













Data cable | PUR | chainflex® CF240.PUR

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

Dynamic information

 Bend radius	e-chain® linear flexible fixed	minimum 10 x d minimum 8 x d minimum 5 x d
 Temperature	e-chain® linear flexible fixed	-25 °C to +80 °C -40 °C to +80 °C (following DIN EN 60811-504) -50 °C to +80 °C (following DIN EN 50305)
 v max.	unsupported	3 m/s
 a max.	gliding	2 m/s
 Travel distance		Unsupported travel distances and up to 50 m for gliding applications, Class 4

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.
 Core structure	The individual cores are wound in layers with short pitch lengths.
 Core identification	Colour code in accordance with DIN 47100.
 Intermediate layer	Foil taping over the outer layer.
 Overall shield	Extremely bending-resistant braiding made of tinned copper wires. Coverage approx. 70 % inear, approx. 90 % optical
 Outer jacket	Low-adhesion, highly abrasion-resistant PUR mixture, adapted to suit the requirements in e-chains® (following DIN EN 50363-10-2). Colour: Window-grey (similar to RAL 7040)
















Electrical information

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

Class 4.4.3.1

Basic 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
 NFFPA	Following NFFPA 79-2012 chapter 12.9.
 DNV-GL	Certified according to GL type testing – Certificate no.: 61 936-14 HH
 EAC	Certificate no. RU C-DE.ME77.B.01254 (TR ZU)
 CTP	Certificate no. C-DE.PB49.B.00416 (Fire safety)
 CEI	Following CEI 20-35.
 Lead-free	Following 2011/65/EU (RoHS-II).
 Cleanroom	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 2014/35/EU.

Guaranteed lifetime according to guarantee conditions (Page 22-23)

Double strokes*	5 million		7.5 million		10 million	
	< 10 m	≥ 10 m	< 10 m	≥ 10 m	< 10 m	≥ 10 m
Temperature, from/to [°C]	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]
-25/-15	12.5	15	13.5	16	14.5	17
-15/+70	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? Online lifetime calculation: www.igus.eu/chainflexlife

Typical mechanical 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 equipment, refrigerating sector



Example image



Example image

Part No.	Number of cores and conductor nominal cross section mm ²	Outer diameter (d) max. mm	Copper index kg/km	Weight kg/km
CF240.PUR.01.04	(4x0.14)C	6.0	16	40
CF240.PUR.01.07	(7x0.14)C	6.5	24	55
CF240.PUR.01.14	(14x0.14)C	8.0	42	81
CF240.PUR.01.18	(18x0.14)C	8.5	54	97
CF240.PUR.02.03	(3x0.25)C	6.0	18	42
CF240.PUR.02.04	(4x0.25)C	6.0	22	46
CF240.PUR.02.05	(5x0.25)C	6.0	26	52
CF240.PUR.02.07	(7x0.25)C	7.0	33	66
CF240.PUR.02.08	(8x0.25)C	7.5	37	73
CF240.PUR.02.14	(14x0.25)C	8.5	63	106
CF240.PUR.02.18	(18x0.25)C	9.0	75	126
CF240.PUR.03.03	(3x0.34)C	6.0	27	49
CF240.PUR.03.04	(4x0.34)C	6.5	31	55
CF240.PUR.03.05	(5x0.34)C	7.0	36	62
CF240.PUR.03.07	(7x0.34)C	8.0	48	87
CF240.PUR.03.14	(14x0.34)C	9.5	79	131
CF240.PUR.03.18	(18x0.34)C	10.5	97	161

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



Order example: CF240.PUR.01.04 – to your desired length (0.5 m steps)
CF240.PUR chainflex® series .01 Code nominal cross section .04 Code Number of cores



Online order ► www.chainflex.eu/CF240.PUR



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

