CF240

ECONOMY

PVC Data Cables

Chainflex® CF240

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

Price Index

Conductor
Fine wire conductor

Core
Cabled in layers with extremely short pitch

Overall shield
Highly flexible braided copper shield

Outer jacket
Pressure extruded

Construction

Conductors: Finely stranded bare copper conductor with extreme flexibility.
Conductor insulation: Mechanically tough PVC
Conductor twisting: Conductors twisted with short pitch, layered around polymer 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.

Typical Applications

- for medium mechanical load requirements
- preferably indoor applications, outdoor is acceptable for temperatures greater than +41°F (+5°C)
- especially for freely suspended travel and gliding travel up to 164 ft (50m)
- storage and retrieval units for high-bay warehouses, machining units/packaging machines, handling, indoor cranes

Part No.	AWG	No. of Conductors and Rated Cross-Section in mm²	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	.33	(8.5)	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)
CF240-02-14	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	.35	(9)	59	(87)	95	(140)
CF240-03-24	22	24 x 0.34	.47	(12)	78	(115)	138	(203)

NOTE: The mentioned external diameters are maximum values.