

CF8
PUR
6,8-7,5xd

PUR Control cable

Chainflex® CF8

- for high load requirements
- PUR outer jacket
- shielded
- oil-resistant and coolant-resistant
- flame-retardant
- hydrolysis-resistant and microbe-resistant

	Temperature range moved	-20 °C to +80 °C, bending radius 6,8 x d with < 10 m travel; bending radius 7,5 x d with ≥ 10 m travel
	Temperature range fixed	-40 °C to +80 °C, bending radius 4 x d
	V max. unsupported/gliding	10 m/s, 5 m/s
	a max.	80 m/s²
	UV-resistant	Medium
	Nominal voltage	300/500 V (according to DIN VDE 0245).
	Testing voltage	2000 V (according to DIN VDE 0281-2).
	Oil	Oil-resistant (according to EN 60811-2-1).
	Flame-retardant	According to IEC 332-1, CEI 20-35, FT1.
	Silicon-free	Free from silicon which can affect paint adhesion (in compliance with PV 3.10.7 – status 1992).
	Conductor	Fine-wire stranded conductor consisting of bare copper wires (according to EN 60228).
	Core insulation	Mechanically high-quality PVC mixture (according to DIN VDE 0207 Part 4).
	Core stranding	Number of conductors < 12: cores stranded in a layer with short pitch length. Number of conductors ≥ 12: cores combined in bundles and stranded together around a centre for high tensile stresses with adapted, short pitch lengths and pitch directions, especially low-torsion structure.
	Core identification	Cores black with white numerals, one core green/yellow.
	Inner jacket	PVC mixture adapted to suit the requirements in Energy Chains®.
	Overall shield	Extremely bending-resistant, tinned braided copper shield. 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® (according to DIN VDE 0282 Part 10). Colour: green (similar to RAL 6005)

... no minimum order quantity

Especially bending-resistant fine-wire stranded conductor

Center element for high tensile stresses

Braiding in bundles around high-tensile center cord

Gusset-filled extruded

Highly flexible braided copper shield

Pressure extruded PUR blend

High Class Line



**VDE**

The cables are manufactured on the basis of VDE.

**UL**

≤ **1,5 mm²**: Style 1007 and 20317, 300 V, 80 °C
 ≥ **2,5 mm²**: Style 1011 and 20234, 600 V, 80 °C

**CSA**

LL63878, 80 °C, 300 V

**CEI**

According to CEI 20-35

**CE**

According to 73/23/EWG, 93/68/EWG

**Lead free**

According to EU guideline (RoHS) 2002/95/EC.

Typical application area

- for high load requirements
- almost unlimited resistance to oil
- indoor and outdoor applications with average sun radiation
- especially for freely suspended and gliding travel distances up to 100 m
- storage and retrieval units for high-bay warehouses, machining units/package machines, quick handling, indoor cranes, refrigerating sector

Delivery program Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter approx. [mm]	Copper index [kg/km]	Weight [kg/km]
CF8.05.05	(5G0,5)C	8,5	49	88
CF8.05.07	(7G0,5)C	9,5	60	109
CF8.05.09	(9G0,5)C	11,0	77	147
CF8.05.12	(12G0,5)C	13,0	93	221
CF8.05.18	(18G0,5)C	15,5	156	285
CF8.05.24*	(24G0,5)C	17,0	190	370
CF8.07.03	(3G0,75)C	8,0	52	82
CF8.07.05	(5G0,75)C	9,0	62	109
CF8.07.12	(12G0,75)C	14,0	138	282
CF8.07.24*	(24G0,75)C	18,5	250	427
CF8.10.03	(3G1,0)C	8,5	61	94
CF8.10.05	(5G1,0)C	9,5	87	127
CF8.10.07	(7G1,0)C	11,0	113	187
CF8.10.12	(12G1,0)C	15,0	171	300
CF8.10.24*	(24G1,0)C	20,0	307	535
CF8.15.03	(3G1,5)C	9,0	81	107
CF8.15.04	(4G1,5)C	10,0	115	133
CF8.15.07	(7G1,5)C	13,0	153	224
CF8.15.12	(12G1,5)C	17,5	187	378
CF8.15.18	(18G1,5)C	21,5	340	620
CF8.25.07	(7G2,5)C	19,0	251	540

The Chainflex® types marked with a * refer to cables that are based on a bundling of 4 cores each. Due to their excellent electrical properties (star-quad with especially minimum crosstalk), these cables can virtually be used in all cases in which otherwise twisted-pair cables are required.

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

G = with earthed conductor green-yellow x = without earthed conductor

