


H-FLEX CTL PUR 250V

Unscreened 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. 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	150/250V (300V)
Maximum conductor temperature	90 °C
Flame-retardant	IEC 60332-1-2 -test for single insulated wire and cable
Halogen-free	IEC 60754 series
Mechanical flex test	EN 50396 -conditions according to EN 50525
Oil resistancy	EN 60811-404 -conditions according to EN 50363-10-2
Operating temperature	-60 – +80 °C fixed use -35 – +80 °C 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/mm² of phases copper cross section

Core identification

White insulation with black numbers

Marine type approvals

DNV-GL, BV and ABS

H-FLEX CTL PUR 250V		Number of conductors & cross-section n x mm ²	Nominal outer diameter mm	Approximate weight kg/km	Current Rating A
Part number Normal	G - type				
5300103020	---	2x0,5	6,0	35	8,7
5300103030	5300103031	3x0,5	6,5	40	7,6
5300103040	5300103041	4x0,5	7,0	50	6,9
5300103050	5300103051	5x0,5	8,0	60	6,4
5300103070	5300103071	7x0,5	8,0	70	5,8
5300103100	5300103101	10x0,5	10,5	105	5,1
5300103120	5300103121	12x0,5	11,0	120	4,8
5300103140	5300103141	14x0,5	11,5	135	4,6
5300103160	5300103161	16x0,5	12,5	155	4,4
5300103190	5300103191	19x0,5	12,5	170	4,1
5300103200	5300103201	20x0,5	12,5	180	4,1
5300103240	5300103241	24x0,5	14,5	220	3,8
5300103270	5300103271	27x0,5	15,0	235	3,7
5300103320	5300103321	32x0,5	15,5	270	3,5
5300103370	5300103371	37x0,5	17,0	310	3,3
5300104020	---	2x0,75	7,0	40	11,3
5300104030	5300104031	3x0,75	7,0	50	9,8
5300104040	5300104041	4x0,75	7,5	65	8,9
5300104050	5300104051	5x0,75	9,0	80	8,3
5300104070	5300104071	7x0,75	9,0	95	7,4
5300104100	5300104101	10x0,75	12,0	145	6,6
5300104120	5300104121	12x0,75	12,0	165	6,2
5300104140	5300104141	14x0,75	13,0	190	5,9
5300104160	5300104161	16x0,75	14,0	215	5,6
5300104190	5300104191	19x0,75	14,0	240	5,3
5300104200	5300104201	20x0,75	14,0	255	5,2
5300104240	5300104241	24x0,75	16,5	305	4,9
5300104270	5300104271	27x0,75	17,0	335	4,7
5300104320	5300104321	32x0,75	17,5	385	4,5
5300104370	5300104371	37x0,75	19,0	440	4,3