Motor cables

chainflex® types

chainflex® cable	Jacket	Shield	Bending radius min., e-chain® [factor x d]	Temperature, e-chain® 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	
Motor cables												
Exclusive! chainflex® guarantee – guaranteed lifetime ▶ Selection table page 306												
CF885	PVC		15	+5/ +70				3		20	308	
CF886	PVC	✓	15	+5/ +70				3		20	310	
CF30	PVC		7.5	+5/ +70		✓	✓	10	5	80	312	
CF31	PVC	✓	7.5	+5/ +70		✓		10	5	80	316	
CF895	iguPUR		15	-20/ +80		✓		3		20	320	
CF896	iguPUR	✓	15	-20/ +80		✓		3		20	322	
CF270.UL.D	PUR	✓	10	-25/ +80		✓		10	2	50	324	
CF34.UL.D	TPE		7.5	-35/ +90		✓	✓	10	6	80	328	
CF35.UL	TPE	✓	7.5	-35/ +90		✓		10	6	80	332	
CF37.D	TPE		7.5	-35/ +90		✓	✓	10	6	80	336	
CF38	TPE	✓	7.5	-35/ +90		✓		10	6	80	338	
Motor cable – Spindle cable/Single core												
CF270.UL.D	PUR	✓	10	-25/ +80		✓		10	2	50	342	
CF300.UL.D	TPE		7.5	-35/ +90		✓	✓	10	6	100	344	
CFPE	TPE		7.5	-35/ +90		✓	✓	10	6	100	346	
CF310.UL	TPE	✓	7.5	-35/ +90		✓		10	6	100	348	
CF330.D	TPE		7.5	-35/ +90		✓	✓	10	6	100	350	
CF340	TPE	✓	7.5	-35/ +90		✓		10	6	100	352	
CF430.D	TPE		10	-35/ +90		✓	✓	10	6	100	354	New
CF440	TPE	✓	10	-35/ +90		✓		10	6	100	356	New
CFCRANE	igupren	✓	10	-20/ +80		✓		10	6	50	358	
Motor cables (chapter "special cables“ page 394)												
CFFLAT	TPE		5	-35/ +90		✓	✓	10	6	100	400	
CFBRAID	TPE		7.5	-35/ +70		✓	✓	10	6	80	402	
CFBRAID.C	TPE	✓	7.5	-35/ +70		✓	✓	10	6	80	402	

chainflex® guarantee ▶▶ Guaranteed lifetime (1)

	chainflex® cable	Temperature, from/to [°C]	v max. [m/s] unsupported	v max. [m/s] gliding	a max. [m/s²]	Travel distance [m]	Bending radius min. [factor x d] 5 million (1 million) double strokes *	Bending radius min. [factor x d] 7.5 million (3 million) double strokes *	Bending radius min. [factor x d] 10 million (5 million) double strokes *	Page
Motor cables										
	CF885 chainflex® M	+5 / +15 +15 / +60 +70 / +70	3		20	≤ 10	17.5 15 17.5	18.5 16 18.5	19.5 17 19.5	308
	CF886 chainflex® M	+5 / +15 +15 / +60 +70 / +70	3		20	≤ 10	17.5 15 17.5	18.5 16 18.5	19.5 17 19.5	310
	CF30	+5 / +15 +15 / +60 +60 / +70	10	5	80	≤ 100	10 7.5 10	11 8.5 11	12 9.5 12	312
	CF31	-5 / +5 +5 / +60 +60 / +70	10	5	80	≤ 100	10 7.5 10	11 8.5 11	12 9.5 12	316
	CF895 chainflex® M	-20 / -10 -10 / +70 +70 / +80	3		20	≤ 10	17.5 15 17.5	18.5 16 18.5	19.5 17 19.5	320
	CF896 chainflex® M	-20 / -10 -10 / +70 +70 / +80	3		20	≤ 10	17.5 15 17.5	18.5 16 18.5	19.5 17 19.5	322
	CF270.UL.D	-20 / -10 -10 / +70 +70 / +80	10	2	50	≤ 10	12.5 10 12.5	13.5 11 13.5	14.5 12 14.5	324
	CF34.UL.D	-35 / -25 -25 / +80 +80 / +90	10	6	80	≤ 400	10 7.5 10	11 8.5 11	12 9.5 12	328
	CF35.UL	-35 / -25 -25 / +80 +80 / +90	10	6	80	≤ 400	10 7.5 10	11 8.5 11	12 9.5 12	332
	CF37.D	-35 / -25 -25 / +80 +80 / +90	10	6	80	≤ 400	10 7.5 10	11 8.5 11	12 9.5 12	336
	CF38	-35 / -25 -25 / +80 +80 / +90	10	6	80	≤ 400	10 7.5 10	11 8.5 11	12 9.5 12	338
Motor cable – Spindle cable/Single core										
	CF270.UL.D	-20 / -10 -10 / +70 +70 / +80	10	2	50	≤ 10	12.5 10 12.5	13.5 11 13.5	14.5 12 14.5	342
	CF300.UL.D	-35 / -25 -25 / +80 +80 / +90	10	6	100	≤ 400	10 7.5 10	11 8.5 11	12 9.5 12	344
	CFPE	-35 / -25 -25 / +80 +80 / +90	10	6	100	≤ 400	10 7.5 10	11 8.5 11	12 9.5 12	346
	CF310.UL	-35 / -25 -25 / +80 +80 / +90	10	6	100	≤ 400	10 7.5 10	11 8.5 11	12 9.5 12	348
	CF330.D	-35 / -25 -25 / +80 +80 / +90	10	6	100	≤ 400	10 7.5 10	11 8.5 11	12 9.5 12	350
	CF340	-35 / -25 -25 / +80 +80 / +90	10	6	100	≤ 400	10 7.5 10	11 8.5 11	12 9.5 12	352
	CF430.D	-35 / -25 -25 / +80 +80 / +90	10	6	100	≤ 400	10 7.5 10	11 8.5 11	12 9.5 12	354
	CF440	-35 / -25 -25 / +80 +80 / +90	10	6	100	≤ 400	10 7.5 10	11 8.5 11	12 9.5 12	356
	CF CRANE	-20 / -10 -10 / +70 +70 / +80	10	6	50	> 400	12.5 10 12.5	13.5 11 13.5	14.5 12 14.5	358

(1) Exclusive! Guaranteed lifetime for this series according to the guarantee conditions ▶ Page 22-25

* Guaranteed lifetime, higher number of double strokes possible.
Figures in brackets refer to chainflex® M cables

PVC Motor cable | CF885

Images exemplary.

- For flexing applications
- PVC outer jacket
- Flame-retardant

chainflex® M - 5 million double strokes. Guaranteed.

Dynamic information

Bending radius	**e-chain®**	minimum 15 x d
	flexible	minimum 12 x d
	fixed	minimum 8 x d
Temperature	**e-chain®**	+5 °C to +70 °C
	flexible	-5 °C to +70 °C (following EN 60811-504)
	fixed	-15 °C to +70 °C (following DIN EN 50305)
v max.	**unsupported**	3 m/s
a max.		20m/s²
Travel distance		Unsupported travel distances.

Cable structure

Conductor Conductor consisting of bare copper wires (according to EN 60228).

Core insulation Multi core: Mechanically high-quality, especially low-capacitance TPE mixture.
Single core: Mechanically high-quality PVC mixture.

Core stranding Cores stranded in optimized pitch.

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-

Outer jacket Low-adhesion mixture on the basis of PVC, adapted to suit the requirements in e-chains®.
Colour: Pastel orange (similar to RAL 2003)

Electrical information

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

Testing voltage 4000 V (following DIN EN 50396)

Properties and approvals

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

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

UL/CSA **Multi core:** Style 10492 and 21179, 1000V, 80°C
Single core: Style 10107, 600V, 80°C

EPLAN download, configurators ▶ www.igus.eu/CF885

Class 3.1.1

3 low duty applications | 1 unsupported travels | 1 not oil-resistant

EAC	Certified according to No. TC RU C-DE.ME77.B.01561
CTP	Certified according to No. C-DE.PB49.B.00450
Lead free	Following 2011/65/EC (RoHS-II)
CE	Following 2006/95/EC

Guaranteed lifetime according to guarantee conditions (Page 22-25)

Double strokes*				1 million	3 million	5 million
Temperature, from/to [°C]	v max. [m/s] unsupported	a max. [m/s²]	Travel distance [m]	*R* min. [factor x d]	*R* min. [factor x d]	*R* min. [factor x d]
+5 / +15	3	20	≤ 10	17.5	18.5	19.5
+15 / +60				15	16	17
+70 / +70				17.5	18.5	19.5

* Higher number of double strokes possible - please ask for your individual calculation.

Typical application areas

- For flexing applications
- Without influence of oil
- Preferably indoor applications
- Especially for unsupported travel distances
- Wood/stone processing, packaging industry, supply systems, handling, adjusting equipment

	Delivery program Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
	CF885.15.04	4 G 1.5	9.0	64	121
	CF885.25.04	4 G 2.5	10.5	106	182
	CF885.40.04	4 G 4.0	12.0	169	267
	CF885.60.04	4 G 6.0	14.0	254	374
	CF885.100.04	4 G 10.0	16.5	423	573
	CF885.160.04	4 G 16.0	20.0	676	892
	Single cores				
New	**CF885.40.01** [1.6)]	1 x 4.0	7.0	43	79
New	**CF885.60.01** [1.6)]	1 x 6.0	8.0	64	103
New	**CF885.100.01**	1 x 10.0	9.5	106	157
New	**CF885.160.01**	1 x 16.0	10.5	169	243
New	**CF885.250.01** [1.6)]	1 x 25.0	12.0	264	352
New	**CF885.350.01** [1.6)]	1 x 35.0	14.5	370	464
New	**CF885.500.01** [1.6)]	1 x 50.0	16.5	528	690
New	**CF885.700.01** [1.6)]	1 x 70.0	18.5	740	926
New	**CF885.950.01** [1.6)]	1 x 95.0	20.0	1004	1192

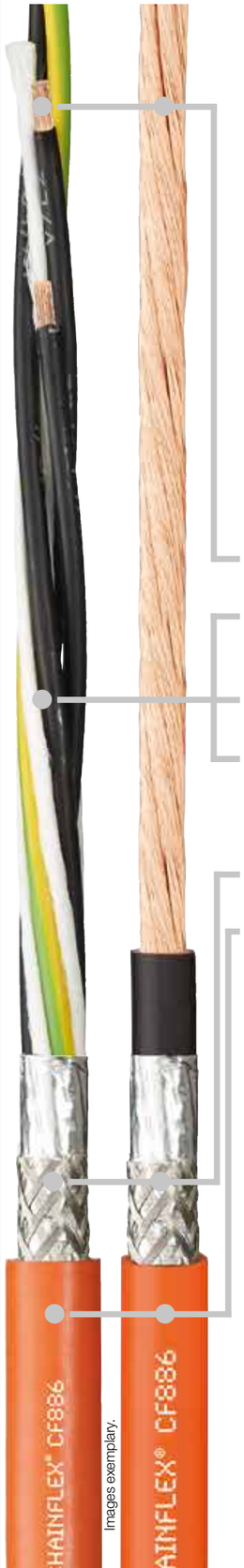
[1.6)] Delivery time: 6 weeks **Other types available on request.**
Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.
G= with green-yellow earth core x= without earth core

1,040 types from stock no cutting costs ...
(up to 10 cuts of the same types)

... no minimum order quantity ...

CF885
PVC
15 x d

PVC Motor cable | CF886



Images exemplary.

- For flexing applications
- PVC outer jacket
- Shielded
- Flame-retardant

chainflex® M - 5 million double strokes. Guaranteed.

Dynamic information

Bending radius	**e-chain®**	minimum 15 x d
	flexible	minimum 12 x d
	fixed	minimum 8 x d
Temperature	**e-chain®**	+5 °C to +70 °C
	flexible	-5 °C to +70 °C (following EN 60811-504)
	fixed	-15 °C to +70 °C (following DIN EN 50305)
v max.	**unsupported**	3 m/s
a max.		20m/s²
Travel distance		Unsupported travel distances.

