

Coax cable (Class 6.6.4.1) ● For extremely heavy duty applications ● TPE outer jacket ● Oil and bio-oil-resistant ● UV-resistant ● Hydrolysis and microbe-resistant





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Example image



Guarantee

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

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Dynamic information

Bend radius	e-chain® linear flexible fixed	10 x d 8 x d 5 x d
Temperature	e-chain [®] linear	-35 °C up to +100 °C (CFKOAX1/3) -35 °C up to +70 °C (CFKOAX2)
	flexible	-50 °C up to +100 °C (CFKOAX1/3) -50 °C up to +70 °C (CFKOAX2)
	fixed	-55 °C up to +100 °C (CFKOAX1/3) -55 °C up to +70 °C (CFKOAX2)
v max.	unsupported gliding	10 m/s 5 m/s
a max.	100 m/s²	
Travel distance	Unsupported trave	els and up to 400m and more for gliding applications, Class 6

These values are based on specific applications or tests. They do not represent the limit of what is technically feasible.

Guaranteed service life according to guarantee conditions

Double strokes	5 million	7.5 million	10 million	
Temperature, from/to [°C]	R min. [factor x d]	R min. [factor x d]	R min. [factor x d]	
-35/-25	12,5	13,5	14,5	
-25/+60 (CFKOAX2)	10	11	12	
-25/+90 (CFKOAX1/CFKOAX3)	10	11	12	
+60/+70 (CFKOAX2)	12,5	13,5	14,5	
+90/+100 (CFKOAX1/CFKOAX3)	12,5	13,5	14,5	

Minimum guaranteed service life of the cable under the specified conditions. The installation of the cable is recommended within the middle temperature range.

chainflex° CFKOAX

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REACH RoHS-I CE JK



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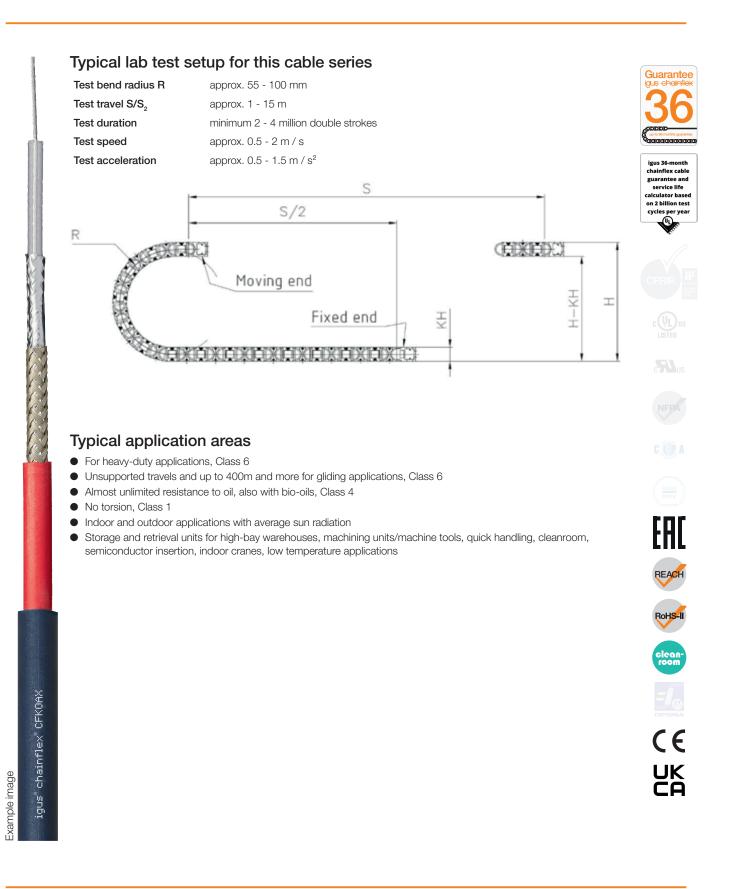
Nominal voltage	500/500V (following DIN VDE 0298-3)	Guara gus ef
Prüfspannung	1500V (following DIN EN 50395)	
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Properties and ap	-	cycles p
UV resistance	Medium	1910
Oil resistance	Oil-resistant (following DIN EN 60811-404), bio-oil-resistant (following VDMA 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)	
UL verified	Certificate No. B129699: "igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year"	
EAC	Certificate No. RU C-DE.ME77.B.00300/19	
REACH	In accordance with regulation (EC) No. 1907/2006 (REACH)	
Lead-free	Following 2011/65/EC (RoHS-II/RoHS-III)	
cleanroom	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	
CECE	Following 2014/35/EU	FI
	In accordance with the valid regulations of the United Kingdom (as at 08/2021)	RE
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Guarantee

