

# H-FLEX PWR PUR

0.6/1 kV

Unscreened power and control cable



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

<b>CONDUCTOR</b>	Stranded copper conductor 1.0-300 mm <sup>2</sup> IEC 60228 class5 Tinned stranded copper conductor on request
<b>INSULATION</b>	XLPE plastic
<b>BEDDING</b>	Non-woven separator tape
<b>SHEATH</b>	Polyurethane compound Standard colour black, other colours on request



## APPLICATION

Intended for flexible, portable and movable applications such as ship-to-shore cable, outdoor cranes and various industrial applications. Suitable for flexible applications in machineries, machine tools, robot technics, and can be submersed into water. Good mechanical characteristics, high tensile strength, resistant to UV, abrasion, chemicals, oil and other fluids. Good winding and unwinding strength. Suitable for drag chain use. Mud resistant according to NEK606.

## PHYSICAL PROPERTIES:

<b>MIN. BENDING RADIUS</b>	Fixed: $4 \times \varnothing < 25 \text{ mm} < 6 \times \varnothing$ Mobile: $6 \times \varnothing < 25 \text{ mm} < 8 \times \varnothing$ S-shape deflection: $15 \times \varnothing < 25 \text{ mm} < 20 \times \varnothing$
<b>MAX. TENSILE LOAD WITHOUT STRENGTH MEMBERS</b>	15 N/mm <sup>2</sup> of phases copper cross section
<b>CORE IDENTIFICATION</b>	Colour code for 1...4 (5 if PE conductor) core cable, number code for 5...37 core cable
<b>MARINE TYPE APPROVALS</b>	RMRS, DNV-GL, BV and ABS

## MAIN CHARACTERISTICS:

<b>RATED VOLTAGE</b>	AC 0.6/1 kV (1.2 kV) DC 0.9/1.5 kV (if voltage to earth does not exceed 0.9 kV)
<b>MAXIMUM CONDUCTOR TEMPERATURE</b>	90 °C
<b>FLAME-RETARDANT</b>	IEC 60332-1-2 - test for single cable
<b>HALOGEN-FREE</b>	IEC 60754 series
<b>MECHANICAL FLEX TEST</b>	EN 50396 - conditions according to EN 50525
<b>OIL RESISTANCE</b>	EN 60811-404 - conditions according to EN 50363-10-2
<b>OPERATING TEMPERATURE</b>	-60 - 80 °C fixed use -35 - 80 °C flexible use

## H-FLEX PWR PUR 0.6/1 kV

Part number	G-type	No. of conductors x Conductor area (mm <sup>2</sup> )	Nominal outer Ø (mm)	Weight kg/km	Current rating A
5300105010	5300105011	1x1.0	5,5	30	17
5300107010	5300107011	1x1.5	6,0	35	22
5300108010	5300108011	1x2.5	6,5	50	30
5300109010	5300109011	1x4	7,0	60	39
5300110010	5300110011	1x6	7,5	80	50
5300111010	5300111011	1x10	8,5	125	71
5300112010	5300112011	1x16	9,5	180	94
5300113010	5300113011	1x25	12,0	280	123
5300114010	5300114011	1x35	13,0	375	153
5300115010	5300115011	1x50	14,5	515	196
5300116010	5300116011	1x70	17,0	720	240
5300117010	5300117011	1x95	18,5	930	284
5300118010	5300118011	1x120	20,5	1170	331
5300119010	5300119011	1x150	23,5	1480	381
5300120010	5300120011	1x185	26,0	1805	429
5300121010	5300121011	1x240	29,0	2395	507
5300122010	5300122011	1x300	32,0	2960	582
5300105020	---	2x1.0	8,0	60	14
5300107020	---	2x1.5	8,5	65	19
5300108020	---	2x2.5	10,0	100	26
5300109020	---	2x4	11,0	130	33
5300110020	---	2x6	12,5	200	43
5300111020	---	2x10	15,0	310	60
5300112020	---	2x16	17,0	445	80
5300113020	---	2x25	21,0	690	105
5300114020	---	2x35	23,0	930	130
5300115020	---	2x50	27,0	1290	167
5300116020	---	2x70	31,0	1795	204
5300117020	---	2x95	35,0	2340	241
5300105030	5300105031	3x1.0	8,5	70	12
5300107030	5300107031	3x1.5	9,5	90	15
5300108030	5300108031	3x2.5	10,5	130	21
5300109030	5300109031	3x4	12,0	170	27
5300110030	5300110031	3x6	13,5	260	35
5300111030	5300111031	3x10	15,5	400	50
5300112030	5300112031	3x16	18,0	585	66
5300113030	5300113031	3x25	23,0	925	86
5300114030	5300114031	3x35	24,5	1225	107
5300115030	5300115031	3x50	29,0	1725	137
5300116030	5300116031	3x70	33,5	2420	168
5300117030	5300117031	3x95	37,5	3150	199
5300118030	5300118031	3x120	42,0	3980	232
5300119030	5300119031	3x150	48,0	5020	267
5300120030	5300120031	3x185	53,0	6155	300
5300121030	5300121031	3x240	60,0	8210	355
5300105040	5300105041	4x1.0	9,5	95	12
5300107040	5300107041	4x1.5	10,5	110	15
5300108040	5300108041	4x2.5	11,5	160	21
5300109040	5300109041	4x4	13,0	220	27
5300110040	5300110041	4x6	14,5	320	35
5300111040	5300111041	4x10	17,5	510	50
5300112040	5300112041	4x16	20,0	750	66
5300113040	5300113041	4x25	25,5	1170	86
5300114040	5300114041	4x35	27,5	1570	107

