New!

PUR Data cable | CF211.PUR

Image exemplary.

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

Now with Offshore approval!

Dynamic Information

Bend 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 DIN 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/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.
Intermediate layer	Foil taping over the external layer
Overall shield	Extremely bending-resistant braiding made of tinned copper wires. Coverage linear approx. 70 %, optical approx. 90 %
Outer jacket	Low-adhesion, highly abrasion-resistant mixture on the basis of PUR, adapted to suit the requirements in e-chains® (following DIN EN 50363-10-2). Colour: Silver-grey (similar to RAL 7001)

Electrical Information

Nominal voltage	300/300 V (following DIN VDE 0298-3)
Testing voltage	1500 V (following DIN EN 50395)

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

Class 5.5.3.1

Requirements	low	1	2	3	4	5	6	7	highest
Travel distance	unsupported	1	2	3	4	5	6		400 m +
Oil resistance	none	1	2	3	4				highest
Torsion	none	1	2	3					±180°

Properties and approvals

UV resistance	Medium
Oil resistance	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
Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)
Halogen-free	Following DIN EN 60754
UL/CSA	Style 10493 and 20233, 300 V, 80 °C
NFPA	Following NFPA 79-2012 chapter 12.9
DNV-GL	Certified according to GL type testing – Certificate no.: 13 656-14 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 CF77.UL.05.12.D, tested by IPA according to standard 14644-1
CE	Following 2014/35/EU

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	v max. [m/s] gliding	a max. [m/s²]	Travel distance [m]	*R* min. [factor x d]	*R* min. [factor x d]	*R* min. [factor x d]
-25 / -15					10	11	12
-15 / +70	5	3	50	≤ 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

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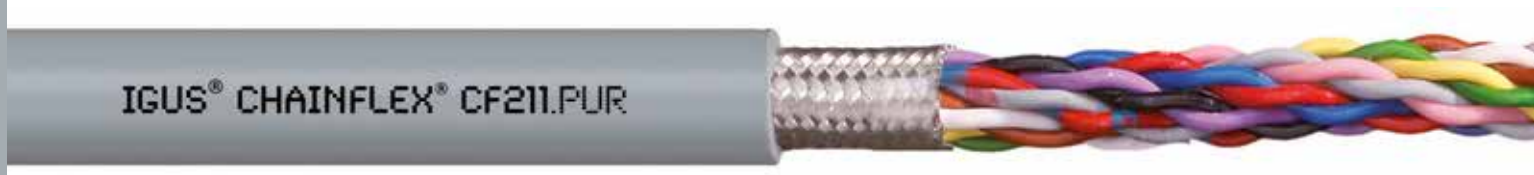

Image exemplary.

Part No.	Number of cores and conductor nominal cross section [mm²]	Outer diameter (d) 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)]	(2 x (2 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	7.5	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)]	(2 x (2 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 outer diameters are maximum values and may tend toward lower tolerance limits.
G = with green-yellow earth core **x =** without earth core

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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 of pairs**

Online order ▶ www.chainflex.eu/CF211PUR

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