

Control/Power Cables



igus[®]

Price Index



STANDARD



Chainflex[®] CF7-D

PUR Energy Chain[®] cable, oil-resistant, coolant-resistant, notch-proof, flame-retardant, hydrolysis-resistant and microbe-resistant, conforms to DESINA standards

Construction

Conductors: Finely stranded bundled bare copper wires. Designed in accordance with VDE 0295, Class 5.

Conductor insulation: Mechanically high-quality, PVC-insulating compound.

Conductor twisting: Number of conductors < 12 Conductors concentrically layered with short pitch. Number of conductors ≥ 12 Conductors layered in braids around a polymer, high-tensile-strength core; short pitches matched in the direction of the pitch for extremely low torsion.

Conductor colors: Conductors black with white numbers, one green-yellow.

Outer jacket: Low-adhesion PUR blend, adapted to the requirements of the Energy Chain[®]. **Color:** grey (RAL 7040).

Technical Data

Minimum bending radius for flexible use: 7.5 x outer cable diameter

Permissible temperature range for continuous flexing: -4°F to +176°F (-20°C to +80°C)

UL/CSA voltage: 300V 20-16 AWG; 600 V 14 AWG, **VDE voltage:** 300/500V

Regulations: UL AWM: 20317 80°C 20-16, CSA AWM: 80°C I/II A/B FT1, CE, VDE 0245, DESINA, RoHS: 2002/95/EC; See page 10.23 of the Design section for more information.

Conductor

Especially bend-resistant fine wire stranded conductor

Strain relief

Center core for high tensile strength

Core

Braiding in bundles around high tensile strength core

Outer jacket

Pressure extruded, PUR blend

Part No.	AWG	No. of Conductors and Rated Cross-Section in mm ²	Outer Diameter (approx)		Copper Index		Weight	
			in.	(mm)	lbs/mft	(kg/km)	lbs/mft	(kg/km)
CF7-07-12-D	18	12 x 0.75	.49	(12.5)	58.5	(86)	106.1	(156)
CF7-15-03-D	16	3 x 1.5	.28	(7.0)	29.2	(43)	61.9	(91)
CF7-15-07-D	16	7 x 1.5	.39	(10)	68.7	(101)	97.9	(144)
CF7-15-12-D	16	12 x 1.5	.61	(15.5)	117.6	(173)	172.0	(253)
CF7-15-18-D	16	18 x 1.5	.67	(17)	176.1	(259)	319.6	(470)
CF7-15-25-D	16	25 x 1.5	.85	(21.5)	244.8	(360)	367.2	(540)

NOTE: The mentioned external diameters are maximum values.

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QuickSpec: <http://www.igus.com/qs/chainflex.asp>