Cable structure

Conductor	Conductor consisting of bare copper wires (according to EN 60228).
Core insulation	Multi core: Mechanically high-quality, especially low-capacitance TPE mixture. Single core: Mechanically high-quality PVC mixture.
Core stranding	Cores stranded in optimized pitch.
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-
Overall shield	Braiding made of tinned copper wires. Coverage approx. 60% optical.
Outer jacket	Low-adhesion mixture on the basis of PVC, adapted to suit the requirements in e-chains®. Colour: Pastel orange (similar to RAL 2003)

Electrical information

Nominal voltage	600/1000 V (following DIN VDE 0250)
Testing voltage	4000 V (following DIN EN 50396)

Properties and approvals

Flame-retardant	According to IEC 60332-1-2, CEI 20-35, FT-1
Silicon-free	Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992).
UL/CSA	**Multi core:** Style 10492 and 21179, 1000V, 80°C **Single core:** Style 10107, 600V, 80°C

EPLAN download, configurators ► www.igus.eu/CF886

Class 3.1.1

3 low duty applications **1** unsupported travels **1** not oil-resistant

EAC	Certified according to No. TC RU C-DE.ME77.B.01561
CTP	Certified according to No. C-DE.PB49.B.00450
Lead free	Following 2011/65/EC (RoHS-II)
CE	Following 2006/95/EC

Guaranteed lifetime according to guarantee conditions (Page 22-25)

Double strokes*				1 million	3 million	5 million
Temperature, from/to [°C]	v max. [m/s] unsupported	a max. [m/s²]	Travel distance [m]	*R* min. [factor x d]	*R* min. [factor x d]	*R* min. [factor x d]
+5 / +15	3	20	≤ 10	17.5	18.5	19.5
+15 / +60				15	16	17
+70 / +70				17.5	18.5	19.5

* Higher number of double strokes possible - please ask for your individual calculation.

Typical application areas

- For flexing applications
- Without influence of oil
- Preferably indoor applications
- Especially for unsupported travel distances
- Wood/stone processing, packaging industry, supply systems, handling, adjusting equipment

	Delivery program Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
	CF886.15.04	(4 G 1.5)C	9.5	83	138
	CF886.25.04	(4 G 2.5)C	11.0	130	200
	CF886.40.04	(4 G 4.0)C	13.0	198	282
	CF886.60.04	(4 G 6.0)C	14.5	297	400
	CF886.100.04	(4 G 10.0)C	17.5	474	601
	CF886.160.04 [1.6]	(4 G 16.0)C	20.5	745	908
	Single cores				
New	**CF886.40.01** [1.6]	(1x4.0)C	8.0	60	104
New	**CF886.60.01** [1.6]	(1x6.0)C	8.5	81	129
New	**CF886.100.01**	(1x10.0)C	10.0	129	198
New	**CF886.160.01**	(1x16.0)C	11.5	198	274
New	**CF886.250.01** [1.6]	(1x25.0)C	13.0	299	388
New	**CF886.350.01** [1.6]	(1x35.0)C	15.5	421	559
New	**CF886.500.01** [1.6]	(1x50.0)C	17.5	589	746
New	**CF886.700.01** [1.6]	(1x70.0)C	19.5	811	991
New	**CF886.950.01** [1.6]	(1x95.0)C	21.0	1075	1257

[1.6] Delivery time: 6 weeks **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

CF886
PVC
15 x d

PVC Motor cable | CF30

- For heavy duty applications
- PVC outer jacket
- Oil-resistant
- Flame-retardant

Product improvement!
CFRIP® -technology
Strip cables 50% faster!
www.igus.eu/CFRIP

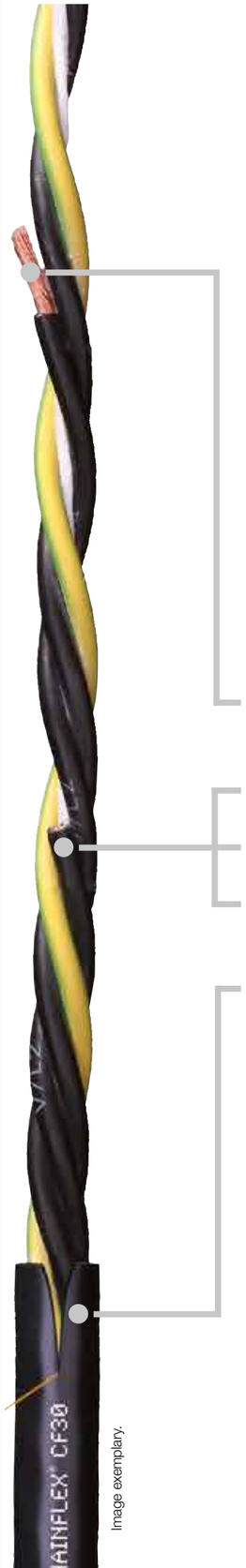


Image exemplary.

Dynamic information

Bending radius	e-chain®	minimum 7.5 x d
	flexible	minimum 6 x d
	fixed	minimum 4 x d
Temperature	e-chain®	+5 °C to +70 °C
	flexible	-5 °C to +70 °C (following EN 60811-504)
	fixed	-15 °C to +70 °C (following DIN EN 50305)
v max.	unsupported	10 m/s
	gliding	5 m/s
a max.		80 m/s²
Travel distance		Unsupported travel distances and up to 100 m for gliding applications, Class 5
Torsion		± 90°, with 1 m cable length

Cable structure

Conductor	**< 10 mm²:** 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 mixture.
Core stranding	Cores stranded in short pitch length over a centre element for high tensile stresses.
Core identification	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, adapted to suit the requirements in e-chains® (following DIN VDE 0281 Part 13). Colour: Jet black (similar to RAL 9005)
CFRIP®	Strip cables 50% faster: The tear strip is in the outer jacket (starting from manufacturing date 5/2013) Video ▶ www.igus.eu/CFRIP

Electrical information

Nominal voltage	600/1000 V (following DIN VDE 0250)
Testing voltage	4000 V (following DIN EN 50396)

www.igus.eu/CFRIP

EPLAN download, configurators ▶ www.igus.eu/CF30

1,040 types from stock no cutting costs ...

(up to 10 cuts of the same types)

Class 5.5.2

5 heavy duty applications 5 travel distance up to 100 m 2 oil-resistant

Properties and approvals

UV-resistance	Medium
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
Silicon-free	Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992)
UL/CSA	Style 10492 and 2570, 1000 V, 80 °C
NFPA	Following NFPA 79-2012 chapter 12.9
EAC	Certified according to No. TC RU C-DE.ME77.B.01218
CTP	Certified according to No. C-DE.PB49.B.00416
CEI	Following CEI 20-35
Lead free	Following 2011/65/EC (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
CE	Following 2006/95/EC

Guaranteed lifetime according to guarantee conditions (Page 22-25)

Double strokes*					5 million	7.5 million	10 million
Temperature, from/to [°C]	v max. [m/s] unsupported	v max. [m/s] gliding	a max. [m/s²]	Travel distance [m]	*R* min. [factor x d]	*R* min. [factor x d]	*R* min. [factor x d]
+5 / +15	10	5	80	≤ 100	10	11	12
+15 / +60					7.5	8.5	9.5
+60 / +70					10	11	12

* Higher number of double strokes possible - please ask for your individual calculation.

Typical application areas

- For heavy duty applications
- Light oil influence
- Preferably indoor applications, but also outdoor ones at temperatures > 5 °C
- Unsupported travel distances and up to 100 m for gliding applications
- Storage and retrieval units for high-bay warehouses, machining units/packaging machines, handling, indoor cranes

... no minimum order quantity ...

CF30
PVC
7.5 x d

PVC Motor cable | CF30

Class 5.5.2

5 heavy duty applications 5 travel distance up to 100 m 2 oil-resistant

CF30
PVC
7.5 x d

Strip cables 50 % faster

Image exemplary.

Delivery program Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF30.15.04	4 G 1.5	8.5	64	106
CF30.25.04	4 G 2.5	10.5	106	160
CF30.25.05	5 G 2.5	11.5	132	210
CF30.40.04	4 G 4.0	12.0	174	258
CF30.40.05	5 G 4.0	13.0	218	315
CF30.60.04	4 G 6.0	14.0	253	362
CF30.60.05	5 G 6.0	15.5	317	444
CF30.100.04	4 G 10.0	17.5	435	614
CF30.100.05	5 G 10.0	20.0	547	758
CF30.160.04	4 G 16.0	21.0	697	918
CF30.160.05	5 G 16.0	24.0	879	1164
CF30.250.04	4 G 25.0	25.5	1094	1417
CF30.350.04	4 G 35.0	29.0	1551	1936
CF30.500.04	4 G 50.0	35.0	2222	2764

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

Online order ▶ www.chainflex.eu/CF30

Delivery time 24h or today.
Delivery time means time until shipping of goods.

EPLAN download, configurators ▶ www.igus.eu/CF30

1,040 types from stock no cutting costs ...
(up to 10 cuts of the same types)

... no minimum order quantity ...

PVC Motor cable | CF31

- For heavy duty applications
- PVC outer jacket
- Shielded
- Oil-resistant
- Flame-retardant

Product improvement!
CFRIP® -technology
Strip cables 50% faster!
www.igus.eu/CFRIP

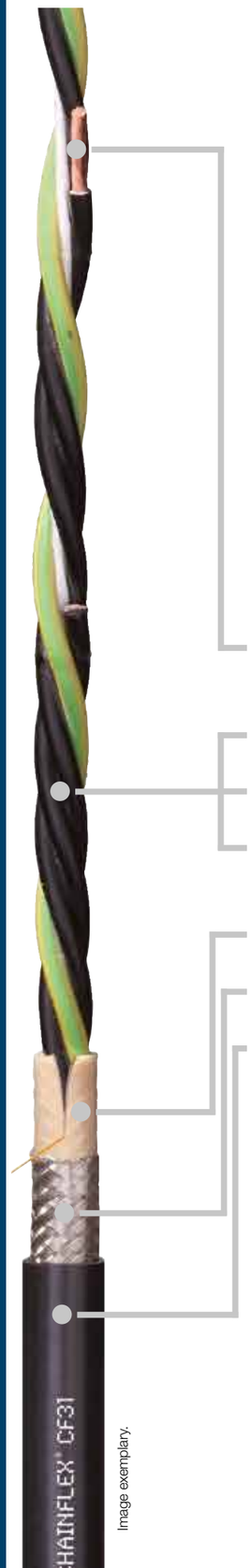


Image exemplary.

Dynamic information

Bending radius	e-chain®	minimum 7.5 x d
	flexible	minimum 6 x d
	fixed	minimum 4 x d
Temperature	e-chain®	+5 °C to +70 °C
	flexible	-5 °C to +70 °C (following EN 60811-504)
	fixed	-15 °C to +70 °C (following DIN EN 50305)
v max.	unsupported	10 m/s
	gliding	5 m/s
a max.		80 m/s²
Travel distance		Unsupported travel distances and up to 100 m for gliding applications, Class 5

Cable structure

Conductor
< 10 mm²: 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 mixture.

Core stranding
Cores stranded in short pitch length over a centre element for high tensile stresses.

Core identification
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

Inner jacket
PVC mixture adapted to suit the requirements in e-chains®.

Overall shield
Extremely bending-resistant braiding made of tinned copper wires. Coverage approx. 70% linear, approx. 90% optical.

Outer jacket
Low-adhesion, oil-resistant mixture on the basis of PVC, adapted to suit the requirements in e-chains® (following DIN VDE 0281 Part 13). Colour: Jet black (similar to RAL 9005)

CFRIP®
Strip cables 50% faster: The tear strip is in the inner jacket (starting from manufacturing date 5/2013) Video ▶ www.igus.eu/CFRIP

Electrical information

Nominal voltage	600/1000 V (following DIN VDE 0250)
Testing voltage	4000 V (following DIN EN 50396)

www.igus.eu/CFRIP

EPLAN download, configurators ▶ www.igus.eu/CF31

1,040 types from stock no cutting costs ...
(up to 10 cuts of the same types)

Class 5.5.2

5 heavy duty applications **5** travel distance up to 100 m **2** oil-resistant

Properties and approvals

UV-resistance	Medium
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
Silicon-free	Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992)
UL/CSA	Style 10492 and 2570, 1000 V, 80 °C
NFPA	Following NFPA 79-2012 chapter 12.9
EAC	Certified according to No. TC RU C-DE.ME77.B.01255
CTP	Certified according to No. C-DE.PB49.B.00420
CEI	Following CEI 20-35
Lead free	Following 2011/65/EC (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
CE	Following 2006/95/EC

Guaranteed lifetime according to guarantee conditions (Page 22-25)

Double strokes*					5 million	7.5 million	10 million
Temperature, from/to [°C]	v max. [m/s] unsupported	v max. [m/s] gliding	a max. [m/s²]	Travel distance [m]	*R* min. [factor x d]	*R* min. [factor x d]	*R* min. [factor x d]
+5 / +15	10	5	80	≤ 100	10	11	12
+15 / +60					7.5	8.5	9.5
+60 / +70					10	11	12

* Higher number of double strokes possible - please ask for your individual calculation.

Typical application areas

- For heavy duty applications
- Light oil influence
- Preferably indoor applications, but also outdoor ones at temperatures > 5 °C
- Unsupported travel distances and up to 100 m for gliding applications
- Storage and retrieval units for high-bay warehouses, machining units/packaging machines, handling, indoor cranes

... no minimum order quantity ...

CF31
PVC
7.5 x d

PVC Motor cable | CF31

Class 5.5.2

5 heavy duty applications 5 travel distance up to 100 m 2 oil-resistant

CF31
PVC
7.5 x d

Strip cables 50 % faster

Image exemplary.

