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Power Cables



chainflex® type

chainflex® cable	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 cables											
CF30	PVC		7,5	-5/ +70		✔	✔	10	5	80	204
CF31	PVC	✔	7,5	-5/ +70		✔		10	5	80	206
CF34.UL.D	TPE		7,5	-35/ +90		✔	✔	10	6	80	208
CF35.UL	TPE	✔	7,5	-35/ +90		✔		10	6	80	210
CF37.D	TPE		7,5	-35/ +90		✔	✔	10	6	80	212
CF38	TPE	✔	7,5	-35/ +90		✔		10	6	80	214
CF300.UL.D	TPE		7,5	-35/ +90		✔	✔	10	6	100	216
CFPE	TPE		7,5	-35/ +90		✔	✔	10	6	100	218
CF310.UL	TPE	✔	7,5	-35/ +90		✔		10	6	100	220
CF330.D	TPE		7,5	-35/ +90		✔	✔	10	6	100	222
CF340	TPE	✔	7,5	-35/ +90		✔		10	6	100	224
CF CRANE	iguprene	✔	10	-20/ +80		✔		10	6	50	226
Power cables (Chapter "Special cables" ▶ 254)											
CF FLAT	TPE		5	-35/ +90		✔		10	6	100	260
CF BRAID	TPE		7,5	-35/ +70		✔		10	6	80	262
CF BRAID.C	TPE	✔	7,5	-35/ +70		✔		10	6	80	262
Pneumatic hoses											
CF AIR	PU		10	-25/ +80		✔		10	6	50	228
CF Clean AIR	PE		10	-25/ +60		✔		10	6	50	230

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PVC Power cable | CF30

- for high load requirements
- PVC outer jacket
- oil-resistant
- flame-retardant



Image exemplary.

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 mixture.
Core stranding	Cores stranded in short pitch lengths over a centre for high tensile 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, oil-resistant mixture on the basis of PVC, adapted to suit the requirements in energy chains® (following DIN VDE 0281 Part 13). Colour: Jet black (similar to RAL 9005)
T/R moved	-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
v max. unsupported/gliding	10 m/s, 5 m/s
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-resistant (following DIN EN 50363-4-1), Class 2.
Flame-retardant	According to IEC 60332-1-2, CEI 20-35, FT1, VW-1

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950 types from stock no cutting costs ...
(for up to 10 cuts of the same type)

CF30
PVC
7,5 x d

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	Style 10492 and 2570, 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 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 Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter approx. [mm]	Copper index [kg/km]	Weight [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 ...

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PVC Power cable | CF31

- for high load requirements
- PVC outer jacket
- shielded
- oil-resistant
- flame-retardant



Image exemplary.

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 mixture.
Core stranding	Cores stranded in short pitch lengths over a centre for high tensile 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
Inner jacket	PVC 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.
Outer jacket	Low-adhesion, oil-resistant mixture on the basis of PVC, adapted to suit the requirements in energy chains® (following DIN VDE 0281 Part 13). Colour: Jet black (similar to RAL 9005)
T/R moved	-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
v max. unsupported/gliding	10 m/s, 5 m/s
a max.	80 m/s²
Travel distance	Freely suspended and gliding travel distances up to 100 m, Class 3
UV-resistant	Medium
Nominal voltage	600/1000 V (following DIN VDE 0250).
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

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950 types from stock no cutting costs ...

(for up to 10 cuts of the same type)

CF31
PVC
7,5 x d

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	Style 10492 and 2570, 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 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 Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter approx. [mm]	Copper index [kg/km]	Weight [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 ...

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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



Image exemplary.

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 mixture.
Core stranding	Cores stranded in short pitch lengths over a centre for high tensile 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)
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
v max. unsupported/gliding	10 m/s, 6 m/s
a max.	80 m/s²
Travel distance	Freely suspended and gliding travel distances up to 400 m and more, Class 4
Torsion	± 90 °, with 1 m cable length
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 (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).

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950 types from stock no cutting costs ...

(for up to 10 cuts of the same type)

CF34.UL.D
TPE
7,5 x d

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

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
DESINA	According to VDW, DESINA standardisation
Lead free	Following 2011/55/EU (RoHS-II)
Clean room	According to ISO Class 1, material/cable tested by IPA according to ISO 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 Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter approx. [mm]	Copper index [kg/km]	Weight [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 ...

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TPE Power cable | CF35.UL



Image exemplary.

- for maximum load requirements
- TPE outer jacket
- shielded
- 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 mixture.
Core stranding	Cores stranded in short pitch lengths over a centre for high tensile 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
Inner jacket	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.
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)
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
v max. unsupported/gliding	10 m/s, 6 m/s
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 (following VDMA 24568 with Plantocut 8 S-MB tested by DEA), Class 4.

