TPE Motor cable | CF330-D

• For maximum mechanical load requirements

TPE

- TPE outer jacket
- Oil-resistant
- Bio-oil-resistant
- PVC-free/halogen-free
- UV-resistant
- Hydrolysis/microbe-resistant

Dynamic Information

Bend radiusE-Chain®min. 7.5 x dflexiblemin. 6 x dfixedmin. 4 x dTemperatureE-Chain®-31 °F to +194 °F (-35 °C to +90 °C)flexible-58 °F to +194 °F (-50 °C to +90 °C)fixed-67 °F to +194 °F (-55 °C to +90 °C)fixed-67 °F to +194 °F (-55 °C to +90 °C)v max.unsupportedgliding19.69 ft/s (6 m/s)a max.328.1 ft/s² (100 m/s²)Travel distanceUnsupported travel distances and for gliding applications up 1312 ft (400 m) and more, Class 6form \pm 90°, with 3.281 ft (1 m) cable lengthCable structureConductor consisting of bare copper wires (according to EN 60228).formConductor insulationMechanically high-quality TPE mixture.Outer jacketLow-adhesion mixture on the basis of TPE, especially abrasia resistant and highly flexible, adapted to suit the requirements
fixed min. 4 x d Image: Construction of the structure Fixed -31 °F to +194 °F (-35 °C to +90 °C) flexible -58 °F to +194 °F (-50 °C to +90 °C) fixed -67 °F to +194 °F (-55 °C to +90 °C) fixed -67 °F to +194 °F (-55 °C to +90 °C) fixed -67 °F to +194 °F (-55 °C to +90 °C) fixed -67 °F to +194 °F (-55 °C to +90 °C) fixed -67 °F to +194 °F (-55 °C to +90 °C) fixed -67 °F to +194 °F (-55 °C to +90 °C) fixed -67 °F to +194 °F (-55 °C to +90 °C) fixed -67 °F to +194 °F (-55 °C to +90 °C) fixed -67 °F to +194 °F (-55 °C to +90 °C) fixed -67 °F to +194 °F (-55 °C to +90 °C) fixed -67 °F to +194 °F (-55 °C to +90 °C) fixed -67 °F to +194 °F (-55 °C to +90 °C) fixed 19.69 ft/s (6 m/s) a max. 328.1 ft/s² (100 m/s²) fixed Unsupported travel distances and for gliding applications up 1312 ft (400 m) and more, Class 6 fixed ± 90°, with 3.281 ft (1 m) cable length fixed Conductors Conductor Conductor consisting of bare copper wires (according to EN 60228). fixed
TemperatureE-Chain® $-31 \degree F$ to $+194 \degree F$ ($-35 \degree C$ to $+90 \degree C$) flexible $-58 \degree F$ to $+194 \degree F$ ($-50 \degree C$ to $+90 \degree C$) fixed $\circ Conductors$ unsupported $32.81 \text{ ft/s} (10 \text{ m/s})$ gliding $19.69 \text{ ft/s} (6 \text{ m/s})$ $\circ max.$ $328.1 \text{ ft/s}^2 (100 \text{ m/s}^2)$ $\circ max.$ $1312 \text{ ft} (400 \text{ m})$ and more, $Class 6$ $\circ max.$ 190° , with $3.281 \text{ ft} (1 \text{ m})$ cable length $\circ max.$ $Conductors$ $\circ max.$ $Conductor consisting of bare copper wires (according to EN 60228).\circ max.Outer jacket\circ max.Low-adhesion mixture on the basis of TPE, especially abrasis$
Image: Second structure flexible -58 °F to +194 °F (-50 °C to +90 °C) Image: Second structure fixed -67 °F to +194 °F (-55 °C to +90 °C) Image: V max. unsupported 32.81 ft/s (10 m/s) Image: Second structure gliding 19.69 ft/s (6 m/s) Image: Second structure 328.1 ft/s² (100 m/s²) Image: Second structure Unsupported travel distances and for gliding applications up 1312 ft (400 m) and more, Class 6 Image: Second structure Second structure Image: Second structure Conductor second structure Image: Second structure Conductor insulation Image: Second structure Conductor insulation Image: Second structure Low-adhesion mixture on the basis of TPE, especially abrasis
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resistant and highly flexible, adapted to suit the requirements
E-Chains [®] . Color: Jet black (similar to to RAL 9005)
Electrical Information
Nominal voltage 1000 V
\mathcal{T}_0
Test voltage 4000 V (following DIN EN 50396)
Properties and approvals
UV UV resistance High
Oil resistance Oil resistant (following DIN EN 60811-404), bio-oil resistant (follow
✓oil ♦ VDMA 24568 with Plantocut 8 S-MB tested by DEA), Class 4
Silicone-free Free from silicone which can affect paint adhesion (following
3.10.7 – status 1992)
3.10.7 – status 1992) Halogen-free Following EN 50267-2-1
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INFLEX" CF330.D

