

# H-FLEX PWR C-PUR

0.6/1 kV

Screened 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>SCREEN</b>	Copper wire braid, coverage > 94% Tinned copper wire braid on request
<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: $8 \times \varnothing < 25 \text{ mm} < 10 \times \varnothing$ 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 C-PUR 0.6/1 kV

Part number	G-type	No. of conductors x Conductor area (mm <sup>2</sup> )	Screen Cross-section (mm <sup>2</sup> )	Nominal outer Ø (mm)	Weight kg/km	Current rating A
5400105010	5400105011	1x1.0	1.9	6.0	50	17
5400107010	5400107011	1x1.5	1.9	6.5	55	22
5400108010	5400108011	1x2.5	1.9	7.0	70	30
5400109010	5400109011	1x4	2.6	7.5	90	39
5400110010	5400110011	1x6	2.6	8.0	110	50
5400111010	5400111011	1x10	3.3	9.0	155	71
5400112010	5400112011	1x16	3.3	10.5	220	94
5400113010	5400113011	1x25	3.9	12.5	320	123
5400114010	5400114011	1x35	4.6	13.5	420	153
5400115010	5400115011	1x50	5.9	15.5	570	196
5400116010	5400116011	1x70	6.0	17.5	780	240
5400117010	5400117011	1x95	7.0	19.5	1005	284
5400118010	5400118011	1x120	7.3	21.0	1245	331
5400119010	5400119011	1x150	8.2	24.0	1560	381
5400120010	5400120011	1x185	9.1	26.5	1895	429
5400121010	5400121011	1x240	10.2	29.5	2505	507
5400122010	5400122011	1x300	11.2	33.0	3095	582
5400105020	---	2x1.0	3.3	9.0	90	14
5400107020	---	2x1.5	3.3	10.0	105	19
5400108020	---	2x2.5	3.3	11.0	130	26
5400109020	---	2x4	3.9	12.0	165	33
5400110020	---	2x6	4.6	13.0	260	43
5400111020	---	2x10	5.9	15.5	380	60
5400112020	---	2x16	7.0	17.5	530	80
5400113020	---	2x25	7.3	22.0	780	105
5400114020	---	2x35	8.4	24.0	1015	130
5400115020	---	2x50	9.8	27.5	1390	167
5400116020	---	2x70	11.3	32.0	1930	204
5400117020	---	2x95	12.8	35.5	2460	241
5400105030	5400105031	3x1.0	3.3	9.5	110	12
5400107030	5400107031	3x1.5	3.3	10.0	125	15
5400108030	5400108031	3x2.5	3.9	11.5	165	21
5400109030	5400109031	3x4	4.1	12.5	215	27
5400110030	5400110031	3x6	4.6	14.0	305	35
5400111030	5400111031	3x10	6.0	16.5	470	50
5400112030	5400112031	3x16	7.0	19.0	660	66
5400113030	5400113031	3x25	7.9	23.5	1000	86
5400114030	5400114031	3x35	9.0	25.5	1310	107
5400115030	5400115031	3x50	10.6	29.5	1805	137
5400116030	5400116031	3x70	12.1	34.5	2505	168
5400117030	5400117031	3x95	13.9	38.0	3240	199
5400118030	5400118031	3x120	15.4	42.5	4075	232
5400119030	5400119031	3x150	17.2	49.0	5145	267
5400120030	5400120031	3x185	19.2	53.5	6245	300
5400121030	5400121031	3x240	21.7	60.5	8290	355
5400105040	5400105041	4x1.0	3.3	10.5	130	12
5400107040	5400107041	4x1.5	3.9	11.0	150	15
5400108040	5400108041	4x2.5	4.0	12.5	200	21
5400109040	5400109041	4x4	4.6	13.5	265	27
5400110040	5400110041	4x6	5.9	15.5	380	35
5400111040	5400111041	4x10	7.0	18.0	575	50
5400112040	5400112041	4x16	7.1	21.0	830	66
5400113040	5400113041	4x25	8.8	26.0	1280	86
5400114040	5400114041	4x35	10.0	28.0	1685	107
5400115040	5400115041	4x50	11.7	33.0	2340	137

