


# H-FLEX CTL C-PUR 250V

## Screened control cable for flexible use



**DESIGN:**  
**HELKAMA specification**

- 1. Conductor**
  - stranded copper conductor IEC 60228:2004 class5
  - tinned stranded copper conductor on request
- 2. Insulation**
  - XLPE plastic
- 3. Bedding**
  - separator tape
- 4. Screen**
  - copper wire braid, coverage > 94%
  - tinned copper wire braid on request
- 5. Sheath**
  - Polyurethane compound
  - standard colour black, other colours on request

**CE** **RoHS**

- Flame-retardant**
- Oil & chemical resistant**
- Halogen-free**
- Mud resistant**

**Application:** The cable is intended for flexible, portable, movable applications. Applications such as ship to shore cable, outdoor cranes and various industrial applications. It is suitable for flexible applications in machineries, machine tools, robot technics and can be submersed into water. The cable has good mechanical characteristics, high tensile strength, is abrasion resistant and resistant to UV, chemicals, oil and other fluids. The cable can be coiled back and forth. Suitable to dragchain use. Mud resistant according to NEK606.

### Main characteristics

Rated voltage	<b>150/250V (300V)</b>
Maximum conductor temperature	<b>90 °C</b>
Flame-retardant	<b>IEC 60332-1-2</b> -test for single insulated wire and cable
Halogen-free	<b>IEC 60754</b> series
Mechanical flex test	<b>EN 50396</b> -conditions according to EN 50525
Oil resistancy	<b>EN 60811-404</b> -conditions according to EN 50363-10-2
Operating temperature	<b>-60 – +80 °C</b> fixed use <b>-35 – +80 °C</b> flexible use

### Mechanical

Min. bending radius  
 - fixed:  $4 \times d < 25 \text{ mm} < 6 \times d$   
 - mobile:  $6 \times d < 25 \text{ mm} < 8 \times d$   
 - s-shape deflection:  $15 \times d < 25 \text{ mm} < 20 \times d$   
 Max. tensile load without strength members  
 15 N/mm<sup>2</sup> of phases copper cross section

### Core identification

White insulation with black numbers

### Marine type approvals

DNV-GL, BV and ABS

H-FLEX CTL C-PUR 250V		Number of conductors & cross-section n x mm <sup>2</sup>	Cross-section of screen mm <sup>2</sup>	Nominal outer diameter mm	Approximate weight kg/km	Current Rating A
Part number Normal	G - type					
5400103020	---	2x0,5	3,5	7,5	70	8,7
5400103030	5400103031	3x0,5	3,6	7,5	80	7,6
5400103040	5400103041	4x0,5	3,6	8,0	85	6,9
5400103050	5400103051	5x0,5	3,6	9,0	100	6,4
5400103070	5400103071	7x0,5	3,6	9,0	110	5,8
5400103100	5400103101	10x0,5	4,4	11,5	150	5,1
5400103120	5400103121	12x0,5	4,5	12,0	165	4,8
5400103140	5400103141	14x0,5	4,8	12,5	185	4,6
5400103160	5400103161	16x0,5	5,3	13,5	210	4,4
5400103190	5400103191	19x0,5	5,3	13,5	230	4,1
5400103200	5400103201	20x0,5	5,9	13,5	245	4,1
5400103240	5400103241	24x0,5	6,5	16,0	290	3,8
5400103270	5400103271	27x0,5	6,6	16,5	310	3,7
5400103320	5400103321	32x0,5	6,9	17,0	345	3,5
5400103370	5400103371	37x0,5	7,4	18,0	385	3,3
5400104020	---	2x0,75	3,6	8,0	80	11,3
5400104030	5400104031	3x0,75	3,6	8,0	90	9,8
5400104040	5400104041	4x0,75	3,6	9,0	100	8,9
5400104050	5400104051	5x0,75	3,7	10,5	125	8,3
5400104070	5400104071	7x0,75	4,1	10,5	145	7,4
5400104100	5400104101	10x0,75	5,3	13,0	200	6,6
5400104120	5400104121	12x0,75	5,4	13,5	220	6,2
5400104140	5400104141	14x0,75	5,7	14,0	245	5,9
5400104160	5400104161	16x0,75	6,2	15,0	275	5,6
5400104190	5400104191	19x0,75	6,4	15,5	310	5,3
5400104200	5400104201	20x0,75	6,9	15,5	330	5,2
5400104240	5400104241	24x0,75	7,7	18,0	380	4,9
5400104270	5400104271	27x0,75	7,9	18,5	420	4,7
5400104320	5400104321	32x0,75	8,2	19,0	470	4,5
5400104370	5400104371	37x0,75	8,9	20,0	530	4,3