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950 types from stock no cutting costs ...

(for up to 10 cuts of the same type)

CF35.UL
TPE
7,5 x d

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

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 (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

- 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 Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter approx. [mm]	Copper index [kg/km]	Weight [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-yellow earth core **x =** without earth core

... no minimum order quantity ...

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TPE Power cable | CF37.D

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



Image exemplary.

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 mixture.
Core stranding	Cores stranded in short pitch lengths over a centre for high tensile 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)
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
v max. unsupported/gliding	10 m/s, 6 m/s
a max.	80 m/s²
Travel distance	Freely suspended and gliding travel distances up to 400 m and more, Class 4
Torsion	± 90 °, with 1 m cable length
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 (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.

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950 types from stock no cutting costs ...

(for up to 10 cuts of the same type)

CF37.D
TPE
7,5 x d

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

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 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 Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter approx. [mm]	Copper index [kg/km]	Weight [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.
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

TPE Power cable | CF38

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



Image exemplary.

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 mixture.
Core stranding	Cores stranded in short pitch lengths over a centre for high tensile 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
Inner jacket	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.
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)
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
v max. unsupported/gliding	10 m/s, 6 m/s
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 (following VDMA 24568 with Plantocut 8 S-MB tested by DEA), Class 4.

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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)

CF38
TPE
7,5 x d

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

- 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 Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter approx. [mm]	Copper index [kg/km]	Weight [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 ...

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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



Image exemplary.

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 energy chains®. 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
v max. unsupported/gliding	10 m/s, 6 m/s
a max.	100 m/s²
Travel distance	Freely suspended and gliding travel distances up to 400 m and more, Class 4
Torsion	± 90 °, with 1 m cable length
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 (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 (starting from manufacturing date 9/2011)
CEI	Following CEI 20-35

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950 types from stock no cutting costs ...

(for up to 10 cuts of the same type)

CF300.UL.D
TPE
7,5 x d

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

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 Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter approx. [mm]	Copper index [kg/km]	Weight [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-yellow 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.

... no minimum order quantity ...

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TPE Power cable | CFPE

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



Image exemplary.

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 energy chains®. 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
v max. unsupported/gliding	10 m/s, 6 m/s
a max.	100 m/s²
Travel distance	Freely suspended and gliding travel distances up to 400 m and more, Class 4
Torsion	± 90 °, with 1 m cable length
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 (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 (starting from manufacturing date 9/2011)

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950 types from stock no cutting costs ...
(for up to 10 cuts of the same type)

CFPE
TPE
7,5 x d

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

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

- 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 Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter approx. [mm]	Copper index [kg/km]	Weight [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

... no minimum order quantity ...

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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

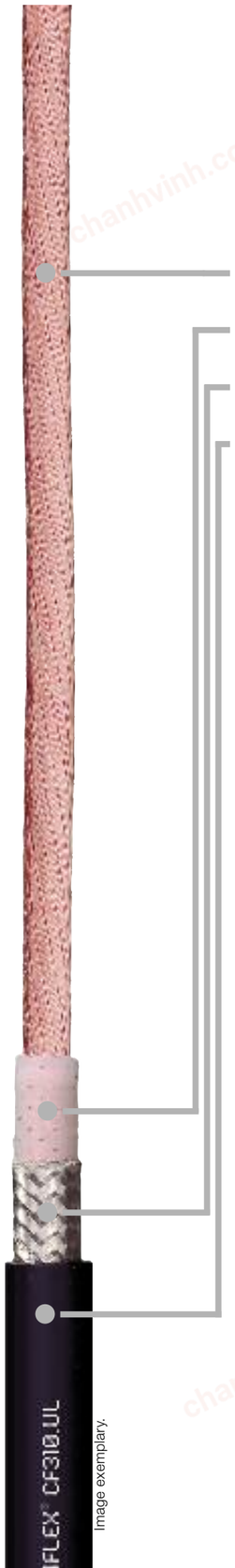


Image exemplary.

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 energy chains®. 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
v max. unsupported/gliding	10 m/s, 6 m/s
a max.	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).
Testing voltage	4000 V (following DIN VDE 0281-2).
Oil	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
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 (starting from manufacturing date 9/2011)
CEI	Following CEI 20-35

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950 types from stock no cutting costs ...

(for up to 10 cuts of the same type)

CF310.UL
TPE
7,5 x d

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

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 Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter approx. [mm]	Copper index [kg/km]	Weight [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

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: 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 ...

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TPE Power cable | CF330.D

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



Image exemplary.

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 energy chains®. 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
v max. unsupported/gliding	10 m/s, 6 m/s
a max.	100 m/s²
Travel distance	Freely suspended and gliding travel distances up to 400 m and more, Class 4
Torsion	± 90 °, with 1 m cable length
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 (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.
CE	Following 2006/95/EG
DESINA	According to VDW, DESINA standardisation
Lead free	Following 2011/55/EU (RoHS-II)

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950 types from stock no cutting costs ...

