

TPE Control Cables

Chainflex® CF99

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



igus®
Price Index



CF99



PREMIUM

Construction

Conductors: Conductor consisting of a highly flexible special alloy

Conductor insulation: Mechanically high-quality TPE mixture

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

Conductor colors: In accordance with DIN 47100.

Inner Jacket: TPE

Shield: Alloy strand braid, coverage approx. 90% optical

Outer jacket: Low-adhesion mixture on the basis of TPE. Especially abrasion-resistant and highly flexible.

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 mm²	Outer Diameter (approx)		Copper Index		Weight	
			in.	(mm)	lbs/mft	(kg/km)	lbs/mft	(kg/km)
CF99-01-02	26	2 x 0.14	.22	(5.5)	9.07	(13.5)	22.18	(33)
CF99-01-03	26	3 x 0.14	.24	(6.0)	11.09	(16.5)	24.87	(37)
CF99-01-04	26	4 x 0.14	.24	(6.0)	14.11	(21.0)	28.90	(43)
CF99-01-07	26	7 x 0.14	.30	(7.5)	21.17	(31.5)	41.67	(62)
CF99-01-08	26	8 x 0.14	.31	(8.0)	24.19	(36.0)	46.37	(69)
CF99-02-03	24	3 x 0.25	.26	(6.5)	16.80	(25.0)	32.26	(48)
CF99-02-04	24	4 x 0.25	.26	(6.5)	20.16	(30.0)	37.63	(56)
CF99-02-07	24	7 x 0.25	.31	(8.0)	32.26	(48.0)	57.12	(85)
CF99-02-08	24	8 x 0.25	.33	(8.5)	36.29	(54.0)	62.50	(93)
CF99-03-03	22	3 x 0.34	.26	(6.5)	18.15	(27.0)	34.27	(51)
CF99-03-04	22	4 x 0.34	.28	(7.0)	23.52	(35.0)	41.67	(62)
CF99-03-07	22	7 x 0.34	.33	(8.5)	37.63	(56.0)	63.17	(94)
CF99-03-08	22	8 x 0.34	.35	(9.0)	43.01	(64.0)	70.57	(105)



Conductor
Extremely highly
flexible special
alloy

Core Stranding
Braiding in
layers with
extremely short
pitch

Inner Jacket
Gusset-filled
extruded

Shield
Extremely highly
flexible special
shield made of
alloyed wires

Outer jacket
Pressure extruded,
halogen-free TPE
blend

PDF: www.igus.com/pdf/chainflex.asp

Specs/CAD/RFQ: www.igus.com/chainflex.asp

RoHS info: www.igus.com/RoHS.asp

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