

Data Cables

Chainflex® CF211

PVC Energy Chain® cable, encoder cable, shielded, twisted pair, oil-proof, flame-retardant



CF211



ECONOMY

Price Index



Construction

Conductors: Finely stranded bare copper conductor.

Conductor insulation: Mechanically tough PVC

Conductor twisting: Two conductors, each braided in a short pitch, conductor pairs are then braided in short pitch around a polymer core.

Conductor colors: Color code 47100

Shield: High flexural strength copper shield, coverage approx. 90% optical.

Outer jacket: PVC-based, low-adhesion blend, adapted to the requirements of the Energy Chain®, oil-resistant in accordance with VDE. Color: grey (RAL 7001)

Technical Data

Minimum bending radius for flexible use: 10 x outer cable diameter

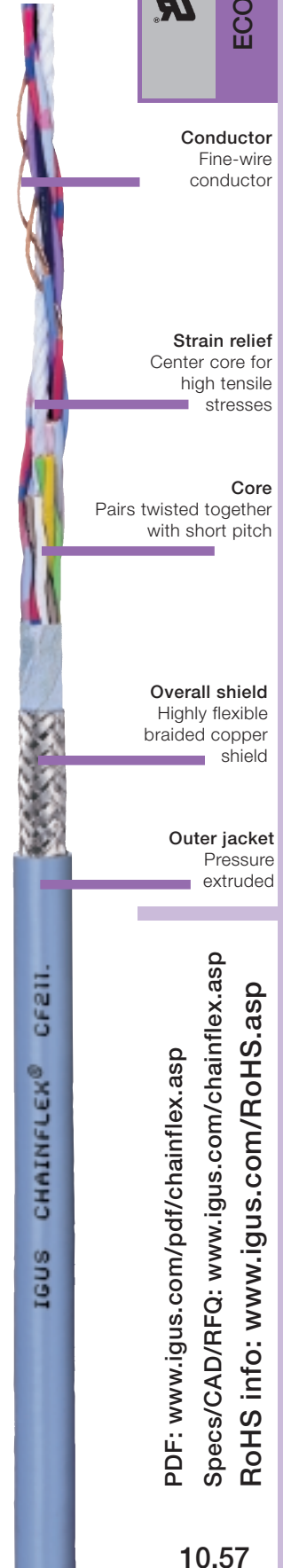
Permissible temperature range for continuous flexing: +23°F to +158°F (-5°C to +70°C)

UL/CSA voltage: 300V

Regulations: UL AWM 2464 80°C 300V, CSA AWM I/II A/B 80°C 300V FT1 oil resistant, CE, VDE, RoHS:

2002/95/EC; See page 10.23 of the Design section for more information.

Part No.	AWG	No. of Conductors and Rated Cross-	Outer Diameter (approx)		Copper Index		Weight	
CF211-02-01-02	24	1 x 2 x 0.25	.20	(5)	10.9	(16)	23.8	(35)
CF211-02-02-02	24	2 x 2 x 0.25	.28	(7)	19.0	(28)	40.8	(60)
CF211-02-03-02	24	3 x 2 x 0.25	.30	(7.5)	25.2	(37)	49.6	(73)
CF211-02-04-02	24	4 x 2 x 0.25	.31	(8)	29.9	(44)	57.8	(85)
CF211-02-05-02	24	5 x 2 x 0.25	.33	(8.5)	34.7	(51)	66.0	(97)
CF211-02-06-02	24	6 x 2 x 0.25	.37	(9.5)	39.4	(58)	74.8	(110)
CF211-02-08-02	24	8 x 2 x 0.25	.45	(11.5)	51.0	(75)	108.8	(160)
CF211-02-10-02	24	10 x 2 x 0.25	.51	(13)	63.2	(93)	132.6	(195)
CF211-02-14-02	24	14 x 2 x 0.25	.53	(13.5)	74.1	(109)	139.4	(205)
CF211-03-03-02	22	3 x 2 x 0.34	.31	(8)	25.2	(37)	53.7	(79)
CF211-05-01-02	20	1 x 2 x 0.5	.22	(5.5)	15.6	(23)	34.0	(50)
CF211-05-02-02	20	2 x 2 x 0.5	.31	(8)	29.9	(44)	54.4	(80)
CF211-05-03-02	20	3 x 2 x 0.5	.35	(9)	38.8	(57)	68.0	(100)
CF211-05-04-02	20	4 x 2 x 0.5	.37	(9.5)	46.2	(68)	81.6	(120)
CF211-05-05-02	20	5 x 2 x 0.5	.43	(11)	54.4	(80)	98.6	(145)
CF211-05-06-02	20	6 x 2 x 0.5	.49	(12.5)	67.3	(99)	125.8	(185)
CF211-05-08-02	20	8 x 2 x 0.5	.55	(14)	84.3	(124)	156.4	(230)
CF211-05-10-02	20	10 x 2 x 0.5	.63	(16)	119.0	(175)	217.6	(320)
CF211-05-14-02	20	14 x 2 x 0.5	.67	(17)	127.1	(187)	227.8	(335)



