


















chainflex® cable	Temperature, from/to [°C]	v max. [m/s]		a max. [m/s ²]	Travel distance [m]	Bending radius min. [factor x d]		Bending radius min. [factor x d]		Bending radius min. [factor x d]		Page
		unsupported	gliding			< 10 m	≥ 10 m	< 10 m	≥ 10 m	< 10 m	≥ 10 m	
Data cables – Stranded in layer												
						5 million double strokes *		7.5 million double strokes *		10 million double strokes *		
 CF240	+5 / +15 +15 / +60 +60 / +70	3	2	20	≤ 50	12.5	15	13.5	16	14.5	17	140
 CF240.PUR	-20 / -10 -10 / +70 +70 / +80	3	2	20	≤ 50	10	12.5	11	13.5	12	14.5	144
						12.5	15	13.5	16	14.5	17	
Data cables – Twisted Pair												
 CF211	+5 / +15 +15 / +60 +60 / +70	5	3	50	≤ 100	10	7.5	11	8.5	12	9.5	148
 CF211.PUR	-20 / -10 -10 / +70 +70 / +80	5	3	50	≤ 100	10	7.5	11	8.5	12	9.5	152
 CF113	-20 / -10 -10 / +70 +70 / +80	10	5	80	≤ 100	12.5	10	13.5	11	14.5	12	156
 CF11	-35 / -25 -25 / +80 +80 / +90	10	6	100	≤ 400	12.5	7.5	13.5	8.5	14.5	9.5	160
						7.5	6.8	8.5	7.8	9.5	8.8	
						7.5	7.5	8.5	8.5	9.5	9.5	
Data cables – Twisted Pair/Pair shield												
 CF112	-20 / -10 -10 / +70 +70 / +80	10	5	80	≤ 100	12.5	10	13.5	11	14.5	12	164
 CF12	-35 / -25 -25 / +80 +80 / +90	10	6	100	≤ 400	12.5	10	13.5	11	14.5	12	168
						12.5	12.5	13.5	13.5	14.5	14.5	
Data cables – Coax												
 CFKoax1/3	-35 / -25 -25 / +90 +90 / +100	10	5	100	≤ 400	12.5	10	13.5	11	14.5	12	170
 CFKoax2	-35 / -25 -25 / +60 +60 / +70	10	5	100	≤ 400	12.5	10	13.5	11	14.5	12	170
						12.5	12.5	13.5	13.5	14.5	14.5	

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








* Guaranteed lifetime, higher numbers of double strokes possible.

- For medium duty applications
- PVC outer jacket
- Shielded
- 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®	+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
		gliding	2 m/s
	a max.		20 m/s ²
	Travel distance		Unsupported travel distances and up to 50 m for gliding applications, Class 4

Cable structure

	Conductor	Very finely stranded special cores of particularly high-flex design made of bare copper wires.
	Core insulation	Mechanically high-quality TPE mixture.
	Core stranding	The individual cores are stranded in layers with short pitch lengths.
	Core identification	Colour code in accordance with DIN 47100
	Intermediate layer	Foil taping over the external layer.
	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 5). Colour: Silver grey (similar to RAL 7001)

Electrical information

	Nominal voltage	300/300 V (following DIN VDE 0245)
	Testing voltage	1500 V














EPLAN download, configurators ► www.igus.eu/CF240

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

(up to 10 cuts of the same types)

Class 4.4.2 4 medium duty applications 4 travel distance up to 50 m 2 oil-resistant

Properties and approvals

	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 10493 and 2464, 300 V, 80 °C
	NFFPA	Following NFFPA 79-2012 chapter 12.9
	EAC	Certified according to No. TC RU C-DE.ME77.B.01254
	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 1. Outer jacket material complies with CF240.02.24, tested by IPA according to standard 14644-1.
	CE	Following 2006/95/EC

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

Temperature, from/to [°C]	Travel distance [m]	5 million		7.5 million		10 million	
		R min. [factor x d]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
+5 / +15	≤ 50	< 10 m	≥ 10 m	< 10 m	≥ 10 m	< 10 m	≥ 10 m
+15 / +60		12.5	15	13.5	16	14.5	17
+60 / +70		10	12.5	11	13.5	12	14.5

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

Typical application areas

- For medium duty applications
- Light oil influence
- Preferably indoor applications, but also outdoor ones at temperatures > 5 °C
- Unsupported travel distances and up to 50 m for gliding applications
- Storage and retrieval units for high-bay warehouses, machining units/packages machines, handling, indoor cranes

... no minimum order quantity ...

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Image exemplary.

