



## Chainflex® CF30

PVC Standard Energy Chain® cable, oil-resistant, flame-retardant, conforms to DESINA standards

STANDARD



**Conductor**  
Highly flexible  
special  
conductor

**Core**  
Conductors  
stranded around  
high-tensile  
center core

**Outer jacket**  
gusset filled,  
pressure extruded,  
oil-proof PVC  
blend



### Construction

**Power conductor:** High flexural strength, finely stranded, bundled bare copper wires for 16-8 AWG. For those  $\geq 6$  AWG, copper strands are rope construction.

**Conductor insulation:** Mechanically tough TPE,

**Conductor twisting:** Conductors cabled with short pitch over a high-tensile-strength center core.

**Conductor colors:** Black with white numbers, one conductor green-yellow.

1. U / L1 / C / L+
2. V / L2
3. W / L3 / D / L-
4. 4 / N
5. green / yellow

**Outer jacket:** PVC-based, low-adhesion blend, adapted to the requirements of the Energy Chain®. Color: anthracite grey (RAL 7016).

### Technical Data

**Minimum bending radius for flexible use:** 7.5 x outer cable diameter (smaller radii are often possible -please consult igus®).

**Permissible temperature range for continuous flexing:** +23°F to +158°F (-5°C to +70°C)

**UL/CSA voltage:** 600V or 1000V

**Regulations:** cRUUs: UL AWM style for USA & Canada: 2570 80°C 1000V **Flame Resistance:** FT1, VDE 0250, CE: CEI 20-20, **DESINA, RoHS: 2002/95/EC;** See page 10.23 of the Design section for more information.

Part No.	AWG	No. of Conductors and Rated Cross- Section in mm <sup>2</sup>	Outer Diameter (approx)		Copper Index		Weight	
			in.	(mm)	lbs/mft	(kg/km)	lbs/mft	(kg/km)
CF30-15-04	16	4 x 1.5	.43	(11)	39.4	(58)	105.4	(155)
CF30-25-04	14	4 x 2.5	.47	(12)	65.2	(96)	139.4	(205)
CF30-40-04	12	4 x 4	.55	(14)	104.7	(154)	210.1	(309)
CF30-40-05	12	5 x 4	.57	(14.5)	130.5	(192)	248.2	(365)
CF30-60-04	10	4 x 6	.59	(15)	156.4	(230)	263.2	(387)
CF30-60-05	10	5 x 6	.65	(16.5)	195.8	(288)	346.8	(510)
CF30-100-04	8	4 x 10	.79	(20)	261.1	(384)	463.8	(682)
CF30-100-05	8	5 x 10	.87	(22)	326.4	(480)	612.0	(900)
CF30-160-04	6	4 x 16	.91	(23)	417.5	(614)	639.9	(941)
CF30-160-05	6	5 x 16	1.02	(26)	522.2	(768)	884.0	(1300)
CF30-250-04	4	4 x 25	1.10	(28)	652.8	(960)	991.4	(1458)
CF30-350-04	2	4 x 35	1.22	(31)	913.9	(1344)	1319.2	(1940)
CF30-500-04	1	4 x 50	1.46	(37)	1305.6	(1920)	1972.0	(2900)

NOTE: The mentioned external diameters are maximum values.