517	687	
CF37.160.04.D	4 G 16,0	20,5	633	817	
CF37.160.05.D(1)	5 G 16,0	23,0	800	1072	
CF37.250.04.D	4 G 25,0	25,0	994	1266	
CF37.60.04.O.PE.D(1)	4 x 6,0	14,0	239	351	
CF37.100.04.O.PE.D ⁽¹⁾	4 x 10,0	17,0	411	549	
CF37.160.04.O.PE.D ⁽¹⁾	4 x 16,0	20,5	633	817	
CF37.500.03.O.PE.D	3 x 50,0	31,0	1490	2028	

(1) Delivery time upon inquiry Other types available on request

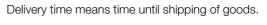
Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits

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

Order example: CF37.250.04.D – in your desired length (0,5 m steps) CF37.D chainflex® series .250 Code nominal cross section .04 Number of cores

Please use www.chainflex.eu/en/CF37 for your online order.

Delivery time 24h or today.











AINFLEX" CF38



- TPE outer jacket
- shielded
- oil-resistant, biooil-resistant
- PVC-free/halogen-free
- UV-resistant
- hydrolysis-resistant and microbe-resistant



Inner jacket

Outer jacket

T/R moved

[°C]

ductor < 10 mm²: Fine-wire stranded conductor in especially bendingresistant version consisting of bare copper wires (following EN

resistant version consisting of bare copper wires (following EN 60228). ≥ 10 mm²: conductor cable consisting of pre-leads (following EN 60228).

Machanically bigh au

Core insulation Mechanically high-quality, especially low-capacitance TPE

mixture.

Core stranding Cores stranded in short pitch lengths over a centre for high

tensile stresses.

1. core: U/L1/C/L+ 2. core: V/L2 3. core: W/L3/D/L- 4. core: 4/N

TPE mixture adapted to suit the requirements in energy chains®.

Overall shield Extremely bending-resistant braiding made of tinned copper

wires. Coverage approx. 70% linear, approx. 90% optical. Low-adhesion mixture on the basis of TPE, especially abrasion-

resistant and highly flexible, adapted to suit the requirements in

energy chains®.

Colour: Jet black (similar to RAL 9005)

-35 °C to +90 °C, minimum bending radius 7,5 x d

T/R fixed -40 °C to +90 °C, minimum bending radius 4 x d

v max. 10 m/s, 6 m/s

unsupported/gliding

a max. 80 m/s²

Travel distance Freely suspended and gliding travel distances up to 400 m and

more, Class 4

UV-resistant High

Nominal voltage 600/1000 V (following DIN VDE 0250).

Testing voltage 4000 V (following DIN VDE 0281-2).

Oil Oil-resistant (following DIN EN 60811-2-1), biooil-resistant (follow

lowing VDMA 24568 with Plantocut 8 S-MB tested by DEA),

Class 4.

eplan download, configurator ▶ www.igus.eu/en/CF38

950 types from stock no cutting costs ...

(for up to 10 cuts of the same type)

Class 7.4.4 (7 maximum load requirements 4 travel distance up to 400 m and more 4 oil-resistant)

Silicon-free Free from silicon which can affect paint adhesion

(following PV 3.10.7 – status 1992). **Halogen-free** Following EN 50267-2-1.

CE Following 2006/95/EG

Lead free Following 2011/55/EU (RoHS-II)

Clean room According to ISO Class 1. Outer jacket material complies with CF9.15.07, tested by IPA

according to standard 14644-1

Typical application area

Hal

- for maximum load requirements
- almost unlimited resistance to oil, also with bio-oils
- Indoor and outdoor applications, UV-resistant
- especially for freely suspended and gliding travel distances up to 400 m and more
- Storage and retrieval units for high-bay warehouses, machining units/machine tools, quick handling, clean room, semiconductor insertion, ship to shore, outdoor cranes, low-temperature applications