Delivery program Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF31.15.04	(4 G 1.5)C	10.5	94	168
CF31.25.04	(4 G 2.5)C	12.0	142	233
CF31.25.05	(5 G 2.5)C	13.0	174	295
CF31.40.04	(4 G 4.0)C	13.5	217	345
CF31.40.05	(5 G 4.0)C	15.0	281	424
CF31.60.04	(4 G 6.0)C	16.0	318	488
CF31.60.05	(5 G 6.0)C	18.0	385	598
CF31.100.04	(4 G 10.0)C	20.5	539	833
CF31.100.05	(5 G 10.0)C	22.5	687	954
CF31.160.04	(4 G 16.0)C	23.5	823	1127
CF31.250.04	(4 G 25.0)C	28.5	1254	1718
CF31.350.04	(4 G 35.0)C	32.5	1716	2298
CF31.500.04	(4 G 50.0)C	37.5	2420	3173
CF31.700.04	(4 G 70.0)C	43.0	3454	4085

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

Online order ▶ www.chainflex.eu/CF31

Delivery time 24h or today.
Delivery time means time until shipping of goods.

EPLAN download, configurators ▶ www.igus.eu/CF31

1,040 types from stock no cutting costs ...
(up to 10 cuts of the same types)

... no minimum order quantity ...

igus® GmbH Cologne | Tel. +49(0)2203/9649-800 Fax -222 | info@igus.eu | www.chainflex.eu

iguPUR Power cable | CF895

- For flexing applications
- iguPUR outer jacket
- Oil-resistant
- Flame-retardant

chainflex® M - 5 million double strokes. Guaranteed.

Image exemplary.

Dynamic information

Bending radius	**e-chain®**	minimum 15 x d
	flexible	minimum 12 x d
	fixed	minimum 8 x d
Temperature	**e-chain®**	-20 °C to +80 °C
	flexible	-40 °C to +80 °C (following EN 60811-504)
	fixed	-50 °C to +80 °C (following DIN EN 50305)
v max.	**unsupported**	3 m/s
	gliding	
a max.		20m/s²
Travel distance		Unsupported travel distances.

Cable structure

Conductor	Conductor consisting of bare copper wires (according to EN 60228).
Core insulation	Mechanically high-quality, especially low-capacitance TPE mixture.
Core stranding	Cores stranded in optimized pitch.
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-
Outer jacket	Low-adhesion mixture on the basis of iguPUR, adapted to suit the requirements in e-chains®. Colour: Pastel orange (similar to RAL 2003)

Electrical information

Nominal voltage	600/1000 V (following DIN VDE 0250)
Testing voltage	4000 V (following DIN EN 50396)

Properties and approvals

UV-resistance	Medium
Flame-retardant	According to IEC 60332-1-2, CEI 20-35, FT-2
Oil	Oil-resistant (following DIN EN 50363-10-2)
Silicon-free	Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992).
UL/CSA	Style 10492 and 20940, 1000V, 80°C

1,040 types from stock no cutting costs ...

(up to 10 cuts of the same types)

Class 3.1.3

3 low duty applications **1** unsupported travels **3** oil-resistant

EAC	Certified according to No. TC RU C-DE.ME77.B.01561
CTP	Certified according to No. C-DE.PB49.B.00450
Lead free	Following 2011/65/EC (RoHS-II)
DESINA	According to VDW, DESINA standardisation
CE	Following 2006/95/EC

Guaranteed lifetime according to guarantee conditions (Page 22-25)

Double strokes*				1 million	3 million	5 million
Temperature, from/to [°C]	v max. [m/s] unsupported	a max. [m/s²]	Travel distance [m]	*R* min. [factor x d]	*R* min. [factor x d]	*R* min. [factor x d]
-20 / -10	3	20	≤ 10	17.5	18.5	19.5
-10 / +70				15	16	17
+70 / +80				17.5	18.5	19.5

* Higher number of double strokes possible - please ask for your individual calculation.

Typical application areas

- For flexing applications
- With influence of oil
- Indoor and outdoor applications without direct sun radiation
- Especially for unsupported travel distances
- Machining units/machine tools, low temperature applications

Delivery program Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF895.15.04	4 G 1.5	8.5	64	113
CF895.25.04	4 G 2.5	10.0	106	171
CF895.40.04	4 G 4.0	12.0	169	252
CF895.60.04	4 G 6.0	14.0	254	356
CF895.100.04	4 G 10.0	16.5	423	549
CF895.160.04 [1.6)]	4 G 16.0	20.0	676	858

[1.6)] Delivery time: 6 weeks **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: CF895.25.04 – in your desired length (0.5 m steps)
CF895 chainflex® series .025 Code nominal cross section .04 Number of cores

Online order ▶ www.chainflex.eu/CF895

Delivery time 24h or today.
Delivery time means time until shipping of goods.

EPLAN download, configurators ▶ www.igus.eu/CF895

... no minimum order quantity ...

CF895
iguPUR
15 x d

iguPUR Power cable | CF896

- For flexing applications
- iguPUR outer jacket
- Shielded
- Oil-resistant
- Flame-retardant

chainflex® M - 5 million double strokes. Guaranteed.

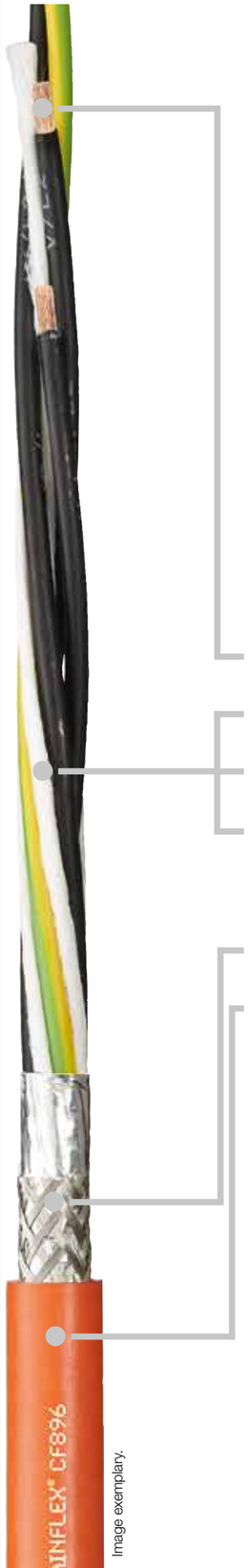


Image exemplary.

Dynamic information

Bending radius	e-chain®	minimum 15 x d
	flexible	minimum 12 x d
	fixed	minimum 8 x d
Temperature	e-chain®	-20 °C to +80 °C
	flexible	-40 °C to +80 °C (following EN 60811-504)
	fixed	-50 °C to +80 °C (following DIN EN 50305)
v max.	unsupported	3 m/s
	gliding	
a max.		20m/s²
Travel distance		Unsupported travel distances.

Cable structure

Conductor	Conductor consisting of bare copper wires (according to EN 60228).
Core insulation	Mechanically high-quality, especially low-capacitance TPE mixture.
Core stranding	Cores stranded in optimized pitch.
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-
Overall shield	Braiding made of tinned copper wires. Coverage approx. 60% optical.
Outer jacket	Low-adhesion mixture on the basis of iguPUR, adapted to suit the requirements in e-chains®. Colour: Pastel orange (similar to RAL 2003)

Electrical information

Nominal voltage	600/1000 V (following DIN VDE 0250)
Testing voltage	4000 V (following DIN EN 50396)

Properties and approvals

UV-resistance	Medium
Flame retardant	According to IEC 60332-1-2, CEI 20-35, FT-2
Oil	Oil-resistant (following DIN EN 50363-10-2)
Silicon-free	Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992).

1,040 types from stock no cutting costs ...

(up to 10 cuts of the same types)

Class 3.1.3

3 low duty applications | 1 unsupported travels | 3 oil-resistant

UL/CSA	Style 10492 and 20940, 1000V, 80°C
EAC	Certified according to No. TC RU C-DE.ME77.B.01561
CTP	Certified according to No. C-DE.PB49.B.00450
Lead free	Following 2011/65/EC (RoHS-II)
DESINA	According to VDW, DESINA standardisation
CE	Following 2006/95/EC

Typical application areas

Double strokes*				1 million	3 million	5 million
Temperature, from/to [°C]	v max. [m/s] unsupported	a max. [m/s²]	Travel distance [m]	*R* min. [factor x d]	*R* min. [factor x d]	*R* min. [factor x d]
-20 / -10	3	20	≤ 10	17.5	18.5	19.5
-10 / +70				15	16	17
+70 / +80				17.5	18.5	19.5

* Higher number of double strokes possible - please ask for your individual calculation.

Typical application areas

- For flexing applications
- With influence of oil
- Indoor and outdoor applications without direct sun radiation
- Especially for unsupported travel distances
- Machining units/machine tools, low temperature applications

Delivery program Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF896.15.04	(4 G 1.5)C	9.0	83	130
CF896.25.04	(4 G 2.5)C	10.5	130	190
CF896.40.04	(4 G 4.0)C	12.5	198	271
CF896.60.04	(4 G 6.0)C	14.5	297	386
CF896.100.04 [1.6)]	(4 G 10.0)C	17.5	474	583
CF896.160.04 [1.6)]	(4 G 16.0)C	20.5	745	885

[1.6)] Delivery time: 6 weeks **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: CF896.25.04 – in your desired length (0.5 m steps)
CF896 chainflex® series .025 Code nominal cross section .04 Number of cores

Online order ▶ www.chainflex.eu/CF896

Delivery time 24h or today.
Delivery time means time until shipping of goods.

... no minimum order quantity ...

CF896
iguPUR
15 x d

PUR Motor cable | CF270.UL.D

- For medium duty applications
- PUR outer jacket
- Shielded
- Oil-resistant and coolant-resistant
- Notch-resistant
- Flame-retardant
- Hydrolysis-/microbe-resistant
- PVC-free/halogen-free

Dynamic information

Bending radius		e-chain®	minimum 10 x d
		flexible	minimum 8 x d
		fixed	minimum 5 x d
Temperature		e-chain®	-25 °C to +80 °C
		flexible	-40 °C to +80 °C (following EN 60811-504)
		fixed	-50 °C to +80 °C (following DIN EN 50305)
v max.		unsupported	10 m/s
		gliding	2 m/s
a max.			50 m/s²
Travel distance			Unsupported travel distances and up to 10 m for gliding applications, Class 2

Cable structure

Conductor	Stranded conductor in bending-resistant version consisting of bare copper wires (following EN 60228).
Core insulation	Mechanically high-quality, especially low-capacitance TPE mixture.
Core stranding	Cores stranded in short pitch length over a centre element for high tensile stresses.
Core identification	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-
Intermediate layer	Foil taping over the external layer.
Overall shield	Bending-resistant braiding made of tinned copper wires. Coverage approx. 55% linear, approx. 80% optical.
Outer jacket	Low-adhesion mixture on the basis of PUR, adapted to suit the requirements in energy chains® (following DIN VDE 0282 Part 10). Colour: Pastel orange (similar to RAL 2003)

Electrical information

Nominal voltage	600/1000 V (following DIN VDE 0250)
Testing voltage	4000 V (following DIN EN 50396)

Image exemplary.

EPLAN download, configurators ▶ www.igus.eu/CF270ULD

1,040 types from stock no cutting costs ...

(up to 10 cuts of the same types)

Class 4.2.3

4 medium duty applications | 2 travel distance up to 10 m | 3 oil-resistant

Properties and approvals

UV-resistance	Medium
Oil	Oil-resistant (following DIN EN 50363-10-2), Class 3
Offshore	MUD-resistant following NEK 606 - status 2009
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)
Halogen-free	Following EN 50267-2-1
UL/CSA	Style 10989 and 21223, 1000 V, 80 °C
NFPA	Following NFPA 79-2012 chapter 12.9
EAC	Certified according to No. TC RU C-DE.ME77.B.01255
CTP	Certified according to No. C-DE.PB49.B.00420
CEI	Following CEI 20-35
Lead free	Following 2011/65/EC (RoHS-II)
Clean room	According to ISO Class 1, material/cable tested by IPA according to ISO standard 14644-1
DESINA	According to VDW, DESINA standardisation
CE	Following 2006/95/EC

Guaranteed lifetime according to guarantee conditions (Page 22-25)

Double strokes*					5 million	7.5 million	10 million
Temperature, from/to [°C]	v max. [m/s] unsupported	v max. [m/s] gliding	a max. [m/s²]	Travel distance [m]	*R* min. [factor x d]	*R* min. [factor x d]	*R* min. [factor x d]
-25 / -15	10	2	50	≤ 10	12.5	13.5	14.5
-15 / +70					10	11	12
+70 / +80					12.5	13.5	14.5

* Higher number of double strokes possible - please ask for your individual calculation.

