

H-FLEX PWR C-PUR

0.6/1 kV

Screened power and control cable



• FLAME-RETARDANT • OIL & CHEMICAL RESISTANT • HALOGEN-FREE • MUD RESISTANT

CONDUCTOR	Stranded copper conductor 1.0-300 mm ² IEC 60228 class5
INSULATION	XLPE plastic
BEDDING	Non-woven separator tape
SCREEN	Copper wire braid, coverage > 94%
SHEATH	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, festoon and reel installations. Mud resistant according to NEK606.

PHYSICAL PROPERTIES

MIN. BENDING RADIUS	Fixed: $4 \times \varnothing < 25 \text{ mm} < 6 \times \varnothing$ Mobile: $8 \times \varnothing < 25 \text{ mm} < 10 \times \varnothing$ S-shape deflection: $15 \times \varnothing < 25 \text{ mm} < 20 \times \varnothing$
MAX. TENSILE LOAD WITHOUT STRENGTH MEMBERS	15 N/mm ² of phases copper cross section
CORE IDENTIFICATION	Colour code for 1...4 (5 if PE conductor) core cable, number code for 5...37 core cable
MARINE TYPE APPROVALS	ABS, BV and DNV

MAIN CHARACTERISTICS

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

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Part number	G-type	No. of conductors x Conductor area (mm ²)	Screen Cross-section (mm ²)	Nominal outer Ø (mm)	Weight kg/km	Current rating A
5400105010	5400105011	1 x 1.0	1.9	6.0	50	17
5400107010	5400107011	1 x 1.5	1.9	6.5	55	22
5400108010	5400108011	1 x 2.5	1.9	7.0	70	30
5400109010	5400109011	1 x 4	2.6	7.5	90	39
5400110010	5400110011	1 x 6	2.6	8.0	110	50
5400111010	5400111011	1 x 10	3.3	9.0	155	71
5400112010	5400112011	1 x 16	3.3	10.5	220	94
5400113010	5400113011	1 x 25	3.9	12.5	320	123
5400114010	5400114011	1 x 35	4.6	13.5	420	153
5400115010	5400115011	1 x 50	5.9	15.5	570	196
5400116010	5400116011	1 x 70	6.0	17.5	780	240
5400117010	5400117011	1 x 95	7.0	19.5	1005	284
5400118010	5400118011	1 x 120	7.3	21.0	1245	331
5400119010	5400119011	1 x 150	8.2	24.0	1560	381
5400120010	5400120011	1 x 185	9.1	26.5	1895	429
5400121010	5400121011	1 x 240	10.2	29.5	2505	507
5400122010	5400122011	1 x 300	11.2	33.0	3095	582
5400105020	---	2 x 1.0	3.3	9.0	90	14
5400107020	---	2 x 1.5	3.3	10.0	105	19
5400108020	---	2 x 2.5	3.3	11.0	130	26
5400109020	---	2 x 4	3.9	12.0	165	33
5400110020	---	2 x 6	4.6	13.0	260	43
5400111020	---	2 x 10	5.9	15.5	380	60
5400112020	---	2 x 16	7.0	17.5	530	80
5400113020	---	2 x 25	7.3	22.0	780	105
5400114020	---	2 x 35	8.4	24.0	1015	130
5400115020	---	2 x 50	9.8	27.5	1390	167
5400116020	---	2 x 70	11.3	32.0	1930	204
5400117020	---	2 x 95	12.8	35.5	2460	241
5400105030	5400105031	3 x 1.0	3.3	9.5	110	12
5400107030	5400107031	3 x 1.5	3.3	10.0	125	15
5400108030	5400108031	3 x 2.5	3.9	11.5	165	21
5400109030	5400109031	3 x 4	4.1	12.5	215	27
5400110030	5400110031	3 x 6	4.6	14.0	305	35
5400111030	5400111031	3 x 10	6.0	16.5	470	50
5400112030	5400112031	3 x 16	7.0	19.0	660	66
5400113030	5400113031	3 x 25	7.9	23.5	1000	86
5400114030	5400114031	3 x 35	9.0	25.5	1310	107
5400115030	5400115031	3 x 50	10.6	29.5	1805	137
5400116030	5400116031	3 x 70	12.1	34.5	2505	168
5400117030	5400117031	3 x 95	13.9	38.0	3240	199
5400118030	5400118031	3 x 120	15.4	42.5	4075	232
5400119030	5400119031	3 x 150	17.2	49.0	5145	267
5400120030	5400120031	3 x 185	19.2	53.5	6245	300
5400121030	5400121031	3 x 240	21.7	60.5	8290	355
5400105040	5400105041	4 x 1.0	3.3	10.5	130	12
5400107040	5400107041	4 x 1.5	3.9	11.0	150	15
5400108040	5400108041	4 x 2.5	4.0	12.5	200	21
5400109040	5400109041	4 x 4	4.6	13.5	265	27
5400110040	5400110041	4 x 6	5.9	15.5	380	35
5400111040	5400111041	4 x 10	7.0	18.0	575	50
5400112040	5400112041	4 x 16	7.1	21.0	830	66
5400113040	5400113041	4 x 25	8.8	26.0	1280	86
5400114040	5400114041	4 x 35	10.0	28.0	1685	107
5400115040	5400115041	4 x 50	11.7	33.0	2340	137

