



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

Dynamic information

Bend radius e-chain® linear minimum 10 x d flexible minimum 8 x d fixed minimum 5 x d Temperature e-chain® linear -25°C up to +80°C

flexible -40°C up to +80°C (following DIN EN 60811-504) -50°C up to +80°C (following DIN EN 50305) fixed

v max. 10m/s unsupported gliding 5m/s

80m/s²

Travel distance Unsupported travels and up to 100m for gliding applications, Class 5

Cable structure

Conductor Very finely stranded special conductors of particularly bending resistant design made of bare copper wires.

Core insulation Mechanically high-quality TPE mixture.

Cores twisted in pairs with a short pitch length, core pairs then wound with Core structure

short pitch lengths. Colour code in accordance with DIN 47100. Core identification

Element shield

Extremely bending-resistant braiding made of tinned copper wires.

Coverage linear approx. 70%, optical approx. 90% Inner jacket TPE mixture adapted to suit the requirements in e-chains[®].

Overall shield Extremely bending-resistant braiding made of tinned copper wires.

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

Low-adhesion, halogen-free, highly abrasion resistant PUR mixture, adapted to suit the requirements in e-chains® (following DIN EN 50363-10-2)

Colour: Anthracite grey (similar to RAL 7016)

Electrical information

Outer jacket

300/300V (following DIN VDE 0298-3) Nominal voltage

300V (following UL)

Testing voltage 1,500V (following DIN EN 50395)

EPLAN download, configurators ▶ www.igus.eu/CF112

36-month guarantee ... more than 1,350 cable types from stock ... no cutting charges



Class 6.5.3.1

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c us

DNV

REACH

Properties and approvals

UV resistance High

Oil resistance Oil-resistant (following DIN EN 50363-10-2), Class 3

Basic requirements

Travel distance

Oil resistance

Torsion

Offshore MUD-resistant following NEK 606 - status 2016

According to IEC 60332-1-2, Cable Flame, VW-1, FT1, FT2 / Horizontal Flame Flame-retardant

Silicone-free Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)

2 3 4 highest

Halogen-free Following DIN EN 60754

UL verified Certificate No. B129699: "igus 36-month chainflex cable guarantee and

service life calculator based on 2 billion test cycles per year" UL/CSA AWM See data sheet for details ▶ www.igus.eu/CF112

NFPA NFPA Following NFPA 79-2018, chapter 12.9

DNV Type Approval Certificate TAE00003X3

EAC Certificate No. RU C-DE.ME77.B.00300/19

REACH REACH In accordance with regulation (EC) No. 1907/2006 (REACH)

RoHS Lead-free Following 2011/65/EC (RoHS-II/RoHS-III)

Cleanroom According to ISO Class 1. The outer jacket material of this series complies with CF77.UL.05.12.D - tested by IPA according to standard DIN EN ISO 14644-1

Following 2014/35/EU

UK UKCA In accordance with the valid regulations of the United Kingdom (as at 08/2021) CA

Guaranteed service life (details see page 28-29)

	,		
Double strokes*	5 million	7.5 million	10 million
Temperature, from/to [°C]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
-25/-15	12.5	13.5	14.5
-15/+70	10	11	12
+70/+80	12.5	13.5	14.5

^{*} Higher number of double strokes? Service life calculation online ▶ www.igus.eu/chainflexlife

Typical application areas

- For heavy-duty applications, Class 6
- Unsupported travels and up to 100m for gliding applications, Class 5
- Almost unlimited resistance to oil, Class 3
- No torsion, Class 1
- Indoor and outdoor applications with average sun radiation
- Machining units/machine tools, storage and retrieval units for high-bay warehouses, packaging industry, quick handling, refrigerating sector



igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year



chainflex CF112

Data cable | PUR | chainflex® CF112

CF112 PUR

igus" chainflex" CF112





Example image

Part No.	Number of cores and conductor nominal cross section [mm²]	Outer diameter (d) max. [mm]	Copper index [kg/km]	Weight [kg/km]
	• •	[11111]	[rg/riii]	[Ng/NIII]
CF112.02.02.02	(2x(2x0.25)C)C	9.5	57	118
CF112.02.03.02	(3x(2x0.25)C)C	10.0	71	133
CF112.02.04.02	(4x(2x0.25)C)C	11.0	78	153
CF112.02.05.02	(5x(2x0.25)C)C	11.5	99	178
CF112.05.02.02	(2x(2x0.5)C)C	11.5	75	163
CF112.05.04.02	(4x(2x0.5)C)C	13.0	117	217
CF112.05.06.02	(6x(2x0.5)C)C	14.5	160	285

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits. G = with green-yellow earth core x = without earth core



Cables available in the chainflex® CASE

Simple savings on delivery, storage space and re-ordering with the chainflex® CASE - ship'n store by igus®.

More on this on page 24/25 and online: www.igus.eu/cf-case





Order example: CF112.02.02.02 - to your desired length (0.5m steps)

CF112 chainflex® series .02 Code nominal cross section .02 Number of cores .02 Identification pairs

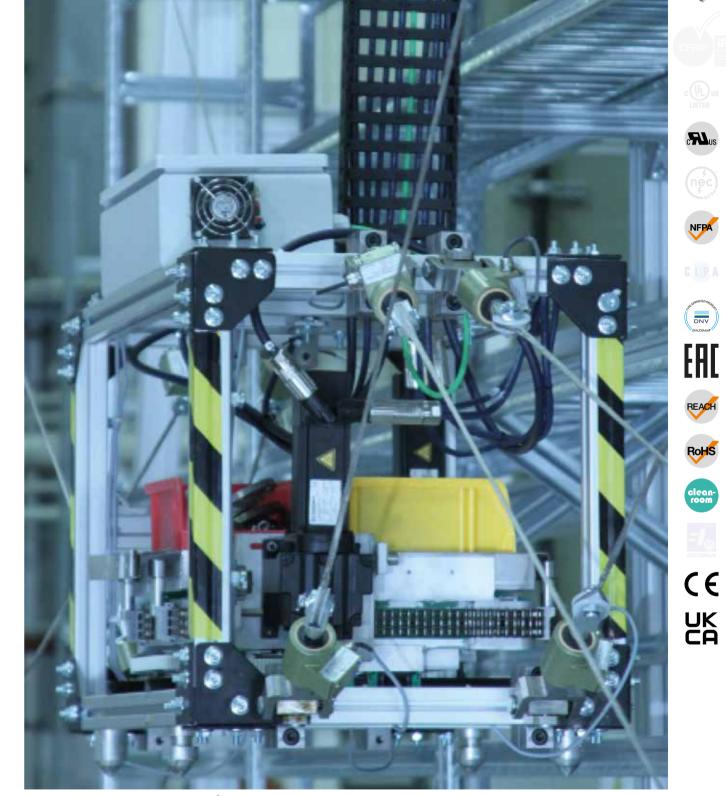


Order online ► www.igus.eu/CF112



Delivery time 24hrs or today.

Delivery time means time until goods are shipped.



Hanging application with chainflex® CF112 data cables

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