Delivery program	Number of cores and	External	Copper	Weight	
Part No.	conductor nominal	diameter	index	[kg/km]	
	cross section [mm²]	approx. [mm]	[kg/km]		
CF38.05.04 ⁽¹⁾	(4 G 0,5)C	8,0	39	81	
CF38.07.04 ⁽¹⁾	(4 G 0,75)C	8,5	52	104	
CF38.15.04	(4 G 1,5)C	9,5	85	149	
CF38.25.04 ⁽¹⁾	(4 G 2,5)C	11,5	128	207	
CF38.40.04	(4 G 4,0)C	13,5	201	326	
CF38.60.04 ⁽¹⁾	(4 G 6,0)C	16,0	298	450	
CF38.100.04	(4 G 10,0)C	19,5	454	682	
CF38.160.04	(4 G 16,0)C	23,0	723	1003	
CF38.250.04	(4 G 25,0)C	27,5	1160	1524	
CF38.60.03.O.PE(1)	(3 x 6,0)C	14,5	231	367	
CF38.100.03.O.PE(1)	(3 x 10,0)C	17,5	356	568	
CF38.160.03.O.PE(1)	(3 x 16,0)C	21,0	553	789	
CF38.250.03.O.PE(1)	(3 x 25,0)C	24,5	884	1208	
CF38.350.03.O.PE(1)	(3 x 35,0)C	28,5	1200	1675	
CF38.500.03.O.PE(1)	(3 x 50,0)C	33,5	1660	2283	

(1) Delivery time upon inquiry.

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

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

Order example: CF38.25.04 – in your desired length (0,5 m steps)
CF38 chainflex® series .25 Code nominal cross section .04 Number of cores

Please use www.chainflex.eu/en/CF38 for your online order.

Delivery time 24h or today.

Delivery time means time until shipping of goods.

... no minimum order quantity ...







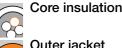


TPE Power cable | CF300.UL.D

- for maximum load requirements
- TPE outer jacket
- oil-resistant, biooil-resistant
- flame-retardant
- UV-resistant
- hydrolysis-resistant and microbe-resistant



Conductor Conductor cable consisting of pre-leads (following EN 60228).



Mechanically high-quality TPE mixture.



Outer jacket Low-adhesion mixture on the basis of TPE, especially abrasionresistant and highly flexible, adapted to suit the requirements in

energy chains®.

Colour: Jet black (similar to RAL 9005)



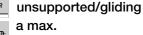
-35 °C to +90 °C, minimum bending radius 7,5 x d T/R moved



T/R fixed -40 °C to +90 °C, minimum bending radius 4 x d



10 m/s, 6 m/s



100 m/s²



Freely suspended and gliding travel distances up to 400 m and Travel distance

more, Class 4



Torsion ± 90°, with 1 m cable length



UV-resistant



Nominal voltage 600/1000 V (following DIN VDE 0250)



4000 V (following DIN VDE 0281-2). Testing voltage



Oil-resistant (following DIN EN 60811-2-1), biooil-resistant (following VDMA 24568 with Plantocut 8 S-MB tested by DEA),





Flame-retardant According to IEC 60332-1-2, CEI 20-35, FT1, VW-1



Silicon-free Free from silicon which can affect paint adhesion (following PV 3.10.7 - status 1992).



NFPA

CEI

Style 10492 and 21218, 1000 V, 80 °C



Following NFPA 79-2012 chapter 12.9 (starting from manufac-

turing date 9/2011) Following CEI 20-35



LEX CF388.UL.D

eplan download, configurator ▶ www.igus.eu/en/CF300

950 types from stock no cutting costs ...

(for up to 10 cuts of the same type)

Class 6.4.4 (6 maximum load requirements 4 travel distance up to 400 m and more 4 oil-resistant)

CF300.UL.D TPE $7.5 \times d$

CE

Following 2006/95/EG



DESINA According to VDW, DESINA standardisation



Lead free Following 2011/55/EU (RoHS-II)



Clean room According to ISO Class 1. Outer jacket material complies with CF34.UL.25.04.D, tested

by IPA according to standard 14644-1

Typical application area

- for maximum load requirements
- almost unlimited resistance to oil, also with bio-oils
- Indoor and outdoor applications, UV-resistant
- especially for freely suspended and gliding travel distances up to 400 m and more
- Storage and retrieval units for high-bay warehouses, machining units/machine tools, quick handling, clean room, semiconductor insertion, ship to shore, outdoor cranes, low-temperature applications