Delivery program Part No.	Number of cores and conductor nominal cross section [mm ²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF240.01.03	(3 x 0.14)C	5.0	15	28
CF240.01.04	(4 x 0.14)C	5.0	16	32
CF240.01.05	(5 x 0.14)C	5.5	18	35
CF240.01.07	(7 x 0.14)C	6.0	25	45
CF240.01.14	(14 x 0.14)C	7.5	43	74
CF240.01.18	(18 x 0.14)C	8.0	54	93
CF240.01.24	(24 x 0.14)C	9.0	67	128
CF240.02.03	(3 x 0.25)C	5.0	18	35
CF240.02.04	(4 x 0.25)C	5.5	21	46
CF240.02.05	(5 x 0.25)C	5.5	26	43
CF240.02.07	(7 x 0.25)C	6.5	33	55
CF240.02.08	(8 x 0.25)C	7.0	37	63
CF240.02.14	(14 x 0.25)C	8.0	63	93
CF240.02.18	(18 x 0.25)C	8.5	75	111
CF240.02.24	(24 x 0.25)C	9.5	100	166
CF240.03.02	(2 x 0.34)C	5.5	20	38
CF240.03.03	(3 x 0.34)C	5.5	27	40
CF240.03.04	(4 x 0.34)C	6.0	31	52
CF240.03.05	(5 x 0.34)C	6.0	36	57
CF240.03.07	(7 x 0.34)C	7.5	48	77
CF240.03.10	(10 x 0.34)C	8.5	63	98
CF240.03.14	(14 x 0.34)C	9.0	79	116
CF240.03.18	(18 x 0.34)C	10.0	96	142
CF240.03.24	(24 x 0.34)C	11.0	127	184

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: CF240.02.03 – in your desired length (0.5 m steps)**
CF240 chainflex® series .02 Code nominal cross section .03 Number of cores

 Online order ► www.chainflex.eu/CF240

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

 EPLAN download, configurators ► www.igus.eu/CF240

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

(up to 10 cuts of the same types)

... no minimum order quantity ...

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

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	3 m/s
		gliding	2 m/s
	a max.		20 m/s ²
	Travel distance	Unsupported travel distances and up to 50 m for gliding applications, Class 4	

Cable structure

	Conductor	Very finely stranded special cores of particularly high-flex design made of bare copper wires.
	Core insulation	Mechanically high-quality TPE mixture.
	Core stranding	The individual cores are stranded in layers with short pitch lengths.
	Core identification	Colour code in accordance with DIN 47100
	Intermediate layer	Foil taping over the external layer.
	Overall shield	Extremely bending-resistant braiding made of tinned copper wires. Coverage approx. 70% linear, approx. 90% optical.
	Outer jacket	Low-adhesion, highly abrasion-resistant mixture on the basis of PUR, adapted to suit the requirements in e-chains® (following DIN VDE 0282 Part 10). Colour: Silver grey (similar to RAL 7001)

Electrical information

	Nominal voltage	300/300 V (following DIN VDE 0245)
	Testing voltage	1500 V

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

(up to 10 cuts of the same types)

Class 4.4.3 4 medium duty applications 4 travel distance up to 50 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 10493 and 20233, 300 V, 80°C
	NFFPA	Following NFFPA 79-2012 chapter 12.9
	GL	Certified according to GL Type Testing – Certificate No.: 61 936-14 HH
	EAC	Certified according to No. TC RU C-DE.ME77.B.01254
	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 1. Outer jacket material complies with CF27.07.05.02.01.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* Temperature, Travel distance from/to [°C] [m]	5 million		7.5 million		10 million	
	R min. [factor x d] < 10 m	R min. [factor x d] ≥ 10 m	R min. [factor x d] < 10 m	R min. [factor x d] ≥ 10 m	R min. [factor x d] < 10 m	R min. [factor x d] ≥ 10 m
-25 / -15	12.5	15	13.5	16	14.5	17
-15 / +70 ≤ 50	10	12.5	11	13.5	12	14.5
+70 / +80	12.5	15	13.5	16	14.5	17

* 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 with average sun radiation
- Unsupported travel distances and up to 50 m for gliding applications
- Machining units/machine tools, storage and retrieval units for high-bay warehouses, packaging industry, quick handling, refrigerating sector

... no minimum order quantity ...

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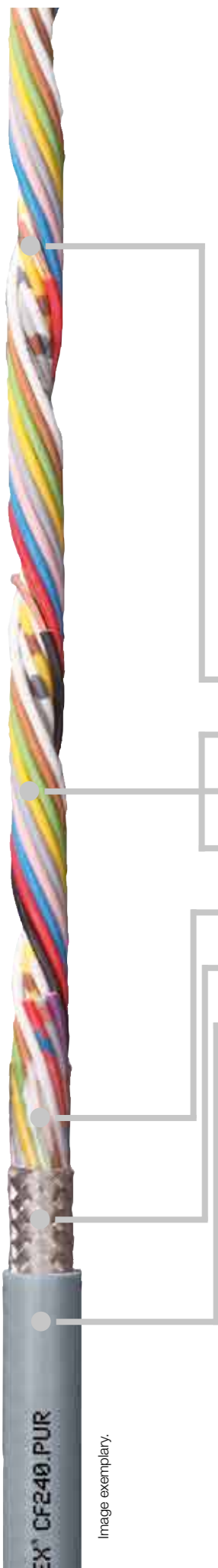


Image exemplary.



Image exemplary.

