

H-FLEX PWR PUR

0.6/1 kV

Unscreened 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
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 use. Mud resistant according to NEK606.

PHYSICAL PROPERTIES:

MIN. BENDING RADIUS	Fixed: 4 x Ø < 25 mm < 6 x Ø Mobile: 6 x Ø < 25 mm < 8 x Ø S-shape deflection: 15 x Ø < 25 mm < 20 x Ø
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:

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)
MAXIMUM CONDUCTOR TEMPERATURE	90 °C
FLAME-RETARDANT	IEC 60332-1-2 - test for single cable
HALOGEN-FREE	IEC 60754 series
MECHANICAL FLEX TEST	EN 50396 - conditions according to EN 50525
OIL RESISTANCE	EN 60811-404 - conditions according to EN 50363-10-2
OPERATING TEMPERATURE	-60 - 80 °C fixed use -35 - 80 °C flexible use

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Part number	G-type	No. of conductors x Conductor area (mm ²)	Nominal outer Ø (mm)	Weight kg/km	Current rating A
5300105010	5300105011	1 x 1.0	5.5	30	17
5300107010	5300107011	1 x 1.5	6.0	35	22
5300108010	5300108011	1 x 2.5	6.5	50	30
5300109010	5300109011	1 x 4	7.0	60	39
5300110010	5300110011	1 x 6	7.5	80	50
5300111010	5300111011	1 x 10	8.5	125	71
5300112010	5300112011	1 x 16	9.5	180	94
5300113010	5300113011	1 x 25	12.0	280	123
5300114010	5300114011	1 x 35	13.0	375	153
5300115010	5300115011	1 x 50	14.5	515	196
5300116010	5300116011	1 x 70	17.0	720	240
5300117010	5300117011	1 x 95	18.5	930	284
5300118010	5300118011	1 x 120	20.5	1170	331
5300119010	5300119011	1 x 150	23.5	1480	381
5300120010	5300120011	1 x 185	26.0	1805	429
5300121010	5300121011	1 x 240	29.0	2395	507
5300122010	5300122011	1 x 300	32.0	2960	582
5300105020	---	2 x 1.0	8.0	60	14
5300107020	---	2 x 1.5	8.5	65	19
5300108020	---	2 x 2.5	10.0	100	26
5300109020	---	2 x 4	11.0	130	33
5300110020	---	2 x 6	12.5	200	43
5300111020	---	2 x 10	15.0	310	60
5300112020	---	2 x 16	17.0	445	80
5300113020	---	2 x 25	21.0	690	105
5300114020	---	2 x 35	23.0	930	130
5300115020	---	2 x 50	27.0	1290	167
5300116020	---	2 x 70	31.0	1795	204
5300117020	---	2 x 95	35.0	2340	241
5300105030	5300105031	3 x 1.0	8.5	70	12
5300107030	5300107031	3 x 1.5	9.5	90	15
5300108030	5300108031	3 x 2.5	10.5	130	21
5300109030	5300109031	3 x 4	12.0	170	27
5300110030	5300110031	3 x 6	13.5	260	35
5300111030	5300111031	3 x 10	15.5	400	50
5300112030	5300112031	3 x 16	18.0	585	66
5300113030	5300113031	3 x 25	23.0	925	86
5300114030	5300114031	3 x 35	24.5	1225	107
5300115030	5300115031	3 x 50	29.0	1725	137
5300116030	5300116031	3 x 70	33.5	2420	168
5300117030	5300117031	3 x 95	37.5	3150	199
5300118030	5300118031	3 x 120	42.0	3980	232
5300119030	5300119031	3 x 150	48.0	5020	267
5300120030	5300120031	3 x 185	53.0	6155	300
5300121030	5300121031	3 x 240	60.0	8210	355
5300105040	5300105041	4 x 1.0	9.5	95	12
5300107040	5300107041	4 x 1.5	10.5	110	15
5300108040	5300108041	4 x 2.5	11.5	160	21
5300109040	5300109041	4 x 4	13.0	220	27
5300110040	5300110041	4 x 6	14.5	320	35
5300111040	5300111041	4 x 10	17.5	510	50
5300112040	5300112041	4 x 16	20.0	750	66
5300113040	5300113041	4 x 25	25.5	1170	86
5300114040	5300114041	4 x 35	27.5	1570	107