Typical application areas

- For medium duty applications
- Almost unlimited resistance to oil
- Indoor and outdoor applications without direct sun radiation
- Unsupported travel distances and up to 10 m for gliding applications
- Machining units/machine tools, low temperature applications

... no minimum order quantity ...

CF270.UL.D
PUR
10 x d

PUR Motor cable | CF270.UL.D

Class 4.2.3

4 medium duty applications 2 travel distance up to 10 m 3 oil-resistant

CF270.UL.D
PUR
10 x d

Image exemplary.

Delivery program Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF270.UL.15.04.D	(4 G 1.5)C	9.5	90	156
CF270.UL.25.04.D	(4 G 2.5)C	11.5	154	240
CF270.UL.40.04.D	(4 G 4.0)C	12.5	231	337
CF270.UL.60.04.D	(4 G 6.0)C	14.5	337	465
CF270.UL.100.04.D	(4 G 10.0)C	18.0	545	774
CF270.UL.160.04.D	(4 G 16.0)C	22.0	861	1130
CF270.UL.250.04.D	(4 G 25.0)C	25.5	1316	1691
CF270.UL.350.04.D	(4 G 35.0)C	33.0	1864	2483

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: CF270.UL.60.04.D – in your desired length (0.5 m steps)
CF270.UL.D chainflex® series .60 Code nominal cross section .04 Number of cores

Online order ▶ www.chainflex.eu/CF270ULD

Delivery time 24h or today.
Delivery time means time until shipping of goods.

1,040 types from stock no cutting costs ...
(up to 10 cuts of the same types)

... no minimum order quantity ...

TPE Motor cable | CF34.UL.D

- For heaviest duty applications
- TPE outer jacket
- Oil-resistant
- Bio-oil-resistant
- Flame-retardant
- UV-resistant
- Hydrolysis-/microbe-resistant

Product improvement!
CFRIP® -technology
Strip cables 50% faster!
www.igus.eu/CFRIP

Image exemplary.

Dynamic information

Bending radius	e-chain®	minimum 7.5 x d
	flexible	minimum 6 x d
	fixed	minimum 4 x d
Temperature	e-chain®	-35 °C to +90 °C
	flexible	-45 °C to +90 °C (following EN 60811-504)
	fixed	-50 °C to +90 °C (following DIN EN 50305)
v max.	unsupported	10 m/s
	gliding	6 m/s
a max.		80 m/s²
Travel distance		Unsupported travel distances and up to 400 m and more for gliding applications, Class 6
Torsion		± 90°, with 1 m cable length

Cable structure

Conductor	**< 10 mm²:** 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 mixture.
Core stranding	Cores stranded in short pitch length over a centre element for high tensile stresses.
Core identification	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 e-chains®. Color: Signal black (comparable RAL 9004).
CFRIP®	Strip cables 50% faster: The tear strip is in the outer jacket (starting from manufacturing date 5/2013) Video ▶ www.igus.eu/CFRIP

Electrical information

Nominal voltage	600/1000 V (following DIN VDE 0250)
Testing voltage	4000 V (following DIN EN 50396)

www.igus.eu/CFRIP

EPLAN download, configurators ▶ www.igus.eu/CF34

1,040 types from stock no cutting costs ...

(up to 10 cuts of the same types)

Class 6.6.4

6 heaviest duty applications **6** travel distance up to 400 m and more **4** oil-resistant

CF34.UL.D
TPE
7.5 x d

Properties and approvals

UV-resistance	High
Oil	Oil-resistant (following DIN EN 60811-2-1), bio-oil-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
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
GL	Certified according to GL Type Testing – Certificate No.: 61 938-14 HH
EAC	Certified according to No. TC RU C-DE.ME77.B.01255
CTP	Certified according to No. C-DE.PB49.B.00420
CEI	Following CEI 20-35
Lead free	Following 2011/65/EC (RoHS-II)
Clean room	According to ISO Class 1, material/cable tested by IPA according to ISO standard 14644-1
DESINA	According to VDW, DESINA standardisation
CE	Following 2006/95/EC

Guaranteed lifetime according to guarantee conditions (Page 22-25)

Double strokes*					5 million	7.5 million	10 million
Temperature, from/to [°C]	v max. [m/s] unsupported	v max. [m/s] gliding	a max. [m/s²]	Travel distance [m]	*R* min. [factor x d]	*R* min. [factor x d]	*R* min. [factor x d]
-35 / -25	10	6	80	≤ 400	10	11	12
-25 / +80					7.5	8.5	9.5
+80 / +90					10	11	12

* Higher number of double strokes possible - please ask for your individual calculation.

Typical application areas

- For heaviest duty applications
- Almost unlimited resistance to oil, also with bio-oils
- Indoor and outdoor applications, UV-resistant
- Unsupported travel distances and up to 400 m and more for gliding applications
- 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

... no minimum order quantity ...

TPE Motor cable | CF34.UL.D

Class 6.6.4

6 heaviest duty applications | 6 travel distance up to 400 m and more | 4 oil-resistant

CF34.UL.D
TPE
7.5 x d

Strip cables 50 % faster

Image exemplary.

Delivery program Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF34.UL.15.04.D	4 G 1.5	8.5	64	112
CF34.UL.25.04.D	4 G 2.5	10.5	106	172
CF34.UL.40.04.D	4 G 4.0	12.0	174	255
CF34.UL.60.04.D	4 G 6.0	14.0	253	360
CF34.UL.60.05.D	5 G 6.0	15.5	317	440
CF34.UL.100.04.D	4 G 10.0	17.0	435	568
CF34.UL.100.05.D	5 G 10.0	19.0	550	729
CF34.UL.160.04.D	4 G 16.0	20.5	697	871
CF34.UL.160.05.D	5 G 16.0	23.0	877	1103
CF34.UL.250.04.D	4 G 25.0	24.5	1094	1348
CF34.UL.60.04.O.PE.D [1.5)]	4 x 6	14.0	253	360
CF34.UL.100.04.O.PE.D	4 x 10	17.0	435	568
CF34.UL.160.04.O.PE.D	4 x 16	20.5	697	871
CF34.UL.500.03.O.PE.D	3 x 50	30.5	1650	2084

[1.5)] Delivery time: 5 weeks
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: 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

Online order ▶ www.chainflex.eu/CF34

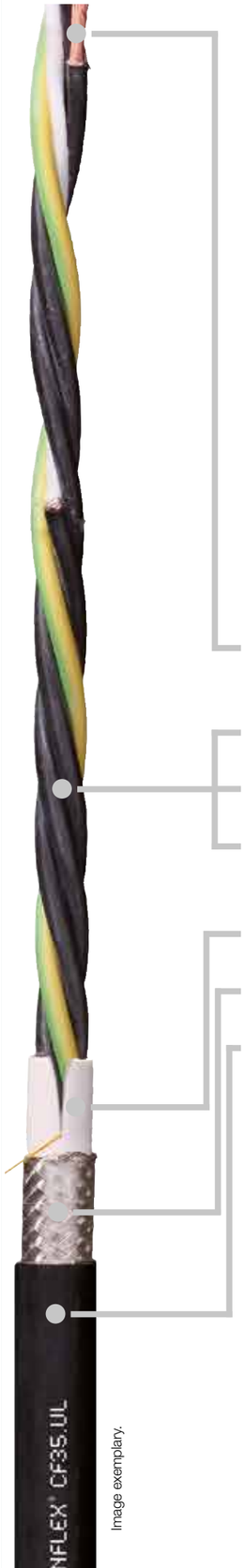
Delivery time 24h or today.
Delivery time means time until shipping of goods.

EPLAN download, configurators ▶ www.igus.eu/CF34

1,040 types from stock no cutting costs ...
(up to 10 cuts of the same types)

... no minimum order quantity ...

TPE Motor cable | CF35.UL



- For heaviest duty applications
- TPE outer jacket
- Shielded
- Oil-resistant, bio-oil-resistant
- Flame-retardant
- UV-resistant
- Hydrolysis-/microbe-resistant

Product improvement!
CFRIP® -technology
Strip cables 50% faster!
www.igus.eu/CFRIP

Dynamic information

Bending radius	e-chain®	minimum 7.5 x d
	flexible	minimum 6 x d
	fixed	minimum 4 x d
Temperature	e-chain®	-35 °C to +90 °C
	flexible	-45 °C to +90 °C (following EN 60811-504)
	fixed	-50 °C to +90 °C (following DIN EN 50305)
v max.	unsupported	10 m/s
	gliding	6 m/s
a max.		80 m/s²
Travel distance		Unsupported travel distances and up to 400 m and more for gliding applications, Class 6

Cable structure

Conductor
< 10 mm²: 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 mixture.

Core stranding
Cores stranded in short pitch length over a centre element for high tensile stresses.

Core identification
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

Inner jacket
TPE mixture adapted to suit the requirements in e-chains®.

Overall shield
Extremely bending-resistant braiding made of tinned copper wires. Coverage approx. 70% linear, approx. 90% optical.

Outer jacket
Low-adhesion mixture on the basis of TPE, especially abrasion-resistant and highly flexible, adapted to suit the requirements in e-chains®. Color: Signal black (comparable RAL 9004).

CFRIP®
Strip cables 50% faster: The tear strip is in the inner jacket (starting from manufacturing date 5/2013) Video ▶ www.igus.eu/CFRIP

Electrical information

Nominal voltage	600/1000 V (following DIN VDE 0250)
Testing voltage	4000 V (following DIN EN 50396)

www.igus.eu/CFRIP

EPLAN download, configurators ▶ www.igus.eu/CF35

1,040 types from stock no cutting costs ...
(up to 10 cuts of the same types)

Class 6.6.4

6 heaviest duty applications **6** travel distance up to 400 m and more **4** oil-resistant

Properties and approvals

UV-resistance	High
Oil	Oil-resistant (following DIN EN 60811-2-1), bio-oil-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
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
GL	Certified according to GL Type Testing – Certificate No.: 61 938-14 HH
EAC	Certified according to No. TC RU C-DE.ME77.B.01255
CTP	Certified according to No. C-DE.PB49.B.00420
CEI	Following CEI 20-35
Lead free	Following 2011/65/EC (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
CE	Following 2006/95/EC

Guaranteed lifetime according to guarantee conditions (Page 22-25)

Double strokes*					5 million	7.5 million	10 million
Temperature, from/to [°C]	v max. [m/s] unsupported	v max. [m/s] gliding	a max. [m/s²]	Travel distance [m]	*R* min. [factor x d]	*R* min. [factor x d]	*R* min. [factor x d]
-35 / -25	10	6	80	≤ 400	10	11	12
-25 / +80					7.5	8.5	9.5
+80 / +90					10	11	12

* Higher number of double strokes possible - please ask for your individual calculation.

Typical application areas

- For heaviest duty applications
- Almost unlimited resistance to oil, also with bio-oils
- Indoor and outdoor applications, UV-resistant
- Unsupported travel distances and up to 400 m and more for gliding applications
- 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

... no minimum order quantity ...

CF35.UL
TPE
7.5 x d

TPE Motor cable | CF35.UL

Class 6.6.4

6 heaviest duty applications | 6 travel distance up to 400 m and more | 4 oil-resistant

CF35.UL
TPE
7.5 x d

Strip cables 50 % faster

Image exemplary.

Delivery program Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF35.UL.05.04	(4 G 0.5)C	8.0	44	88
CF35.UL.07.04	(4 G 0.75)C	8.5	58	110
CF35.UL.15.04	(4 G 1.5)C	10.0	94	158
CF35.UL.25.04	(4 G 2.5)C	11.5	142	223
CF35.UL.40.04	(4 G 4.0)C	13.5	223	341
CF35.UL.60.04	(4 G 6.0)C	16.0	326	482
CF35.UL.100.04	(4 G 10.0)C	19.5	500	721
CF35.UL.160.04	(4 G 16.0)C	23.0	798	1083
CF35.UL.250.04	(4 G 25.0)C	27.5	1273	1636
CF35.UL.60.03.O.PE	(3 x 6.0)C	15.0	256	387
CF35.UL.100.03.O.PE [1.6)]	(3 x 10.0)C	17.5	391	606
CF35.UL.160.03.O.PE	(3 x 16.0)C	21.0	610	848
CF35.UL.250.03.O.PE	(3 x 25.0)C	25.0	973	1299
CF35.UL.350.03.O.PE	(3 x 35.0)C	28.5	1318	1797
CF35.UL.500.03.O.PE	(3 x 50.0)C	33.5	1828	2452

[1.6)] Delivery time: 6 weeks
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: CF35.UL.15.04 – in your desired length (0.5 m steps)
CF35.UL chainflex® series .15 Code nominal cross section .04 Number of cores

Online order ▶ www.chainflex.eu/CF35

Delivery time 24h or today.
Delivery time means time until shipping of goods.

EPLAN download, configurators ▶ www.igus.eu/CF35

1,040 types from stock no cutting costs ...
(up to 10 cuts of the same types)

... no minimum order quantity ...

