# 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 mm² IEC 60228 class5 |
| INSULATION | XLPE plastic |
| BEDDING | Non-woven separator tape |
| SHEATH | Polyurethane compound<br>Standard colour black, other colours on request |

### APPLICATION

Unscreened power and control cable. 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 x Ø < 25 mm < 6 x Ø<br>Mobile: 6 x Ø < 25 mm < 8 x Ø<br>S-shape deflection:<br>15 x Ø < 25 mm < 20 x Ø |
| MAX. TENSILE LOAD WITHOUT STRENGTH MEMBERS | 15 N/mm² 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)<br>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<br>-35 – 80 °C flexible use |
| MAX. CONDUCTOR TEMPERATURE | 90 °C |



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| Part number | G-type | No. of conductors x Conductor area (mm²) | 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 (mm²) | 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 |

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| Part number | G-type | No. of conductors x Conductor area (mm²) | Nominal outer Ø (mm) | Weight kg/km | Current rating A |
|---|---|---|---|---|---|
| 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 |
| 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 |

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