Delivery program	Number of cores and	External	Copper	Weight	
Part No.	conductor nominal	diameter	index	[kg/km]	
	cross section [mm²]	approx. [mm]	[kg/km]		
CF300.UL.40.01.D	1x4,0	6,5	38	61	
CF300.UL.60.01.D	1x6,0	7,0	56	77	
CF300.UL.100.01.D	1x10,0	8,0	96	119	
CF300.UL.160.01.D	1x16,0	9,5	151	183	
CF300.UL.250.01.D	1x25,0	11,5	239	281	
CF300.UL.350.01.D	1x35,0	12,5	333	377	
CF300.UL.500.01.D	1x50,0	14,5	479	525	
CF300.UL.700.01.D	1x70,0	16,5	623	676	
CF300.UL.950.01.D	1x95,0	19,0	848	927	
CF300.UL.1200.01.D	1x120,0	21,5	1059	1145	
CF300.UL.1500.01.D	1x150,0	23,0	1318	1411	
CF300.UL.1850.01.D	1x185,0	27,0	1890	2014	

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits

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



Order example: CF300.UL.950.01.D - in your desired length (0,5 m steps) CF300.UL.D chainflex® series .950 Code nominal cross section .01 Number of cores



Please use www.chainflex.eu/en/CF300 for your online order.



Delivery time 24h or today.

Delivery time means time until shipping of goods.





NFPA





... no minimum order quantity ... igus® GmbH Cologne | Tel. +49(0)2203/9649-800 Fax -222 | info@igus.de | www.chainflex.eu

CFPE TPE

• oil-resistant, biooil-resistant

• flame-retardant

UV-resistant

hydrolysis-resistant and microbe-resistant



Conductor Conductor cable consisting of pre-leads (following EN 60228).



Core insulation Mechanically high-quality TPE mixture.



Core identification Green-yellow



Outer jacket Low-adhesion mixture on the basis of TPE, especially abrasion-

resistant and highly flexible, adapted to suit the requirements in

Colour: Jet black (similar to RAL 9005)



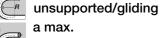
T/R moved -35 °C to +90 °C, minimum bending radius 7,5 x d



T/R fixed -40 °C to +90 °C, minimum bending radius 4 x d



10 m/s, 6 m/s



100 m/s²



Travel distance Freely suspended and gliding travel distances up to 400 m and

more, Class 4



± 90°, with 1 m cable length Torsion



UV-resistant



600/1000 V (following DIN VDE 0250) Nominal voltage



Testing voltage 4000 V (following DIN VDE 0281-2).



Oil-resistant (following DIN EN 60811-2-1), biooil-resistant (following VDMA 24568 with Plantocut 8 S-MB tested by DEA),



Class 4.



Flame-retardant According to IEC 60332-1-2, CEI 20-35, FT1, VW-1



Free from silicon which can affect paint adhesion Silicon-free (following PV 3.10.7 - status 1992).



UL/CSA Style 10492 and 21218, 1000 V, 80 °C



Following NFPA 79-2012 chapter 12.9 (starting from manufac-

turing date 9/2011)



HAINFLEX CFPE

eplan download, configurator ▶ www.igus.eu/en/CFPE

950 types from stock no cutting costs ...

(for up to 10 cuts of the same type)



Following CEI 20-35



CE Following 2006/95/EG



Lead free Following 2011/55/EU (RoHS-II)

Clean room

According to ISO Class 1. Outer jacket material complies with CF34.UL.25.04.D, tested

by IPA according to standard 14644-1

Typical application area

- for maximum load requirements
- almost unlimited resistance to oil, also with bio-oils
- Indoor and outdoor applications, UV-resistant
- especially for freely suspended and gliding travel distances up to 400 m and more
- Storage and retrieval units for high-bay warehouses, machining units/machine tools, quick handling, clean room, semiconductor insertion, ship to shore, outdoor cranes, low-temperature applications

