PVC | iguPUR | **PUR** | TPE

New

Hybrid cable for hanging applications | PUR

chainflex® CFSPECIAL.192

- For high tensile loads
- PUR outer jacket
- Shielded
- Oil-resistant and coolant-resistant
- Flame-retardant
- PVC and halogen-free
- Notch-resistant
- Hydrolysis and microbe-resistant

Especially for MOVILINK® DDI technology from SEW-EURODRIVE

Dynamic information

Bend radius	**e-chain® linear**	minimum 10 x d
	flexible	minimum 8 x d
	fixed	minimum 5 x d
Temperature	**e-chain® linear**	-25°C up to +80°C
	flexible	-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
	gliding	2m/s
a max.		50m/s²
Travel distance		For hanging applications up to 50 m

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.
HF50-0.9/2.95: Special PE mixture.

Core structure
Power cores and control pair elements wound with a short pitch length around a high tensile strength centre element.

Core identification
According to Servo-Hybrid specification.
Current data sheet ▶ www.igus.eu/CFSPECIAL192

Element shield
Bending-resistant braiding made of tinned copper wires.

Inner jacket
TPE mixture adapted to suit the requirements in e-chains®.

Overall shield
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 hanging applications (following DIN EN 50363-10-2).
Colour: Pastel orange (similar to RAL 2003)

Electrical information

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

Example image

Properties and approvals

Oil resistance	Oil-resistant (following DIN EN 50363-10-2), Class 3
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/CFSPECIAL192
NFPA	Following NFPA 79-2018, chapter 12.9
REACH	In accordance with regulation (EC) No. 1907/2006 (REACH)
Lead-free	Following 2011/65/EC (RoHS-II/RoHS-III)
DESINA	According to VDW, DESINA standardisation
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
- For hanging applications up to 50 m
- Almost unlimited resistance to oil
- Storage and retrieval units, hanging control units, lifts

Part No.	Number of cores and conductor nominal cross section [mm²]	Outer diameter (d) max. [mm]	Copper index [kg/km]	Weight [kg/km]
CFSPECIAL.192.H207.15.04	(4G1.5+2x(2x1.0)C +HF50-0.9/2.95)C	17.0	199	377

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

CFSP.192
PUR
10 x d