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Part number	G-type	No. of conductors x Conductor area (mm ²)	Nominal outer Ø (mm)	Weight kg/km	Current rating A
5300115040	5300115041	4 x 50	32.5	2220	137
5300116040	5300116041	4 x 70	37.5	3110	168
5300117040	5300117041	4 x 95	42.0	4065	199
5300118040	5300118041	4 x 120	46.5	5120	232
5300119040	5300119041	4 x 150	53.5	6490	267
5300120040	5300120041	4 x 185	59.0	7955	300
5300105050	5300105051	5 x 1.0	10.5	110	10
5300107050	5300107051	5 x 1.5	11.0	130	13
5300108050	5300108051	5 x 2.5	12.5	195	17
5300109050	5300109051	5 x 4	14.0	265	23
5300110050	5300110051	5 x 6	16.0	390	29
5300111050	5300111051	5 x 10	19.0	620	41
5300112050	5300112051	5 x 16	22.0	905	55
5300113050	5300113051	5 x 25	28.0	1435	71
5300114050	5300114051	5 x 35	30.5	1935	89
5300115050	5300115051	5 x 50	35.5	2760	114
5300116050	5300116051	5 x 70	41.5	3935	139
5300117050	5300117051	5 x 95	46.0	5160	165
5300118050	5300118051	5 x 120	52.0	6630	192
5300119050	5300119051	5 x 150	59.5	8550	221
5300105060	5300105061	6 x 1.0	11.0	145	9
5300107060	5300107061	6 x 1.5	12.0	150	11
5300108060	5300108061	6 x 2.5	14.0	230	15
5300105070	5300105071	7 x 1.0	11.0	140	9
5300107070	5300107071	7 x 1.5	12.0	165	11
5300108070	5300108071	7 x 2.5	13.5	255	15
5300109070	5300109071	7 x 4	15.0	355	20
5300110070	5300110071	7 x 6	17.0	515	26
5300111070	5300111071	7 x 10	20.5	835	37
5300112070	5300112071	7 x 16	24.0	1255	49
5300113070	5300113071	7 x 25	30.5	2000	64
5300105100	5300105101	10 x 1.0	14.5	205	8
5300107100	5300107101	10 x 1.5	15.5	245	10
5300108100	5300108101	10 x 2.5	17.5	365	14
5300105120	5300105121	12 x 1.0	15.0	235	7
5300107120	5300107121	12 x 1.5	16.0	280	10
5300108120	5300108121	12 x 2.5	18.5	430	13
5300105140	5300105141	14 x 1.0	15.5	270	7
5300107140	5300107141	14 x 1.5	17.0	320	9
5300108140	5300108141	14 x 2.5	19.5	490	12
5300105160	5300105161	16 x 1.0	16.5	300	7
5300107160	5300107161	16 x 1.5	18.0	365	9
5300108160	5300108161	16 x 2.5	20.5	550	12
5300105190	5300105191	19 x 1.0	17.0	340	6
5300107190	5300107191	19 x 1.5	18.5	415	8
5300108190	5300108191	19 x 2.5	21.5	645	11

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Part number	G-type	No. of conductors x Conductor area (mm ²)	Nominal outer Ø (mm)	Weight kg/km	Current rating A
5300105240	5300105241	24 x 1.0	20.5	435	6
5300107240	5300107241	24 x 1.5	22.5	540	8
5300108240	5300108241	24 x 2.5	26.0	825	10
5300105270	5300105271	27 x 1.0	21.0	495	5
5300107270	5300107271	27 x 1.5	23.0	590	7
5300108270	5300108271	27 x 2.5	26.5	910	10
5300105300	5300105301	30 x 1.0	22.0	540	5
5300107300	5300107301	30 x 1.5	24.0	655	7
5300108300	5300108301	30 x 2.5	27.5	1010	9
5300105370	5300105371	37 x 1.0	23.0	640	5
5300107370	5300107371	37 x 1.5	25.5	780	7
5300108370	5300108371	37 x 2.5	29.0	1205	9
---	5330113031	3 x 25 + 3 x 6	23.0	1060	86
---	5330114031	3 x 35 + 3 x 6	25.0	1355	107
---	5330115031	3 x 50 + 3 x 10	29.0	1940	137
---	5330116031	3 x 70 + 3 x 16	33.5	2765	168
---	5330117031	3 x 95 + 3 x 16	37.5	3475	199
---	5330118031	3 x 120 + 3 x 25	42.0	4530	232
---	5330119031	3 x 150 + 3 x 25	48.5	5560	267
---	5330120031	3 x 185 + 3 x 35	53.0	6880	300
---	5330121031	3 x 240 + 3 x 50	60.0	9190	355