Delivery program	Number of cores and	External	Copper	Weight	
Part No.	conductor nominal	diameter	index	[kg/km]	
	cross section [mm ²]	approx. [mm]	[kg/km]		
CFPE.15.01	1 G 1,5	5,0	15	35	
CFPE.25.01	1 G 2,5	6,0	25	46	
CFPE.40.01	1 G 4,0	6,5	38	61	
CFPE.60.01	1 G 6,0	7,0	56	81	
CFPE.100.01	1 G 10,0	8,0	96	123	
CFPE.160.01	1 G 16,0	9,5	151	191	
CFPE.250.01	1 G 25,0	11,5	239	291	
CFPE.350.01	1 G 35,0	13,0	333	387	

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits G = with green-yellow earth core x = without earth core

Order example: CFPE.15.01 – in your desired length (0,5 m steps) CFPE chainflex® series .15 Code nominal cross section .01 Number of cores



Please use www.chainflex.eu/en/CFPE for your online order.



Delivery time 24h or today.

Delivery time means time until shipping of goods.



chainflex® CFPE for machining units. e-chain®: Serie E2 medium







TPE Power cable | CF310.UL

- for maximum load requirements
- TPE outer jacket
- shielded
- oil-resistant, biooil-resistant
- flame-retardant
- UV-resistant
- hydrolysis-resistant and microbe-resistant



Conductor Conductor cable consisting of pre-leads (following EN 60228).



Core insulation Mechanically high-quality TPE mixture.



Overall shield Extremely bending-resistant braiding made of tinned copper





Low-adhesion mixture on the basis of TPE, especially abrasionresistant and highly flexible, adapted to suit the requirements in

Colour: Jet black (similar to RAL 9005)



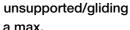
T/R moved -35 °C to +90 °C, minimum bending radius 7,5 x d

T/R fixed

-40 °C to +90 °C, minimum bending radius 4 x d



10 m/s, 6 m/s



100 m/s²



Travel distance Freely suspended and gliding travel distances up to 400 m and

more, Class 4



UV-resistant High



Nominal voltage 600/1000 V (following DIN VDE 0250)



4000 V (following DIN VDE 0281-2). Testing voltage



Oil-resistant (following DIN EN 60811-2-1), biooil-resistant (following VDMA 24568 with Plantocut 8 S-MB tested by DEA),





According to IEC 60332-1-2, CEI 20-35, FT1, VW-1 Flame-retardant



Silicon-free Free from silicon which can affect paint adhesion (following PV 3.10.7 - status 1992).



Style 10492 and 21218, 1000 V, 80 °C



NFPA

Following NFPA 79-2012 chapter 12.9 (starting from manufac-







FLEX CF310.UL

eplan download, configurator ▶ www.igus.eu/en/CF310

950 types from stock no cutting costs ...

(for up to 10 cuts of the same type)

Class 6.4.4 (6 maximum load requirements 4 travel distance up to 400 m and more 4 oil-resistant)

CF310.UL TPE $7.5 \times d$

 ϵ

Following 2006/95/EG



Following 2011/55/EU (RoHS-II)

According to ISO Class 1. Outer jacket material complies with CF34.UL.25.04.D, tested

by IPA according to standard 14644-1

Typical application area

Lead free

Clean room

- for maximum load requirements
- almost unlimited resistance to oil, also with bio-oils
- Indoor and outdoor applications, UV-resistant
- especially for freely suspended and gliding travel distances up to 400 m and more
- Storage and retrieval units for high-bay warehouses, machining units/machine tools, quick handling, clean room, semiconductor insertion, ship to shore, outdoor cranes, low-temperature applications

