


H-FLEX PWR PUR 0,6/1kV

Unscreened power and control cable for flexible use



DESIGN:
HELKAMA specification

- 1. Conductor**
 - stranded copper conductor 1,0-300mm² IEC 60228:2004 class5
 - tinned stranded copper conductor on request
- 2. Insulation**
 - XLPE plastic
- 3. Bedding**
 - non-woven 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	AC 0,6/1kV (1,2kV)
	DC 0,9/1,5kV (if voltage to earth does not exceed 0,9kV)
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 x d < 25 mm < 6 x d
 - mobile: 6 x d < 25 mm < 8 x d
 - s-shape deflection: 15 x d < 25 mm < 20 x d
 Max. tensile load without strength members
 15 N/mm² of phases copper cross section

Core identification

Color code for 1...4 (5 if PE conductor) core cable,
 number code for 5...37 core cable.

Marine type approvals

DNV-GL, BV and ABS

H-FLEX PWR PUR 0,6/1kV		Number of conductors & cross-section n x mm²	Nominal outer diameter mm	Approximate weight kg/km	Current Rating A
Part number Normal	G - type				
5300105010	5300105011	1x1,0	5,0	30	17
5300107010	5300107011	1x1,5	5,5	35	22
5300108010	5300108011	1x2,5	6,0	45	30
5300109010	5300109011	1x4	6,5	60	39
5300110010	5300110011	1x6	7,0	80	50
5300111010	5300111011	1x10	8,0	125	71
5300112010	5300112011	1x16	9,0	175	94
5300113010	5300113011	1x25	11,5	275	123
5300114010	5300114011	1x35	12,5	370	153
5300115010	5300115011	1x50	14,5	510	196
5300116010	5300116011	1x70	16,5	715	240
5300117010	5300117011	1x95	18,0	930	284
5300118010	5300118011	1x120	20,5	1170	331
5300119010	5300119011	1x150	23,5	1480	381
5300120010	5300120011	1x185	25,5	1805	429
5300121010	5300121011	1x240	28,5	2395	507
5300122010	5300122011	1x300	32,0	2960	582
5300105020	–	2x1,0	8,0	55	14
5300107020	–	2x1,5	8,5	65	19
5300108020	–	2x2,5	10,0	100	26
5300109020	–	2x4	11,0	130	33
5300110020	–	2x6	12,0	195	43
5300111020	–	2x10	14,5	310	60
5300112020	–	2x16	16,5	445	80
5300113020	–	2x25	21,0	685	105
5300114020	–	2x35	23,0	925	130
5300115020	–	2x50	26,5	1285	167
5300116020	–	2x70	31,0	1790	204
5300105030	5300105031	3x1,0	8,5	70	12
5300107030	5300107031	3x1,5	9,5	90	15
5300108030	5300108031	3x2,5	10,5	125	21
5300109030	5300109031	3x4	11,5	170	27
5300110030	5300110031	3x6	13,0	255	35
5300111030	5300111031	3x10	15,5	400	50
5300112030	5300112031	3x16	18,0	580	66
5300113030	5300113031	3x25	22,5	920	86
5300114030	5300114031	3x35	24,5	1220	107
5300115030	5300115031	3x50	28,5	1720	137
5300116030	5300116031	3x70	33,5	2415	168
5300117030	5300117031	3x95	37,5	3140	199
5300118030	5300118031	3x120	42,0	3970	232
5300119030	5300119031	3x150	47,5	5010	267
5300120030	5300120031	3x185	52,5	6145	300
5300121030	5300121031	3x240	59,5	8190	355
5300122030	5300122031	3x300	67,0	10170	407
5300105040	5300105041	4x1,0	9,5	95	12
5300107040	5300107041	4x1,5	10,0	110	15
5300108040	5300108041	4x2,5	11,5	160	21
5300109040	5300109041	4x4	12,5	220	27
5300110040	5300110041	4x6	14,0	320	35
5300111040	5300111041	4x10	17,0	510	50
5300112040	5300112041	4x16	19,5	760	66
5300113040	5300113041	4x25	25,0	1195	86
5300114040	5300114041	4x35	27,0	1605	107
5300115040	5300115041	4x50	32,0	2265	137
5300116040	5300116041	4x70	37,0	3175	168
5300117040	5300117041	4x95	41,5	4145	199
5300118040	5300118041	4x120	46,5	5225	232
5300119040	5300119041	4x150	53,5	6630	267
5300120040	5300120041	4x185	59,0	8125	300
5300121040	5300121041	4x240	66,5	10830	355