Delivery program Part No.	Number of cores and conductor nominal cross section [mm ²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF240.PUR.01.03 ^{1.5)}	(3 x 0.14)C	5.5	14	37
CF240.PUR.01.04	(4 x 0.14)C	6.0	16	40
CF240.PUR.01.05 ^{1.5)}	(5 x 0.14)C	6.0	18	45
CF240.PUR.01.07 ^{1.5)}	(7 x 0.14)C	6.5	24	55
CF240.PUR.01.14	(14 x 0.14)C	8.0	42	81
CF240.PUR.01.18	(18 x 0.14)C	8.5	54	97
CF240.PUR.02.03	(3 x 0.25)C	6.0	18	42
CF240.PUR.02.04	(4 x 0.25)C	6.0	22	46
CF240.PUR.02.05	(5 x 0.25)C	6.0	26	52
CF240.PUR.02.07	(7 x 0.25)C	7.0	33	66
CF240.PUR.02.08	(8 x 0.25)C	7.5	37	73
CF240.PUR.02.14	(14 x 0.25)C	8.5	63	106
CF240.PUR.02.18	(18 x 0.25)C	9.0	75	126
CF240.PUR.03.03 ^{1.5)}	(3 x 0.34)C	6.0	27	49
CF240.PUR.03.04	(4 x 0.34)C	6.5	31	55
CF240.PUR.03.05 ^{1.5)}	(5 x 0.34)C	7.0	36	62
CF240.PUR.03.07	(7 x 0.34)C	8.0	48	87
CF240.PUR.03.14	(14 x 0.34)C	9.5	79	131
CF240.PUR.03.18	(18 x 0.34)C	10.5	97	161

^{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: CF240.PUR.02.03 – in your desired length (0.5 m steps)
CF240.PUR chainflex® series .02 Code nominal cross section .03 Number of cores



Online order ► www.chainflex.eu/CF240PUR



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



EPLAN download, configurators ► www.igus.eu/CF240PUR

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

(up to 10 cuts of the same types)

... no minimum order quantity ...

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

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	5 m/s
		gliding	3 m/s
	a max.	50 m/s ²	
	Travel distance	Unsupported travel distances and up to 100 m for gliding applications, Class 5	

Cable structure

	Conductor	Very finely stranded special cores of particularly high-flex design made of bare copper wires.
	Core insulation	Mechanically high-quality TPE mixture.
	Core stranding	2 cores each stranded in pairs with short pitch lengths, core pairs also stranded with short pitch lengths.
	Core identification	Colour code in accordance with DIN 47100
	Intermediate layer	Foil taping over the external layer.
	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: Silver grey (similar to RAL 7001)

Electrical information

	Nominal voltage	300/300 V (following DIN VDE 0245)
	Testing voltage	1500 V



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(up to 10 cuts of the same types)

Properties and approvals

	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 10493 and 2464, 300 V, 80 °C
	NFFPA	Following NFFPA 79-2012 chapter 12.9
	EAC	Certified according to No. TC RU C-DE.ME77.B.01254
	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 1. Outer jacket material complies with CF240.02.24, tested by IPA according to standard 14644-1.
	CE	Following 2006/95/EC

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

Double strokes*	Temperature, from/to [°C]	v max. [m/s]		Travel distance [m]	5 mio.	7.5 mio.	10 mio.
		unsupported	gliding		R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
+5 / +15				≤ 100	10	11	12
+15 / +60		5	3		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/packages machines, handling, indoor cranes

Delivery program Measuring system cables

- Page 242, CF211 (PVC)
- Page 252, CF111.D (PUR)
- Page 266, CF11.D (TPE)

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Image exemplary.

Delivery program Part No.	Number of cores and conductor nominal cross section [mm ²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF211.02.01.02	(2 x 0.25)C	5.0	15	30
CF211.02.02.02 ²⁾	(4 x 0.25)C	6.0	23	39
CF211.02.03.02	(3 x (2 x 0.25))C	7.0	33	62
CF211.02.04.02	(4 x (2 x 0.25))C	8.0	40	64
CF211.02.05.02	(5 x (2 x 0.25))C	8.5	50	84
CF211.02.06.02	(6 x (2 x 0.25))C	9.0	59	106
CF211.02.08.02	(8 x (2 x 0.25))C	10.5	75	142
CF211.02.10.02	(10 x (2 x 0.25))C	12.0	95	174
CF211.02.14.02	(14 x (2 x 0.25))C	12.0	115	196
CF211.03.03.02	(3 x (2 x 0.34))C	8.0	47	84
CF211.03.08.02	(8 x (2 x 0.34))C	11.5	97	174
CF211.03.10.02 ^{1.6)}	(10 x (2 x 0.34))C	13.0	119	197
CF211.05.01.02	(2 x 0.5)C	5.5	25	43
CF211.05.02.02 ²⁾	(4 x 0.5)C	7.0	39	64
CF211.05.03.02	(3 x (2 x 0.5))C	9.0	58	106
CF211.05.04.02	(4 x (2 x 0.5))C	9.5	71	132
CF211.05.05.02	(5 x (2 x 0.5))C	10.5	87	154
CF211.05.06.02	(6 x (2 x 0.5))C	11.5	96	179
CF211.05.08.02	(8 x (2 x 0.5))C	13.5	133	233
CF211.05.10.02	(10 x (2 x 0.5))C	15.5	181	286
CF211.05.14.02	(14 x (2 x 0.5))C	15.5	200	301