TPE Motor cable | CF37.D

- For heaviest duty applications
- TPE outer jacket
- Oil-resistant, bio-oil-resistant
- PVC-free/halogen-free
- UV-resistant
- Hydrolysis-/microbe-resistant

Product improvement!
CFRIP® -technology
Strip cables 50% faster!
www.igus.eu/CFRIP

Image exemplary.

Dynamic information

Bending radius	e-chain®	minimum 7.5 x d
	flexible	minimum 6 x d
	fixed	minimum 4 x d
Temperature	e-chain®	-35 °C to +90 °C
	flexible	-50 °C to +90 °C (following EN 60811-504)
	fixed	-55 °C to +90 °C (following DIN EN 50305)
v max.	unsupported	10 m/s
	gliding	6 m/s
a max.		80 m/s²
Travel distance		Unsupported travel distances and up to 400 m and more for gliding applications, Class 6
Torsion		± 90°, with 1 m cable length

Cable structure

Conductor	**< 10 mm²:** 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 mixture.
Core stranding	Cores stranded in short pitch length over a centre element for high tensile stresses.
Core identification	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 e-chains®. Colour: Jet black (similar to RAL 9005)
CFRIP®	Strip cables 50% faster: The tear strip is in the outer jacket (starting from manufacturing date 5/2013) Video ▶ www.igus.eu/CFRIP

Electrical information

Nominal voltage	600/1000 V (following DIN VDE 0250)
Testing voltage	4000 V (following DIN EN 50396)

Properties and approvals

UV-resistance	High
Oil	Oil-resistant (following DIN EN 60811-2-1), bio-oil-resistant (following VDMA 24568 with Plantocut 8 S-MB tested by DEA), Class 4

1,040 types from stock no cutting costs ...
(up to 10 cuts of the same types)

Class 7.6.4

7 heaviest duty applications **6** 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
EAC	Certified according to No. TC RU C-DE.ME77.B.01255
Lead free	Following 2011/65/EC (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
DESINA	According to VDW, DESINA standardisation
CE	Following 2006/95/EC

Guaranteed lifetime according to guarantee conditions (Page 22-25)

Double strokes*					5 million	7.5 million	10 million
Temperature, from/to [°C]	v max. [m/s] unsupported	v max. [m/s] gliding	a max. [m/s²]	Travel distance [m]	*R* min. [factor x d]	*R* min. [factor x d]	*R* min. [factor x d]
-35 / -25	10	6	80	≤ 400	10	11	12
-25 / +80					7.5	8.5	9.5
+80 / +90					10	11	12

* Higher number of double strokes possible - please ask for your individual calculation.

Typical application areas

- For heaviest duty applications
- Almost unlimited resistance to oil, also with bio-oils
- Indoor and outdoor applications, UV-resistant
- Unsupported travel distances and up to 400 m and more for gliding applications
- 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 Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF37.15.04.D	4 G 1.5	8.5	64	99
CF37.25.04.D	4 G 2.5	10.5	107	169
CF37.40.04.D	4 G 4.0	12.0	174	240
CF37.60.04.D	4 G 6.0	14.0	259	370
CF37.60.05.D	5 G 6.0	15.5	317	394
CF37.100.04.D	4 G 10.0	17.5	453	544
CF37.100.05.D	5 G 10.0	19.5	567	741
CF37.160.04.D	4 G 16.0	20.5	697	833
CF37.160.05.D	5 G 16.0	23.5	878	1148
CF37.250.04.D	4 G 25.0	25.5	1094	1290
CF37.60.04.O.PE.D [1.5]	4 x 6.0	14.0	264	380
CF37.100.04.O.PE.D [1.5]	4 x 10.0	17.5	451	587
CF37.160.04.O.PE.D [1.5]	4 x 16.0	21.0	693	878
CF37.500.03.O.PE.D	3 x 50.0	31.0	1650	1999

[1.5] **Delivery time: 5 weeks 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

... no minimum order quantity ...

CF37.D
TPE
7.5 x d

TPE Motor cable | CF38

Image exemplary.

- For heaviest duty applications
- TPE outer jacket
- Shielded
- Oil-resistant, bio-oil-resistant
- PVC-free/halogen-free
- UV-resistant
- Hydrolysis-/microbe-resistant

Product improvement!
CFRIP® -technology
Strip cables 50% faster!
www.igus.eu/CFRIP

Dynamic information

Bending radius	**e-chain®**	minimum 7.5 x d
	flexible	minimum 6 x d
	fixed	minimum 4 x d
Temperature	**e-chain®**	-35 °C to +90 °C
	flexible	-50 °C to +90 °C (following EN 60811-504)
	fixed	-55 °C to +90 °C (following DIN EN 50305)
v max.	**unsupported**	10 m/s
	gliding	6 m/s
a max.		80 m/s²
Travel distance		Unsupported travel distances and up to 400 m and more for gliding applications, Class 6

Cable structure

Conductor
< 10 mm²: 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 mixture.

Core stranding
Cores stranded in short pitch length over a centre element for high tensile stresses.

Core identification
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

Inner jacket
TPE mixture adapted to suit the requirements in e-chains®.

Overall shield
Extremely bending-resistant braiding made of tinned copper wires. Coverage approx. 70% linear, approx. 90% optical.

Outer jacket
Low-adhesion mixture on the basis of TPE, especially abrasion-resistant and highly flexible, adapted to suit the requirements in e-chains®. Colour: Jet black (similar to RAL 9005)

CFRIP®
Strip cables 50% faster: The tear strip is in the outer jacket (starting from manufacturing date 5/2013) Video ▶ www.igus.eu/CFRIP

Electrical information

Nominal voltage	600/1000 V (following DIN VDE 0250)
Testing voltage	4000 V (following DIN EN 50396)

EPLAN download, configurators ▶ www.igus.eu/CF38

Class 7.6.4

7 heaviest duty applications **6** travel distance up to 400 m and more **4** oil-resistant

Properties and approvals

UV-resistance	High
Oil	Oil-resistant (following DIN EN 60811-2-1), bio-oil-resistant (following 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
EAC	Certified according to No. TC RU C-DE.ME77.B.01255
Lead free	Following 2011/65/EC (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
CE	Following 2006/95/EC

Guaranteed lifetime according to guarantee conditions (Page 22-25)

Double strokes*					5 million	7.5 million	10 million
Temperature, from/to [°C]	v max. [m/s] unsupported	v max. [m/s] gliding	a max. [m/s²]	Travel distance [m]	*R* min. [factor x d]	*R* min. [factor x d]	*R* min. [factor x d]
-35 / -25					10	11	12
-25 / +80	10	6	80	≤ 400	7.5	8.5	9.5
+80 / +90					10	11	12

* Higher number of double strokes possible - please ask for your individual calculation.

Typical application areas

- For heaviest duty applications
- Almost unlimited resistance to oil, also with bio-oils
- Indoor and outdoor applications, UV-resistant
- Unsupported travel distances and up to 400 m and more for gliding applications
- 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

TPE Motor cable | CF38

Class 7.6.4

7 heaviest duty applications 6 travel distance up to 400 m and more 4 oil-resistant

CF38
TPE
7.5 x d

Strip cables 50 % faster

Delivery program Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF38.05.04 [1.6)]	(4 G 0.5)C	8.0	44	85
CF38.07.04 [1.6)]	(4 G 0.75)C	8.5	58	110
CF38.15.04	(4 G 1.5)C	9.5	94	138
CF38.25.04	(4 G 2.5)C	11.5	145	215
CF38.40.04	(4 G 4.0)C	13.5	220	**348**
CF38.60.04	(4 G 6.0)C	16.0	327	483
CF38.100.04	(4 G 10.0)C	19.5	514	675
CF38.160.04	(4 G 16.0)C	23.0	794	1002
CF38.250.04	(4 G 25.0)C	27.5	1279	1638
CF38.60.03.O.PE [1.6)]	(3 x 6.0)C	14.5	259	388
CF38.100.03.O.PE	(3 x 10.0)C	17.5	390	598
CF38.160.03.O.PE	(3 x 16.0)C	21.0	607	841
CF38.250.03.O.PE [1.6)]	(3 x 25.0)C	24.5	970	1294
CF38.350.03.O.PE [1.6)]	(3 x 35.0)C	28.5	1326	1793
CF38.500.03.O.PE	(3 x 50.0)C	33.5	1848	2263

[1.6)] Delivery time: 6 weeks
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: CF38.250.04 – in your desired length (0.5 m steps)
CF38 chainflex® series .250 Code nominal cross section .04 Number of cores

Online order ▶ www.chainflex.eu/CF38

Delivery time 24h or today.
Delivery time means time until shipping of goods.

1,040 types from stock no cutting costs ...
(up to 10 cuts of the same types)

... no minimum order quantity ...

PUR Spindle cable/Single core | CF270.UL.D

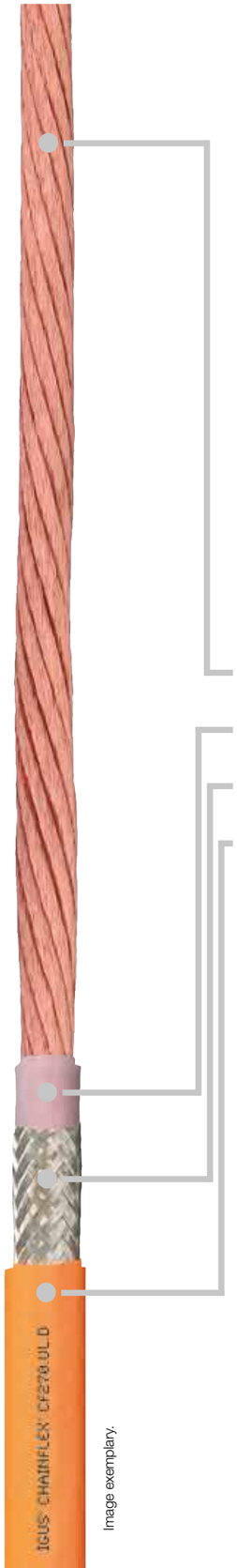


Image exemplary.

- For medium duty applications
- PUR outer jacket
- Shielded
- Oil-resistant and coolant-resistant
- Notch-resistant
- Flame-retardant
- Hydrolysis-/microbe-resistant
- PVC-free/halogen-free

Dynamic information

Bending radius	**e-chain®**	minimum 10 x d
	flexible	minimum 8 x d
	fixed	minimum 5 x d
Temperature	**e-chain®**	-25 °C to +80 °C
	flexible	-40 °C to +80 °C (following EN 60811-504)
	fixed	-50 °C to +80 °C (following DIN EN 50305)
v max.	**unsupported**	10 m/s
	gliding	2 m/s
a max.		50 m/s²
Travel distance		Unsupported travel distances and up to 10 m for gliding applications, Class 2

Cable structure

Conductor	Conductor cable consisting of pre-leads (following EN 60228).
Core insulation	Mechanically high-quality TPE mixture.
Overall shield	Bending-resistant braiding made of tinned copper wires. Coverage approx. 55% linear, approx. 80% optical.
Outer jacket	Low-adhesion mixture on the basis of PUR, adapted to suit the requirements in energy chains® (following DIN VDE 0282 Part 10). Colour: Pastel orange (similar to RAL 2003)

Electrical information

Nominal voltage	600/1000 V (following DIN VDE 0250)
Testing voltage	4000 V (following DIN EN 50396)

Properties and approvals

UV-resistance	Medium
Oil	Oil-resistant (following DIN EN 50363-10-2), Class 3
Offshore	MUD-resistant following NEK 606 - status 2009
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)

EPLAN download, configurators ▶ www.igus.eu/CF270ULD

1,040 types from stock no cutting costs ...

(up to 10 cuts of the same types)

Class 4.2.3

4 medium duty applications **2** Travel distance up to 10 m **3** oil-resistant

Halogen-free	Following EN 50267-2-1
UL/CSA	Style 10492 and 10973, 1000 V, 80 °C
NFPA	Following NFPA 79-2012 chapter 12.9
EAC	Certified according to No. TC RU C-DE.ME77.B.01255
CTP	Certified according to No. C-DE.PB49.B.00420
CEI	Following CEI 20-35
Lead free	Following 2011/65/EC (RoHS-II)
Clean room	According to ISO Class 1, material/cable tested by IPA according to ISO standard 14644-1
DESINA	According to VDW, DESINA standardisation
CE	Following 2006/95/EC

Guaranteed lifetime according to guarantee conditions (Page 22-25)

Double strokes*					5 million	7.5 million	10 million
Temperature, from/to [°C]	v max. [m/s] unsupported	v max. [m/s] gliding	a max. [m/s²]	Travel distance [m]	*R* min. [factor x d]	*R* min. [factor x d]	*R* min. [factor x d]
-25 / -15					12.5	13.5	14.5
-15 / +70	10	2	50	≤ 10	10	11	12
+70 / +80					12.5	13.5	14.5

* Higher number of double strokes possible - please ask for your individual calculation.

