TPE Coax cable | CF Koax

- 50/75 Ω coax cable for maximum load requirements
- TPE outer jacket
- oil-resistant
- biooil-resistant
- UV-resistant
- hydrolysis-resistant and microbe-resistant

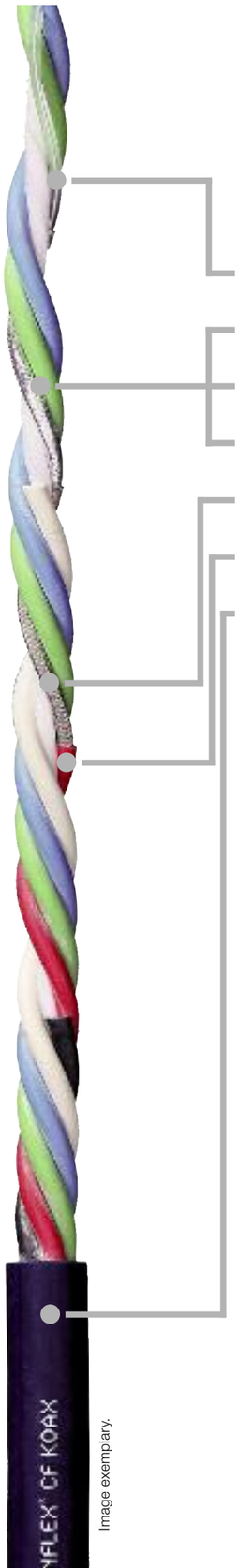

Image exemplary.

Conductor	Multi-wire; adapted in single-wire diameter and pitch length to suit the requirements in energy chains®.
Core insulation	Special FEP-isolating mixture.
Core stranding	Cores stranded in one layer with especially short pitch length.
Identification	Coaxial elements ▶ Schedule delivery program
Element shield	Extremely bending-resistant braiding made of tinned copper wires. Coverage approx. 70% linear, approx. 90% optical.
Element jacket	TPE mixture adapted to suit the requirements in energy chains®.
Outer jacket	Low-adhesion mixture on the basis of TPE, especially abrasion-resistant and highly flexible, adapted to suit the requirements in energy chains®. Colour ▶ Schedule delivery program
Bending radius	**moved** minimum 10 x d **fixed** minimum 7,5 x d
Temperature	**moved** -35 °C to +100 °C **fixed** -40 °C to +100 °C
v max. unsupported/gliding	10 m/s, 5 m/s
a max.	100 m/s²
Travel distance	Freely suspended travel distances and up to 400 m for gliding applications, Class 5
UV-resistant	High
Nominal voltage	500 V (following DIN VDE 0245)
Testing voltage	1500 V
Oil	Oil-resistant (following DIN EN 60811-2-1), biooil-resistant (following VDMA 24568 with Plantocut 8 S-MB tested by DEA), Class 4.
Silicon-free	Free from silicon which can affect paint adhesion (following PV 3.10.7 – status 1992).
CE	Following 2006/95/EG

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1030 types from stock no cutting costs ...

(for up to 10 cuts of the same type)

Class 6.5.4 (6 maximum load requirements 5 travel distance up to 400 m 4 oil-resistant)

CFKoax
TPE
10 x d

Lead free	Following 2011/65/EC (RoHS-II)
Clean room	According to ISO Class 1. Outer jacket material complies with CF9.15.07, tested by IPA according to standard 14644-1
EAC	Certified according to N° TC RU C-DE.ME77.B.00960
Info	The coax elements used in cables of the CFKoax1 series are comparable with a HF75-0.3/1.6 according to MIL-C-17/94-RG179 and thus fit in an RG179 plug! The coax elements used in cables of the CFKoax2 series are comparable with a HF50-0,9/2,95 according to MIL-C-17/28-RG58 and thus fit in an RG58 plug! The coax elements used in cables of the CFKoax3 series are comparable with a HF50-0,3/0,84 according to MIL-C-17/93-RG178 and thus fit in an RG178 plug!

New! Guaranteed lifetime for this series according to the "chainflex® guarantee club" conditions ▶ Page 22-25

Double strokes*					5 million	7,5 million	10 million
Temperature, from/to [°C]	v max. [m/s] unsupported	v max. [m/s] gliding	a max. [m/s²]	Travel distance [m]	*R* min. [factor x d]	*R* min. [factor x d]	*R* min. [factor x d]
-35 / -25	10	5	100	≤ 400	12,5	13,5	14,5
CFKoax1/3 - 25 / +90 **CFKoax2** -25 / +60					10	11	12
CFKoax1/3 +90 / +100 **CFKoax2** +60 / +70					12,5	13,5	14,5

* higher number of double strokes possible

Typical application area

- for maximum load requirements
- almost unlimited resistance to oil, also with bio-oils
- Indoor and outdoor applications, UV-resistant
- freely suspended travel distances and up to 400 m for gliding applications
- Storage and retrieval units for high-bay warehouses, machining units/machine tools, quick handling, clean room, semiconductor insertion, indoor cranes, low-temperature applications

Coax cables and other chainflex® cables in platform technology. e-chain®: System E4/4

... no minimum order quantity ...

TPE Coax cable | CF Koax

Class 6.5.4 (6 maximum load requirements 5 travel distance up to 400 m 4 oil-resistant)

CFKoax
TPE
10 x d

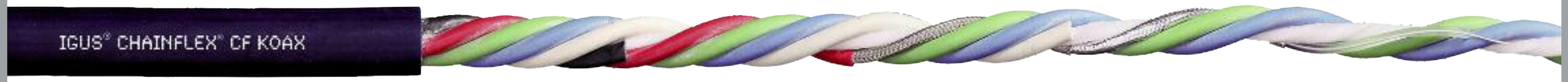

Image exemplary.

Delivery program Part No.	Coaxial elements	External diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CFKoax1.01	1	4,5	7	23
CFKoax1.05	5	10,0	35	112
CFKoax2.01	1	5,5	20	37
CFKoax3.01	1	3,5	5	12

Note: The mentioned external diameters are maximum values and may tend toward lower tolerance limits.

Part No.	Characteristic wave impedance approx. [Ω]	Conductor/ Core diameter [mm]	Colour code	Colour Outer Jacket (similar to RAL)
CFKoax1.01	75	0,3/1,6	red	Steel blue 5011
CFKoax1.05	75	0,3/1,6	red, green, blue, white, black	Steel blue 5011
CFKoax2.01	50	0,9/2,95	-	Jet black 9005
CFKoax3.01	50	0,3/0,84	-	Window grey 7040

Order example: CFKoax1.01 – in your desired length (0,5 m steps)
CF Koax1 chainflex® series **.01** Number of coaxial elements

prices price list online
www.chainflex.eu/CFKOAX1

delivery time despatched in 24 hours or today

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1030 types from stock no cutting costs ...
(for up to 10 cuts of the same type)

... no minimum order quantity ...

igus® GmbH Cologne | Tel. +49(0)2203/9649-800 Fax -222 | info@igus.de | www.chainflex.eu