# Coax cable | TPE | chainflex<sup>®</sup> CFKoax

TPE





- For extremely heavy duty applications
  Hydrolysis and microbe-resistant
- TPE outer jacket
- Oil and bio-oil-resistant
- UV-resistant

#### **Dynamic information** Bend radius e-chain<sup>®</sup> linear minimum 10 x d flexible minimum 8 x d fixed minimum 5 x d C 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) 10m/s v max. unsupported gliding 5m/s a max. 100m/s<sup>2</sup> Travel distance Unsupported travels and up to 400m and more for gliding applications, Class 6 Cable structure Conductor Multi-wire; adapted to single-wire diameter with pitch length to suit the requirements in e-chains®. Special FEP mixture (CFKoax1/3) Core insulation Special PE mixture (CFKoax2) Core structure Cores wound in a layer with especially short pitch length. Core identification Coaxial elements **Product range table** Element shield Extremely bending-resistant braiding made of tinned copper wires. Coverage linear approx. 70%, optical approx. 90% Element shield TPE mixture adapted to suit the requirements in e-chains<sup>®</sup>. Outer jacket Low-adhesion, extremely abrasion-resistant and highly flexible TPE mixture, adapted to suit the requirements in e-chains®. Colour: Product range table **Electrical information**

Testing voltage A

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36-month guarantee ... more than 1,350 cable types from stock ... no cutting charges

500/500V (following DIN VDE 0298-3)

1,500V (following DIN EN 50395)

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**Basic requirements** Travel distance unsupported Oil resistance Torsion

Properties and approval UV resistance	Medium
Oil resistance	Oil-resistant (following DIN EN 60 24568 with Plantocut 8 S-MB test
Silicone-free	Free from silicone which can affect 1992)
UL verified	Certificate No. B129699: "igus service life calculator based on 2
EAC	Certificate No. RU C-DE.ME77.B.
REACH	In accordance with regulation (EC)
Rous Lead-free	Following 2011/65/EC (RoHS-II/R
clean- room	According to ISO Class 1. The out
CECE	CF9.15.07 - tested by IPA accord Following 2014/35/EU
	In accordance with the valid regula
P Info	The coaxial elements used in cal
	with a HF75-0.3/1.6 according to RG179 plug!
	The coaxial elements used in cat
	with a HF50-0.9/2.95 according
	RG58 plug!
	The coaxial elements used in cal
	with a HF50-0.3/0.84 according
	RG178 plug!
Guaranteed service life (	details see page 28-29)
Double strokes*	5 million
Temperature,	R min.
trom/to IV( )	Itactor v di

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
* Higher number of double strokes? Service life calculation online ► www.igus.eu/chainflexlife			

## Typical application areas

- For heavy-duty applications, Class 6
- Unsupported travels and up to 400m and more for gliding applications, Class 6
- Almost unlimited resistance to oil, also with bio-oils, Class 4
- No torsion, Class 1

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- Indoor and outdoor applications with average sun radiation
- Storage and retrieval units for high-bay warehouses, machining units/machine tools, quick handling, cleanroom, semiconductor insertion, indoor cranes, low temperature applications



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0811-404), bio-oil-resistant (following VDMA sted by DEA), Class 4 t paint adhesion (following PV 3.10.7 – status

36-month chainflex cable guarantee and billion test cycles per year" .00300/19

C) No. 1907/2006 (REACH)

RoHS-III)

ter jacket material of this series complies with ding to standard DIN EN ISO 14644-1

ations of the United Kingdom (as at 08/2021)

bles of the CFKoax1 series are comparable to MIL-C-17/94-RG179 and thus fit into an

bles of the CFKoax2 series are comparable to MIL-C-17/28-RG58 and thus fit into an

bles of the CFKoax3 series are comparable to MIL-C-17/93-RG178 and thus fit into an



igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year

de<sup>1</sup>177

UL-verified chainflex<sup>®</sup> guarantee ... www.igus.eu/ul-verified

CFKoax TPE





# Coax cable | TPE | chainflex<sup>®</sup> CFKoax

### **Basic requirements** Travel distance unsupported Oil resistance Torsion

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### Example image

Part No.	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. G = with green-yellow earth core x = without earth core

Part No.	Characteristic wave impedance approx. [Ω]	Core identification	Colour outer jacket
CFKoax1.01	75	red	Steel-blue (similar to RAL 5011)
CFKoax1.05	75	red, green, blue, white, black	Steel-blue (similar to RAL 5011)
CFKoax2.01	50		Jet black (similar to RAL 9005)
CFKoax3.01	50		Window-grey (similar to RAL 7040)



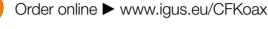
# Cables available in the chainflex<sup>®</sup> CASE

Simple savings on delivery, storage space and re-ordering with the chainflex<sup>®</sup> CASE - ship'n store by igus<sup>®</sup>.

More on this on page 24/25 and online: www.igus.eu/cf-case







Class 6.6.4.1

Delivery time 24hrs or today. Delivery time means time until goods are shipped.



Coax cable and other chainflex<sup>®</sup> cables in a stage technology application. e-chain<sup>®</sup>: E4/4 system

## EPLAN download, configurators ► www.igus.eu/CFKOAX

36-month guarantee ... more than 1,350 cable types from stock ... no cutting charges 178



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CFKoax TPE



EAE

REACH

RoHS

clean-room

CE

UK CA





UL-verified chainflex® guarantee ... www.igus.eu/ul-verified

