## TPE Motor cable | CF35-UL

For very high mechanical load requirements

TPE outer jacket

Shielded

Oil-resistant, bio-oil-resistant

Flame-retardant

UV-resistant

Hydrolysis/microbe-resistant



#### **Dynamic Information**

(-35 °C to +90 °C)
(-45 °C to +90 °C)

32.81 ft/s (10 m/s) unsupported v max. gliding 19.69 ft/s (6 m/s)

fixed

262.5 ft/s<sup>2</sup> (80 m/s<sup>2</sup>) a max.

Travel distance Unsupported travel distances and for gliding applications up to

1312 ft (400 m) and more, Class 6

Cable structure

Color code

Inner jacket

Outer jacket

Conductors 20-10 AWG: Conductor consisting of bare copper wires (according to EN 60228).

8-1 AWG: Conductor cable consisting of pre-leads (following EN 60228).

-58 °F to +194 °F (-50 °C to +90 °C)

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

Core construction Conductors cabled with short pitch length around a high-tensile strength core.

Black with white numbers, one conductor green-yellow..

1. U/L1/C/L+

2. V / L2

3. W/L3/D/L-

4. green/yellow

TPE mixture adapted to suit the requirements in E-Chains®.

Overall shield Extremely bending-resistant tinned copper braid.

90 % optical coverage

Low-adhesion mixture on the basis of TPE, especially abrasionresistant and highly flexible, adapted to suit the requirements in

E-Chains®. Color: Signal black (similar to RAL 9004)

Strip cables 50% faster: The tear strip is in the inner jacket

Video ➤ www.igus.com/CFRIP

# Class 6.6.4.1

**Electrical Information** Nominal voltage

Test voltage 4000 V (following DIN EN 50396)

1000 V

### **VV** Properties and approvals

// UV resistance

Oil resistant (following DIN EN 60811-404), bio-oil resistant (following VDMA 24568 with Plantocut 8 S-MB tested by DEA), Class 4

Flame resistance According to IEC 60332-1-2, CEI 20-35, FT1, VW-1

Silicone-free Free from silicone which can affect paint adhesion (following PV

3.10.7 – status 1992)

CTAUS UL/CSA Style 10492 and 21184, 1000 V, 80 °C

NFPA 79 Complies to NFPA 79-2015 chapter 12.9

DNV-GL Certified according to GL type testing - Certificate no.: 61 938-14 HH

FHI EAC Certified according to no. TC RU C-DE.ME77.B.01255

CTP Certified according to no. C-DE.PB49.B.00420

© CEI Following CEI 20-35

RoHS-Lead-free Following 2011/65/EC (RoHS-II)

Cleanroom According to ISO Class 1. Outer jacket material complies with CF34-UL-25-04-D, tested by IPA according to standard 14644-1

CE CE Following 2014/35/EC

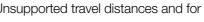
#### Guaranteed lifetime according to guarantee conditions (Page 22-25)

Cycles*					5 million	7.5 million	10 million	
Temperature,	v max. [ft/s]		a max.	Travel distance	R min.	R min.	R min.	
from/to [°F]	unsupported	gliding	[ft/s <sup>2</sup> ]	[ft]	[factor x d]	[factor x d]	[factor x d]	
-31 / -13					10	11	12	
-13 / +176	32.81	19.69	262.48	≤ 1,312	7.5	8.5	9.5	
+176 / +194					10	11	12	

<sup>\*</sup> Higher number of cycles possible - please ask for your individual calculation.

#### Typical application areas

- For very high mechanical load requirements
- Almost unlimited resistance to oil, also with bio-oils
- Indoor and outdoor applications, UV-resistant



- Unsupported travel distances and for gliding applications up to 1312 ft (400 m) and more
- 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



HLEX CF35.UL



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**NFPA** 

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RoHS-II

CF35-UL TPE 7.5 x d

# TPE Motor cable | CF35-UL

Strip cables 50% faster!

### IGUS® CHAINFLEX® CF35.UL

Image exemplary.

Part No.	AWG	Number of Conductors and rated cross section [mm²]	Outer diameter max.		Copper index		Weight	
			in.	mm	lbs/mft	kg/km	lbs/mft	kg/km
CF35-UL-05-04	20	4 G 0.5	0.31	8.0	29.6	44	59.1	88
CF35-UL-07-04	18	4 G 0.75	0.33	8.5	39.0	58	73.9	110
CF35-UL-15-04	16	4 G 1.5	0.39	10.0	63.2	94	106.2	158
CF35-UL-25-04	14	4 G 2.5	0.45	11.5	95.4	142	149.8	223
CF35-UL-40-04	12	4 G 4.0	0.53	13.5	149.8	223	229.1	341
CF35-UL-60-04	10	4 G 6.0	0.63	16.0	219.1	326	323.9	482
CF35-UL-100-04	8	4 G 10.0	0.77	19.5	336.0	500	484.5	721
CF35-UL-160-04	6	4 G 16.0	0.91	23.0	536.2	798	727.7	1083
CF35-UL-250-04	4	4 G 25.0	1.08	27.5	855.4	1273	1099.3	1636
CF35-UL-60-03-O-PE	10	3 x 6.0	0.59	15.0	172.0	256	260.1	387
CF35-UL-100-03-O-PE 1)	8	3 x 10.0	0.69	17.5	262.7	391	407.2	606
CF35-UL-160-03-O-PE	6	3 x 16.0	0.83	21.0	409.9	610	569.8	848
CF35-UL-250-03-O-PE	4	3 x 25.0	0.98	25.0	653.8	973	872.9	1299
CF35-UL-350-03-O-PE	2	3 x 35.0	1.12	28.5	885.7	1318	1207.5	1797
CF35-UL-500-03-O-PE	1	3 x 50.0	1.32	33.5	1228.4	1828	1647.7	2452
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Note: The mentioned outer diameters are maximum values. G = with green-yellow earth core x = without earth core



Order example: CF35-UL-15-04 - In your desired length CF35-UL Chainflex® series -15 Code nominal cross section -04 Number of conductors



Online order ► www.chainflex.com/CF35



Delivery time 24hr or today.

Delivery time means time until shipping of goods.



