Delivery program	Number of cores and	External	Copper	Weight	
Part No.	conductor nominal	diameter	index	[kg/km]	
	cross section [mm²]	approx. [mm]	[kg/km]		
* CF310.UL.25.01	(1x2,5)C	6,5	39	61	
CF310.UL.40.01	(1x4,0)C	6,5	55	74	
CF310.UL.60.01	(1x6,0)C	7,5	75	97	
CF310.UL.100.01	(1x10,0)C	8,5	120	144	
CF310.UL.160.01	(1x16,0)C	10,0	178	210	
CF310.UL.250.01	(1x25,0)C	11,5	272	314	
CF310.UL.350.01	(1x35,0)C	13,5	380	423	
CF310.UL.500.01	(1x50,0)C	15,0	524	568	
CF310.UL.700.01	(1x70,0)C	17,5	689	748	
CF310.UL.950.01	(1x95,0)C	20,5	920	997	
CF310.UL.1200.01	(1x120,0)C	22,0	1140	1233	
CF310.UL.1500.01	(1x150,0)C	24,0	1436	1549	
CF310.UL.1850.01	(1x185,0)C	28,0	2020	2147	

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



Order example: CF310.UL.40.01 – in your desired length (0,5 m steps) CF310.UL chainflex® series .40 Code nominal cross section .01 Number of cores



Please use www.chainflex.eu/en/CF310 for your online order.



Delivery time 24h or today.

Delivery time means time until shipping of goods.

... no minimum order quantity ...











- TPE outer jacket
- oil-resistant
- biooil-resistant
- PVC-free/halogen-free
- UV-resistant
- hydrolysis-resistant and microbe-resistant



Conductor Conductor cable consisting of pre-leads (following EN 60228).



Core insulation Mechanically high-quality TPE mixture.



Outer jacket Low-adhesion mixture on the basis of TPE, especially abrasionresistant and highly flexible, adapted to suit the requirements in

energy chains®.

Colour: Jet black (similar to RAL 9005)



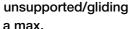
-35 °C to +90 °C, minimum bending radius 7,5 x d T/R moved



T/R fixed -40 °C to +90 °C, minimum bending radius 4 x d



10 m/s, 6 m/s



100 m/s²



Freely suspended and gliding travel distances up to 400 m and Travel distance

more, Class 4



Torsion ± 90°, with 1 m cable length



UV-resistant



Nominal voltage 600/1000 V (following DIN VDE 0250)



4000 V (following DIN VDE 0281-2). Testing voltage



Oil-resistant (following DIN EN 60811-2-1), biooil-resistant (fol-



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



Silicon-free

Free from silicon which can affect paint adhesion (following PV 3.10.7 - status 1992).



Following EN 50267-2-1. Halogen-free



CE Following 2006/95/EG



DESINA According to VDW, DESINA standardisation



Lead free Following 2011/55/EU (RoHS-II)



INFLEX' CF338.D

eplan download, configurator ▶ www.igus.eu/en/CF330

950 types from stock no cutting costs ...

(for up to 10 cuts of the same type)

Clean room

According to ISO Class 1. Outer jacket material complies with CF9.15.07, tested by IPA according to standard 14644-1

Typical application area

- for maximum load requirements
- almost unlimited resistance to oil, also with bio-oils
- Indoor and outdoor applications, UV-resistant
- especially for freely suspended and gliding travel distances up to 400 m and more
- Storage and retrieval units for high-bay warehouses, machining units/machine tools, quick handling, clean room, semiconductor insertion, ship to shore, outdoor cranes, low-temperature applications

Delivery program	Number of cores and	External	Copper	Weight	
Part No.	conductor nominal	diameter	index	[kg/km]	
	cross section [mm²]	approx. [mm]	[kg/km]		
CF330.60.01.D	1x6,0	7,0	56	77	
CF330.100.01.D	1x10,0	8,0	96	119	
CF330.160.01.D	1x16,0	9,5	151	183	
CF330.250.01.D	1x25,0	11,5	239	281	
CF330.350.01.D	1x35,0	12,5	333	377	
CF330.500.01.D	1x50,0	14,5	479	525	
CF330.700.01.D	1x70,0	16,5	623	676	
CF330.950.01.D	1x95,0	19,0	848	927	
CF330.1200.01.D	1x120,0	21,5	1059	1145	
CF330.1500.01.D	1x150,0	23,0	1318	1411	
CF330.1850.01.D	1x185,0	27,0	1890	2014	

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

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



Order example: CF330.160.01.D – in your desired length (0,5 m steps) CF330.D chainflex® series .160 Code nominal cross section .01 Number of cores



Please use www.chainflex.eu/en/CF330 for your online order.