^{1.6)} Delivery time: 6 weeks
The chainflex® types marked with ²⁾ are cables designed as a star-quad.
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: CF211.02.04.02 – in your desired length (0.5 m steps)
CF211 chainflex® series .02 Code nominal cross section .04 Number of pairs .02 Identification pairs



Online order ► www.chainflex.eu/C211



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



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- For heavy duty applications
- PUR outer jacket
- Shielded, twisted-pair
- Oil-resistant and coolant-resistant
- Notch-resistant
- PVC-free/halogen-free
- Flame retardant
- 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®	-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	5 m/s
		gliding	3 m/s
	a max.	50 m/s ²	
	Travel distance	Unsupported travel distances and up to 100 m for gliding applications, Class 5	

Cable structure

	Conductor	Very finely stranded special cores of particularly high-flex design made of bare copper wires.
	Core insulation	Mechanically high-quality TPE mixture.
	Core stranding	2 cores each stranded in pairs with short pitch lengths, core pairs also stranded with short pitch lengths.
	Core identification	Colour code in accordance with DIN 47100.
	Intermediate layer	Foil taping over the external layer.
	Overall shield	Extremely bending-resistant braiding made of tinned copper wires. Coverage approx. 70% linear, approx. 90% optical.
	Outer jacket	Low-adhesion, highly abrasion-resistant mixture on the basis of PUR, adapted to suit the requirements in e-chains® (following DIN VDE 0282 Part 10). Colour: Silver grey (similar to RAL 7001)

Electrical information

	Nominal voltage	300/300 V (following DIN VDE 0245)
	Testing voltage	1500 V

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

(up to 10 cuts of the same types)

Class 5.5.3 5 heavy duty applications 5 travel distance up to 100 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)
	UL/CSA	Style 10493 and 20233, 300 V, 80 °C
	NFFPA	Following NFFPA 79-2012 chapter 12.9
	EAC	Certified according to No. TC RU C-DE.ME77.B.01254
	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 1. Outer jacket material complies with CF77.UL.05.12.D, tested by IPA according to standard 14644-1
	CE	Following 2006/95/EC

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

Temperature, from/to [°C]	Double strokes*		Travel distance [m]	5 mio.	7.5 mio.	10 mio.
	v max. [m/s] unsupported	v max. [m/s] gliding		R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
-25 / -15				10	11	12
-15 / +70	5	3	≤ 100	7.5	8.5	9.5
+70 / +80				10	11	12

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

Typical application areas

- For heavy duty applications
- Almost unlimited resistance to oil
- Indoor and outdoor applications with average sun radiation
- Unsupported travel distances and up to 100 m for gliding applications
- Machining units/machine tools, storage and retrieval units for high-bay warehouses, packaging industry, quick handling, refrigerating sector

Delivery program Measuring system cables

- Page 242, CF211 (PVC)
- Page 252, CF111.D (PUR)
- Page 266, CF11.D (TPE)

... no minimum order quantity ...

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Image exemplary.

Delivery program Part No.	Number of cores and conductor nominal cross section [mm ²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF211.PUR.02.01.02 ^{1.6)}	(2 x 0.25)C	5.0	17	30
CF211.PUR.02.02.02 ²⁾	(4 x 0.25)C	6.0	24	40
CF211.PUR.02.03.02	(3 x (2 x 0.25))C	7.0	34	64
CF211.PUR.02.04.02	(4 x (2 x 0.25))C	8.0	42	67
CF211.PUR.02.05.02	(5 x (2 x 0.25))C	8.5	50	84
CF211.PUR.02.06.02	(6 x (2 x 0.25))C	9.0	59	100
CF211.PUR.02.08.02	(8 x (2 x 0.25))C	10.5	75	128
CF211.PUR.02.10.02 ^{1.6)}	(10 x (2 x 0.25))C	12.0	95	160
CF211.PUR.02.14.02	(14 x (2 x 0.25))C	12.0	115	182
CF211.PUR.03.03.02 ^{1.6)}	(3 x (2 x 0.34))C	8.0	47	84
CF211.PUR.03.08.02	(8 x (2 x 0.34))C	12.0	97	152
CF211.PUR.03.10.02 ^{1.6)}	(10 x (2 x 0.34))C	13.0	119	197
CF211.PUR.05.01.02 ^{1.6)}	(2 x 0.5)C	5.5	25	42
CF211.PUR.05.02.02 ²⁾	(4 x 0.5)C	7.0	39	61
CF211.PUR.05.03.02	(3 x (2 x 0.5))C	9.0	58	101
CF211.PUR.05.04.02	(4 x (2 x 0.5))C	9.5	71	122
CF211.PUR.05.05.02	(5 x (2 x 0.5))C	10.5	87	154
CF211.PUR.05.06.02	(6 x (2 x 0.5))C	11.5	96	179
CF211.PUR.05.08.02 ^{1.6)}	(8 x (2 x 0.5))C	13.0	133	220
CF211.PUR.05.10.02 ^{1.6)}	(10 x (2 x 0.5))C	15.0	181	277
CF211.PUR.05.14.02 ^{1.6)}	(14 x (2 x 0.5))C	15.0	200	301

^{1.6)} Delivery time: 6 weeks

The chainflex® types marked with ²⁾ are cables designed as a star-quad.

