TPE Power cable | CF38

Image exemplary.

- for maximum load requirements
- TPE outer jacket
- shielded
- oil-resistant, biooil-resistant
- PVC-free/halogen-free
- UV-resistant
- hydrolysis-resistant and microbe-resistant

Product improvement!
CFRIP® -technology
Strip cables 50% faster!
www.igus.eu/CFRIP

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
Inner jacket	TPE mixture adapted to suit the requirements in energy chains®.
Overall shield	Extremely bending-resistant braiding made of tinned copper wires. Coverage approx. 70% linear, approx. 90% optical.
Outer jacket	Low-adhesion mixture on the basis of TPE, especially abrasion-resistant and highly flexible, adapted to suit the requirements in energy chains®. Colour: Jet black (similar to RAL 9005)
CFRIP	Strip cables 50% faster! The tear strip is in the inner jacket (starting from manufacturing date 5/2013). Video ▶ www.igus.eu/CFRIP
Bending radius	**moved** minimum 7,5 x d **fixed** minimum 4 x d
Temperature	**moved** -35 °C to +90 °C **fixed** -40 °C to +90 °C
v max. unsupported/gliding	10 m/s, 6 m/s
a max.	80 m/s²
Travel distance	Freely suspended travel distances and up to 400 m for gliding applications, Class 5
UV-resistant	High
Nominal voltage	600/1000 V (following DIN VDE 0250).
Testing voltage	4000 V (following DIN VDE 0281-2).
Oil	Oil-resistant (following DIN EN 60811-2-1), biooil-resistant (following VDMA 24568 with Plantocut 8 S-MB tested by DEA), Class 4.

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eplan download, configurator ▶ www.igus.eu/CF38

1030 types from stock no cutting costs ...
(for up to 10 cuts of the same type)

CF38
TPE
7,5 x d

Class 7.5.4 (7 maximum load requirements 5 travel distance up to 400 m 4 oil-resistant)

Silicon-free	Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992).
Halogen-free	Following EN 50267-2-1.
CE	Following 2006/95/EG
Lead free	Following 2011/65/EC (RoHS-II)
Clean room	According to ISO Class 1. Outer jacket material complies with CF9.15.07, tested by IPA according to standard 14644-1
EAC	Certified according to N[2] TC RU C-DE.ME77.B.00964

New! **Guaranteed lifetime for this series according to the "chainflex® guarantee club" conditions** ▶ Page 22-25

Double strokes*					5 million	7,5 million	10 million
Temperature, from/to [°C]	v max. [m/s] unsupported	v max. [m/s] gliding	a max. [m/s²]	Travel distance [m]	*R* min. [factor x d]	*R* min. [factor x d]	*R* min. [factor x d]
-35 / -25					10	11	12
-25 / +80	10	6	80	≤ 400	7,5	8,5	9,5
+80 / +90					10	11	12

* higher number of double strokes possible

Typical application area

- for maximum load requirements
- almost unlimited resistance to oil, also with bio-oils
- Indoor and outdoor applications, UV-resistant
- freely suspended travel distances and up to 400 m for gliding applications
- Storage and retrieval units for high-bay warehouses, machining units/machine tools, quick handling, clean room, semiconductor insertion, ship to shore, outdoor cranes, low-temperature applications

Delivery program Part No.	Number of cores and conductor nominal cross section [mm²]	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF38.05.04(1)	(4 G 0,5)C	8,0	39	81
CF38.07.04(1)	(4 G 0,75)C	8,5	52	104
CF38.15.04	(4 G 1,5)C	9,5	85	149
CF38.25.04(1)	(4 G 2,5)C	11,5	128	207
CF38.40.04	(4 G 4,0)C	13,5	201	326
CF38.60.04(1)	(4 G 6,0)C	16,0	298	450
CF38.100.04	(4 G 10,0)C	19,5	454	682
CF38.160.04	(4 G 16,0)C	23,0	723	1003
CF38.250.04	(4 G 25,0)C	27,5	1160	1524
CF38.60.03.O.PE(1)	(3 x 6,0)C	14,5	231	367
CF38.100.03.O.PE(1)	(3 x 10,0)C	17,5	356	568
CF38.160.03.O.PE(1)	(3 x 16,0)C	21,0	553	789
CF38.250.03.O.PE(1)	(3 x 25,0)C	24,5	884	1208
CF38.350.03.O.PE(1)	(3 x 35,0)C	28,5	1200	1675
CF38.500.03.O.PE(1)	(3 x 50,0)C	33,5	1660	2283

(1) Delivery time upon inquiry.
Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.
G = with green-yellow earth core **x =** without earth core

... no minimum order quantity ...