chainflex cable guarantee and service life

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Technical tables:

Mechanical information

ArtNr.	Number of cores and conductor nominal cross section [mm²]	Outer diameter (d) max. [mm]	Copper index [kg/km]	Weight [kg/km]	
CFKOAX1.01	1xHF75-0.3/1.6	4.5	8	23	
CFKOAX1.05	5xHF75-0.3/1.6	10.0	34	110	
CFKOAX2.01	1xHF50-0.9/2.95	5.5	19	36	
CFKOAX3.01	1xHF50-0.3/0.84	3.5	6	12	

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

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05/2022

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CFKOAX1

HF75-0.3/1.6 RG179

Electrical information

(Cable structure please see previous page)

Part No.	CFKOAX1.01	CFKOAX1.05	
Nominal voltage (following DIN VDE 0298-3)	500 V		
Testing voltage (following DIN EN 50289-1-3)	1500 V		
Operating capacity (following DIN EN 50289-1-5)	65 nF/km (at 800 Hz) 60 nF/km (at 800		
Characteristic wave impedance (following DIN EN 50289-1-11)	75 ± 5 Ω (a	at 200 MHz)	
Maximum conductor resistance at 20 °C (following DIN EN 50289-1-2)	800 9	Ω/km	

Line attenuation approx. [dB/100m]						
Part No.	50 MHz	100 MHz	200 MHz	400 MHz	800 MHz	1 GHz
CFKOAX1.01	23	28	40	57	82	92
CFKOAX1.05	23	28	40	57	82	92



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CFKOAX2

HF50-0.9/2.95 RG58

Electrical information

(Cable structure please see previous page)

Part No.	CFKOAX2.01
Nominal voltage (following DIN VDE 0298-3)	500 V
Testing voltage (following DIN EN 50289-1-3)	1500 V
Operating capacity (following DIN EN 50289-1-5)	100 nF/km (at 800 Hz)
Characteristic wave impedance (following DIN EN 50289-1-11)	50 ± 5 Ω (at 200 MHz)
Maximum conductor resistance at 20 °C (following DIN EN 50289-1-2)	44,7 Ω/km

Line attenuation approx. [dB/100m]						
Part No.	50 MHz	100 MHz	200 MHz	400 MHz	800 MHz	1 GHz
CFKOAX2.01	13	18	26	42	60	72

Example image

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CFKOAX3

HF50-0.3/0.84 RG178

Electrical information

(Cable structure please see previous page)

Part No.	CFKOAX3.01
Nominal voltage (following DIN VDE 0298-3)	500 V
Testing voltage (following DIN EN 50289-1-3)	1500 V
Operating capacity (following DIN EN 50289-1-5)	95 nF/km (at 800 Hz)
Characteristic wave impedance (following DIN EN 50289-1-11)	50 ± 5 Ω (at 200 MHz)
Maximum conductor resistance at 20 °C (following DIN EN 50289-1-2)	800 Ω/km

Line attenuation approx. [dB/100m]						
Part No.	50 MHz	100 MHz	200 MHz	400 MHz	800 MHz	1 GHz
CFKOAX3.01	38	53	76	110	160	180

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