

TPE Measuring system cable | CF11.D

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

Bending radius is reduced by 25%!



- Conductor** Stranded conductor in especially bending-resistant version consisting of tinned copper wires (following EN 60228).
- Core insulation** Mechanically high-quality PP mixture.
- Core stranding** According to measuring system specification.
- Core identification** According to measuring system specification
▶ Schedule delivery program
- Element shield** Extremely bending-resistant braiding made of tinned copper wires. Coverage approx. 70% linear, approx. 90% optical.
- 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: Yellow-green (similar to RAL 6018)
- Bending radius** **moved** minimum 7,5 x d
fixed minimum 5 x d
- Temperature** **moved** -35 °C to +100 °C
fixed -40 °C to +100 °C
- v max. unsupported/gliding** 10 m/s, 6 m/s
- a max.** 100 m/s²
- Travel distance** Freely suspended travel distances and up to 400 m for gliding applications, Class 5
- UV-resistant** Medium
- Nominal voltage** 50 V
- Testing voltage** 500 V
- 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).

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1030 types from stock no cutting costs ...
(for up to 10 cuts of the same type)

Class 6.5.4 (6 maximum load requirements 5 travel distance up to 400 m 4 oil-resistant)

- Hal** Halogen-free Following EN 50267-2-1.
- CE** CE Following 2006/95/EG
- DESINA** DESINA According to VDW, DESINA standardisation
- RoHS** Lead free Following 2011/65/EC (RoHS-II)
- Clean Room** Clean room According to ISO Class 1. Outer jacket material complies with CF9.15.07, tested by IPA according to standard 14644-1
- EAC** EAC Certified according to N° TC RU C-DE.ME77.B.00960

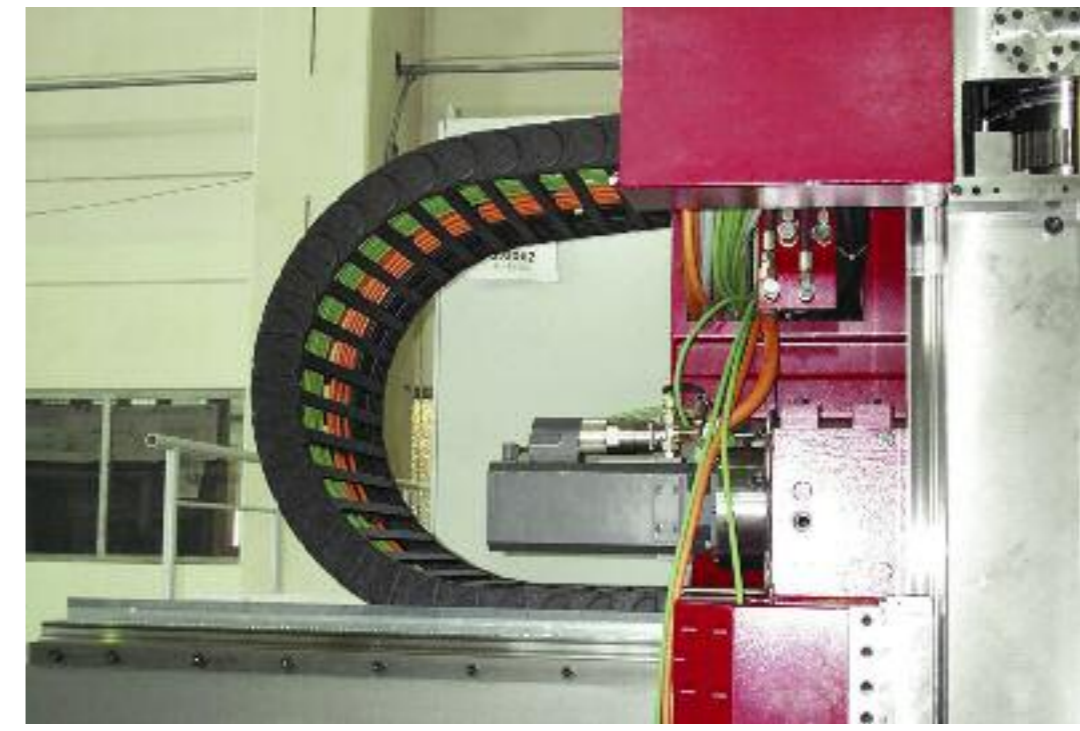
New! Guaranteed lifetime for this series according to the "chainflex® guarantee club" conditions ▶ Page 22-25

Double strokes*	5 million	7,5 million	10 million
Temperature, from/to [°C]			
-35 / -25	10	11	12
-25 / +90	7,5	8,5	9,5
+90 / +100	10	11	12

* higher number of double strokes possible

Typical application area

- for maximum load requirements
- almost unlimited resistance to oil, also with bio-oils
- indoor and outdoor applications without direct sun radiation
- freely suspended 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



Pre-harnessed igus® energy supply systems for machine tool manufacture. e-chain®: System E4/4

... no minimum order quantity ...
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Image exemplary.