Delivery time 24h or today.

Delivery time means time until shipping of goods.



STS cranes in Antwerp with igus® energy chain systems® for energy and data supplies to centenary and main





- for maximum load requirements
- TPE outer jacket
- shielded
- oil-resistant, biooil-resistant
- PVC-free/halogen-free
- UV-resistant
- hydrolysis-resistant and microbe-resistant



Conductor Conductor cable consisting of pre-leads (following EN 60228).



Core insulation Mechanically high-quality TPE mixture.



Overall shield Extremely bending-resistant braiding made of tinned copper



Outer jacket

Low-adhesion mixture on the basis of TPE, especially abrasionresistant and highly flexible, adapted to suit the requirements in

Colour: Jet black (similar to RAL 9005)



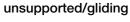
T/R moved -35 °C to +90 °C, minimum bending radius 7,5 x d

T/R fixed

-40 °C to +90 °C, minimum bending radius 4 x d



10 m/s, 6 m/s



Halogen-free

100 m/s²



Travel distance Freely suspended and gliding travel distances up to 400 m and

more, Class 4



High **UV-resistant**



Nominal voltage 600/1000 V (following DIN VDE 0250)



Testing voltage 4000 V (following DIN VDE 0281-2).



Oil-resistant (following DIN EN 60811-2-1), biooil-resistant (fol-

lowing VDMA 24568 with Plantocut 8 S-MB tested by DEA),





Silicon-free Free from silicon which can affect paint adhesion

Following EN 50267-2-1.

(following PV 3.10.7 - status 1992).



CE Following 2006/95/EG



Following 2011/55/EU (RoHS-II) Lead free



Clean room According to ISO Class 1. Outer jacket material complies with CF9.15.07, tested by IPA according to standard 14644-1





INFLEX CF348

eplan download, configurator ▶ www.igus.eu/en/CF340

950 types from stock no cutting costs ...

(for up to 10 cuts of the same type)

Typical application area

- for maximum load requirements
- almost unlimited resistance to oil, also with bio-oils.
- Indoor and outdoor applications, UV-resistant
- especially for freely suspended and gliding travel distances up to 400 m and more
- Storage and retrieval units for high-bay warehouses, machining units/machine tools, quick handling, clean room, semiconductor insertion, ship to shore, outdoor cranes, low-temperature applications

Class 7.4.4 (7 maximum load requirements 4 travel distance up to 400 m and more 4 oil-resistant)

Delivery program	Number of cores and	External	Copper	Weight	
Part No.	conductor nominal	diameter	index	[kg/km]	
	cross section [mm²]	approx. [mm]	[kg/km]		
CF340.40.01	(1x4,0)C	6,5	55	74	
CF340.60.01 ⁽¹⁾	(1x6,0)C	7,5	75	97	
CF340.100.01 ⁽¹⁾	(1x10,0)C	8,5	120	144	
CF340.160.01	(1x16,0)C	10,0	178	210	
CF340.250.01 ⁽¹⁾	(1x25,0)C	11,5	272	314	
CF340.350.01 ⁽¹⁾	(1x35,0)C	13,5	380	423	
CF340.500.01	(1x50,0)C	15,0	524	568	
CF340.700.01	(1x70,0)C	17,5	689	748	
CF340.950.01 ⁽¹⁾	(1x95,0)C	20,5	920	1072	
CF340.1200.01	(1x120,0)C	22,0	1140	1233	
CF340.1500.01	(1x150,0)C	24,0	1436	1549	
CF340.1850.01	(1x185,0)C	28,0	2020	2147	

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



Order example: CF340.100.01 – in your desired length (0,5 m steps) CF340 chainflex® series .100 Code nominal cross section .01 Number of cores



Please use www.chainflex.eu/en/CF340 for your online order.



Delivery time 24h or today.

