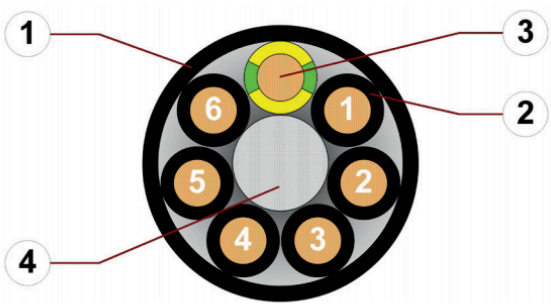
PRODUCT TECHNICAL SPECIFICATION

CF880 Flexible Control Cable

PVC-sheathed, flame-retardant control cable for flexing applications and e-chain installations.



Reliable control for moving systems

Designed for flexing applications with a mechanically high-quality TPE core insulation, bare copper stranded conductors, optimized core lay and a pressure-extruded low-adhesion PVC outer jacket.

- 300/500 V nominal voltage
- Flame-retardant
- PVC outer jacket
- Up to 10 m unsupported travel

−15 to +70 °C
Fixed-installation temperature range

3 m/s
Maximum unsupported speed

37 models
Complete technical schedule

01 / Cable Design & Operating Data

CF880 is a control cable for flexing applications, especially unsupported travel. It is intended for indoor applications without oil influence and without torsion.

CABLE STRUCTURE

Conductor	**Stranded bare copper wires according to DIN EN 60228**
Core insulation	**Mechanically high-quality TPE mixture**
Core structure	**Cores wound with optimized pitch length**
Core identification	**Black cores with white numbers; one green-yellow core**
Outer jacket	**Low-adhesion PVC mixture; jet black, similar to RAL 9005; white printing**

DYNAMIC INFORMATION

Bend radius, linear e-chain	**Minimum 12.5 × d**
Bend radius, flexible	**Minimum 10 × d**
Bend radius, fixed	**Minimum 7 × d**
Temperature, linear	**+5 to +70 °C**
Temperature, flexible / fixed	**−5 to +70 °C / −15 to +70 °C**
Maximum acceleration	**20 m/s²**

ELECTRICAL INFORMATION

Nominal voltage	**300/500 V; 300 V according to UL**
Testing voltage	**2,000 V according to DIN EN 50395**

SERVICE-LIFE INFORMATION

Guaranteed service life reference	**1, 3 or 5 million double strokes**
Recommended installation	**Middle temperature range**
Unsupported travel	**Up to 10 m, Class 1**

Application note: The stated dynamic values are based on specific applications or tests. They do not represent the limit of what is technically feasible.

02 / Properties, Approvals & Applications

PROPERTIES AND APPROVALS

Flame-retardant	**IEC 60332-1-2; VW-1, FT1, FT2 / Horizontal Flame**
Silicone-free	**Yes; suitable where paint adhesion may be affected**
PFAS-free	**Design does not contain PTFE**
UL/CSA AWM	**UL style core insulation 10493; outer jacket 2464**
NFPA	**NFPA 79-2018, Chapter 12.9**
REACH	**EC Regulation 1907/2006**
Lead-free	**2011/65/EC, RoHS-II / RoHS-III**
CE	**2014/35/EU**

UL / CSA AWM DETAILS

0.5 mm²	**2–25 cores; 300 V; 80 °C**
0.75 mm²	**2–25 cores; 300 V; 80 °C**
1.0 mm²	**2–25 cores; 300 V; 80 °C**
1.5 mm²	**2–25 cores; 300 V; 80 °C**
2.5 mm²	**3–12 cores; 300 V; 80 °C**

TYPICAL LABORATORY TEST SETUP

Test bend radius R	**Approx. 75–225 mm**
Test travel S	**Approx. 1–15 m**
Test duration	**Minimum 2–4 million double strokes**
Test speed	**Approx. 0.5–2 m/s**
Test acceleration	**Approx. 0.5–1.5 m/s²**

TYPICAL APPLICATION AREAS

Flexing applications	**Class 3**
Unsupported travels	**Especially suitable; Class 1**
Oil influence	**Without influence of oil; Class 1**
Torsion	**No torsion; Class 1**
Industries	**Wood/stone processing, packaging, feeding, handling and adjusting devices**

03 / Technical Schedule

Mechanical information. Outer diameters are maximum values and may tend toward lower tolerance limits. “G” means a green-yellow earth core; “×” means without earth core.

