03/2024

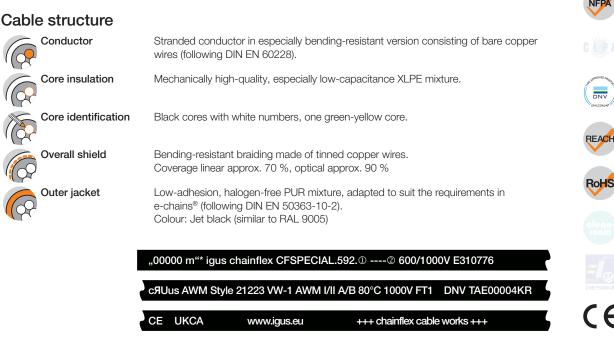
Example image

Data sheet chainflex[®] 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

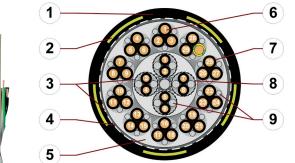
Example image For detailed overview please see design table

- 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 ²	
	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	

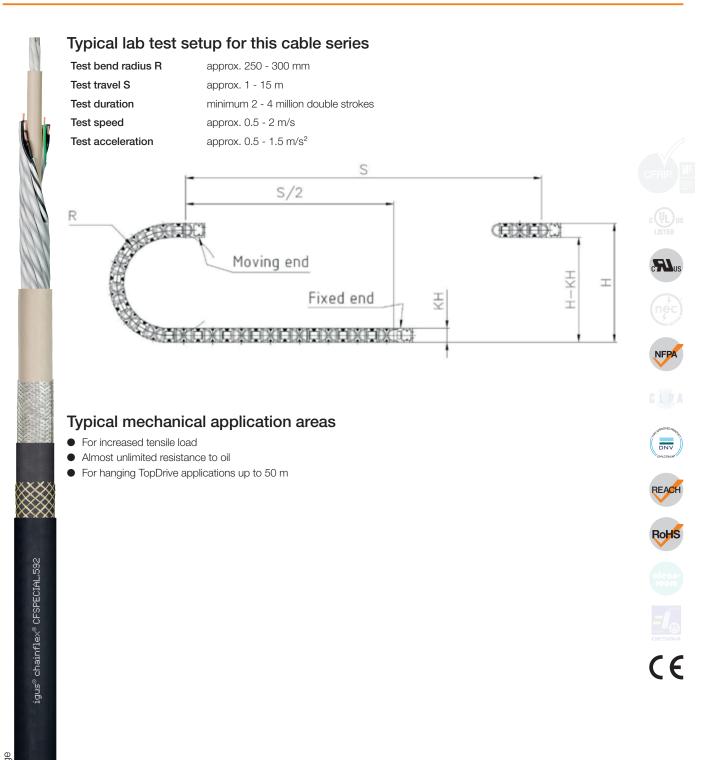
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Technical tables:

Mechanical information

Part No.	Number of cores and conductor nominal cross section [mm ²]	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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