Delivery time means time until shipping of goods.



chainflex® CF340 for outdoor crane systems. e-chain®: Serie E4/00







Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits

igupren Power cable | CFCRANE

- for maximum voltages and outputs
- igupren outer jacket
- oil-resistant
- flame-retardant



Conductor Highly flexible cable consisting of tinned copper wires

(following VDE 0295).

Core insulation Inner and outer semiconducting layer made of conductive rubber.

Insulating sheath made of high-quality, heat-resistant and ozone-

proof ethylene propylene rubber (EPR.

Overall shield Extremely bending-resistant, tinned copper shield.

Coverage approx. 80% optical.

Outer jacket Low-adhesion mixture on the basis of iguprene, especially abrasion-

resistant and highly flexible, adapted to suit the requirements in

energy chains® (following VDE 0207 Part 21).

Colour: Red

T/R moved $-20 \,^{\circ}\text{C}$ to $+80 \,^{\circ}\text{C}$, minimum bending radius $10 \,^{\circ}\text{x}$ d

T/R fixed -30 °C to +80 °C, minimum bending radius 7,5 x d

v max. 10 m/s, 6 m/s

unsupported/gliding

a max. 50 m/s^2

Travel distance Freely suspended and gliding travel distances up to 500 m and

more, Class 4

UV-resistant High

Nominal voltage 6/10 kV (following DIN VDE 0250),

other voltages upon inquiry.

Testing voltage 17 kV (following DIN VDE 0250, Part 813).

Oil Oil-resistant (following DIN EN 60811-2-1), Class 3.

Flame-retardant According to IEC 60332-1-2, CEI 20-35, FT1, VW-1

Silicon-free Free from silicon which can affect paint adhesion

(following PV 3.10.7 - status 1992).

CE Following 2006/95/EG

Lead free Following 2011/55/EU (RoHS-II)

eplan download, configurator ▶ www.igus.eu/en/CFCRANE

950 types from stock no cutting costs ...

(for up to 10 cuts of the same type)

Typical application area

- for maximum load requirements
- almost unlimited resistance to oil
- Indoor and outdoor applications, UV-resistant
- especially for freely suspended and gliding travel distances up to 500 m and more
- outdoor ship to shore, crane applications, conveyer technology

Delivery program	Number of cores and	External	Copper	Weight	
Part No.	conductor nominal	diameter	index	[kg/km]	
	cross section [mm²]	approx. [mm]	[kg/km]		
CFCRANE1x25/16-6/10kV	1) (1x25/16)C	27,0	468	940	
CFCRANE1x35/16-6/10kV	1) (1x35/16)C	29,0	576	1110	
CFCRANE1x50/16-6/10kV	1) (1x50/16)C	30,0	712	1350	
CFCRANE1x70/16-6/10kV	1) (1x70/16)C	32,0	912	1550	
CFCRANE1x95/16-6/10kV	1) (1x95/16)C	34,0	1145	1820	
CFCRANE1x120/16-6/10k\	V ⁽¹⁾ (1x120/16)C	35,0	1306	2100	

1) Delivery time upon inquiry

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

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

New in this catalogue.



Order example: CFCRANE1x25/16-6/10kV – in your desired length (0,5 m steps) CFCRANE chainflex® series .1 x 25/16 Code nominal cross section -6/10 Nominal voltage



Please use www.chainflex.eu/en/CFCRANE for your online order.



Delivery time 24h or today.

Delivery time means time until shipping of goods.



chainflex® CFCRANE for 500 m and more of travel. e-chain®: igus® rol e-chain®







- for maximum load requirements
- PU hose
- oil-resistant and coolant-resistant
- abrasion-resistant
- outside-toleranced
- PVC-free/halogen-free

[°C] <u>←</u>	

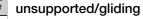
T/R moved -25 °C to +80 °C, minimum bending radius 10 x d



T/R fixed -40 °C to +85 °C, minimum bending radius 8 x d



v max. 10 m/s, 6 m/s



a max. 50 m/s²



Dimensions Outside-toleranced



Operating pressure 12 bar at 20 °C



Vacuum -1 bar at 20 °C



Oil Oil-resistant



Halogen-free Following EN 50267-2-1.