Table continues on next page

H-FLEX PWR PUR 0,6/1kV		Number of conductors & cross-section n x mm²	Nominal outer diameter mm	Approximate weight kg/km	Current Rating A
Part number Normal	G - type				
5300105050	5300105051	5x1,0	10,0	115	10
5300107050	5300107051	5x1,5	11,0	135	13
5300108050	5300108051	5x2,5	12,5	200	17
5300109050	5300109051	5x4	14,0	270	23
5300110050	5300110051	5x6	15,5	395	29
5300111050	5300111051	5x10	19,0	630	41
5300112050	5300112051	5x16	21,5	920	55
5300113050	5300113051	5x25	27,5	1460	71
5300114050	5300114051	5x35	30,0	1965	89
5300115050	5300115051	5x50	35,5	2805	114
5300116050	5300116051	5x70	41,5	4000	139
5300117050	5300117051	5x95	46,0	5245	165
5300118050	5300118051	5x120	51,5	6735	192
5300119050	5300119051	5x150	59,5	8695	221
5300120050	5300120051	5x185	65,5	10850	249
5300105060	5300105061	6x1,0	11,0	150	0
5300107060	5300107061	6x1,5	12,0	155	0
5300108060	5300108061	6x2,5	13,5	235	0
5300105070	5300105071	7x1,0	11,0	145	9
5300107070	5300107071	7x1,5	12,0	170	11
5300108070	5300108071	7x2,5	13,5	260	15
5300109070	5300109071	7x4	15,0	360	20
5300110070	5300110071	7x6	17,0	520	26
5300111070	5300111071	7x10	20,5	845	37
5300112070	5300112071	7x16	24,0	1270	49
5300113070	5300113071	7x25	30,5	2030	64
5300105100	5300105101	10x1,0	14,0	205	8
5300107100	5300107101	10x1,5	15,5	250	10
5300108100	5300108101	10x2,5	17,5	370	14
5300105120	5300105121	12x1,0	14,5	230	7
5300107120	5300107121	12x1,5	16,0	280	10
5300108120	5300108121	12x2,5	18,0	425	13
5300105140	5300105141	14x1,0	15,5	265	7
5300107140	5300107141	14x1,5	16,5	320	9
5300108140	5300108141	14x2,5	19,0	485	12
5300105160	5300105161	16x1,0	16,0	300	7
5300107160	5300107161	16x1,5	17,5	365	9
5300108160	5300108161	16x2,5	20,0	550	12
5300105190	5300105191	19x1,0	17,0	340	6
5300107190	5300107191	19x1,5	18,5	415	8
5300108190	5300108191	19x2,5	21,5	645	11
5300105240	5300105241	24x1,0	20,0	435	6
5300107240	5300107241	24x1,5	22,5	535	8
5300108240	5300108241	24x2,5	25,5	820	10
5300105270	5300105271	27x1,0	21,0	490	5
5300107270	5300107271	27x1,5	22,5	590	7
5300108270	5300108271	27x2,5	26,0	905	10

Table continues on next page

H-FLEX PWR PUR 0,6/1kV		Number of conductors & cross-section n x mm²	Nominal outer diameter mm	Approximate weight kg/km	Current Rating A
Part number Normal	G - type				
5300105300	5300105301	30x1,0	21,5	540	5
5300107300	5300107301	30x1,5	23,5	655	7
5300108300	5300108301	30x2,5	27,0	1005	9
5300105370	5300105371	37x1,0	23,0	640	5
5300107370	5300107371	37x1,5	25,5	780	7
5300108370	5300108371	37x2,5	29,0	1205	9
–	5330113031	3x25+3x6	23,0	1060	86
–	5330114031	3x35+3x6	25,0	1355	107
–	5330115031	3x50+3x10	29,0	1940	137
–	5330116031	3x70+3x16	33,5	2765	168
–	5330117031	3x95+3x16	37,5	3475	199
–	5330118031	3x120+3x25	42,0	4530	232
–	5330119031	3x150+3x25	48,5	5560	267
–	5330120031	3x185+3x35	53,0	6880	300
–	5330121031	3x240+3x50	60,0	9190	355
–	5330122031	3x300+3x50	67,0	11165	407