



Chainflex® CF98

TPE Energy Chain® Cable, control cable for reduced bend radius, oil-resistant, bio-oil-resistant, PVC-free/halogen-free, UV-resistant, abrasion and tear resistant, low temperature flexibility

Conductor

Extremely highly flexible special alloy

Strain relief

Center core for high tensile stresses

Core

Braiding in layers with extremely short pitch

Outer jacket

Gusset-filling, pressure extruded, halogen-free TPE blend

Construction

Conductors: Special stranded alloy conductors

Conductor insulation: TPE, thin-walled version

Conductor twisting: Conductors stranded in one layer with especially short pitch length.

Conductor colors: In accordance with DIN 47100.

Outer jacket: TPE: particularly abrasion-resistant, high-flex blend, oil-resistant, coolant-resistant. Silicon-free in compliance with PV 3.10.7 - status 1992. **Color:** dark blue (RAL 5011).

Technical Data:

Minimum bending radius, moving: 4 x outer cable diameter

Minimum bending radius, fixed: 3 x outer cable diameter

Permissible temperature, moving: -31°F to +194°F (-35°C to +90°C)

Permissible temperature, fixed: -40°F to +194°F (-40°C to +90°C)

UV-resistance: High

Oil-resistance: High

Voltage: 300V

Testing voltage: 1500 V

Regulations: CE, RoHS: 2002/95/EC; Please reference the Design Section (Chapter 1) for more information.

Typical Applications

- for maximum load requirements at 4 x d
- indoor and outdoor applications
- especially for short, very fast applications with small radii and tight design space
- automatic insertion machines. automatic doors, cleanroom, very quick handling, low temperature locations

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)
CF98-01-02	26	2 x 0.14	.16	(4)	2.7	(4)	7.4	(11)
CF98-01-04	26	4 x 0.14	.20	(5)	5.7	(8.5)	10.8	(16)
CF98-01-08	26	8 x 0.14	.26	(6.5)	10.8	(16)	16.1	(24)
CF98-02-03	24	3 x 0.25	.20	(5)	8.1	(12)	16.8	(25)
CF98-02-04	24	4 x 0.25	.22	(5.5)	10.8	(16)	20.2	(30)
CF98-02-07	24	7 x 0.25	.26	(6.5)	17.5	(26)	35.6	(53)
CF98-02-08	24	8 x 0.25	.28	(7)	20.2	(30)	40.3	(60)
CF98-03-07	22	7 x 0.34	.28	(7)	21.5	(32)	37.0	(55)

NOTE: The mentioned external diameters are maximum values.