PVC Power cable | CF30

- for high load requirements
- PVC outer jacket
- oil-resistant
- flame-retardant

**Conductor**

- < 10 mm²: stranded conductor in especially bending-resistant version consisting of bare copper wires (following EN 60228).
- ≥ 10 mm²: conductor cable consisting of pre-leads (following EN 60228).

**Core insulation**

Mechanically high-quality, especially low-capacitance TPE mixture.

**Core stranding**

Cores stranded in short pitch lengths over a centre for high tensile stresses.

**Core identification**

Energy conductor: Cores black with white numerals, one core green-yellow.

1. core: U / L1 / C / L+ 2. core: V / L2 3. core: W / L3 / D / L- 4. core: 4 / N

**Outer jacket**

Low-adhesion, oil-resistant mixture on the basis of PVC, adapted to suit the requirements in energy chains® (following DIN VDE 0281 Part 13).

Colour: Jet black (similar to RAL 9005)

**CFRIP**

Strip cables 50% faster! The tear strip is in the outer jacket (starting from manufacturing date 5/2013).

**Bending radius**

- moved minimum 7.5 x d
- fixed minimum 4 x d

**Temperature**

- moved +5 °C to +70 °C for use in energy chains® with > 50,000 cycles
- -5 °C to +70 °C following DIN EN 60811, part 1-4 chapter II.2
- fixed -20 °C to +70 °C

**v max.**

- unsupported/gliding 10 m/s, 5 m/s
- a max. 80 m/s²

**Travel distance**

Freely suspended travel distances and up to 100 m for gliding applications, Class 4

**Torsion**

± 90°, with 1 m cable length

**UV-resistant**

Medium

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**Class 5.4.2** (5 high load requirements 4 travel distance up to 100 m 2 oil-resistant)

- Nominal voltage 600/1000 V (following DIN VDE 0250).
- Testing voltage 4000 V (following DIN VDE 0281-2).
- Oil Oil-resistant (following DIN EN 50363-4-1), Class 2.
- Flame-retardant According to IEC 60332-1-2, CEI 20-35, FT1, VW-1
- Silicon-free Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992).
- UL/CSA Style 10492 and 2570, 1000 V, 80 °C
- NFPA Following NFPA 79-2012 chapter 12.9
- CE Following CEI 20-35
- CE Following 2006/95/EG
- Lead free Following 2011/65/EC (RoHS-II)
- Clean room According to ISO Class 2. Outer jacket material complies with CF5,10.07, tested by IPA according to standard 14644-1.
- CTP Certified according to N° C-DE.PB49.V.000397
- EAC Certified according to N° TC RU C-DE.ME77.B.00964

**Double strokes**

<table>
<thead>
<tr>
<th>Temperature, from/to [°C]</th>
<th>v max. [m/s]</th>
<th>a max. [m/s²]</th>
<th>Travel distance [m]</th>
<th>R min. [factor x d]</th>
<th>R min. [factor x d]</th>
<th>R min. [factor x d]</th>
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</thead>
<tbody>
<tr>
<td>-5 / +5</td>
<td>10</td>
<td>5</td>
<td>≤ 100</td>
<td>7.5</td>
<td>8.5</td>
<td>9.5</td>
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<tr>
<td>+5 / +60</td>
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<td>5</td>
<td>80</td>
<td>7.5</td>
<td>8.5</td>
<td>9.5</td>
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<tr>
<td>+60 / +70</td>
<td>10</td>
<td>11</td>
<td>12</td>
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</table>

* higher number of double strokes possible

**Typical application area**

- for high load requirements
- light oil influence
- preferably indoor applications, but also outdoor ones at temperatures > 5 °C
- freely suspended travel distances and up to 100 m for gliding applications
- Storage and retrieval units for high-bay warehouses, machining units/packaging machines, quick handling, indoor cranes
**PVC Power cable | CF30**

**Strip cables 50% faster!**

**IGUS® CHAINFLEX® CF30**

Image exemplary.

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## Delivery program

<table>
<thead>
<tr>
<th>Part No.</th>
<th>Number of cores and conductor nominal cross section [mm²]</th>
<th>External diameter max. [mm]</th>
<th>Copper index [kg/km]</th>
<th>Weight [kg/km]</th>
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</thead>
<tbody>
<tr>
<td>CF30.15.04</td>
<td>4 G 1.5</td>
<td>8.5</td>
<td>64</td>
<td>106</td>
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Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.  
G = with green-yellow earth core  
= without earth core