

PUR Data cable | CF240.PUR

- for medium load requirements
- PUR outer jacket
- shielded
- oil-resistant and coolant-resistant
- notch-resistant
- PVC-free/halogen-free
- flame-retardant
- hydrolysis-resistant and microbe-resistant

	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, highly abrasion-resistant mixture on the basis of PUR, adapted to suit the requirements in energy chains® (following DIN VDE 0282 Part 10). 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 -20 °C to +80 °C fixed -40 °C to +80 °C
	v max.	3 m/s, 2 m/s
	a max.	20 m/s²
	Travel distance	Freely suspended travel distances and up to 50 m for gliding applications, Class 3
	UV-resistant	Medium
	Nominal voltage	300/300 V (following DIN VDE 0245)
	Testing voltage	1500 V
	Oil	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

Class 4.3.3 (4 medium load requirements 3 travel distance up to 50 m 3 oil-resistant)

	Silicon-free	Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992).
	Halogen-free	Following EN 50267-2-1.
	UL/CSA	Style 10493 and 20233, 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 CF27.07.05.02.01.D, 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

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Double strokes*		5 million		7,5 million		10 million	
Temperature, from/to [°C]	Travel distance [m]	R min. [factor x d]		R min. [factor x d]		R min. [factor x d]	
		< 10 m	≥ 10 m	< 10 m	≥ 10 m	< 10 m	≥ 10 m
-20 / -10		12,5	15	13,5	16	14,5	17
-10 / +70	≤ 50	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 possible

Typical application area

- for medium load requirements
- almost unlimited resistance to oil
- indoor and outdoor applications with average sun radiation
- freely suspended 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, refrigerating sector





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]
CF240.PUR.01.03 ⁽¹⁾	(3 x 0,14)C	5,5	14	37
CF240.PUR.01.04	(4 x 0,14)C	6,0	16	40
CF240.PUR.01.05 ⁽¹⁾	(5 x 0,14)C	6,0	18	45
CF240.PUR.01.07 ⁽¹⁾	(7 x 0,14)C	6,5	24	55
CF240.PUR.01.14	(14 x 0,14)C	8,0	42	81
CF240.PUR.01.18	(18 x 0,14)C	8,5	54	97
CF240.PUR.02.03	(3 x 0,25)C	6,0	18	42
CF240.PUR.02.04	(4 x 0,25)C	6,0	22	46
CF240.PUR.02.05	(5 x 0,25)C	6,0	26	52
CF240.PUR.02.07	(7 x 0,25)C	7,0	33	66
CF240.PUR.02.08	(8 x 0,25)C	7,5	37	73
CF240.PUR.02.14	(14 x 0,25)C	8,5	63	106
CF240.PUR.02.18	(18 x 0,25)C	9,0	75	126
CF240.PUR.03.03 ⁽¹⁾	(3 x 0,34)C	6,0	27	49
CF240.PUR.03.04	(4 x 0,34)C	6,5	31	55
CF240.PUR.03.05 ⁽¹⁾	(5 x 0,34)C	7,0	36	62
CF240.PUR.03.07	(7 x 0,34)C	8,0	48	87
CF240.PUR.03.14	(14 x 0,34)C	9,5	79	131
CF240.PUR.03.18	(18 x 0,34)C	10,5	97	161

(1) Delivery time upon inquiry.
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