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: CF211.PUR.02.04.02 – in your desired length (0.5 m steps)
CF211.PUR chainflex® series .02 Code nominal cross section .04 Number of pairs .02 Identification pairs



Online order ► www.chainflex.eu/CF211PUR



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



EPLAN download, configurators ► www.igus.eu/CF211PUR

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

(up to 10 cuts of the same types)

... no minimum order quantity ...

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- For extremely heavy duty applications
- PUR outer jacket
- Shielded, twisted-pair
- Oil-resistant and coolant-resistant
- Notch-resistant
- PVC-free/halogen-free
- Flame retardant
- Hydrolysis-/microbe-resistant

This series will be replaced by CF211PUR!

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	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	Very finely stranded special cores of particularly high-flex design made of bare copper wires.
	Core insulation	Mechanically high-quality TPE mixture.
	Core stranding	2 cores each stranded in pairs with short pitch lengths, core pairs also stranded with short pitch lengths.
	Core identification	Colour code in accordance with DIN 47100
	Inner jacket	PUR 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, highly abrasion-resistant mixture on the basis of PUR, adapted to suit the requirements in e-chains® (following DIN VDE 0282 Part 10). Colour: Anthracite grey (similar to RAL 7016)

Electrical information

	Nominal voltage	300/300 V (following DIN VDE 0245)
	Testing voltage	1500 V

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

(up to 10 cuts of the same types)

Class 6.5.3 6 extremely heavy duty applications 5 travel distance up to 100 m 3 oil-resistant

Properties and approvals

	UV-resistance	High
	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 10493 and 20233, 300 V, 80°C
	NFFPA	Following NFFPA 79-2012 chapter 12.9
	EAC	Certified according to No. TC RU C-DE.ME77.B.01254
	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 1. Outer jacket material complies with CF77.UL.05.12.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*	Temperature, from/to [°C]	v max. [m/s]		a max. [m/s²]	Travel distance [m]	5 mio.	7.5 mio.	10 mio.
		unsupported	gliding			R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
	-25 / -15				≤ 100	12.5	13.5	14.5
	-15 / +70	10	5	80		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 extremely heavy duty applications
- Almost unlimited resistance to oil
- Indoor and outdoor applications with average sun radiation
- Unsupported travel distances and up to 100 m for gliding applications
- Machining units/machine tools, storage and retrieval units for high-bay warehouses, packaging industry, quick handling, refrigerating sector

... no minimum order quantity ...

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Phase-cut model
Image exemplary.

This series will be replaced by CF211.PUR!



Image exemplary.

Delivery program Part No.	Number of cores and conductor nominal cross section [mm ²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF113.02.02.02 ^{2) 11)}	(4 x 0.25)C	8.5	27	88
CF113.02.03.02 ¹¹⁾	(3 x (2 x 0.25))C	8.5	44	100
CF113.02.04.02 ¹¹⁾	(4 x (2 x 0.25))C	9.0	49	112
CF113.02.05.02 ¹¹⁾	(5 x (2 x 0.25))C	9.5	62	131
CF113.02.06.02 ¹¹⁾	(6 x (2 x 0.25))C	10.0	68	144
CF113.02.08.02 ¹¹⁾	(8 x (2 x 0.25))C	11.5	81	183
CF113.02.14.02 ¹¹⁾	(14 x (2 x 0.25))C	13.5	125	249
CF113.05.02.02 ^{2) 11)}	(4 x 0.5)C	10.0	55	132
CF113.05.03.02 ¹¹⁾	(3 x (2 x 0.5))C	10.5	68	148
CF113.05.04.02 ¹¹⁾	(4 x (2 x 0.5))C	11.0	77	169
CF113.05.05.02 ^{1.6) 11)}	(5 x (2 x 0.5))C	12.0	92	194
CF113.05.06.02 ¹¹⁾	(6 x (2 x 0.5))C	12.5	105	217

^{1.6)} Delivery time: 6 weeks

¹¹⁾ Phase-out model (alternative: CF211.PUR)

The chainflex® types marked with ²⁾ are cables designed as a star-quad.

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: CF113.02.06.02 – in your desired length (0.5 m steps)
CF113 chainflex® series .02 Code nominal cross section .06 Number of pairs .02 Identification pairs



Online order ► www.chainflex.eu/CF113



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



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- For extremely heavy duty applications
- TPE outer jacket
- Shielded
- Twisted-pair
- Oil-resistant, bio-oil-resistant
- PVC-free/halogen-free
- Hydrolysis-/microbe-resistant

Dynamic information

	Bending radius	e-chain®	minimum 6.8 x d
		flexible	minimum 5 x d
		fixed	minimum 4 x d
	Temperature	e-chain®	-35 °C to +100 °C
		flexible	-50 °C to +100 °C (following EN 60811-504)
		fixed	-55 °C to +100 °C (following DIN EN 50305)
	v max.	unsupported	10 m/s
		gliding	6 m/s
	a max.		100 m/s ²
	Travel distance	Unsupported travel distances and up to 400 m for gliding applications, Class 6	