Typical application areas

- For medium duty applications
- Almost unlimited resistance to oil
- Indoor and outdoor applications without direct sun radiation
- Unsupported travel distances and up to 10 m for gliding applications
- Machining units/machine tools, low temperature applications

Delivery program Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF270.UL.100.01.D	(1 x 10.0)C	8.5	121	152
CF270.UL.160.01.D	(1 x 16.0)C	9.5	187	218
CF270.UL.250.01.D	(1 x 25.0)C	11.0	288	323
CF270.UL.350.01.D	(1 x 35.0)C	13.0	400	442
CF270.UL.500.01.D	(1 x 50.0)C	15.0	566	619
CF270.UL.700.01.D	(1 x 70.0)C	17.5	810	862

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

... no minimum order quantity ...

CF270.UL.D
PUR
10 x d

TPE Motor cable | CF300.UL.D

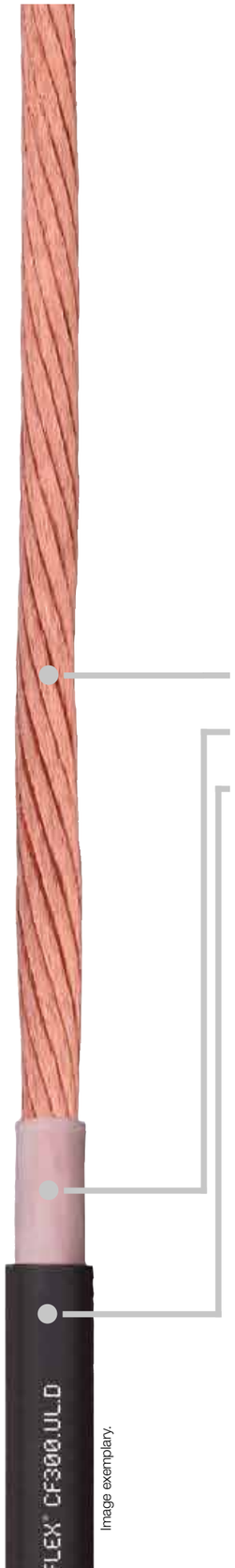


Image exemplary.

- For heaviest duty applications
- TPE outer jacket
- Oil-resistant, bio-oil-resistant
- Flame-retardant
- UV-resistant
- Hydrolysis-/microbe-resistant

Dynamic information

Bending radius	**e-chain®**	minimum 7.5 x d
	flexible	minimum 6 x d
	fixed	minimum 4 x d
Temperature	**e-chain®**	-35 °C to +90 °C
	flexible	-45 °C to +90 °C (following EN 60811-504)
	fixed	-50 °C to +90 °C (following DIN EN 50305)
v max.	**unsupported**	10 m/s
	gliding	6 m/s
a max.		100 m/s²
Travel distance		Unsupported travel distances and up to 400 m and more for gliding applications, Class 6
Torsion		± 90°, with 1 m cable length

Cable structure

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 abrasion-resistant and highly flexible, adapted to suit the requirements in e-chains®. Color: Signal black (comparable RAL 9004).

Electrical information

Nominal voltage	600/1000 V (following DIN VDE 0250)
Testing voltage	4000 V (following DIN EN 50396)

Properties and approvals

UV-resistance	High
Oil	Oil-resistant (following DIN EN 60811-2-1), bio-oil-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
Silicon-free	Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992)
UL/CSA	Style 10492 and 21218, 1000 V, 80 °C
NFPA	Following NFPA 79-2012 chapter 12.9

EPLAN download, configurators ▶ www.igus.eu/CF300

1,040 types from stock no cutting costs ...

(up to 10 cuts of the same types)

Class 6.6.4

6 heaviest duty applications **6** travel distance up to 400 m and more **4** oil-resistant

GL	Certified according to GL Type Testing – Certificate No.: 61 938-14 HH
EAC	Certified according to No. TC RU C-DE.ME77.B.01255
CTP	Certified according to No. C-DE.PB49.B.00420
CEI	Following CEI 20-35
Lead free	Following 2011/65/EC (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
DESINA	According to VDW, DESINA standardisation
CE	Following 2006/95/EC

Guaranteed lifetime according to guarantee conditions (Page 22-25)

Double strokes*					5 million	7.5 million	10 million
Temperature, from/to [°C]	v max. [m/s] unsupported	v max. [m/s] gliding	a max. [m/s²]	Travel distance [m]	*R* min. [factor x d]	*R* min. [factor x d]	*R* min. [factor x d]
-35 / -25	10	6	100	≤ 400	10	11	12
-25 / +80					7.5	8.5	9.5
+80 / +90					10	11	12

* Higher number of double strokes possible - please ask for your individual calculation.

Typical application areas

- For heaviest duty applications
- Almost unlimited resistance to oil, also with bio-oils
- Indoor and outdoor applications, UV-resistant
- Unsupported travel distances and up to 400 m and more for gliding applications
- 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 Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF300.UL.40.01.D	1x4.0	6.5	43	65
CF300.UL.60.01.D	1x6.0	7.0	64	87
CF300.UL.100.01.D	1x10.0	8.0	106	133
CF300.UL.160.01.D	1x16.0	9.5	170	205
CF300.UL.250.01.D	1x25.0	11.0	264	**310**
CF300.UL.350.01.D	1x35.0	12.5	370	418
CF300.UL.500.01.D	1x50.0	14.5	528	579
CF300.UL.700.01.D	1x70.0	16.5	766	827
CF300.UL.950.01.D	1x95.0	20.0	1009	1115
CF300.UL.1200.01.D	1x120.0	21.5	1276	1387
CF300.UL.1500.01.D	1x150.0	23.5	1584	1693
CF300.UL.1850.01.D	1x185.0	26.5	2079	2203

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

... no minimum order quantity ...

CF300.UL.D
TPE
7.5 x d

TPE Motor cable | CFPE

- For heaviest duty applications
- TPE outer jacket
- Oil-resistant, bio-oil-resistant
- Flame-retardant
- UV-resistant
- Hydrolysis-/microbe-resistant

Image exemplary.

Dynamic information

Bending radius	**e-chain®**	minimum 7.5 x d
	flexible	minimum 6 x d
	fixed	minimum 4 x d
Temperature	**e-chain®**	-35 °C to +90 °C
	flexible	-45 °C to +90 °C (following EN 60811-504)
	fixed	-50 °C to +90 °C (following DIN EN 50305)
v max.	**unsupported**	10 m/s
	gliding	6 m/s
a max.		100 m/s²
Travel distance		Unsupported travel distances and up to 400 m and more for gliding applications, Class 6
Torsion		± 90°, with 1 m cable length

Cable structure

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 e-chains®. Color: Signal black (comparable RAL 9004).

Electrical information

Nominal voltage	600/1000 V (following DIN VDE 0250)
Testing voltage	4000 V (following DIN EN 50396)

Properties and approvals

UV-resistance	High
Oil	Oil-resistant (following DIN EN 60811-2-1), bio-oil-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
Silicon-free	Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992)

EPLAN download, configurators ▶ www.igus.eu/CFPE

1,040 types from stock no cutting costs ...

(up to 10 cuts of the same types)

Class 6.6.4

6 heaviest duty applications **6** travel distance up to 400 m and more **4** oil-resistant

UL/CSA	Style 10492 and 21218, 1000 V, 80 °C
NFPA	Following NFPA 79-2012 chapter 12.9
GL	Certified according to GL Type Testing – Certificate No.: 61 938-14 HH
EAC	Certified according to No. TC RU C-DE.ME77.B.01255
CTP	Certified according to No. C-DE.PB49.B.00420
CEI	Following CEI 20-35
Lead free	Following 2011/65/EC (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
CE	Following 2006/95/EC

Guaranteed lifetime according to guarantee conditions (Page 22-25)

Double strokes*					5 million	7.5 million	10 million
Temperature, from/to [°C]	v max. [m/s] unsupported	v max. [m/s] gliding	a max. [m/s²]	Travel distance [m]	*R* min. [factor x d]	*R* min. [factor x d]	*R* min. [factor x d]
-35 / -25	10	6	100	≤ 400	10	11	12
-25 / +80					7.5	8.5	9.5
+80 / +90					10	11	12

* Higher number of double strokes possible - please ask for your individual calculation.

Typical application areas

- For heaviest duty applications
- Almost unlimited resistance to oil, also with bio-oils
- Indoor and outdoor applications, UV-resistant
- Unsupported travel distances and up to 400 m and more for gliding applications
- 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 Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CFPE.15.01	1 G 1.5	5.0	17	31
CFPE.25.01	1 G 2.5	6.0	29	47
CFPE.40.01	1 G 4.0	6.5	43	67
CFPE.60.01	1 G 6.0	7.0	64	87
CFPE.100.01	1 G 10.0	8.0	106	133
CFPE.160.01	1 G 16.0	9.5	170	205
CFPE.250.01	1 G 25.0	11.0	264	311
CFPE.350.01	1 G 35.0	12.5	370	418
CFPE.500.01 [1.5)]	1 G 50.0	14.5	528	583
CFPE.700.01	1 G 70.0	16.5	766	822
CFPE.950.01	1 G 95.0	20.0	1009	1105
CFPE.1200.01 [1.5)]	1 G 120.0	21.0	1276	1378

[1.5)] Delivery time: 5 weeks
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

... no minimum order quantity ...

CFPE
TPE
7.5 x d

TPE Motor cable | CF310.UL

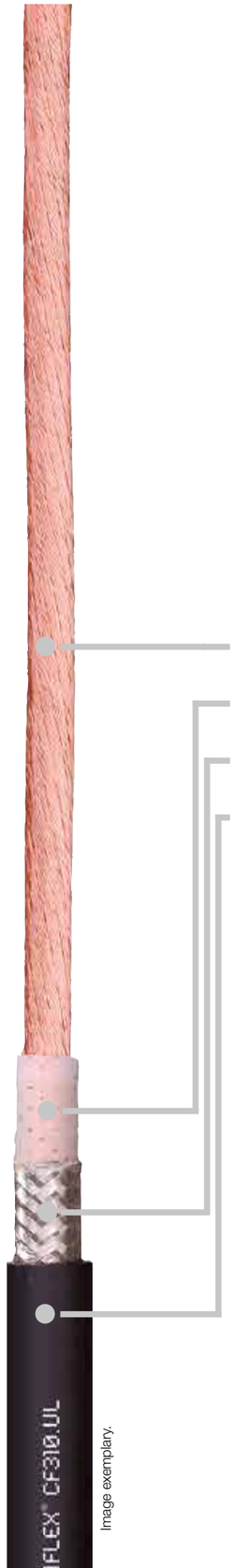


Image exemplary.

- For heaviest duty applications
- TPE outer jacket
- Shielded
- Oil-resistant, bio-oil-resistant
- Flame-retardant
- UV-resistant
- Hydrolysis-/microbe-resistant

Dynamic information

Bending radius	**e-chain®**	minimum 7.5 x d
	flexible	minimum 6 x d
	fixed	minimum 4 x d
Temperature	**e-chain®**	-35 °C to +90 °C
	flexible	-45 °C to +90 °C (following EN 60811-504)
	fixed	-50 °C to +90 °C (following DIN EN 50305)
v max.	**unsupported**	10 m/s
	gliding	6 m/s
a max.		100 m/s²
Travel distance		Unsupported travel distances and up to 400 m and more for gliding applications, Class 6

Cable structure

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 wires. Coverage approx. 70% linear, approx. 90% optical.
Outer jacket	Low-adhesion mixture on the basis of TPE, especially abrasion-resistant and highly flexible, adapted to suit the requirements in e-chains®. Color: Signal black (comparable RAL 9004).

Electrical information

Nominal voltage	600/1000 V (following DIN VDE 0250)
Testing voltage	4000 V (following DIN EN 50396)

Properties and approvals

UV-resistance	High
Oil	Oil-resistant (following DIN EN 60811-2-1), bio-oil-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
Silicon-free	Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992)
UL/CSA	Style 10492 and 21218, 1000 V, 80 °C

EPLAN download, configurators ▶ www.igus.eu/CF310

1,040 types from stock no cutting costs ...

(up to 10 cuts of the same types)

Class 6.6.4

6 heaviest duty applications **6** travel distance up to 400 m and more **4** oil-resistant

NFPA	Following NFPA 79-2012 chapter 12.9
GL	Certified according to GL Type Testing – Certificate No.: 61 938-14 HH
EAC	Certified according to No. TC RU C-DE.ME77.B.01255
CTP	Certified according to No. C-DE.PB49.B.00420
CEI	Following CEI 20-35
Lead free	Following 2011/65/EC (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
CE	Following 2006/95/EC

Guaranteed lifetime according to guarantee conditions (Page 22-25)

Double strokes*					5 million	7.5 million	10 million
Temperature, from/to [°C]	v max. [m/s] unsupported	v max. [m/s] gliding	a max. [m/s²]	Travel distance [m]	*R* min. [factor x d]	*R* min. [factor x d]	*R* min. [factor x d]
-35 / -25	10	6	100	≤ 400	10	11	12
-25 / +80					7.5	8.5	9.5
+80 / +90					10	11	12

* Higher number of double strokes possible - please ask for your individual calculation.

