Spindle cable/Single core | TPE | chainflex® CF330.D

4 12.5 million Double strokes guaranteed





- For heaviest duty applications
- TPE outer jacket
- Oil and bio-oil-resistant
- PVC and halogen-free
- UV-resistant
- Hydrolysis and microbe-resistant

Now available with UL approval **& 25% longer** service life

Dynamia information				
Dynamic information Bend radius	e-chain® linear	minimum 7.5 x d		
Bellu laulus	flexible	minimum 6 x d		
	fixed	minimum 4 x d		
Temperature	e-chain® linear	-35°C up to +90°C		
	flexible	-50°C up to +90°C (following DIN EN 60811-504)		
	fixed	-55°C up to +90°C (following DIN EN 50305)		
v v max.	unsupported	10m/s		
	gliding	6m/s		
a max.	100m/s ²			
Travel distance	Unsupported travels and up to 400m and more for gliding applications, Class 6			
Torsion	Torsion ±90°, with	Torsion ±90°, with 1m cable length, Class 2		
Cable structure				
Conductor	Conductor cable consisting of pre-leads (following DIN EN 60228).			
Core insulation	Mechanically high-quality TPE mixture.			
Outer jacket	Low-adhesion, extremely abrasion-resistant and highly flexible TPE mixture, adapted to suit the requirements in e-chains [®] .			

Electrical information

Nominal voltage	600/1,000V (following DIN VDE 0298-3)
70	1,000V (following UL)
Testing voltage	4,000V (following DIN EN 50395)

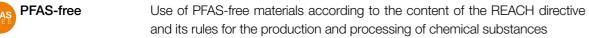
Colour: jet black (similar to RAL 9005)

Properties and approvals UV resistance

igus chainflex CF330.D

Oil resistance	Oil-resistant (following DIN EN 60811-404), bio-oil-resistant (following VDMA
oil	24568 with Plantocut 8 S-MB tested by DEA), Class 4
Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status
	1992)
Halogen-free	Following DIN EN 60754









Class 7.6.4.2





CF330.D

TPE

7.5 x d

igus 4-year chainflex cable guarantee and service life calculator based on 2 billion test cycles per year





















UL verified

Certificate No. V293650: "igus 4-year chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"

In accordance with regulation (EC) No. 1907/2006 (REACH)

UL AWM

See data sheet for details ▶ www.igus.eu/CF330D

REACH REACH RoHS Lead-free

Following 2011/65/EC (RoHS-II/RoHS-III)

Cleanroom

DESINA

According to ISO Class 1. The outer jacket material of this series complies with CF9.15.07 - tested by IPA according to standard DIN EN ISO 14644-1 According to VDW, DESINA standardisation

C€^{CE}

Following 2014/35/EU

Basic requirements

Travel distance

Oil resistance

Torsion

Guaranteed service life (details see page 28-29)

Double strokes*	5 million	7.5 million	12.5 million		
Temperature, from/to [°C]	R min. [x d]	R min. [x d]	R min. [x d]		
-35/-25	10	11	12		
-25/+80	7.5	8.5	9.5		
+80/+90	10	11	12		
* Higher number of double strokes? Service life calculation online ▶ www.igus.eu/chainflexlife					

Typical application areas

- For heavy-duty applications, Class 7
- Unsupported travels and up to 400m and more for gliding applications, Class 6
- Almost unlimited resistance to oil, also with bio-oils, Class 4
- Torsion ±90°, with 1m cable length, Class 2
- Indoor and outdoor applications, UV-resistant
- Storage and retrieval units for high-bay warehouses, machining units/machine tools, quick handling, cleanroom, semiconductor insertion, outdoor cranes, low-temperature applications

Part No.	Number of cores and conductor nominal cross section	Outer diameter (d) max.	Copper index	Weight
	[mm²]	[mm]	[kg/km]	[kg/km]
CF330.60.01.D	1x6.0	7.0	61	77
CF330.100.01.D	1x10	7.5	100	119
CF330.160.01.D	1x16	9.5	159	181
CF330.250.01.D	1x25	11.5	248	284
CF330.350.01.D	1x35	12.5	347	385
CF330.500.01.D	1x50	14.5	495	534
CF330.700.01.D	1x70	16.5	710	754
CF330.950.01.D	1x95	20.0	936	1015
CF330.1200.01.D	1x120	21.5	1184	1265
CF330.1500.01.D	1x150	23.5	1469	1548
CF330.1850.01.D	1x185	26.5	1928	2016
CF330.2400.01.D	1x240	29.5	2351	2436

Note: The given outer diameters are maximum values and may tend toward lower tolerance limits.

G = with green-yellow earth core x = without earth core

New