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Part number	G-type	No. of conductors x Conductor area (mm <sup>2</sup> )	Nominal outer Ø (mm)	Weight kg/km	Current rating A
5300115040	5300115041	4x50	32,5	2220	137
5300116040	5300116041	4x70	37,5	3110	168
5300117040	5300117041	4x95	42,0	4065	199
5300118040	5300118041	4x120	46,5	5120	232
5300119040	5300119041	4x150	53,5	6490	267
5300120040	5300120041	4x185	59,0	7955	300
5300105050	5300105051	5x1.0	10,5	110	10
5300107050	5300107051	5x1.5	11,0	130	13
5300108050	5300108051	5x2.5	12,5	195	17
5300109050	5300109051	5x4	14,0	265	23
5300110050	5300110051	5x6	16,0	390	29
5300111050	5300111051	5x10	19,0	620	41
5300112050	5300112051	5x16	22,0	905	55
5300113050	5300113051	5x25	28,0	1435	71
5300114050	5300114051	5x35	30,5	1935	89
5300115050	5300115051	5x50	35,5	2760	114
5300116050	5300116051	5x70	41,5	3935	139
5300117050	5300117051	5x95	46,0	5160	165
5300118050	5300118051	5x120	52,0	6630	192
5300119050	5300119051	5x150	59,5	8550	221
5300105060	5300105061	6x1.0	11,0	145	9
5300107060	5300107061	6x1.5	12,0	150	11
5300108060	5300108061	6x2.5	14,0	230	15
5300105070	5300105071	7x1.0	11,0	140	9
5300107070	5300107071	7x1.5	12,0	165	11
5300108070	5300108071	7x2.5	13,5	255	15
5300109070	5300109071	7x4	15,0	355	20
5300110070	5300110071	7x6	17,0	515	26
5300111070	5300111071	7x10	20,5	835	37
5300112070	5300112071	7x16	24,0	1255	49
5300113070	5300113071	7x25	30,5	2000	64
5300105100	5300105101	10x1.0	14,5	205	8
5300107100	5300107101	10x1.5	15,5	245	10
5300108100	5300108101	10x2.5	17,5	365	14
5300105120	5300105121	12x1.0	15,0	235	7
5300107120	5300107121	12x1.5	16,0	280	10
5300108120	5300108121	12x2.5	18,5	430	13
5300105140	5300105141	14x1.0	15,5	270	7
5300107140	5300107141	14x1.5	17,0	320	9
5300108140	5300108141	14x2.5	19,5	490	12
5300105160	5300105161	16x1.0	16,5	300	7
5300107160	5300107161	16x1.5	18,0	365	9
5300108160	5300108161	16x2.5	20,5	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

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Part number	G-type	No. of conductors x Conductor area (mm <sup>2</sup> )	Nominal outer Ø (mm)	Weight kg/km	Current rating A
5300105240	5300105241	24x1.0	20,5	435	6
5300107240	5300107241	24x1.5	22,5	540	8
5300108240	5300108241	24x2.5	26,0	825	10
5300105270	5300105271	27x1.0	21,0	495	5
5300107270	5300107271	27x1.5	23,0	590	7
5300108270	5300108271	27x2.5	26,5	910	10
5300105300	5300105301	30x1.0	22,0	540	5
5300107300	5300107301	30x1.5	24,0	655	7
5300108300	5300108301	30x2.5	27,5	1010	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