

CF240  
PVC  
10-12 x d

# PVC Data cable | CF240

- for medium load requirements
- PVC outer jacket
- shielded
- oil-resistant
- flame-retardant



- Conductor** Very finely stranded special cores of particularly high-flex design made of bare copper wires.
- Core insulation** Mechanically high-quality PP 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 energy chains® (following DIN VDE 0281 Part 13).  
Colour: Silver grey (similar to RAL 7001)
- Bending radius**  
**moved** < 10 m travel moved minimum 10 x d  
≥ 10 m travel moved minimum 12 x d  
**fixed** minimum 5 x d
- Temperature**  
**moved** +5 °C to +70 °C for use in energy chains® with > 50.000 cycles  
-5 °C to +70 °C following DIN EN 60811, part 1-4 chapter 8.2  
**fixed** -20 °C to +70 °C
- v max. unsupported/gliding** 3 m/s, 2 m/s
- a max.** 20 m/s<sup>2</sup>
- Travel distance** Freely suspended travel distances and up to 50 m for gliding applications, Class 3
- Nominal voltage** 300/300 V (following DIN VDE 0245).
- Testing voltage** 1500 V
- 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

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## Class 4.3.2 (4 medium load requirements 3 travel distance up to 50 m 2 oil-resistant)

- 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
- NFPA** Following NFPA 79-2012 chapter 12.9
- CEI** Following CEI 20-35
- CE** Following 2006/95/EG
- 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
- CTP** Certified according to N° C-DE.PB49.V.00396
- 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*	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		< 10 m	≥ 10 m	< 10 m	≥ 10 m	< 10 m	≥ 10 m
	+15 / +60	≤ 50	12,5	15	13,5	16	14,5	17
	+60 / +70		10	12,5	11	13,5	12	14,5
			12,5	15	13,5	16	14,5	17

\* higher number of double strokes possible

### Typical application area

- for medium load requirements
- light oil influence
- preferably indoor applications, but also outdoor ones at temperatures > 5 °C
- freely suspended 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





Image exemplary.

Delivery program Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	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



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