










Control cable | PVC | chainflex® CF880

- For flexing applications
- PVC outer jacket
- Flame retardant


Dynamic information

| | | | |
|-----------------------------------------------------------------------------------|------------------------|--------------------------------------------------|----------------------------------------------|
|  | Bend radius | e-chain® | minimum 12.5 x d |
| | | flexible | minimum 10 x d |
|  | Temperature | fixed | minimum 7 x d |
| | | e-chain® | +5 °C to +70 °C |
| | | flexible | +5 °C to +70 °C (following DIN EN 60811-504) |
| | | fixed | -15 °C to +70 °C (following DIN EN 50305) |
|  | v max. | unsupported | 3 m/s |
| | | a max. | 20 m/s ² |
|  | Travel distance | Unsupported travel distances up to 10 m, Class 1 | |

Cable structure

| | | |
|------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------------------------------------------------------|
|  | Conductor | Conductor consisting of bare copper wires (following DIN EN 60228). |
|  | Core insulation | Mechanically high-quality PVC mixture. |
|  | Core structure | Cores wound with an optimised pitch length. |
|  | Core identification | Black cores with white numerals, one core green-yellow. |
|  | Outer jacket | Low-adhesion PVC mixture, adapted to suit the requirements in e-chains®. Colour: Jet black (similar to RAL 9005) |









Electrical information

| | | |
|-------------------------------------------------------------------------------------|------------------------|---------------------------------|
|  | Nominal voltage | 300/500 V |
|  | Testing voltage | 2000 V (following DIN EN 50395) |

Class 3.1.1.1

| | | | | | | | | | |
|--------------------|-------------|---|---|---|---|---|---|---|---------|
| Basic requirements | low | 1 | 2 | 3 | 4 | 5 | 6 | 7 | highest |
| Travel distance | unsupported | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ≥ 400 m |
| Oil resistance | none | 1 | 2 | 3 | 4 | 5 | 6 | 7 | highest |
| Torsion | none | 1 | 2 | 3 | 4 | 5 | 6 | 7 | ±180° |

Properties and approvals

| | | |
|-------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------------------|
|  | Flame retardant | According to IEC 60332-1-2, CEI 20-35, FT1, VW-1 |
|  | Silicone-free | Free from silicone which can affect paint adhesion (following PV 3.10.7 – status 1992). |
|  | UL/CSA | Style 11008 and 2464, 300 V, 80 °C |
|  | NFPA | Following NFPA 79-2012 chapter 12.9. |
|  | EAC | Certificate no. RU C-DE.ME77.B.01560 (TR SU) |
|  | CTP | Certificate no. C-DE.PB49.B.00449 (Fire safety) |
|  | Lead-free | Following 2011/65/EU (RoHS-II). |
|  | CE | Following 2014/35/EU. |

Guaranteed lifetime according to guarantee conditions (Page 22-23)

| Double strokes* | 1 million | 3 million | 5 million |
|---------------------------|---------------------|---------------------|---------------------|
| Temperature, from/to [°C] | R min. [factor x d] | R min. [factor x d] | R min. [factor x d] |
| +5/+15 | 15 | 16 | 17 |
| +15/+60 | 12.5 | 13.5 | 14.5 |
| +60/+70 | 15 | 16 | 17 |

* Higher number of double strokes? Online lifetime calculation: www.igus.eu/chainflexlife

Typical mechanical application areas

- For flexing applications, Class 3
- Without influence of oil, Class 1
- Preferably indoor applications
- Especially for unsupported travels, Class 1
- Wood/stone processing, Packaging industry, supply systems, Handling, adjusting equipment



Example image



igus® chainflex® CF880



Example image

| Part No. | Number of cores and conductor nominal cross section [mm²] | Outer diameter (d) max. mm | Copper index kg/km | Weight kg/km |
|-------------|-----------------------------------------------------------|----------------------------|--------------------|--------------|
| CF880.05.02 | 2x0.5 | 5.5 | 11 | 38 |
| CF880.05.03 | 3G0.5 | 6.0 | 16 | 45 |
| CF880.05.04 | 4G0.5 | 6.5 | 22 | 54 |
| CF880.05.05 | 5G0.5 | 7.0 | 27 | 67 |
| CF880.05.07 | 7G0.5 | 8.5 | 37 | 99 |
| CF880.05.12 | 12G0.5 | 9.5 | 64 | 145 |
| CF880.05.18 | 18G0.5 | 11.5 | 96 | 211 |
| CF880.05.25 | 25G0.5 | 13.5 | 132 | 291 |
| CF880.07.02 | 2x0.75 | 6.0 | 16 | 47 |
| CF880.07.03 | 3G0.75 | 6.5 | 24 | 56 |
| CF880.07.04 | 4G0.75 | 7.0 | 32 | 69 |
| CF880.07.05 | 5G0.75 | 7.5 | 40 | 84 |
| CF880.07.07 | 7G0.75 | 9.0 | 56 | 125 |
| CF880.07.12 | 12G0.75 | 10.5 | 96 | 186 |
| CF880.07.18 | 18G0.75 | 13.0 | 143 | 278 |
| CF880.07.25 | 25G0.75 | 15.0 | 198 | 384 |
| CF880.10.02 | 2x1.0 | 6.5 | 22 | 54 |
| CF880.10.03 | 3G1.0 | 6.5 | 32 | 68 |
| CF880.10.04 | 4G1.0 | 7.0 | 43 | 83 |
| CF880.10.05 | 5G1.0 | 8.0 | 53 | 101 |
| CF880.10.07 | 7G1.0 | 9.5 | 74 | 153 |
| CF880.10.12 | 12G1.0 | 11.5 | 127 | 229 |
| CF880.10.18 | 18G1.0 | 13.5 | 191 | 334 |
| CF880.10.25 | 25G1.0 | 16.0 | 264 | 471 |
| CF880.15.02 | 2x1.5 | 7.5 | 32 | 83 |
| CF880.15.03 | 3G1.5 | 8.5 | 48 | 106 |
| CF880.15.04 | 4G1.5 | 9.0 | 64 | 131 |
| CF880.15.05 | 5G1.5 | 10.0 | 80 | 166 |
| CF880.15.07 | 7G1.5 | 12.5 | 111 | 250 |
| CF880.15.12 | 12G1.5 | 14.5 | 191 | 372 |
| CF880.15.18 | 18G1.5 | 17.5 | 286 | 548 |
| CF880.15.25 | 25G1.5 | 21.0 | 396 | 768 |
| CF880.25.03 | 3G2.5 | 9.0 | 80 | 147 |
| CF880.25.04 | 4G2.5 | 10.0 | 106 | 189 |
| CF880.25.05 | 5G2.5 | 11.5 | 132 | 235 |
| CF880.25.07 | 7G2.5 | 14.0 | 185 | 354 |
| CF880.25.12 | 12G2.5 | 16.5 | 317 | 533 |
| CF880.25.25 | 25G2.5 | 24.0 | 660 | 1112 |

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



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