### 03/2024

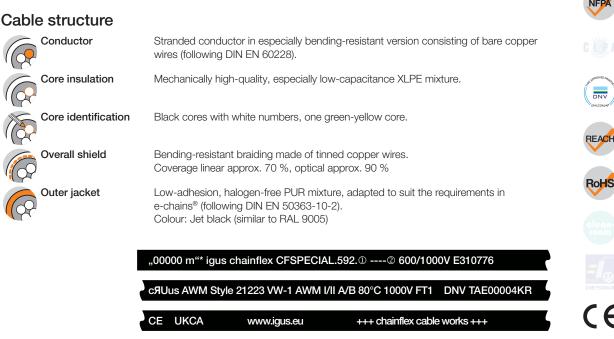
Example image

## Data sheet chainflex<sup>®</sup> CFSPECIAL.592

Hybrid cable for TopDrive applications | For heavy duty applications, PUR outer jacket, shielded, oil-resistant and coolant-resistant, flame retardant, PVC and halogen-free, UV-resistant, hydrolysis and microbe-resistant

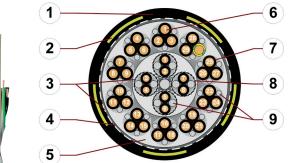
Example image For detailed overview please see design table

- 1. Outer jacket: Pressure extruded PUR mixture
- 2. Reinforcement: Tensile strength aramid braiding (embedded in the outer jacket)
- 3. Banding: Plastic fleece
- 4. Overall shield: Bending-resistant braiding made of tinned copper wires
- 5. Inner jacket: Pressure extruded, gusset-filling TPE mixture
- 6. Conductor: Fine-wire strand in especially bending-stable version consisting of bare copper wires
- 7. Core insulation: Mechanically high quality XLPE mixture
- 8. Element shield: Bending-resistant braiding made of tinned copper wires
- 9. Strain relief: Tensile stress-resistant centre element



\* Length printing: Not calibrated. Only intended as an orientation aid. 1 / 2 Cable identification according to Part No. (see technical table). Example: ... chainflex CFSPECIAL.592.001 (30G4,0+4x(2x2,5)C)C 600/1000V ...

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E.	Dynamic information	n	
	Bend radius	e-chain® linear flexible fixed	minimum 10 x d minimum 8 x d minimum 5 x d
	Temperature	e-chain® linear flexible fixed	-25 °C up to +80 °C -40 °C up to +80 °C (following DIN EN 60811-504) -50 °C up to +80 °C (following DIN EN 50305)
	v max.	unsupported gliding	10 m/s 2 m/s
	a max.	50 m/s <sup>2</sup>	
	Travel	For hanging TopDri	ve applications up to 50 m
	These values are based on spec	ific applications or te	sts. They do not represent the limit of what is technically feasible.
	Electrical informatio	n	
	Kominal voltage	600/1000 V (followi 1000 V (following U	ing DIN VDE 0298-3) IL)
	Testing voltage	4000 V (following D	DIN EN 50395)
kampe mage igus° chainflex° CFSPECIAL.532			

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est.	Properties and app	rovals	
	UV resistance	High	
1	Oil resistance	Oil-resistant (following DIN EN 50363-10-2)	
	Offshore	MUD-resistant following NEK 606 - status 2009	
	Flame retardant	According to IEC 60332-1-2, FT1, VW-1	
	Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)	
	Halogen-free	Following DIN EN 60754	cRLus
intu.	PFAS-free	Use of PFAS-free materials according to the content of the REACH directive and its rules for the production and processing of chemical substances	(néc)
	UL/CSA AWM	Details see table UL/CSA AWM	C NEPP
	NFPA	Following NFPA 79-2018, chapter 12.9	NFPA
		Type Approval Certificate TAE00004G3	
	REACH	In accordance with regulation (EC) No. 1907/2006 (REACH)	CARLOW DIVED MICH
***	Lead-free	Following 2011/65/EC (RoHS-II/RoHS-III)	REACH
***	CECE	Following 2014/35/EU	RoHS

## Properties and approvals

#### UL/CSA AWM details

Conductor nominal cross section [mm²]	UL style core insulation	UL style outer jacket	UL Temperature Rating [°C]	UL Voltage Rating [V]	
2.5	30054	21223	80	1000	(
4.0	30054	21223	80	1000	

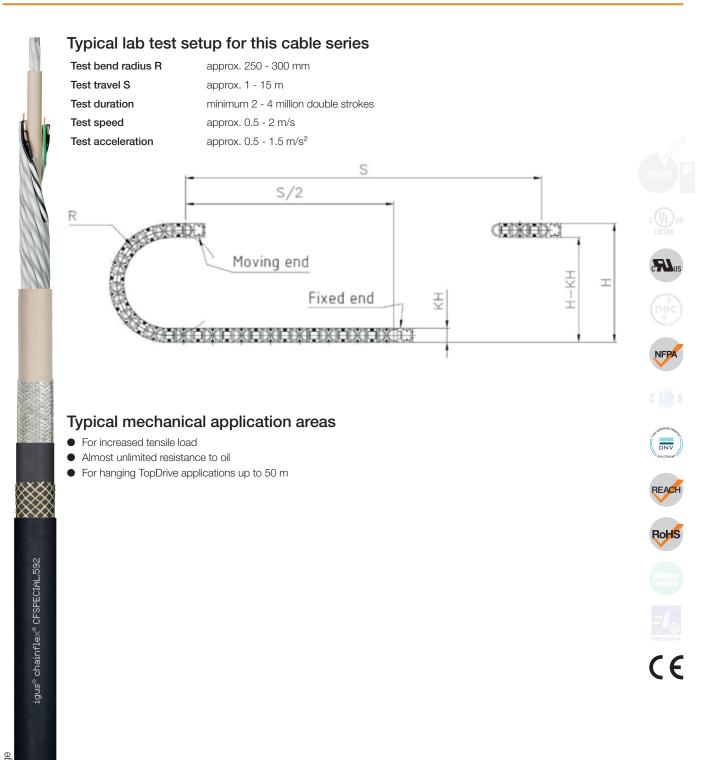
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## Technical tables:

Mechanical information

Part No.	Number of cores and conductor nominal cross section [mm <sup>2</sup> ]	Outer diameter maximum [mm]	Copper index [kg/km]	Weight [kg/km]
CFSPECIAL.592.001	(30G4.0+4x(2x2.5)C)C	44.0	1749	2629

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

#### Electrical information

Conductor nominal cross section [mm²]	Maximum conductor resistance at 20 °C (following DIN EN 50289-1-2) [Ω/km]	Max. current rating at 30 °C [A]
2.5	7.98	30
4.0	4.95	41

The final maximum current rating depends among other things on the ambient conditions, the type of the installation and the number of loaded cores.

# Design tablePart No.Core groupColour codeCore designA0G4.0Black cores with white numbers 1-29, one green-yellow coreImage: CFSPECIAL.592.001Image: CFSPECIAL.592.0014x(2x2.5)CBlack cores with white numbers 1-8

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