Configurators ► www.igus.com/CF330

1,244 types from stock ... no cutting costs*

... no minimum order quantity ... *(up to 10 cuts of the same part number)

Class 7.6.4.2

Requirements Travel distance unsupported Oil resistance none Torsion

RoHS- Lead-free Cleanroom DESINA **CE** CE

Following 2011/65/EC (RoHS-II) CF9-15-07, tested by IPA according to standard 14644-1

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 ²]	[ft]	[factor x d]	[factor x d]	[factor x d]	
-31 / -13					10	11	12	
-13/+176	32.81	19.69	328.10	≤ 1,312	7.5	8.5	9.5	
+176 / +194					10	11	12	
* 1 12 1 1	с I				1 1 12			

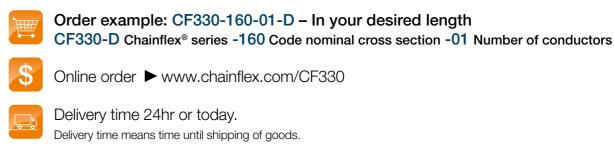
* Higher number of cycles possible - please ask for your individual calculation.

Typical application areas

- For maximum 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, outdoor cranes, low temperature applications

Part No. AW		Number of Conductors and rated cross section	Outer diameter max.		Copper index		Weight	
		[mm ²]	in.	mm	lbs/mft	kg/km	lbs/mft	kg/km
CF330-60-01-D	10	1 x 6.0	0.28	7.0	39.0	58	51.7	77
CF330-100-01-D	8	1 x 10.0	0.31	8.0	64.5	96	79.3	118
CF330-160-01-D	6	1 x 16.0	0.37	9.5	103.5	154	121.6	181
CF330-250-01-D	4	1 x 25.0	0.43	11.0	161.3	240	185.5	276
CF330-350-01-D	2	1 x 35.0	0.49	12.5	225.8	336	253.3	377
CF330-500-01-D	1	1 x 50.0	0.57	14.5	322.5	480	350.8	522
CF330-700-01-D	2/0	1 x 70.0	0.65	16.5	467.7	696	497.3	740
CF330-950-01-D	3/0	1 x 95.0	0.79	20.0	616.2	917	669.3	996
CF330-1200-01-D	4/0	1 x 120.0	0.85	21.5	779.5	1160	833.9	1241
CF330-1500-01-D	300	1 x 150.0	0.93	23.5	964.3	1435	1020.0	1518
CF330-1850-01-D	350	1 x 185.0	1.04	26.5	1193.4	1776	1329.2	1978

Note: The mentioned outer diameters are maximum values. G = with green-yellow earth core x = without earth core



36 months guarantee on every chainflex[®] cable up to 10 million cycles guaranteed ...



CF330-D TPE 7.5 x d

According to ISO Class 1. Outer jacket material complies with According to VDW, DESINA standardisation

