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

Dynamic information

Bend radius	e-chain® linear	minimum 7.5 x d
	flexible	minimum 6 x d
	fixed	minimum 4 x d
Temperature	e-chain® linear	-35 °C to +90 °C
	flexible	-50 °C to +90 °C (following DIN EN 60811-504)
	fixed	-55 °C to +90 °C (following DIN EN 50305)
v max.	unsupported	10 m/s
	gliding	6 m/s

a max. 100 m/s²

Travel distance Unsupported travel distances and up to 400 m and more for gliding applica-

tions, Class 6

± 90°, with 1 m cable length, Class 2 Torsion

Cable structure

Conductor	Conductor	consisting of	pre-wound	conductor	bundles	(following	DIN	ΕN
1102	60000)							

Core insulation Mechanically high-quality TPE mixture.

> Low-adhesion, extremely abrasion-resistant and highly flexible TPE mixture, adapted to suit the requirements in e-chains®.

Colour: Jet black (similar to RAL 9005)

Electrical information

Outer jacket

Nominal voltage 600/1000 V (following DIN VDE 0298-3)

Testing voltage 4000 V (following DIN EN 50395)

Class 7.6.4.2

Oil resistance

Basic requirements

Torsion





Properties and approvals

roperties and approval	3
UV resistance	High.
Oil resistance	Oil resistant (following DIN EN 60811-404), bio-oil resistant (following VDM/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.
EAC EAC	Certificate no. RU C-DE.ME77.B.02324 (TR ZU)
Lead-free	Following 2011/65/EU (RoHS-II).
Olean Cleanroom	According to ISO Class 1. Outer jacket material complies with CF9.15.07
Room	tested by IPA according to standard 14644-1.
DESINA	According to VDW, DESINA standardisation.

Guaranteed lifetime according to guarantee conditions (Page 22-23)

Following 2014/35/EU.

Double strokes*			
Temperature, from/to [°C]	R min. [factor x d]	R min. [factor x d]	R min. [factor 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? Online lifetime calculation: www.igus.eu/chainflexlife

Typical mechanical application areas

- For heaviest duty applications
- Almost unlimited resistance to oil, also with bio-oils
- Indoor and outdoor applications, UV resistant
- Unsupported travel distances and up to 400 m and more for gliding applications
- Storage and retrieval units for high-bay warehouses, Machining units/machine tools, quick handling equipment, Clean room, semiconductor handling, 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	58	77
CF330.100.01.D	1x10.0	8.0	96	118
CF330.160.01.D	1x16.0	9.5	154	181
CF330.250.01.D	1x25.0	11.0	240	276
CF330.350.01.D	1x35.0	12.5	336	377
CF330.500.01.D	1x50.0	14.5	480	522
CF330.700.01.D	1x70.0	16.5	696	740
CF330.950.01.D	1x95.0	20.0	917	996
CF330.1200.01.D	1x120.0	21.5	1160	1241
CF330.1500.01.D	1x150.0	23.5	1435	1518
CF330.1850.01.D	1x185.0	26.5	1776	1978

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



