NOTE: The mentioned external diameters are maximum values.

PDF: www.igus.com/pdf/chainflex.asp
 Specs/CAD/RFQ: www.igus.com/chainflex.asp
 RoHS info: www.igus.com/RoHS.asp

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Chainflex® CF211

PVC Energy Chain® cable, resolver-/encoder cable,
shielded, twisted pair, oil-proof, flame-retardant

Construction

Conductors: Finely stranded bare copper conductor with extreme flexibility.

Conductor insulation: Mechanically tough PVC

Conductor twisting: Two conductors, each braided in a short pitch, conductor pairs are then braided in short pitch around a polymer core.

Conductor colors: Please refer to the Color Code Chart on page x.xx

Intermediate jacket: Polymer foil over outer conductor layer.

Shield: High flexural strength copper shield, coverage approx., 90% optical.

Outer jacket: PVC-based, low-adhesion blend, adapted to the requirements of the Energy Chain®, oil-resistant in accordance with VDE. Color: grey (RAL 7001)

Technical Data

Minimum bending radius for flexible use: 10 x outer cable diameter

Permissible temperature range for continuous flexing: +23°F to +158°F (-5°C to +70°C)

UL voltage: 30V

Regulations: cRUus AWM: UL AWM style for US & Canada; 2502 80°C 30V **Flame Resistance:** Ft1, CE, VDE, RoHS: 2002/95/EC; See page 10.23 of the Design section for more information.

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)
CF211-001	26	(3 x (2 x 0.14) C+)						
	26	(4 x 0.14)+						
	20	(2 x 0.5) C	.35	(9)	41.0	(61)	67.2	(100)
CF211-002	26	(3 x (2 x 0.14) C+)						
	20	(2 x 0.5C) C	.35	(9)	42.3	(63)	73.9	(110)
CF211-006	26	(3 x (2 x 0.14) C+)						
	26	(4 x 0.14)+						
	20	(2 x 0.5)+						
CF211-009	22	(4 x 0.23) C	.37	(9.5)	49.0	(72)	80.6	(120)
	24	(4 x (2 x 0.25)+)						
	20	(2 x 0.5) C	.35	(9)	34.7	(51)	75.5	(111)
CF211-010	24	(4 x (2 x 0.25)+)						
	17	(2 x 1.0) C	.37	(9.5)	50.3	(74)	95.9	(141)
CF211-011	22	(4 x (2 x 0.34)+)						
	20	(4 x 0.5) C	.35	(9)	51.0	(75)	91.8	(135)
CF211-014	24	(4 x (2 x 0.25) C+)						
	20	(1 x 2 x 0.5) C	.51	(13)	57.1	(84)	143.5	(211)
CF211-016	24	(3 x (2 x .25) C) C						
CF211-017	26	(4 x (2 x 0.14)+)						
	17	(4 x 1.0)+						
	26	(4 x 0.14) C) C	.35	(9)	57.0	(85)	83.3	(124)
CF211-018	24	(2 x (2 x .25)+)						
	20	(2 x .5) C	.28	(7)	27.6	(41)	41.7	(62)
CF211-019	24	(3 x .25)+						
	24	3 x (2 x .25) C+						
	17	(2 x 1.0) C	.35	(9)	55.2	(82)	77.3	(115)
CF211-027	26	(5 x (2 x 0.14)+)						
	20	(2 x 0.5) C	.35	(9)	30.6	(45)	69.4	(102)

NOTE: The mentioned external diameters are maximum values.

Strain relief
Center core for high tensile strength

Conductor
Fine wire conductor

Core
Pairs twisted together with short pitch

Overall shield
Highly flexible braided copper shield

Outer jacket
Pressure extruded