Cable structure

	Conductor	Stranded conductor in especially bending-resistant version consisting of bare copper wires (following EN 60228).
	Core insulation	Mechanically high-quality TPE mixture.
	Core stranding	2 cores each stranded in pairs with short pitch lengths, core pairs also stranded with short pitch lengths.
	Core identification	Cores < 1.0 mm ² : Colour code in accordance with DIN 47100 Cores ≥ 1.0 mm ² : Cores black with white numerals
	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: Steel blue (similar to RAL 5011)

Electrical information

	Nominal voltage	300/300 V (following DIN VDE 0245)
	Testing voltage	1500 V

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

(up to 10 cuts of the same types)

Class 6.6.4

6 extremely heavy 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.01254
	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)

Temperature, from/to [°C]	Double strokes*		Travel distance [m]	5 mio.	7.5 mio.	10 mio.
	v max. [m/s] unsupported	a max. [m/s ²] gliding		R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
-35 / -25				7.5	8.5	9.5
-25 / +90	10	63	≤ 400	6.8	7.8	8.8
+90 / +100				7.5	8.5	9.5

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

Typical application areas

- For extremely heavy 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 Measuring system cables

- Page 242, CF211 (PVC)
- Page 252, CF111.D (PUR)
- Page 266, CF11.D (TPE)

... no minimum order quantity ...

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Image exemplary.

Delivery program Part No.	Number of cores and conductor nominal cross section [mm ²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF11.01.04.02	(4 x (2 x 0.14))C	7.5	31	65
CF11.01.18.02	(18 x (2 x 0.14))C	12.0	107	198
CF11.02.01.02	(2 x 0.25)C	6.0	18	39
CF11.02.02.02 ²⁾	(4 x 0.25)C	6.5	28	51
CF11.02.03.02	(3 x (2 x 0.25))C	8.0	37	80
CF11.02.04.02	(4 x (2 x 0.25))C	8.5	44	91
CF11.02.05.02	(5 x (2 x 0.25))C	9.0	52	107
CF11.02.06.02	(6 x (2 x 0.25))C	10.0	73	134
CF11.02.09.02	(9 x (2 x 0.25))C	12.5	102	208
CF11.02.10.02	(10 x (2 x 0.25))C	13.0	109	223
CF11.02.14.02	(14 x (2 x 0.25))C	13.5	132	232
CF11.03.08.02	(8 x (2 x 0.34))C	13.0	113	227
CF11.05.04.02	(4 x (2 x 0.5))C	9.5	82	138
CF11.05.06.02	(6 x (2 x 0.5))C	12.0	110	205
CF11.05.08.02	(8 x (2 x 0.5))C	14.0	145	271
CF11.07.03.02	(3 x (2 x 0.75))C	10.0	87	159
CF11.10.04.02	(4 x (2 x 1.0))C	12.0	134	237
CF11.15.06.02	(6 x (2 x 1,5))C	17.0	263	427
CF11.25.03.02	(3 x (2 x 2.5))C	15.5	226	393

The chainflex® types marked with ²⁾ are cables designed as a star-quad.
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: CF11.02.03.02 – in your desired length (0.5 m steps)**
CF11 chainflex® series .02 Code Nominal cross section .03 Number of pairs .02 Identification pairs

 Online order ► www.chainflex.eu/CF11

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

 EPLAN download, configurators ► www.igus.eu/CF11

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(up to 10 cuts of the same types)

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- For extremely heavy duty applications
- PUR outer jacket
- Double-shielded, twisted-pair
- Oil-resistant and coolant-resistant
- Notch-resistant
- PVC-free/halogen-free
- Flame retardant
- Hydrolysis-/microbe-resistant

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	5 m/s
	a max.		80 m/s ²
	Travel distance	Unsupported travel distances and up to 100 m for gliding applications, Class 5	

Cable structure

	Conductor	Very finely stranded special cores of particularly high-flex design made of bare copper wires.
	Core insulation	Mechanically high-quality TPE mixture.
	Core stranding	2 cores each stranded in pairs with short pitch lengths, core pairs also stranded with short pitch lengths.
	Core identification	Colour code in accordance with DIN 47100
	Element shield	Extremely bending-resistant braiding made of tinned copper wires. Coverage approx. 70% linear, approx. 90% optical.
	Inner jacket	PUR 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, highly abrasion-resistant mixture on the basis of PUR, adapted to suit the requirements in e-chains® (following DIN VDE 0282 Part 10). Colour: Anthracite grey (similar to RAL 7016)

Electrical information

	Nominal voltage	300/300 V (following DIN VDE 0245)
	Testing voltage	1500 V



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

(up to 10 cuts of the same types)

Class 6.5.3 6 extremely heavy duty applications 5 travel distance up to 100 m 3 oil-resistant

Properties and approvals

	UV-resistance	High
	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 10493 and 20233, 300 V, 80°C
	NFFPA	Following NFFPA 79-2012 chapter 12.9
	EAC	Certified according to No. TC RU C-DE.ME77.B.01254
	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 1. Outer jacket material complies with CF77.UL.05.12.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*	Temperature, from/to [°C]	v max. [m/s]		a max. [m/s ²]	Travel distance [m]	5 mio.	7.5 mio.	10 mio.
		unsupported	gliding			R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
	-25 / -15				≤ 100	12.5	13.5	14.5
	-15 / +70	10	5	80		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 extremely heavy duty applications
- Almost unlimited resistance to oil
- Indoor and outdoor applications with average sun radiation
- Unsupported travel distances and up to 100 m for gliding applications
- Machining units/machine tools, storage and retrieval units for high-bay warehouses, packaging industry, quick handling, refrigerating sector

... no minimum order quantity ...

