

CF300

CLASS  
6.4.4

Price Index



# TPE Power Cable

Chainflex® CF300

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

## Construction

**Conductors:** Finely stranded bare copper wires, according to EN60882

**Conductor insulation:** Mechanically high quality TPE blend.

**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)

**Nominal voltage:** 1000 V

**Testing voltage:** 4000V

**Oil resistance:** High

**UV resistance:** High

**Regulations:** **cRUus:** UL AWM style for USA & Canada: 21218 80°C 1000V **Flame resistance:** IEC 60332-1-2, CEI 20-35, FT1, VW-1 **NFPA 79:** Complies to NFPA 79 2012 chapter 12.9, **CE:** 2006/95/EG CEI: 20-35, **RoHS:** Complies to **2011/65/EU (RoHS-II).**

**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

**Conductor**  
Highly flexible  
special  
conductor

**Conductor  
insulation**  
Pressure  
extruded  
TPE blend

**Outer jacket**  
Pressure  
extruded, TPE  
blend

Clean-  
Room

150

| Part No.      | AWG     | No. of Conductors<br>and Rated Cross-<br>Section in mm² | Outer Diameter |        | Copper Index |         | Weight  |         |
|---------------|---------|---------------------------------------------------------|----------------|--------|--------------|---------|---------|---------|
|               |         |                                                         | in.            | (mm)   | lbs/mft      | (kg/km) | lbs/mft | (kg/km) |
| CF300-40-01   | 12      | 1 x 4.0                                                 | .26            | (6.5)  | 25.5         | (38)    | 41.0    | (61)    |
| CF300-60-01   | 10      | 1 x 6.0                                                 | .28            | (7)    | 39.4         | (58)    | 57.8    | (85)    |
| CF300-100-01  | 8       | 1 x 10.0                                                | .31            | (8)    | 65.3         | (96)    | 88.4    | (130)   |
| CF300-160-01  | 6       | 1 x 16.0                                                | .37            | (9.5)  | 104.7        | (154)   | 129.2   | (190)   |
| CF300-250-01  | 4       | 1 x 25.0                                                | .45            | (11.5) | 163.2        | (240)   | 190.4   | (280)   |
| CF300-350-01  | 2       | 1 x 35.0                                                | .49            | (12.5) | 228.5        | (336)   | 272.0   | (400)   |
| CF300-500-01  | 1       | 1 x 50.0                                                | .57            | (14.5) | 326.4        | (480)   | 353.6   | (520)   |
| CF300-700-01  | 2/0     | 1 x 70.0                                                | .63            | (16)   | 424.0        | (623)   | 460.0   | (676)   |
| CF300-950-01  | 3/0     | 1 x 95.0                                                | .75            | (19.0) | 577.0        | (848)   | 631.0   | (927)   |
| CF300-1200-01 | 4/0     | 1 x 120.0                                               | .85            | (21.5) | 720.0        | (1059)  | 779.0   | (1145)  |
| CF300-1500-01 | 300 MCM | 1 x 150.0                                               | .91            | (23)   | 897.0        | (1318)  | 960.0   | (1411)  |
| CF300-1850-01 | 350 MCM | 1 x 185.0                                               | 1.06           | (27.0) | 1285.7       | (1890)  | 1370.1  | (2014)  |

**NOTE:** The mentioned external diameters are maximum values.