Table continues on next page

## H-FLEX PWR C-PUR 0.6/1 kV

Part number	G-type	No. of conductors x Conductor area (mm <sup>2</sup> )	Screen Cross-section (mm <sup>2</sup> )	Nominal outer Ø (mm)	Weight kg/km	Current rating A
5400116040	5400116041	4x70	13.5	38.0	3260	168
5400117040	5400117041	4x95	15.4	42.5	4220	199
5400118040	5400118041	4x120	17.2	47.5	5325	232
5400119040	5400119041	4x150	19.3	54.5	6725	267
5400120040	5400120041	4x185	21.6	60.0	8170	300
5400105050	5400105051	5x1.0	3.9	11.0	155	10
5400107050	5400107051	5x1.5	3.9	12.0	175	13
5400108050	5400108051	5x2.5	4.6	13.5	245	17
5400109050	5400109051	5x4	5.9	14.5	330	23
5400110050	5400110051	5x6	6.0	16.5	450	29
5400111050	5400111051	5x10	7.0	20.0	695	41
5400112050	5400112051	5x16	7.8	23.0	970	55
5400113050	5400113051	5x25	9.8	28.5	1480	71
5400114050	5400114051	5x35	11.2	31.5	2065	89
5400115050	5400115051	5x50	13.1	36.5	2885	114
5400116050	5400116051	5x70	15.1	42.5	4075	139
5400117050	5400117051	5x95	17.1	47.5	5350	165
5400118050	5400118051	5x120	19.2	52.5	6805	192
5400119050	5400119051	5x150	21.6	60.0	8745	221
5400105060	5400105061	6x1.0	3.9	12.0	190	9
5400107060	5400107061	6x1.5	4.3	13.0	205	11
5400108060	5400108061	6x2.5	4.8	14.5	285	15
5400105070	5400105071	7x1.0	3.9	12.0	180	9
5400107070	5400107071	7x1.5	4.3	13.0	215	11
5400108070	5400108071	7x2.5	4.8	14.5	300	15
5400109070	5400109071	7x4	6.0	16.0	415	20
5400110070	5400110071	7x6	7.0	18.0	560	26
5400111070	5400111071	7x10	7.4	21.5	870	37
5400112070	5400112071	7x16	8.7	25.5	1300	49
5400113070	5400113071	7x25	10.9	31.5	2020	64
5400105100	5400105101	10x1.0	5.9	15.0	270	8
5400107100	5400107101	10x1.5	6.0	16.5	310	10
5400108100	5400108101	10x2.5	7.0	18.5	445	14
5400105120	5400105121	12x1.0	6.0	15.5	295	7
5400107120	5400107121	12x1.5	6.0	17.0	340	10
5400108120	5400108121	12x2.5	7.0	19.0	495	13
5400105140	5400105141	14x1.0	6.0	16.5	325	7
5400107140	5400107141	14x1.5	6.3	18.0	385	9
5400108140	5400108141	14x2.5	7.1	20.0	555	12
5400105160	5400105161	16x1.0	6.0	17.0	360	7
5400107160	5400107161	16x1.5	7.0	18.5	435	9
5400108160	5400108161	16x2.5	7.6	21.5	640	12
5400105190	5400105191	19x1.0	7.0	18.0	415	6
5400107190	5400107191	19x1.5	7.1	19.5	485	8
5400108190	5400108191	19x2.5	8.0	22.5	725	11
5400105240	5400105241	24x1.0	7.7	21.5	525	6

Table continues on next page

**H-FLEX PWR C-PUR 0.6/1 kV**

Part number	G-type	No. of conductors x Conductor area (mm <sup>2</sup> )	Screen Cross-section (mm <sup>2</sup> )	Nominal outer Ø (mm)	Weight kg/km	Current rating A
5400107240	5400107241	24x1.5	8.5	23.0	620	8
5400108240	5400108241	24x2.5	9.6	26.5	915	10
5400105270	5400105271	27x1.0	7.9	22.0	570	5
5400107270	5400107271	27x1.5	8.7	24.0	680	7
5400108270	5400108271	27x2.5	9.9	27.0	1010	10
5400105300	5400105301	30x1.0	8.2	22.5	620	5
5400107300	5400107301	30x1.5	9.1	24.5	740	7
5400108300	5400108301	30x2.5	10.3	28.0	1105	9
5400105370	5400105371	37x1.0	8.9	24.5	735	5
5400107370	5400107371	37x1.5	9.9	26.5	885	7
5400108370	5400108371	37x2.5	11.2	30.5	1335	9
---	5430113031	3x25+3x6	8.0	24.0	1150	86
---	5430114031	3x35+3x6	9.1	26.0	1455	107
---	5430115031	3x50+3x10	10.7	30.0	2055	137
---	5430116031	3x70+3x16	12.3	35.0	2910	168
---	5430117031	3x95+3x16	14.0	38.5	3630	199
---	5430118031	3x120+3x25	15.5	43.0	4700	232
---	5430119031	3x150+3x25	17.3	49.5	5745	267
---	5430120031	3x185+3x35	19.3	54.5	7125	300
---	5430121031	3x240+3x50	21.9	61.5	9470	355