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Image exemplary.

Delivery program Part No.	Number of cores and conductor nominal cross section [mm ²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF112.02.02.02	(2 x (2 x 0.25)C)C	9.5	59	131
CF112.02.03.02	(3 x (2 x 0.25)C)C	10.0	75	151
CF112.02.04.02	(4 x (2 x 0.25)C)C	11.0	86	167
CF112.02.05.02	(5 x (2 x 0.25)C)C	11.5	105	194
CF112.02.06.02	(6 x (2 x 0.25)C)C	12.5	118	221
CF112.05.02.02	(2 x (2 x 0.5)C)C	11.5	80	176
CF112.05.03.02 ^{1.6)}	(3 x (2 x 0.5)C)C	12.0	105	202
CF112.05.04.02	(4 x (2 x 0.5)C)C	13.0	124	233
CF112.05.05.02 ^{1.6)}	(5 x (2 x 0.5)C)C	13.5	151	277
CF112.05.06.02	(6 x (2 x 0.5)C)C	14.5	171	322

^{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: CF211.05.04.02 – in your desired length (0.5 m steps)**
CF211 chainflex® series .05 Code Nominal cross section .04 Number of pairs .02 Identification pairs

 Online order ► www.chainflex.eu/CF112

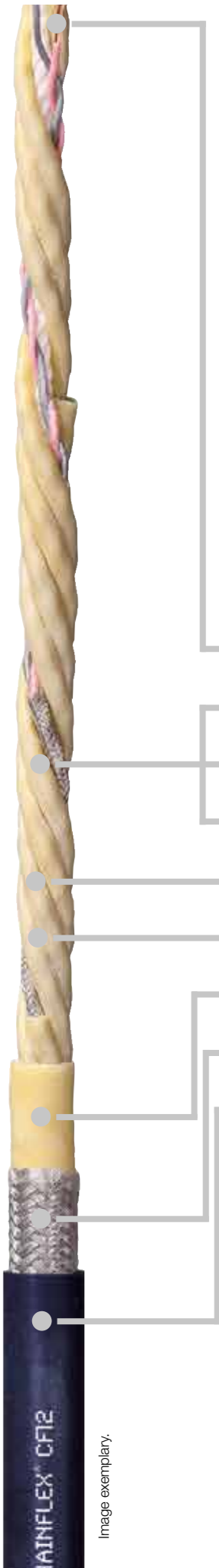
 Delivery time 24h or today
Delivery time means time until shipping of goods.

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(up to 10 cuts of the same types)

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- For extremely heavy duty applications
- TPE outer jacket
- Double-shielded
- Oil-resistant
- Bio-oil-resistant
- PVC-free/halogen-free
- Hydrolysis-/microbe-resistant

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 +100 °C
		flexible	-50 °C to +100 °C (following EN 60811-504)
		fixed	-55 °C to +100 °C (following DIN EN 50305)
	v max.	unsupported	10 m/s
		gliding	6 m/s
	a max.		100 m/s ²
	Travel distance	Unsupported travel distances and up to 400 m for gliding applications, Class 6	

Cable structure

	Conductor	Stranded conductor in especially bending-resistant version consisting of bare copper wires (following EN 60228).
	Core insulation	Mechanically high-quality TPE mixture.
	Core stranding	2 cores each stranded in pairs with short pitch lengths, core pairs also stranded with short pitch lengths.
	Core identification	Cores < 0.5 mm²: Colour code in accordance with DIN 47100 Cores ≥ 0.5 mm²: Cores black with white numerals
	Element shield	Extremely bending-resistant braiding made of tinned copper wires. Coverage approx. 70% linear, approx. 90% optical.
	Element jacket	TPE mixture on pair shielding adapted to suit the requirements in e-chains®.
	Inner jacket	TPE mixture adapted to suit the requirements in e-chains®.
	Overall shield	Highly flexible shield consisting of galvanized steel wire braid. 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: Steel blue (similar to RAL 5011)

Electrical information

	Nominal voltage	300/300 V (following DIN VDE 0245)
	Testing voltage	1500 V

Properties and approvals

	UV-resistance	High
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EPLAN download, configurators ▶ www.igus.eu/CF12

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

(up to 10 cuts of the same types)

Class 6.6.4

6 extremely heavy duty applications 6 travel distance up to 400 m and more 4 oil-resistant

	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.01254
	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)

Temperature, from/to [°C]	v max. [m/s]		a max. [m/s ²]	Travel distance [m]	5 mio.	7.5 mio.	10 mio.
	unsupported	gliding			R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
-35 / -25				≤ 400	12.5	13.5	14.5
-25 / +90	10	6	100		10	11	12
+90 / +100					12.5	13.5	14.5