Delivery program Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]	Delivery program Part No.	Core group	Colour code
CF11.001.D	(3x(2x0,14)C)+(4x0,14)+(2x0,5)C	13,5	80	176	CF11.001.D	3x(2x0,14)C (4x0,14) (2x0,5)	green/yellow, black/brown, red/orange grey/blue/white-yellow/white-black brown-red/brown-blue
CF11.002.D	(3x(2x0,14)C)+2x(0,5)C	10,5	82	188	CF11.002.D	3x(2x0,14)C 2x(0,5)C	green/yellow, black/brown, red/orange black, red
CF11.003.D	(3x(2x0,14))+2x1,0C	8,5	61	124	CF11.003.D	3x(2x0,14) 2x1,0	white/brown, green/yellow, grey/pink blue, red
CF11.004.D	(2x(2x(2x0,14)))+(4x0,14)C+(4x0,5)C	11,5	91	197	CF11.004.D	2x(2x(2x0,14)) (4x0,14)C (4x0,5)	(brown/green)/(yellow/fioletowy), (grey/pink)/(red/black) yellow-black/red-black/green-black/blue-black brown-green/white-green/blue/white
CF11.005.D	(4x(2x0,14))+4x0,5C	9,5	68	144	CF11.005.D	4x(2x0,14) 4x0,5	white/brown, green/yellow, grey/pink, blue/red black, fioletowy, grey-pink, red-blue
CF11.006.D	(3x(2x0,14)C)+(4x0,14)+(4x0,25)+(2x0,5)C	11,0	93	202	CF11.006.D	3x(2x0,14)C (4x0,14) (4x0,25) (2x0,5)	green/yellow, black/brown, red/orange grey/blue/white-yellow/white-black brown-yellow/brown-grey/green-black/green-red brown-red/brown-blue
CF11.007.D ⁽²⁾	(4x0,34)C	6,0	32	65	CF11.007.D ⁽²⁾	4x0,34	white, green, brown, yellow (star-quad stranding)
CF11.008.D	(3x(2x0,25))C	7,5	37	81	CF11.008.D	3x(2x0,25)	white/brown, green/yellow, grey/pink
CF11.009.D	(4x(2x0,25))+2x0,5C	9,5	66	137	CF11.009.D	4x(2x0,25) 2x0,5	brown/green, blue/fioletowy, grey/pink, red/black white, brown
CF11.010.D ⁽¹⁾	(4x(2x0,25))+2x1,0C	9,5	80	161	CF11.010.D ⁽¹⁾	4x(2x0,25) 2x1,0	brown/green, blue/fioletowy, grey/pink, red/black white, brown
CF11.011.D ⁽¹⁾	(4x(2x0,34))+4x0,5C	10,5	96	201	CF11.011.D ⁽¹⁾	4x(2x0,34) 4x0,5	black/brown, red/orange, green/yellow, blue/fioletowy black-white, red-white, yellow-white, blue-white
CF11.012.D ⁽¹⁾	(3x(2x0,14)C)+(3x0,14)C+(4x0,14)+(2x0,14+2x0,5)C	11,5	99	222	CF11.012.D ⁽¹⁾	3x(2x0,14)C (3x0,14)C (4x0,14) (2x0,14+2x0,5)	green/yellow, white/grey, blue/red red/green/brown grey/yellow/pink/fioletowy blue/brown-blue/grey/brown-red
CF11.013.D	(3x(2x0,14)C)+2x0,5C	9,5	70	152	CF11.013.D	3x(2x0,14)C 2x0,5	white/brown, green/yellow, grey/pink blue, red
CF11.014.D	(4x(2x0,25)C)+(2x0,5)C	11,5	95	212	CF11.014.D	4x(2x0,25)C (2x0,5)	white/brown, green/yellow, grey/pink, blue/red black no.1/black no.2
CF11.015.D	(4x(2x0,14))+4x0,5C	9,5	68	140	CF11.015.D	4x(2x0,14) 4x0,5	brown/green, yellow/fioletowy, grey/pink, red/black blue, white, brown-green, white-green
CF11.016.D ⁽¹⁾	(3x(2x0,25)C)C	9,5	65	144	CF11.016.D ⁽¹⁾	3x(2x0,25)C	white/brown, green/yellow, grey/pink

(1) Delivery time upon inquiry. 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

Other types ► Page 228

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... no minimum order quantity ...

