















PUR Servo cable | CF270.UL.D

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

	Conductor	Stranded conductor in bending-resistant version consisting of bare copper wires (following EN 60228). Single Core: Conductor cable consisting of pre-leads (following EN 60228).
	Core insulation	Mechanically high-quality, especially low-capacitance TPE mixture.
	Core stranding	Energy conductor with signal pair elements stranded together with elements for high tensile stresses.
	Core identification	Energy conductor: Cores black with white numerals, one core green-yellow. 1. core: U / L1 / C / L+ 2. core: V / L2 3. core: W / L3 / D / L- 1 signal pair: Cores black with white numerals. 1. control core: 4 2. control core: 5 2 signal pairs: Cores black with white numerals. 1. control core: 5 2. control core: 6 3. control core: 7 4. control core: 8 1 Control triple: Cores black with white numerals. 1. control core: 1 2. control core: 2 3. control core: 3 Star-quad: yellow, black, red, white
	Element shield	Bending-resistant braiding made of tinned copper wires. Coverage approx. 55% linear, approx. 80% optical.
	Intermediate layer	Foil taping over the external layer.
	Overall shield	Bending-resistant braiding made of tinned copper wires. Coverage approx. 55% linear, approx. 80% optical.
	Outer jacket	Low-adhesion mixture on the basis of PUR, adapted to suit the requirements in energy chains® (following DIN VDE 0282 Part 10). Colour: Pastel orange (similar to RAL 2003)
	Bending radius	moved minimum 10 x d fixed minimum 5 x d
	Temperature	moved -20 °C to +80 °C fixed -40 °C to +80 °C
	v max.	10 m/s, 2 m/s
	unsupported/gliding	
	a max.	50 m/s²
	Travel distance	Freely suspended travel distances and up to 10 m for gliding applications, Class 2

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1030 types from stock no cutting costs ...
(for up to 10 cuts of the same type)

Class 4.2.3 (4 medium load requirements 2 travel distance up to 10 m 3 oil-resistant)

	UV-resistant	Medium
	Nominal voltage	600/1000 V (following DIN VDE 0250).
	Testing voltage	4000 V (following DIN VDE 0281-2).
	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
	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 10989 and 21223, 1000 V, 80 °C Spindle cable/Single core: Style 10492 and 10973, 1000 V, 80 °C
	NFPA	Following NFPA 79-2012 chapter 12.9
	CEI	Following CEI 20-35
	CE	Following 2006/95/EG
	DESINA	According to VDW, DESINA standardisation
	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.00397
	EAC	Certified according to N° TC RU C-DE.ME77.B.00964

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Double strokes*	5 million		7,5 million		10 million	
Temperature, from/to [°C]	v max. [m/s] unsupported	a max. [m/s²] gliding	Travel distance [m]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]
-20 / -10				12,5	13,5	14,5
-10 / +70	10	2	≤ 10	10	11	12
+70 / +80				12,5	13,5	14,5

* higher number of double strokes possible

Typical application area

- for medium load requirements
- almost unlimited resistance to oil
- indoor and outdoor applications without direct sun radiation
- freely suspended travel distances and up to 10 m for gliding applications
- Machining units/machine tools, low temperature applications

... no minimum order quantity ...

igus® GmbH Cologne | Tel. +49(0)2203/9649-800 Fax -222 | info@igus.de | www.chainflex.eu