(for up to 10 cuts of the same type)

CF330.D
TPE
7,5 x d

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

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 Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter approx. [mm]	Copper index [kg/km]	Weight [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 trolley.

... no minimum order quantity ...

chanhvinh.com

TPE Power cable | CF340

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

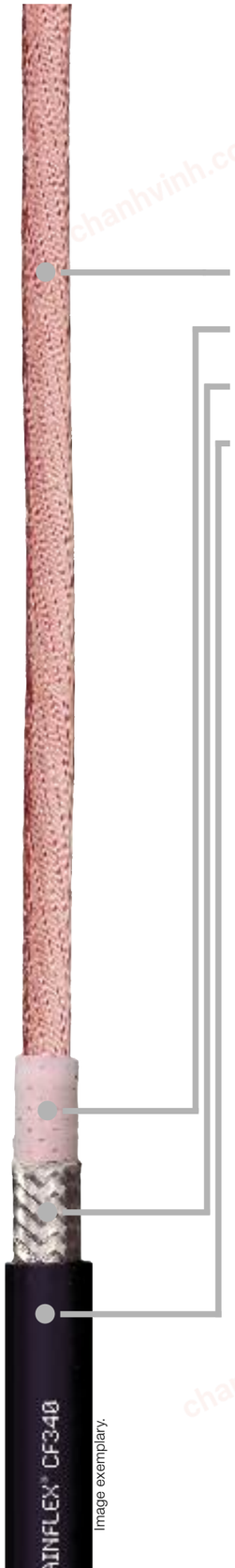


Image exemplary.

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 energy chains®. 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
v max. unsupported/gliding	10 m/s, 6 m/s
a max.	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).
Testing voltage	4000 V (following DIN VDE 0281-2).
Oil	Oil-resistant (following DIN EN 60811-2-1), biooil-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.
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

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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)

CF340
TPE
7,5 x d

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 Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter approx. [mm]	Copper index [kg/km]	Weight [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

(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: 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

... no minimum order quantity ...

chanhvinh.com

igupren Power cable | CF CRANE

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

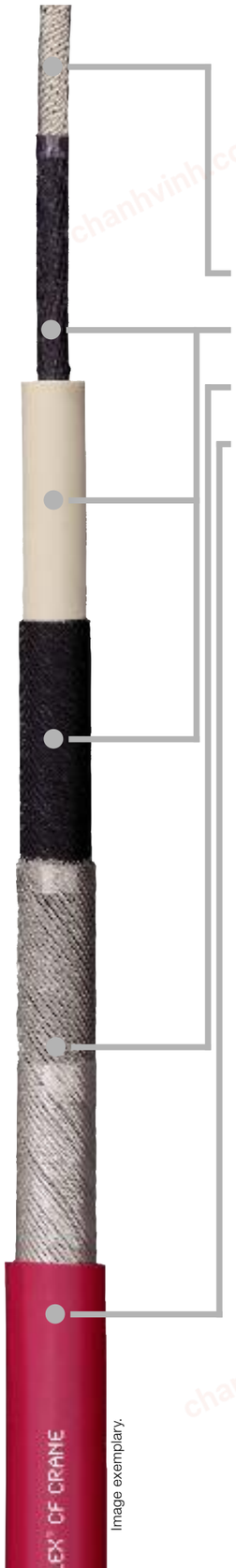


Image exemplary.

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 °C to +80 °C, minimum bending radius 10 x d
T/R fixed	-30 °C to +80 °C, minimum bending radius 7,5 x d
v max. unsupported/gliding	10 m/s, 6 m/s
a max.	50 m/s²
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)

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950 types from stock no cutting costs ...
(for up to 10 cuts of the same type)

Class 6.4.3 (6 maximum load requirements 4 travel distance up to 500 m and more 3 oil-resistant)

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 Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter approx. [mm]	Copper index [kg/km]	Weight [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
New*	**CFCRANE1x120/16-6/10kV(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®

... no minimum order quantity ...

chanhvinh.com

Pneumatic hose | CFAIR



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

[°C] R	**T/R moved**	-25 °C to +80 °C, minimum bending radius 10 x d
[°C] R	**T/R fixed**	-40 °C to +85 °C, minimum bending radius 8 x d
v R	**v max. unsupported/gliding**	10 m/s, 6 m/s
a R	**a max.**	50 m/s²
D	**Dimensions**	Outside-toleranced
bar	**Operating pressure**	12 bar at 20 °C
-bar	**Vacuum**	-1 bar at 20 °C
oil	**Oil**	Oil-resistant
Hal	**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
RoHS	**Lead free**	Following 2011/55/EU (RoHS-II)

Delivery program Part No.	Max. package length [km]	Internal diameter approx. [mm]	Wall thickness approx. [mm]	External diameter approx. [mm]	Weight [g/m]
CA PU.A.04.0	2,0	2,7	0,65	4	8
CA PU.A.06.0	1,5	4,0	1,00	6	19
CA PU.A.08.0	1,0	5,7	1,15	8	30
CA PU.A.10.0	1,0	7,0	1,50	10	48
CA PU.A.12.0	0,5	8,0	2,00	12	76
CA PU.A.16.0	0,1	11,0	2,50	16	127

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

Image exemplary.