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Image exemplary.

Delivery program Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]	Delivery program Part No.	Core group	Colour code
CF11.017.D ⁽⁴⁾	(4x(2x0,14)+(4x0,14)C+4x1,0)C	11,5	116	245	CF11.017.D ⁽⁴⁾	4x(2x0,14) (4x0,14)C 4x1,0	red/black, green/brown, yellow/fioletowy, pink/grey blue-black/yellow-black/red-black/green-black white-green, brown-green, blue, white
CF11.018.D ⁽⁴⁾	(2x(2x0,25)+2x0,5)C	7,0	40	76	CF11.018.D ⁽⁴⁾	2x(2x0,25) 2x0,5	red/black, grey/pink white, brown
CF11.019.D ⁽⁴⁾	(3x(2x0,25)C+(3x0,25)+2x1,0)C	11,5	106	228	CF11.019.D ⁽⁴⁾	3x(2x0,25)C (3x0,25) 2x1,0	brown/green, grey/pink, red/black blue/fioletowy/yellow white, brown
CF11.021.D	((4x0,25)+3x(2x0,25+2x0,5)C	11,0	102	213	CF11.021.D	(4x0,25) 3x(2x0,25+2x0,5)	white/brown/grey/black black no.1/white/black no. 2/yellow, black no. 3/white/black no. 4/grey, black no. 5/black/black no. 6/orange
CF11.022.D	((2x0,25)+5x0,5)C	8,5	55	120	CF11.022.D	(2x0,25) 5x0,5	white/brown green, yellow, grey, pink, blue
CF11.025.D	(3x(2x0,14)C+(2x0,5)C)C	10,5	81	182	CF11.025.D	3x(2x0,14)C (2x0,5)	green/yellow, blue/red, grey/pink white/brown
CF11.027.D	(5x(2x0,14)+2x0,5)C	9,0	58	121	CF11.027.D	5x(2x0,14) 2x0,5	brown/green, yellow/grey, white/fioletowy, red-black, pink/blue white-green, white-red
CF11.029.D	(5x(2x0,25)C+(2x0,25+2x0,5)C	12,5	119	270	CF11.029.D	5x(2x0,25)C (2x0,25+2x0,5)	white/brown, green/yellow, grey/pink, blue/red, black/fioletowy grey-pink/brown-green/white-green/red-blue
CF11.031.D	(2x(2x0,25)C+2x1,0)C	9,0	76	155	CF11.031.D	2x(2x0,25)C 2x1,0	white/brown, green/yellow black no.1, black no.2
CF11.032.D ⁽¹⁵⁾	3x(2x0,14)C+(3x0,14)C	9,5	68	151	CF11.032.D ⁽¹⁵⁾	3x(2x0,14)C (3x0,14)C	green/black, yellow/black, red/black grey/pink/black
CF11.033.D ⁽¹⁵⁾	4x(2x0,14)C+2x(1,0)C	11,5	107	240	CF11.033.D ⁽¹⁵⁾	4x(2x0,14)C 2x(1,0)C	yellow/black, red/black, blue/black, green/black white, brown
CF11.034.D ⁽¹⁵⁾	3x(2x0,14)C+(4x0,14)C+2x(2x0,5)C	12,5	116	188	CF11.034.D ⁽¹⁵⁾	3x(2x0,14)C (4x0,14)C 2x(2x0,5)C	green/black, fioletowy/black, blue/black red/yellow/black-red/black-yellow black/white, black/brown
CF11.035.D	(4x(2x0,25)C+2x(2x0,5)C	12,5	114	254	CF11.035.D	4x(2x0,25)C 2x(2x0,5)	white/brown, green/yellow, grey/pink, blue/red black no.1/black no.2, black no.3/black no.4
CF11.038.D	(3x(2x0,14)+(2x0,34)C	8,0	36	68	CF11.038.D	3x(2x0,14) (2x0,34)	white/brown, green/yellow, grey/pink blue/red
CF11.040.D	(3x(4x0,14)+(2x0,14+2x0,34)+2x1,5)C	10,5	101	155	CF11.040.D	3x(4x0,14) (2x0,14+2x0,34) 2x1,5	black/red/white-black/white-red, green/blue/white-green/white-blue, yellow/brown/white-yellow/white-brown fioletowy/orange/white-fioletowy/white-orange white-grey, grey

(4) manufactured without inner jacket (15) manufactured without overall shield
 Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.
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