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

Typical application areas

- For extremely heavy 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, outdoor cranes, low-temperature applications, for especially high EMC safety

Delivery program Part No.	Number of cores and conductor nominal cross section [mm ²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF12.02.02.02	(2 x (2 x 0.25)C)C	11.0	28	153
CF12.02.03.02 ^{1,8)}	(3 x (2 x 0.25)C)C	11.0	44	163
CF12.02.04.02	(4 x (2 x 0.25)C)C	11.0	54	177
CF12.02.05.02	(5 x (2 x 0.25)C)C	13.0	70	228
CF12.05.03.02	(3 x (2 x 0.5)C)C	13.5	69	232
CF12.05.04.02	(4 x (2 x 0.5)C)C	14.5	87	270
CF12.05.05.02	(5 x (2 x 0.5)C)C	15.5	109	341
CF12.05.06.02	(6 x (2 x 0.5)C)C	17.0	137	397
CF12.05.08.02	(8 x (2 x 0.5)C)C	20.5	174	527
CF12.05.10.02	(10 x (2 x 0.5)C)C	23.0	217	614
CF12.05.14.02	(14 x (2 x 0.5)C)C	23.0	317	725
CF12.10.06.02	(6 x (2 x 1.0)C)C	20.0	212	551

^{1,8)} Delivery time: 8 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 ...

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- 50/75 Ω Coaxial cable for extremely heavy duty use
- TPE outer jacket
- Oil-resistant
- Bio-oil-resistant
- UV-resistant
- Hydrolysis-/microbe-resistant

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 +100 °C (CFKoax1/3)
			-35 °C to +70 °C (CFKoax2)
		flexible	-50 °C to +100 °C (CFKoax1/3)
			-50 °C to +70 °C (CFKoax2)
		fixed	-55 °C to +100 °C (CFKoax1/3)
			-55 °C to +70 °C (CFKoax2)
	v max.	unsupported	10 m/s
		gliding	5 m/s
	a max.		100 m/s ²
	Travel distance	Unsupported travel distances and up to 400 m and more for gliding applications, Class 6	

Cable structure

	Conductor	Multi-wire; adapted in single-wire diameter and pitch length to suit the requirements in e-chains®
	Core insulation	Special FEP-isolating mixture.
	Core stranding	Cores stranded in one layer with especially short pitch length.
	Identification	Coaxial elements ► Schedule delivery program
	Element shield	Extremely bending-resistant braiding made of tinned copper wires. Coverage approx. 70% linear, approx. 90% optical.
	Element jacket	TPE mixture adapted to suit the requirements in e-chains®.
	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 ► Schedule delivery program

Electrical information

	Nominal voltage	500 V (following DIN VDE 0245)
	Testing voltage	1500 V

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

(up to 10 cuts of the same types)

Class 6.6.4 6 extremely heavy 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) Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992)
	EAC	Certified according to No. TC RU C-DE.ME77.B.01254
	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
	Info	The coaxial elements used in cables of the CFKoax1 series are comparable with a HF75-0.3/1.6 according to MIL-C-17/94-RG179 and thus fit into an RG179 plug! The coaxial elements used in cables of the CFKoax2 series are comparable with a HF50-0.9/2.95 according to MIL-C-17/28-RG58 and thus fit into an RG58 plug! The coaxial elements used in cables of the CFKoax3 series are comparable with a HF50-0.3/0.84 according to MIL-C-17/93-RG178 and thus fit into an RG178 plug!

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

Double strokes*				5 mio.	7.5 mio.	10 mio.	
	Temperature, from/to [°C]	v max. [m/s] unsupported	a max. [m/s ²] gliding	Travel distance [m]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
-35 / -25					12.5	13.5	14.5
CFKoax1/3 -25 / +90					10	11	12
CFKoax2 -25 / +60	10	5	100	≤ 400			
CFKoax1/3 +90 / +100					12.5	13.5	14.5
CFKoax2 +60 / +70							

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

Typical application areas

- For extremely heavy 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 for gliding applications
- Storage and retrieval units for high-bay warehouses, machining units/machine tools, quick handling, clean room, semiconductor insertion, indoor cranes, low-temperature applications

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Image exemplary.


Delivery program Part No.	Coaxial elements	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CFKoax1.01	1	4.5	7	23
CFKoax1.05	5	10.0	35	112
CFKoax2.01	1	5.5	20	37
CFKoax3.01	1	3.5	5	12

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

Part No.	Characteristic wave impedance approx. [Ω]	Conductor/ Core diameter [mm]	Colour code	Colour Outer jacket (similar to RAL)
CFKoax1.01	75	0.3/1.6	red	Steel blue 5011
CFKoax1.05	75	0.3/1.6	red, green, blue, white, black	Steel blue 5011
CFKoax2.01	50	0.9/2.95	-	Deep black 9004
CFKoax3.01	50	0.3/0.84	-	Window grey 7040

 **Order example: CFKOAX.1.01 – in your desired length (0.5 m steps)**
CFKoax1 chainflex® series .01 Number of coaxial elements

 Online order ► www.igus.eu/CFKOAX

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



Coax cable and other chainflex® cables in platform technology. e-chain®: System E4/4

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