Typical application areas

- For heaviest duty applications
- Almost unlimited resistance to oil, also with bio-oils
- Indoor and outdoor applications, UV-resistant
- Unsupported travel distances and up to 400 m and more for gliding applications
- 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 Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF310.UL.25.01	(1x2.5)C	6.5	46	63
CF310.UL.40.01	(1x4.0)C	7.0	60	85
CF310.UL.60.01	(1x6.0)C	7.5	83	110
CF310.UL.100.01	(1x10.0)C	8.5	129	162
CF310.UL.160.01	(1x16.0)C	10.0	196	235
CF310.UL.250.01	(1x25.0)C	12.0	299	347
CF310.UL.350.01	(1x35.0)C	13.0	422	470
CF310.UL.500.01	(1x50.0)C	15.0	578	628
CF310.UL.700.01	(1x70.0)C	17.5	840	906
CF310.UL.950.01	(1x95.0)C	21.0	1095	1200
CF310.UL.1200.01	(1x120.0)C	22.0	1369	1472
CF310.UL.1500.01	(1x150.0)C	24.5	1606	1813
CF310.UL.1850.01	(1x185.0)C	27.5	2228	2360

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

... no minimum order quantity ...

CF310.UL
TPE
7.5 x d

TPE Motor cable | CF330.D

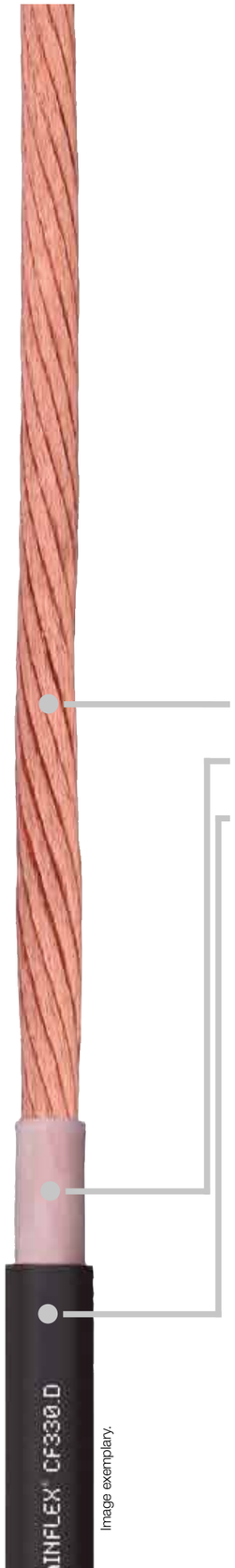


Image exemplary.

- For heaviest duty applications
- TPE outer jacket
- Oil-resistant
- Bio-oil-resistant
- PVC-free/halogen-free
- UV-resistant
- Hydrolysis-/microbe-resistant

Dynamic information

Bending radius	**e-chain®**	minimum 7.5 x d
	flexible	minimum 6 x d
	fixed	minimum 4 x d
Temperature	**e-chain®**	-35 °C to +90 °C
	flexible	-50 °C to +90 °C (following EN 60811-504)
	fixed	-55 °C to +90 °C (following DIN EN 50305)
v max.	**unsupported**	10 m/s
	gliding	6 m/s
a max.		100 m/s²
Travel distance		Unsupported travel distances and up to 400 m and more for gliding applications, Class 6
Torsion		± 90°, with 1 m cable length

Cable structure

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

Electrical information

Nominal voltage	600/1000 V (following DIN VDE 0250)
Testing voltage	4000 V (following DIN EN 50396)

Properties and approvals

UV-resistance	High
Oil	Oil-resistant (following DIN EN 60811-2-1), bio-oil-resistant (following 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
EAC	Certified according to No. TC RU C-DE.ME77.B.01255

EPLAN download, configurators ▶ www.igus.eu/CF330

1,040 types from stock no cutting costs ...

(up to 10 cuts of the same types)

Class 7.6.4

7 heaviest duty applications **6 travel distance up to 400 m and more** **4 oil-resistant**

CF330.D
TPE
7.5 x d

Lead free	Following 2011/65/EC (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
DESINA	According to VDW, DESINA standardisation
CE	Following 2006/95/EC

Guaranteed lifetime according to guarantee conditions (Page 22-25)

Double strokes*					5 million	7.5 million	10 million
Temperature, from/to [°C]	v max. [m/s] unsupported	v max. [m/s] gliding	a max. [m/s²]	Travel distance [m]	*R* min. [factor x d]	*R* min. [factor x d]	*R* min. [factor x d]
-35 / -25	10	6	100	≤ 400	10	11	12
-25 / +80					7.5	8.5	9.5
+80 / +90					10	11	12

* Higher number of double strokes possible - please ask for your individual calculation.

Typical application areas

- For heaviest duty applications
- Almost unlimited resistance to oil, also with bio-oils
- Indoor and outdoor applications, UV-resistant
- Unsupported travel distances and up to 400 m and more for gliding applications
- 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 Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF330.60.01.D	1x6.0	7.0	62	83
CF330.100.01.D	1x10.0	8.0	106	128
CF330.160.01.D	1x16.0	9.5	167	197
CF330.250.01.D	1x25.0	11.0	264	300
CF330.350.01.D	1x35.0	12.5	370	411
CF330.500.01.D	1x50.0	14.5	528	570
CF330.700.01.D	1x70.0	16.5	766	810
CF330.950.01.D	1x95.0	20.0	1009	1088
CF330.1200.01.D	1x120.0	21.5	1276	1357
CF330.1500.01.D	1x150.0	23.5	1529	1552
CF330.1850.01.D	1x185.0	26.5	2079	2167

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

Online order ▶ www.chainflex.eu/CF330

Delivery time 24h or today.
Delivery time means time until shipping of goods.

... no minimum order quantity ...

TPE Motor cable | CF340

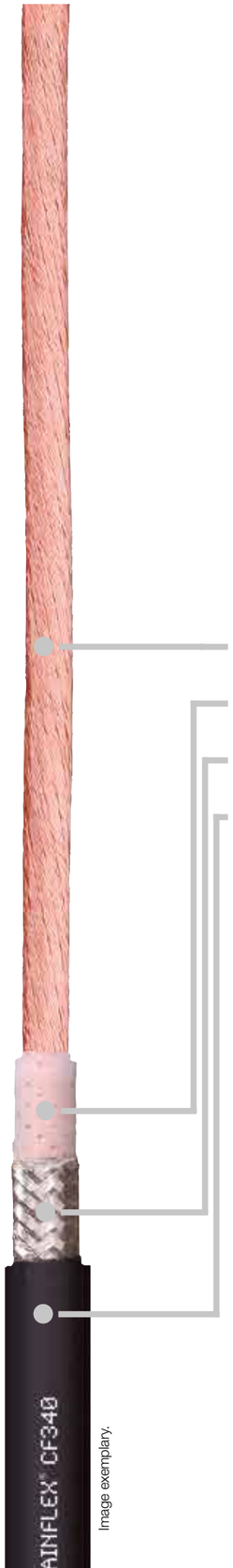


Image exemplary.

- For heaviest duty applications
- TPE outer jacket
- Shielded
- Oil-resistant, bio-oil-resistant
- PVC-free/halogen-free
- UV-resistant
- Hydrolysis-/microbe-resistant

Dynamic information

Bending radius	**e-chain®**	minimum 7.5 x d
	flexible	minimum 6 x d
	fixed	minimum 4 x d
Temperature	**e-chain®**	-35 °C to +90 °C
	flexible	-50 °C to +90 °C (following EN 60811-504)
	fixed	-55 °C to +90 °C (following DIN EN 50305)
v max.	**unsupported**	10 m/s
	gliding	6 m/s
a max.		100 m/s²
Travel distance		Unsupported travel distances and up to 400 m and more for gliding applications, Class 6

Cable structure

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 wires. Coverage approx. 70% linear, approx. 90% optical.

Outer jacket – Low-adhesion mixture on the basis of TPE, especially abrasion-resistant and highly flexible, adapted to suit the requirements in e-chains®. Colour: Jet black (similar to RAL 9005)

Electrical information

Nominal voltage	600/1000 V (following DIN VDE 0250)
Testing voltage	4000 V (following DIN EN 50396)

Properties and approvals

UV-resistance	High
Oil	Oil-resistant (following DIN EN 60811-2-1), bio-oil-resistant (following 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
EAC	Certified according to No. TC RU C-DE.ME77.B.01255

EPLAN download, configurators ▶ www.igus.eu/CF340

1,040 types from stock no cutting costs ...

(up to 10 cuts of the same types)

Class 7.6.4

7 heaviest duty applications **6** travel distance up to 400 m and more **4** oil-resistant

Lead free	Following 2011/65/EC (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
CE	Following 2006/95/EC

Guaranteed lifetime according to guarantee conditions (Page 22-25)

Double strokes*					5 million	7.5 million	10 million
Temperature, from/to [°C]	v max. [m/s] unsupported	v max. [m/s] gliding	a max. [m/s²]	Travel distance [m]	*R* min. [factor x d]	*R* min. [factor x d]	*R* min. [factor x d]
-35 / -25	10	6	100	≤ 400	10	11	12
-25 / +80					7.5	8.5	9.5
+80 / +90					10	11	12

* Higher number of double strokes possible - please ask for your individual calculation.

Typical application areas

- For heaviest duty applications
- Almost unlimited resistance to oil, also with bio-oils
- Indoor and outdoor applications, UV-resistant
- Unsupported travel distances and up to 400 m and more for gliding applications
- 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 Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF340.40.01	(1x4.0)C	7.0	60	80
CF340.60.01 [1.5)]	(1x6.0)C	7.5	83	105
CF340.100.01 [1.5)]	(1x10.0)C	8.5	129	155
CF340.160.01	(1x16.0)C	10.0	196	227
CF340.250.01	(1x25.0)C	12.0	299	337
CF340.350.01	(1x35.0)C	13.0	422	459
CF340.500.01	(1x50.0)C	15.0	578	620
CF340.700.01	(1x70.0)C	17.5	840	893
CF340.950.01	(1x95.0)C	21.0	1095	1172
CF340.1200.01	(1x120.0)C	22.0	1364	1439
CF340.1500.01	(1x150.0)C	24.5	1595	1678
CF340.1850.01	(1x185.0)C	27.5	2228	2313
CF340.2400.01 [1.5)]	(1x240.0)C	30.5	2783	2890

[1.5)] Delivery time: 5 weeks
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: CF340.100.01 – in your desired length (0.5 m steps)
CF340 chainflex® series .100 Code nominal cross section .01 Number of cores

Online order ▶ www.chainflex.eu/CF340

Delivery time 24h or today.
Delivery time means time until shipping of goods.

... no minimum order quantity ...

CF340
TPE
7.5 x d

TPE Motor cable | CF430.D

- For heaviest duty applications
- TPE outer jacket
- Oil-resistant, bio-oil-resistant
- PVC-free/halogen-free
- UV-resistant
- Hydrolysis-/microbe-resistant
- Reduced weight

New!

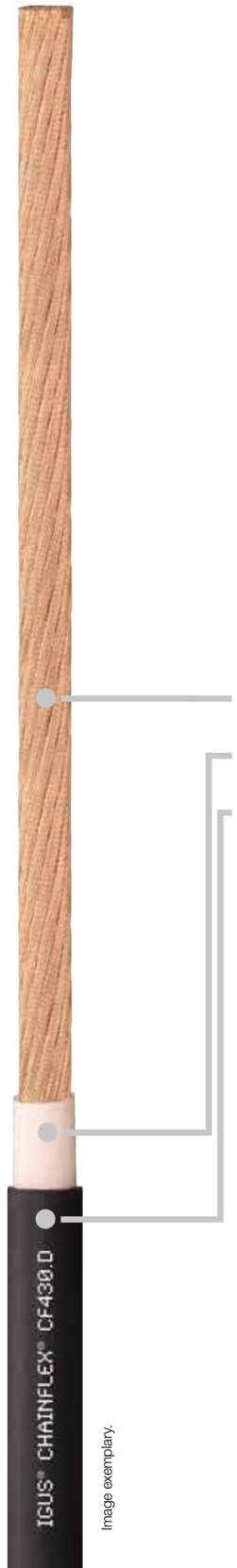


Image exemplary.

