

# H-FLEX CTL C-PUR

250 V

Screened control cable



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

|                   |   |
|-------------------|---|
| <b>CONDUCTOR</b>  | Stranded copper conductor IEC 60228 class5<br>Tinned stranded copper conductor on request |
| <b>INSULATION</b> | XLPE plastic  |
| <b>BEDDING</b>    | Separator tape  |
| <b>SCREEN</b>     | Copper wire braid, coverage > 94%<br>Tinned copper wire braid on request                  |
| <b>SHEATH</b>     | Polyurethane compound<br>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: $4 \times \varnothing < 25 \text{ mm} < 6 \times \varnothing$<br>Mobile: $6 \times \varnothing < 25 \text{ mm} < 8 \times \varnothing$<br>S-shape deflection:<br>$15 \times \varnothing < 25 \text{ mm} < 20 \times \varnothing$ |
| <b>MAX. TENSILE LOAD WITHOUT STRENGTH MEMBERS</b> | 15 N/mm <sup>2</sup> of phases copper cross section   |
| <b>CORE IDENTIFICATION</b>                        | White insulation with black numbers   |
| <b>MARINE TYPE APPROVALS</b>                      | RMRS, DNV-GL, BV and ABS  |

## MAIN CHARACTERISTICS:

|                                      |  |
|--------------------------------------|--|
| <b>RATED VOLTAGE</b>                 | 150/250 V (300 V)                                    |
| <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<br>-35 - 80 °C flexible use    |

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| Part number | G-type     | No. of conductors x<br>Conductor area (mm <sup>2</sup> ) | Screen<br>Cross-section (mm <sup>2</sup> ) | Nominal outer<br>Ø (mm) | Weight<br>kg/km | Current rating<br>A |
|-------------|------------|--|--|-------------------------|-----------------|---------------------|
| 5400103020  | ---        | 2x0.5  | 2.6  | 7.0                     | 60              | 8.7                 |
| 5400103030  | 5400103031 | 3x0.5  | 2.6  | 7.5                     | 70              | 7.6                 |
| 5400103040  | 5400103041 | 4x0.5  | 2.6  | 8.0                     | 75              | 6.9                 |
| 5400103050  | 5400103051 | 5x0.5  | 3.2  | 9.0                     | 95              | 6.4                 |
| 5400103070  | 5400103071 | 7x0.5  | 3.2  | 9.0                     | 105             | 5.8                 |
| 5400103100  | 5400103101 | 10x0.5   | 3.9  | 11.5                    | 150             | 5.1                 |
| 5400103120  | 5400103121 | 12x0.5   | 3.9  | 12.0                    | 160             | 4.8                 |
| 5400103140  | 5400103141 | 14x0.5   | 3.9  | 12.5                    | 175             | 4.6                 |
| 5400103160  | 5400103161 | 16x0.5   | 4.6  | 13.5                    | 205             | 4.4                 |
| 5400103190  | 5400103191 | 19x0.5   | 4.6  | 13.5                    | 220             | 4.1                 |
| 5400103200  | 5400103201 | 20x0.5   | 4.7  | 13.5                    | 235             | 4.1                 |
| 5400103240  | 5400103241 | 24x0.5   | 5.9  | 16.0                    | 285             | 3.8                 |
| 5400103270  | 5400103271 | 27x0.5   | 5.9  | 16.0                    | 305             | 3.7                 |
| 5400103320  | 5400103321 | 32x0.5   | 6.0  | 16.5                    | 335             | 3.5                 |
| 5400103370  | 5400103371 | 37x0.5   | 7.0  | 17.5                    | 380             | 3.3                 |
| 5400104020  | ---        | 2x0.75   | 2.6  | 7.5                     | 70              | 11.3                |
| 5400104030  | 5400104031 | 3x0.75   | 2.6  | 8.0                     | 80              | 9.8                 |
| 5400104040  | 5400104041 | 4x0.75   | 2.6  | 8.5                     | 90              | 8.9                 |
| 5400104050  | 5400104051 | 5x0.75   | 3.3  | 10.5                    | 120             | 8.3                 |
| 5400104070  | 5400104071 | 7x0.75   | 3.3  | 10.5                    | 135             | 7.4                 |
| 5400104100  | 5400104101 | 10x0.75  | 4.1  | 13.0                    | 190             | 6.6                 |
| 5400104120  | 5400104121 | 12x0.75  | 4.6  | 13.0                    | 215             | 6.2                 |
| 5400104140  | 5400104141 | 14x0.75  | 4.6  | 14.0                    | 235             | 5.9                 |
| 5400104160  | 5400104161 | 16x0.75  | 4.9  | 15.0                    | 265             | 5.6                 |
| 5400104190  | 5400104191 | 19x0.75  | 5.9  | 15.0                    | 300             | 5.3                 |
| 5400104200  | 5400104201 | 20x0.75  | 6.0  | 15.0                    | 320             | 5.2                 |
| 5400104240  | 5400104241 | 24x0.75  | 7.0  | 17.5                    | 375             | 4.9                 |
| 5400104270  | 5400104271 | 27x0.75  | 7.0  | 18.0                    | 405             | 4.7                 |
| 5400104320  | 5400104321 | 32x0.75  | 7.0  | 19.0                    | 460             | 4.5                 |
| 5400104370  | 5400104371 | 37x0.75  | 7.1  | 20.0                    | 515             | 4.3                 |

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