IGUS® CHAINFLEX® CF270.UL.D

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]
1 signal pair shielded				
CF270.UL.15.15.02.01.D	(4 G 1,5+(2x1,5)C)C	12,0	164	263
CF270.UL.25.15.02.01.D	(4 G 2,5+(2x1,5)C)C	13,5	223	340
CF270.UL.40.15.02.01.D	(4 G 4,0+(2x1,5)C)C	15,0	300	448
CF270.UL.60.15.02.01.D	(4 G 6,0+(2x1,5)C)C	16,5	401	557
CF270.UL.100.15.02.01.D	(4 G 10,0+(2x1,5)C)C	20,5	640	899
CF270.UL.160.15.02.01.D	(4 G 16,0+(2x1,5)C)C	24,0	941	1311
2 signal pairs shielded				
CF270.UL.07.03.02.02.D	(4 G 0,75+2x(2x0,34)C)C	11,5	117	208
CF270.UL.10.07.02.02.D	(4 G 1,0+2x(2x0,75)C)C	13,0	157	266
CF270.UL.15.07.02.02.D	(4 G 1,5+2x(2x0,75)C)C	13,5	185	309
CF270.UL.25.15.02.02.D	(4 G 2,5+2x(2x1,5)C)C	16,0	286	439
CF270.UL.40.15.02.02.D	(4 G 4,0+2x(2x1,5)C)C	17,0	363	543
CF270.UL.60.15.02.02.D ⁽¹⁾	(4 G 6,0+2x(2x1,5)C)C	18,5	468	674
CF270.UL.100.15.02.02.D	(4 G 10,0+2x(2x1,5)C)C	22,5	696	1011
CF270.UL.160.15.02.02.D ⁽¹⁾	(4 G 16,0+2x(2x1,5)C)C	26,0	992	1405
CF270.UL.250.15.02.02.D	(4 G 25,0+2x(2x1,5)C)C	28,5	1502	1983
CF270.UL.350.15.02.02.D ⁽¹⁾	(4 G 35,0+2x(2x1,5)C)C	35,0	1984	2696
1 Control triple				
CF270.UL.15.10.03.01.D ⁽⁹⁾	(4 G 1,5+(3x1,0)C)C	14,0	176	303
CF270.UL.25.10.03.01.D ⁽¹⁰⁾	(4 G 2,5+(3x1,0)C)C	14,0	224	348
1 Star-quad shielded				
CF270.UL.60.05.04.D	(4 G 6,0+(4x0,5)C)C	16,5	384	546
Without signal pair				
CF270.UL.15.04.D	(4 G 1,5)C	9,5	90	156
CF270.UL.25.04.D	(4 G 2,5)C	11,5	154	240
CF270.UL.40.04.D	(4 G 4,0)C	12,5	231	337
CF270.UL.60.04.D	(4 G 6,0)C	14,5	337	465
CF270.UL.100.04.D	(4 G 10,0)C	18,0	545	747
CF270.UL.160.04.D	(4 G 16,0)C	22,0	861	1130
CF270.UL.250.04.D	(4 G 25,0)C	25,5	1316	1691
CF270.UL.350.04.D	(4 G 35,0)C	33,0	1864	2483

(1) Delivery time upon inquiry.

(9) core/core: 50 pF/m, core/Shield: 95 pF/m

(10) core/core: 70 pF/m, core/Shield: 115 pF/m

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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Delivery program Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
Hybrid cable				
CF270.UL.H01.15.10.02.01	(4G1,5+(2x1,0)C)+(2xAWG22)C)C	13,5	170	286
CF270.UL.H01.25.10.02.01 ⁽¹⁾	(4G2,5+(2x1,0)C)+(2xAWG22)C)C	15,0	219	349

(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

Delivery program Part No.	Bus element [AWG]	Characteristic wave impedance approx. [Ω]	Capacity 800-1000 Hz [pF/m]	Colour code
Hybrid cable				
CF270.UL.H01.15.10.02.01	(2xAWG22)C	110	45	white, blue
CF270.UL.H01.25.10.02.01	(2xAWG22)C	110	45	white, blue


Delivery program Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
Spindle cable/Single core				
CF270.UL.100.01.D	(1 x 10,0)C	8,5	123	150
CF270.UL.160.01.D ⁽¹⁾	(1 x 16,0)C	9,5	189	218
CF270.UL.250.01.D ⁽¹⁾	(1 x 25,0)C	11,0	288	322
CF270.UL.350.01.D ⁽¹⁾	(1 x 35,0)C	12,5	400	441
CF270.UL.500.01.D	(1 x 50,0)C	15,0	566	618
CF270.UL.700.01.D	(1 x 70,0)C	17,0	802	855

(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

Detailed information about "Spindle cable/Single core" ► Page 276

 Order example: CF270.UL.25.15.02.01.D – in your desired length (0,5 m steps)
CF270.UL.D chainflex® series .25 Code nominal cross section .15 Code nominal cross section signalpairs
.02 Identification pairs .01 Number of pairs

 prices price list online
www.chainflex.eu/CF270ULD

 delivery time despatched in
24 hours or today

1030 types from stock no cutting costs ...
(for up to 10 cuts of the same type)

... no minimum order quantity ...
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