

H-FLEX INS C-PUR 250V

Screened instrumentation and control cable for flexible use



HELKAMA H-FLEX INS C-PUR

DESIGN:
HELKAMA specification

1. Conductor - stranded copper conductor IEC 60228:2004 class5 - tinned stranded copper conductor on request 2. Insulation - XLPE plastic 3. Twisted pair - two insulated cores twisted together to form a pair - See next page for Quad 4. Screen - copper wire braid, coverage > 94% 5. Sheath - Polyurethane compound - standard colour black, other colours on request	CE  Flame-retardant  Oil & chemical resistant  Halogen-free  Mud resistant 
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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 submerged 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

Mechanical

	Min. bending radius
	- fixed: $4 \times d < 25 \text{ mm} < 6 \times d$
	- mobile: $8 \times d < 25 \text{ mm} < 10 \times d$
	- s-shape deflection: $15 \times d < 25 \text{ mm} < 20 \times d$
	Max. tensile load without strength members 15 N/mm^2
	of phases copper cross section
Operating temperature	-60 – +80 °C fixed use
	-35 – +80 °C flexible use

Core identification

White and blue insulation with black numbers

Marine type approvals

DNV-GL, BV and ABS

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H-FLEX INS C-PUR 250V	Number of conductors & cross-section n x mm ²	Nominal outer diameter mm	Approximate weight kg/km
Part number Normal			
5700103012	1x2x0,5	6,0	35
5700103013	1x3x0,5	6,5	40
5700103014	1x4x0,5	7,0	50
5700103022	2x2x0,5	9,0	55
5700103032	3x2x0,5	9,0	70
5700103042	4x2x0,5	10,5	95
5700103072	7x2x0,5	12,5	140
5700103082	8x2x0,5	13,0	160
5700103102	10x2x0,5	15,0	195
5700103122	12x2x0,5	15,5	230
5700103142	14x2x0,5	16,5	260
5700103162	16x2x0,5	17,5	290
5700103192	19x2x0,5	19,0	335
5700103242	24x2x0,5	21,5	430
5700103272	27x2x0,5	22,5	475
5700103302	30x2x0,5	23,5	520
5700103322	32x2x0,5	24,0	550
5700103372	37x2x0,5	26,0	630
5700104012	1x2x0,75	7,0	40
5700104013	1x3x0,75	7,0	50
5700104014	1x4x0,75	7,5	65
5700104022	2x2x0,75	10,0	80
5700104032	3x2x0,75	10,5	100
5700104042	4x2x0,75	11,5	125
5700104072	7x2x0,75	14,0	195
5700104082	8x2x0,75	15,0	225
5700104102	10x2x0,75	17,0	275
5700104122	12x2x0,75	18,0	320
5700104142	14x2x0,75	19,0	365
5700104162	16x2x0,75	20,0	410
5700104192	19x2x0,75	22,0	490
5700104242	24x2x0,75	24,5	610
5700104272	27x2x0,75	26,0	675
5700104302	30x2x0,75	27,0	750
5700104322	32x2x0,75	28,0	790
5700104372	37x2x0,75	29,5	895
5700107012	1x2x1,5	8,5	65
5700107013	1x3x1,5	9,0	85
5700107014	1x4x1,5	10,0	110
5700107022	2x2x1,5	13,0	135
5700107032	3x2x1,5	14,0	175
5700107042	4x2x1,5	15,0	215
5700107072	7x2x1,5	18,5	345
5700107082	8x2x1,5	20,0	395
5700107102	10x2x1,5	23,0	500
5700107122	12x2x1,5	24,0	580
5700107142	14x2x1,5	25,5	675
5700107162	16x2x1,5	27,0	755
5700107192	19x2x1,5	29,5	890
5700107242	24x2x1,5	33,0	1130
5700107272	27x2x1,5	35,0	1255
5700107302	30x2x1,5	36,5	1375
5700107322	32x2x1,5	38,0	1470
5700107372	37x2x1,5	40,0	1675
5700108012	1x2x2,5	10,0	100
5700108013	1x3x2,5	10,5	125
5700108014	1x4x2,5	11,5	155
5700108022	2x2x2,5	15,0	185
5700108032	3x2x2,5	15,5	245
5700108042	4x2x2,5	17,5	320
5700108072	7x2x2,5	21,0	520
5700108082	8x2x2,5	23,0	600
5700108102	10x2x2,5	26,0	750
5700108122	12x2x2,5	27,5	875
5700108142	14x2x2,5	29,5	1010
5700108162	16x2x2,5	31,5	1140
5700108192	19x2x2,5	34,0	1355
5700108242	24x2x2,5	38,0	1705
5700108272	27x2x2,5	40,0	1895
5700108302	30x2x2,5	42,5	2115
5700108322	32x2x2,5	44,0	2260
5700108372	37x2x2,5	46,5	2575