



Chainflex® CF211

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

Conductor

Fine-wire
conductor

Strain relief

Center core for
high tensile
stresses

Core

Pairs twisted
together with
short pitch

**Intermediate
jacket**

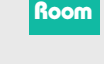
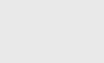
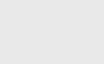
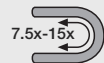
Foil taping over
the external layer

Overall shield

Highly flexible
braided copper
shield

Outer jacket

Pressure
extruded PVC

**Construction**

Conductors: Finely stranded bare copper conductor.

Conductor insulation: Mechanically tough PVC

Conductor twisting: Twisted pairs are cabled together with a short pitch around a high tensile strength core.

Conductor colors: Color code DIN 47100

Shield: Tinned copper braid, 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. Silicon-free in compliance with PV 3.10.7 - status 1992. **Color:** grey (RAL 7001)

Technical Data

Minimum bending radius, moving: 7.5 x outer cable diameter

Minimum bending radius, fixed: 5 x outer cable diameter

Permissible temperature, moving: +23°F to +158°F (-5°C to +70°C)

Permissible temperature, fixed: -4°F to +158°F (-20°C to +70°C)

Oil-resistance: Medium

Flame resistance: According to IEC 60332-1-2, CEI 20-35, FT1, VW-1

Voltage: 300V

Test voltage: 1500V

Regulations: cRUus UL AWM for USA & Canada style 2464 80°C 300V

NFPA 79: Complies to NFPA 79 2012 chapter 12.9

CE: 2006/95/EG CEI: 20-35

RoHS: Complies to 2011/65/EU (RoHS-II)

Cleanroom: According to ISO Class 2, material/cable tested by IPA according to ISO standard 14644-1. Test cable CF5-10-07

Typical Applications

- for high mechanical load requirements
- preferably indoor applications, outdoor is acceptable for temperatures greater than +41°F (+5°C)
- especially for unsupported and gliding travel up to 328 ft (100m)
- storage and retrieval units for high-bay warehouses, machining units/packages machines, handling, indoor cranes

Part No.	AWG	No. of Pairs and Rated Cross- Section in mm²	Outer Diameter (approx)		Copper Index		Weight	
			in.	(mm)	lbs/mft	(kg/km)	lbs/mft	(kg/km)
CF211-02-01-02	24	1 PR x 0.25	.20	(5)	10.9	(16)	23.8	(35)
CF211-02-02-02	24	2 PR x 0.25	.22	(5.5)	19.0	(28)	40.8	(60)
CF211-02-03-02	24	3 PR x 0.25	.28	(7)	25.2	(37)	49.6	(73)
CF211-02-04-02	24	4 PR x 0.25	.31	(8)	29.9	(44)	57.8	(85)
CF211-02-05-02	24	5 PR x 0.25	.33	(8.5)	34.7	(51)	66.0	(97)
CF211-02-06-02	24	6 PR x 0.25	.37	(9.5)	39.4	(58)	74.8	(110)
CF211-02-08-02	24	8 PR x 0.25	.45	(11.5)	51.0	(75)	108.8	(160)
CF211-02-10-02	24	10 PR x 0.25	.51	(13)	63.2	(93)	132.6	(195)
CF211-02-14-02	24	14 PR x 0.25	.53	(13.5)	74.1	(109)	139.4	(205)
CF211-03-03-02	22	3 PR x 0.34	.31	(8)	25.2	(37)	53.7	(79)
CF211-03-08-02	22	8 PR x 0.34	.47	(12)	66.7	(98)	137.4	(202)
CF211-05-01-02	20	1 PR x 0.5	.22	(5.5)	15.6	(23)	34.0	(50)
CF211-05-02-02	20	2 PR x 0.5	.33	(8.5)	29.9	(44)	54.4	(80)
CF211-05-03-02	20	3 PR x 0.5	.35	(9)	38.8	(57)	68.0	(100)
CF211-05-04-02	20	4 PR x 0.5	.37	(9.5)	46.2	(68)	81.6	(120)
CF211-05-05-02	20	5 PR x 0.5	.43	(11)	54.4	(80)	98.6	(145)
CF211-05-06-02	20	6 PR x 0.5	.49	(12.5)	67.3	(99)	125.8	(185)
CF211-05-08-02	20	8 PR x 0.5	.55	(14)	84.3	(124)	156.4	(230)
CF211-05-10-02	20	10 PR x 0.5	.63	(16)	119.0	(175)	217.6	(320)
CF211-05-14-02	20	14 PR x 0.5	.67	(17)	127.1	(187)	227.8	(335)

No Minimum Order • No Cut Charges on up to 10 cuts of the same part number