

CF240

igus®

# PVC Data Cable

CLASS  
4.2.2

Price Index



## Chainflex® CF240

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

勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-34970699  
 勝特力电子(深圳) 86-755-83298787  
[Http://www.100y.com.tw](http://www.100y.com.tw)

Conductor  
Fine wire  
conductor

Core  
Cabled in layers  
with extremely  
short pitch

Overall shield  
Highly flexible  
braided copper  
shield

Outer jacket  
Pressure ex-  
truded



### Construction

**Conductors:** Finely stranded bare copper conductor with extreme flexibility.

**Conductor insulation:** Mechanically tough PVC

**Conductor twisting:** Conductors twisted with short pitch, layered around 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. Silicon-free in compliance with PV 3.10.7 - status 1992. **Color:** grey (RAL 7001)

### Technical Data

**Minimum bending radius, moving:** <10m travel = 10 x outer diameter; ≥10m travel = 12 x outer 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)

**Flame resistance:** FT1

**Oil-resistance:** Medium

**Voltage:** 300V

**Test Voltage:** 1500V

**Regulations:** cRUus AWM: UL AWM for USA and Canada style 2464 80°C, CE, VDE, RoHS: 2002/95/EC; Please reference the Design Section (Chapter 1) for more information.

**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 travel and gliding travel up to 164 ft (50m)
- storage and retrieval units for high-bay warehouses, machining units/package machines, handling, indoor cranes

Part No.	AWG	No. of Conductors and Rated Cross- Section in mm <sup>2</sup>	Outer Diameter (approx)		Copper Index		Weight	
			in.	(mm)	lbs/mft	(kg/km)	lbs/mft	(kg/km)
CF240-01-03	26	3 x 0.14	.18	(4.5)	11	(16)	24	(35)
CF240-01-04	26	4 x 0.14	.20	(5)	12	(18)	26	(38)
CF240-01-05	26	5 x 0.14	.22	(5.5)	14	(20)	29	(42)
CF240-01-07	26	7 x 0.14	.24	(6)	17	(25)	35	(51)
CF240-01-14	26	14 x 0.14	.28	(7)	29	(42)	52	(76)
CF240-01-18	26	18 x 0.14	.31	(8)	33	(48)	61	(90)
CF240-01-24	26	24 x 0.14	.37	(9.5)	41	(60)	77	(113)
CF240-02-03	24	3 x 0.25	.22	(5.5)	14	(21)	27	(40)
CF240-02-04	24	4 x 0.25	.22	(5.5)	16	(24)	33	(48)
CF240-02-05	24	5 x 0.25	.24	(6)	18	(27)	35	(52)
CF240-02-07	24	7 x 0.25	.28	(7)	24	(35)	45	(66)
CF240-02-08	24	8 x 0.25	.30	(7.5)	27.2	(40)	50.3	(74)
CF240-02-14	24	14 x 0.25	.31	(8)	39	(57)	68	(100)
CF240-02-18	24	18 x 0.25	.35	(9)	48	(71)	83	(122)
CF240-02-24	24	24 x 0.25	.43	(11)	63	(92)	118	(174)
CF240-03-03	22	3 x 0.34	.22	(5.5)	16	(24)	31	(45)
CF240-03-04	22	4 x 0.34	.24	(6)	19	(28)	35	(51)
CF240-03-05	22	5 x 0.34	.26	(6.5)	22	(32)	39	(58)
CF240-03-07	22	7 x 0.34	.28	(7)	29	(43)	51	(75)
CF240-03-10	22	10 x 0.34	.33	(8.5)	37.4	(55)	74.8	(110)
CF240-03-14	22	14 x 0.34	.33	(8.5)	48	(71)	79	(116)
CF240-03-18	22	18 x 0.34	.39	(10)	59	(87)	95	(140)
CF240-03-24	22	24 x 0.34	.47	(12)	78	(115)	138	(203)

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



12x



10.98