

CF310

CLASS
6.4.4

Price Index



TPE Power Cable

Chainflex® CF310

TPE Energy Chain® cable, shielded, oil-resistant, bio-oil-resistant, UV-resistant, flame-retardant

Conductor
Highly flexible
special
conductor

**Conductor
insulation**
Pressure
extruded
TPE blend

Overall Shield
Highly flexible
braided copper
shield

Outer jacket
Pressure
extruded,
TPE blend



10.150

Construction

Conductors: Finely stranded bare copper wires, according to EN60882

Conductor insulation: Mechanically high quality TPE blend.

Total shielding: Tinned copper braid, 90% optical coverage

Outer jacket: TPE: particularly abrasion-resistant, high-flex blend, oil-resistant, coolant-resistant and UV-resistant. Silicon-free in compliance with PV 3.10.7 - status 1992. **Color:** black.

Technical Data

Minimum bending radius, moving: 7.5 x outer cable diameter

Minimum bending radius, fixed: 4 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)

Voltage: 1000 V

Testing voltage: 4000V

Oil resistance: High

UV resistance: High

Regulations: cRUus: UL AWM style for USA & Canada: 21184 80°C 1000V **Flame Resistance:** FT1, CE, RoHS: 2002/95/EC; Please reference the Design Section (Chapter 1) for more information.

Cleanroom: According to ISO Class 1, material/cable tested by IPA according to standard 14644-1. Test cable CF34-25-04

Typical Applications

- for maximum mechanical load requirements
- indoor and outdoor applications, UV-resistant
- for unsupported and gliding travel up to 1312 ft (400m) or more
- storage and retrieval units for high-bay warehouses, machine tools, quick handling, cleanroom, semiconductor insertion, ship-to-shore, outdoor cranes, low temperature applications

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)
CF310-40-01	12	1 x 4.0	.26	(6.5)	37	(55)	50	(74)
CF310-60-01	10	1 x 6.0	.30	(7.5)	51	(75)	66	(97)
CF310-100-01	8	1 x 10.0	.34	(8.5)	82	(120)	98	(144)
CF310-160-01	6	1 x 16.0	.39	(10.0)	121	(178)	143	(210)
CF310-250-01	4	1 x 25.0	.45	(11.5)	185	(272)	214	(314)
CF310-350-01	2	1 x 35.0	.53	(13.5)	259	(380)	288	(423)
CF310-500-01	1	1 x 50.0	.59	(15)	357	(524)	386	(568)
CF310-700-01	2/0	1 x 70.0	.69	(17.5)	469	(689)	509	(748)
CF310-950-01	3/0	1 x 95.0	.81	(20.5)	626	(920)	678	(997)
CF310-1200-01	4/0	1 x 120.0	.87	(22)	776	(1140)	839	(1233)
CF310-1500-01	300 MCM	1 x 150.0	.94	(24)	977	(1436)	1054	(1549)
CF310-1850-01	350 MCM	1 x 185.0	1.04	(26.5)	1244	(1829)	1297	(1906)

NOTE: The mentioned external diameters are maximum values.

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