950 types from stock no cutting costs ...
(for up to 10 cuts of the same type)

... no minimum order quantity ...

chanhvinh.com

Pneumatic hose | CF Clean AIR



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

T/R moved	-25 °C to +60 °C, minimum bending radius 10 x d
T/R fixed	-30 °C to +65 °C, minimum bending radius 8 x d
v max. unsupported/gliding	10 m/s, 6 m/s
a max.	50 m/s²
Dimensions	Outside-toleranced
Operating pressure	10 bar at 20 °C
Vacuum	-0,95 bar at 20 °C
Oil	Oil-resistant
Halogen-free	Following EN 50267-2-1.
Material	Highly abrasion-resistant on the basis of Polyethylen adapted to suit the requirements in energy chains®. Colour: White
Lead free	Following 2011/55/EU (RoHS-II)
Clean room	According to ISO Class 1, material/cable tested by IPA according 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)

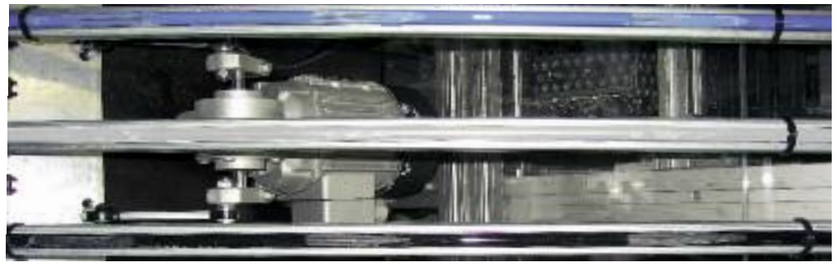
Image exemplary.

Delivery program Part No.	Max. package length [km]	Internal diameter approx. [mm]	Wall thickness approx. [mm]	External diameter approx. [mm]	Weight [g/m]
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 PE.A.16.0	0,1	11,0	2,50	16	90

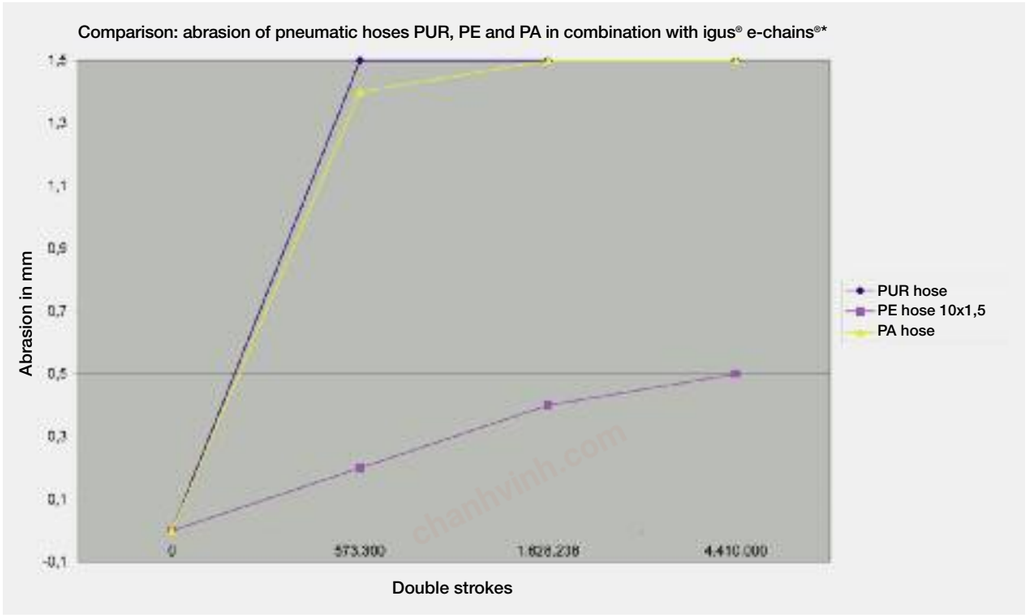
Order example: CA PE.A.04.0 – in your desired length (0,5 m steps)
CA PE chainflex® series **.A** Code material **.04** Code Ø **.0** Special identification

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

... no minimum order quantity ...
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