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Part number	G-type	No. of conductors x Conductor area (mm ²)	Screen Cross-section (mm ²)	Nominal outer Ø (mm)	Weight kg/km	Current rating A
5400116040	5400116041	4 x 70	13.5	38.0	3260	168
5400117040	5400117041	4 x 95	15.4	42.5	4220	199
5400118040	5400118041	4 x 120	17.2	47.5	5325	232
5400119040	5400119041	4 x 150	19.3	54.5	6725	267
5400120040	5400120041	4 x 185	21.6	60.0	8170	300
5400105050	5400105051	5 x 1.0	3.9	11.0	155	10
5400107050	5400107051	5 x 1.5	3.9	12.0	175	13
5400108050	5400108051	5 x 2.5	4.6	13.5	245	17
5400109050	5400109051	5 x 4	5.9	14.5	330	23
5400110050	5400110051	5 x 6	6.0	16.5	450	29
5400111050	5400111051	5 x 10	7.0	20.0	695	41
5400112050	5400112051	5 x 16	7.8	23.0	970	55
5400113050	5400113051	5 x 25	9.8	28.5	1480	71
5400114050	5400114051	5 x 35	11.2	31.5	2065	89
5400115050	5400115051	5 x 50	13.1	36.5	2885	114
5400116050	5400116051	5 x 70	15.1	42.5	4075	139
5400117050	5400117051	5 x 95	17.1	47.5	5350	165
5400118050	5400118051	5 x 120	19.2	52.5	6805	192
5400119050	5400119051	5 x 150	21.6	60.0	8745	221
5400105060	5400105061	6 x 1.0	3.9	12.0	190	9
5400107060	5400107061	6 x 1.5	4.3	13.0	205	11
5400108060	5400108061	6 x 2.5	4.8	14.5	285	15
5400105070	5400105071	7 x 1.0	3.9	12.0	180	9
5400107070	5400107071	7 x 1.5	4.3	13.0	215	11
5400108070	5400108071	7 x 2.5	4.8	14.5	300	15
5400109070	5400109071	7 x 4	6.0	16.0	415	20
5400110070	5400110071	7 x 6	7.0	18.0	560	26
5400111070	5400111071	7 x 10	7.4	21.5	870	37
5400112070	5400112071	7 x 16	8.7	25.5	1300	49
5400113070	5400113071	7 x 25	10.9	31.5	2020	64
5400105100	5400105101	10 x 1.0	5.9	15.0	270	8
5400107100	5400107101	10 x 1.5	6.0	16.5	310	10
5400108100	5400108101	10 x 2.5	7.0	18.5	445	14

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Part number	G-type	No. of conductors x Conductor area (mm ²)	Screen Cross-section (mm ²)	Nominal outer Ø (mm)	Weight kg/km	Current rating A
5400105120	5400105121	12 x 1.0	6.0	15.5	295	7
5400107120	5400107121	12 x 1.5	6.0	17.0	340	10
5400108120	5400108121	12 x 2.5	7.0	19.0	495	13
5400105140	5400105141	14 x 1.0	6.0	16.5	325	7
5400107140	5400107141	14 x 1.5	6.3	18.0	385	9
5400108140	5400108141	14 x 2.5	7.1	20.0	555	12
5400105160	5400105161	16 x 1.0	6.0	17.0	360	7
5400107160	5400107161	16 x 1.5	7.0	18.5	435	9
5400108160	5400108161	16 x 2.5	7.6	21.5	640	12
5400105190	5400105191	19 x 1.0	7.0	18.0	415	6
5400107190	5400107191	19 x 1.5	7.1	19.5	485	8
5400108190	5400108191	19 x 2.5	8.0	22.5	725	11
5400105240	5400105241	24 x 1.0	7.7	21.5	525	6
5400107240	5400107241	24 x 1.5	8.5	23.0	620	8
5400108240	5400108241	24 x 2.5	9.6	26.5	915	10
5400105270	5400105271	27 x 1.0	7.9	22.0	570	5
5400107270	5400107271	27 x 1.5	8.7	24.0	680	7
5400108270	5400108271	27 x 2.5	9.9	27.0	1010	10
5400105300	5400105301	30 x 1.0	8.2	22.5	620	5
5400107300	5400107301	30 x 1.5	9.1	24.5	740	7
5400108300	5400108301	30 x 2.5	10.3	28.0	1105	9
5400105370	5400105371	37 x 1.0	8.9	24.5	735	5
5400107370	5400107371	37 x 1.5	9.9	26.5	885	7
5400108370	5400108371	37 x 2.5	11.2	30.5	1335	9
---	5430113031	3 x 25 + 3 x 6	8.0	24.0	1150	86
---	5430114031	3 x 35 + 3 x 6	9.1	26.0	1455	107
---	5430115031	3 x 50 + 3 x 10	10.7	30.0	2055	137
---	5430116031	3 x 70 + 3 x 16	12.3	35.0	2910	168
---	5430117031	3 x 95 + 3 x 16	14.0	38.5	3630	199
---	5430118031	3 x 120 + 3 x 25	15.5	43.0	4700	232
---	5430119031	3 x 150 + 3 x 25	17.3	49.5	5745	267
---	5430120031	3 x 185 + 3 x 35	19.3	54.5	7125	300
---	5430121031	3 x 240 + 3 x 50	21.9	61.5	9470	355

