






Hybrid cable for top drive applications | PUR

chainflex® CFSPECIAL.592






- For top drive 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

Now with DNV approval for top drive hanging applications up to 50m


Dynamic information

 Bend radius	e-chain® linear flexible	minimum 10 x d
	fixed	minimum 8 x d
	e-chain® linear flexible	minimum 5 x d
 Temperature	e-chain® linear flexible	-25°C up to +80°C
	fixed	-40°C up to +80°C (following DIN EN 60811-504)
	fixed	-50°C up to +80°C (following DIN EN 50305)
 v max.	unsupported	10m/s
	sliding	2m/s
 a max.		50m/s ²
 Travel distance		For top drive hanging applications up to 50m



Cable structure

 Conductor	Stranded conductor in especially bending-resistant version consisting of bare copper wires (following DIN EN 60228).
 Core insulation	Mechanically high-quality, especially low-capacitance XLPE mixture.
 Inner jacket	Mechanically high-quality TPE mixture.
 Overall shield	Extremely bending-resistant braiding made of tinned copper wires. Coverage linear approx. 70%, optical approx. 90%
 Outer jacket	1. Outer jacket: PUR mixture adapted to suit the requirements in e-chains®. Reinforcement: High tensile strength aramid braid embedded in the outer jacket. 2. Outer jacket: Low-adhesion, halogen-free PUR mixture, highly abrasion and bending-resistant, adapted to suit the requirements in top drive hanging applications (following DIN EN 50363-10-2). Colour: jet black (similar to RAL 9005)

Electrical information

 Nominal voltage	600/1,000V (following DIN VDE 0298-3) 1,000V (following UL)
 Testing voltage	4,000V (following DIN EN 50395)

Properties and approvals

 UV resistance	High
 Oil resistance	Oil-resistant (in accordance with DIN EN 50363-10-2)
 Offshore	MUD-resistant following NEK 606 - status 2016
 Flame-retardant	According to IEC 60332-1-2, Cable Flame, VW-1, FT1, FT2 / Horizontal Flame
 Silicone-free	Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992)
 Halogen-free	Following DIN EN 60754
 UL verified	Certificate No. B129699: „igus 36-month chainflex cable guarantee and service life calculator based on 2 billion test cycles per year“
 UL/CSA AWM	See data sheet for details ► www.igus.eu/CFSPECIAL592
 NFPA	Following NFPA 79-2018, chapter 12.9
 DNV	Type Approval Certificate TAE00004KR
 REACH	In accordance with regulation (EC) No. 1907/2006 (REACH)
 Lead-free	Following 2011/65/EC (RoHS-II)
 CE	Following 2014/35/EU
 UKCA	In accordance with the valid regulations of the United Kingdom (as at 08/2021)

Typical application areas

- For high tensile loads
- Almost unlimited resistance to oil
- For top drive hanging applications up to 50m

Part No.	Number of cores and conductor nominal cross section [mm ²]	Outer diameter (d) max. [mm]	Copper index [kg/km]	Weight [kg/km]
CFSPECIAL.592.001	(30G4.0+4x(2x2.5)C)C	44.0	1,750	2630

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



Example image