Part number	Cores & nominal cross section [mm²]	Outer diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF880.05.02	2×0.5	5.0	11	32
CF880.05.03	3G0.5	5.5	16	37
CF880.05.04	4G0.5	6.0	21	46
CF880.05.05	5G0.5	6.5	26	55
CF880.05.07	7G0.5	7.5	37	73
CF880.05.12	12G0.5	8.5	63	108
CF880.05.18	18G0.5	10.0	94	158
CF880.05.25	25G0.5	12.0	128	227
CF880.07.02	2×0.75	5.5	16	40
CF880.07.03	3G0.75	6.0	24	49
CF880.07.04	4G0.75	6.5	32	61
CF880.07.05	5G0.75	7.0	40	73
CF880.07.07	7G0.75	8.0	56	99
CF880.07.12	12G0.75	10.0	94	152
CF880.07.18	18G0.75	11.5	140	167
CF880.07.25	25G0.75	13.5	194	284
CF880.10.02	2×1.0	6.0	21	48
CF880.10.03	3G1.0	6.5	32	58
CF880.10.04	4G1.0	7.0	42	62
CF880.10.05	5G1.0	7.5	52	86
CF880.10.07	7G1.0	8.5	73	116
CF880.10.12	12G1.0	10.5	124	182
CF880.10.18	18G1.0	12.5	186	278
CF880.10.25	25G1.0	15.0	258	393

Application note: The stated dynamic values are based on specific applications or tests. They do not represent the limit of what is technically feasible.

03 / Technical Schedule · Continued

Part number	Cores & nominal cross section [mm²]	Outer diameter max. [mm]	Copper index [kg/km]	Weight [kg/km]
CF880.15.02	2×1.5	6.5	32	64
CF880.15.03	3G1.5	7.0	47	82
CF880.15.04	4G1.5	7.5	63	104
CF880.15.05	5G1.5	8.5	78	120
CF880.15.07	7G1.5	10.0	109	167
CF880.15.12	12G1.5	12.0	186	260
CF880.15.18	18G1.5	14.5	279	370
CF880.15.25	25G1.5	17.5	387	514
CF880.25.03	3G2.5	8.5	78	120
CF880.25.04	4G2.5	9.0	103	150
CF880.25.05	5G2.5	10.0	129	184
CF880.25.07	7G2.5	12.0	181	256
CF880.25.12	12G2.5	15.0	327	414

ELECTRICAL INFORMATION

0.5 mm² conductor	**39 Ω/km maximum resistance; 10 A maximum current at 30 °C**
0.75 mm² conductor	**26 Ω/km; 13 A**
1.0 mm² conductor	**19.5 Ω/km; 15 A**
1.5 mm² conductor	**13.3 Ω/km; 19 A**
2.5 mm² conductor	**8 Ω/km; 27 A**

Current rating note: Final maximum current depends on ambient conditions, installation method and the number of loaded cores.

04 / Selection & Contact

CF880 is intended for reliable signal and control transmission in moving industrial equipment. Confirm the selected part number, installation geometry, temperature range and dynamic conditions before ordering.

SPECIFIED HIGHLIGHTED PARTS

CF880.05.02	**Amber highlight · 2×0.5 · 5.0 mm · 11 kg/km copper · 32 kg/km**
CF880.05.04	**Violet highlight · 4G0.5 · 6.0 mm · 21 kg/km copper · 46 kg/km**
Core notation	**G = green-yellow earth core; × = without earth core**

DOCUMENT BASIS

Product family	**CF880 flexible control cable**
Application class	**Control cable, Class 3.1.1.1**
Jacket	**Flame-retardant PVC, jet black**
Technical revision	**Prepared September 2026**

SALES CONTACT

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WEBSITES

https://cranecable.com.au/
https://flexcable.ae/

This technical datasheet is prepared for product communication and preliminary selection. Values are reference data from the supplied specification. Final manufacturing requirements and installation conditions should be confirmed before production. The source brand name and source brand logo have not been included.