Dynamic information

Bending radius	e-chain®	minimum 10 x d
	flexible	minimum 8 x d
	fixed	minimum 5 x d
Temperature	e-chain®	-35 °C to +90 °C
	flexible	-50 °C to +90 °C (following EN 60811-504)
	fixed	-55 °C to +90 °C (following DIN EN 50305)
v max.	unsupported	10 m/s
	gliding	6 m/s
a max.		100m/s²
Travel distance		Unsupported travel distances and up to 400 m and more for gliding applications, Class 6
Torsion		± 90°, with 1 m cable length

Cable structure

Conductor	Conductor rope made of special material CCA.
Core insulation	Mechanically high-quality TPE mixture.
Outer jacket	Low-adhesion mixture on the basis of TPE, especially abrasion-resistant and highly flexible, adapted to suit the requirements in e-chains®. Colour: Jet black (similar to RAL 9005)

Electrical information

Nominal voltage	600/1000 V (following DIN VDE 0250)
Testing voltage	4000 V (following DIN EN 50396)

Properties and approvals

UV-resistance	High
Oil	Oil-resistant (following DIN EN 60811-2-1), bio-oil-resistant (following 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

EPLAN download, configurators ▶ www.igus.eu/CF430

1,040 types from stock no cutting costs ...

(up to 10 cuts of the same types)

CF430.D
TPE
10 x d

Class 7.6.4

7 heaviest duty applications **6 travel distance up to 400 m and more** **4 oil-resistant**

Lead free	Following 2011/65/EC (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
DESINA	According to VDW, DESINA standardisation
CE	Following 2006/95/EC

Guaranteed lifetime according to guarantee conditions (Page 22-25)

Double strokes*					5 million	7.5 million	10 million
Temperature, from/to [°C]	v max. [m/s] unsupported	v max. [m/s] gliding	a max. [m/s²]	Travel distance [m]	*R* min. [factor x d]	*R* min. [factor x d]	*R* min. [factor x d]
-35 / -25	10	6	100	≤ 400	12.5	13.5	14.5
-25 / +80					10	11	12
+80 / +90					12.5	13.5	14.5

* Higher number of double strokes possible - please ask for your individual calculation.

Typical application areas

- For heaviest duty applications
- Almost unlimited resistance to oil, also with bio-oils
- Indoor and outdoor applications, UV-resistant
- Unsupported travel distances and up to 400 m and more for gliding applications
- Unshielded single cores for the weight-reduced use in very long travels in e-chains®
- Storage and retrieval units for high-bay warehouses, machining units/machine tools, quick handling, ship to shore, outdoor cranes, low-temperature applications

	Delivery program Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
New	**CF430.500.01.D** [1.12]	1x50.0	17.5	—	390
New	**CF430.700.01.D** [1.12]	1x70.0	20.5	—	570
New	**CF430.950.01.D** [1.12]	1x95.0	23.5	—	750
New	**CF430.1200.01.D** [1.12]	1x120.0	26.0	—	890
New	**CF430.1500.01.D** [1.12]	1x150.0	29.0	—	1110
New	**CF430.1850.01.D** [1.12]	1x185.0	30.5	—	1260

[1.12] Delivery time: 12 weeks
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: CF430.700.01.D – in your desired length (0.5 m steps)
CF430 chainflex® series .700 Code nominal cross section .01 Number of cores

Online order ▶ www.chainflex.eu/CF430

Delivery time 24h or today.
Delivery time means time until shipping of goods.

... no minimum order quantity ...

TPE Motor cable | CF440

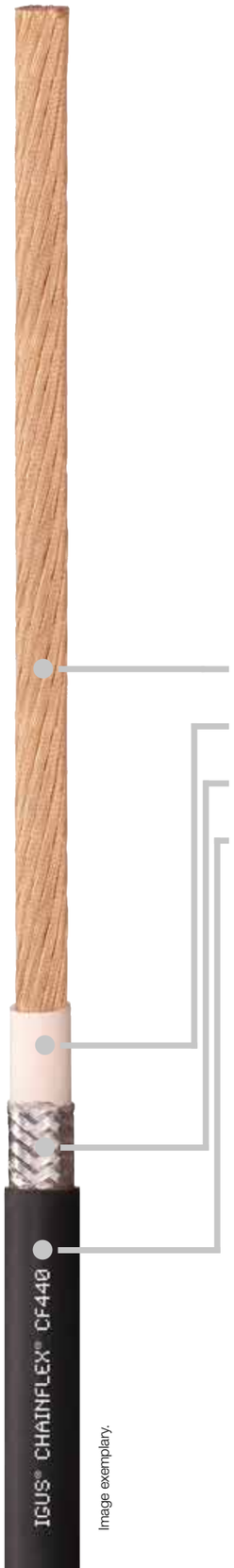


Image exemplary.

- For heaviest duty applications
- TPE outer jacket
- Shielded
- Oil-resistant, bio-oil-resistant
- PVC-free/halogen-free
- UV-resistant
- Hydrolysis-/microbe-resistant
- Reduced weight

New!

Dynamic information

Bending radius	**e-chain®**	minimum 10 x d
	flexible	minimum 8 x d
	fixed	minimum 5 x d
Temperature	**e-chain®**	-35 °C to +90 °C
	flexible	-50 °C to +90 °C (following EN 60811-504)
	fixed	-55 °C to +90 °C (following DIN EN 50305)
v max.	**unsupported**	10 m/s
	gliding	6 m/s
a max.		100m/s²
Travel distance		Unsupported travel distances and up to 400 m and more for gliding applications, Class 6

Cable structure

Conductor	Conductor rope made of special material CCA.
Core insulation	Mechanically high-quality TPE mixture.
Overall shield	Extremely bending-resistant braiding made of tinned copper wires. Coverage approx. 70% linear, approx. 90% optical.
Outer jacket	Low-adhesion mixture on the basis of TPE, especially abrasion-resistant and highly flexible, adapted to suit the requirements in e-chains®. Colour: Jet black (similar to RAL 9005)

Electrical information

Nominal voltage	600/1000 V (following DIN VDE 0250)
Testing voltage	4000 V (following DIN EN 50396)

Properties and approvals

UV-resistance	High
Oil	Oil-resistant (following DIN EN 60811-2-1), bio-oil-resistant (following 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

EPLAN download, configurators ▶ www.igus.eu/CF440

1,040 types from stock no cutting costs ...

(up to 10 cuts of the same types)

CF440
TPE
10 x d

Class 7.6.4

7 heaviest duty applications **6** travel distance up to 400 m and more **4** oil-resistant

Lead free	Following 2011/65/EC (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
CE	Following 2006/95/EC

Guaranteed lifetime according to guarantee conditions (Page 22-25)

Double strokes*					5 million	7.5 million	10 million
Temperature, from/to [°C]	v max. [m/s] unsupported	v max. [m/s] gliding	a max. [m/s²]	Travel distance [m]	*R* min. [factor x d]	*R* min. [factor x d]	*R* min. [factor x d]
-35 / -25	10	6	100	≤ 400	12.5	13.5	14.5
-25 / +80					10	11	12
+80 / +90					12.5	13.5	14.5

* Higher number of double strokes possible - please ask for your individual calculation.

Typical application areas

- For heaviest duty applications
- Almost unlimited resistance to oil, also with bio-oils
- Indoor and outdoor applications, UV-resistant
- Unsupported travel distances and up to 400 m and more for gliding applications
- Unshielded single cores for the weight-reduced use in very long travels in e-chains®
- Storage and retrieval units for high-bay warehouses, machining units/machine tools, quick handling, ship to shore, outdoor cranes, low-temperature applications

	Delivery program Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
New	**CF440.500.01** 1.12)	(1x50.0)C	18.5	94	484
New	**CF440.700.01** 1.12)	(1x70.0)C	21.5	105	677
New	**CF440.950.01** 1.12)	(1x95.0)C	24.0	116	874
New	**CF440.1200.01** 1.12)	(1x120.0)C	27.0	160	1059
New	**CF440.1500.01** 1.12)	(1x150.0)C	29.5	176	1294
New	**CF440.1850.01** 1.12)	(1x185.0)C	31.5	193	1463

1.12) Delivery time: 12 weeks
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: CF440.1200.01 – in your desired length (0.5 m steps)
CF440 chainflex® series .1200 Code nominal cross section .01 Number of cores

Online order ▶ www.chainflex.eu/CF440

Delivery time 24h or today.
Delivery time means time until shipping of goods.

... no minimum order quantity ...

igupren Motor cable | CF CRANE

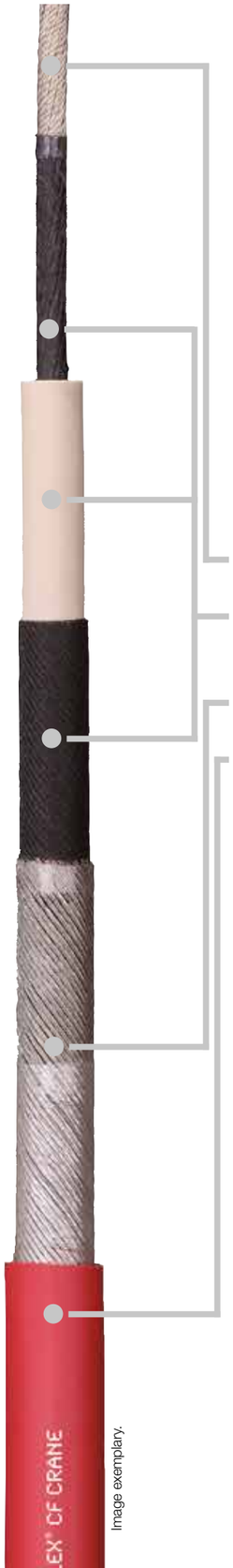


Image exemplary.

- For maximum voltages and outputs
- igupren outer jacket
- Oil-resistant
- Flame-retardant

Dynamic information

Bending radius	**e-chain®**	minimum 10 x d
	flexible	minimum 8 x d
	fixed	minimum 5 x d
Temperature	**e-chain®**	-20 °C to +80 °C
	flexible	-25 °C to +80 °C (following EN 60811-504)
	fixed	-30 °C to +80 °C (following EN 60811-504)
v max.	**unsupported**	10 m/s
	gliding	6 m/s
a max.		50 m/s²
Travel distance		Unsupported travel distances and up to 400 m and more for gliding applications, Class 6

Cable structure

Conductor	Highly flexible cable consisting of tinned copper wires (according to VDE 0295).
Core insulation	Inner and outer semiconducting layer made of condutive rubber. Insulating sheath made of highly-quality, heat-resistant and ozone-proof ethylene propylene rubber (EPR).
Overall shield	Extremely bending-resistant, tinned copper shield. Coverage approx. 95% optical.
Outer jacket	Low-adhesion mixture on the basis of iguprene, especially abrasion-resistant and highly flexible, adapted to suit the requirements in e-chains® (following VDE 0207 Part 21). Colour: Red

Electrical information

Nominal voltage	6/10 kV (following DIN VDE 0250), other voltages on request.
Testing voltage	17 kV (following DIN VDE 0250, part 813)

Properties and approvals

UV-resistance	High
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)
Lead free	Following 2011/65/EC (RoHS-II)
CE	Following 2006/95/EC

EPLAN download, configurators ▶ www.igus.eu/CFCRANE

1,040 types from stock no cutting costs ...

(up to 10 cuts of the same types)

Class 6.6.3

6 heaviest duty applications **6** travel distance up to 400 m and more **3** oil-resistant

Guaranteed lifetime according to guarantee conditions (Page 22-25)

Double strokes*					5 million	7.5 million	10 million
Temperature, from/to [°C]	v max. [m/s] unsupported	v max. [m/s] gliding	a max. [m/s²]	Travel distance [m]	*R* min. [factor x d]	*R* min. [factor x d]	*R* min. [factor x d]
-20 / -10					12.5	13.5	14.5
-10 / +70	10	6	50	> 400	10	11	12
+70 / +80					12.5	13.5	14.5

* Higher number of double strokes possible - please ask for your individual calculation.

Typical application areas

- For heaviest duty applications
- Almost unlimited resistance to oil
- Indoor and outdoor applications, UV-resistant
- Unsupported travel distances and up to 400 m and more for gliding applications
- Ship to Shore, crane applications, conveyer technology

Delivery program Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CFCRANE1x25/16-6/10kV 1.14)	(1 x 25/16)C	24.5	582	933
CFCRANE1x35/16-6/10kV 1.14)	(1 x 35/16)C	26.5	624	1057
CFCRANE1x50/16-6/10kV 1.14)	(1 x 50/16)C	29.5	784	1292
CFCRANE1x70/16-6/10kV 1.14)	(1 x 70/16)C	30.5	950	1567
CFCRANE1x95/16-6/10kV 1.14)	(1 x 95/16)C	32.5	1173	1757
CFCRANE1x120/16-6/10kV 1.14)	(1 x 120/16)C	34.5	1437	2131

1.14) Delivery time: 14 weeks
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: 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

Online order ▶ www.chainflex.eu/CFCRANE

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®

... no minimum order quantity ...

CFCRANE
igupren
10 x d