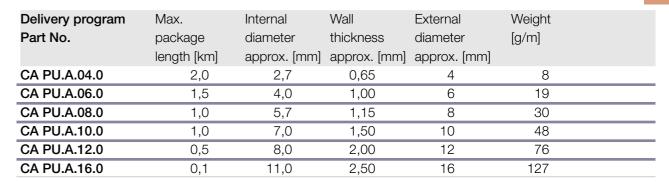
Material Abrasion-resistant on the basis of Polyurethan adapted to suit

the requirements in energy chains®.

Colour: Blue



Lead free Following 2011/55/EU (RoHS-II)





Order example: CA PU.A.04.0 – in your desired length (0,5 m steps) CA PU chainflex® series .A Code material .04 Code Ø .0 Special identification



Please use www.chainflex.eu/en/CFCAPU for your online order.



Delivery time 24h or today.

Delivery time means time until shipping of goods.

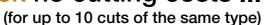


igus® chainflex® CF Air pneumatic hoses were tested over several million bending cycles in e-chains®. Their outstanding features include flexibility, high abrasion resistance and very good resistance to oil and coolants.



eplan download, configurator ▶ www.igus.eu/en/CAPU











CHAINFLEX CLEAN AIR

- for maximum load requirements
- PE hose
- oil-resistant and coolant-resistant
- highly abrasion-resistant
- outside-toleranced
- PVC-free/halogen-free



-25 °C to +60 °C, minimum bending radius 10 x d T/R moved



T/R fixed -30 °C to +65 °C, minimum bending radius 8 x d



10 m/s, 6 m/s



50 m/s²



Dimensions Outside-toleranced



Operating pressure 10 bar at 20 °C



-0,95 bar at 20 °C Vacuum



Oil Oil-resistant



Following EN 50267-2-1. Halogen-free



Highly abrasion-resistant on the basis of Polyethylen adapted to Material

suit the requirements in energy chains®.

Colour: White



Lead free Following 2011/55/EU (RoHS-II)



According to ISO Class 1, material/cable tested by IPA according Clean room

to ISO standard 14644-1

Typical application area

- for especially high abrasion resistance
- clean room, semi-conductor industry, handling



eplan download, configurator ▶ www.igus.eu/en/CAPE

950 types from stock no cutting costs ...

(for up to 10 cuts of the same type)

Delivery program	Max.	Internal	Wall	External	Weight
Part No.	package	diameter	thickness	diameter	[g/m]
	length [km]	approx. [mm]	approx. [mm]	approx. [mm]	
CA PE.A.04.0	2,0	2,7	0,65	4	6
CA PE.A.06.0	1,5	4,0	1,00	6	15
CA PE.A.08.0	1,0	5,7	1,15	8	21
CA PE.A.10.0	1,0	7,0	1,50	10	38
CA PE.A.12.0	0,5	8,0	2,00	12	54
CA PF.A.16.0	0.1	11.0	2.50	16	90



Order example: CA PE.A.04.0 – in your desired length (0,5 m steps) CA PE chainflex® series .A Code material .04 Code Ø .0 Special identification



Please use www.chainflex.eu/en/CFCAPE for your online order.

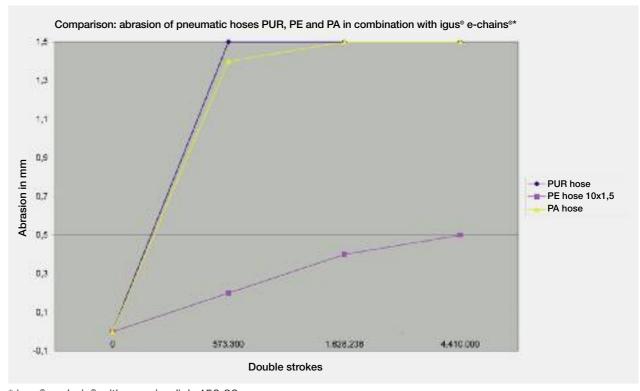


Delivery time 24h or today.

Delivery time means time until shipping of goods.



igus® material abrasion test



* igus® e-chain® with opening link 450.30





